# Technical Memorandum

# Co-Located Chemical Sampling Results in the Northern Buffer Zone

# Phase 1 Co-Located Chemical Soil Sampling and Phase 2 Co-Located Chemical Random Soil Sampling

# Santa Susana Field Laboratory
# Ventura County, California

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## Santa Susana Field Laboratory
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**Contract DE-EM0001128**
**CDM Smith Task Order DE-DT0003515**

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

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# Acronyms and Abbreviations

| | |
|---|---|
| %D | percent difference/percent drift |
| %R | percent recovery |
| mg/L | milligram per liter |
| ng/kg | nanogram per kilogram |
| ng/L | nanogram per liter |
| pg/L | picogram per liter |
| µg/L | microgram per liter |
| AOC | Administrative Order on Consent |
| ASTM | American Society for Testing and Materials |
| bgs | below ground surface |
| CDM | CDM Federal Programs Corporation |
| CoC | chain of custody |
| DOE | Department of Energy |
| DPT | direct push technology |
| DQI | data quality indicator |
| DQO | data quality objective |
| DTSC | Department of Toxic Substances Control |
| DUAR | data usability assessment review |
| EDL | estimated detection limit |
| EFH | extractable fuel hydrocarbon |
| EPA | U.S. Environmental Protection Agency |
| EMAX | EMAX Laboratories, Inc. |
| FSAP | field sampling and analysis plan |
| FTL | field team leader |
| GRO | gasoline range organics |
| HGL | HydroGeoLogic, Inc. |
| HMX | Octohydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine |
| HSA | Historical Site Assessment |
| ICP | inductively coupled plasma |
| LCS | laboratory control sample |
| LCSD | laboratory control sample duplicate |
| LLI | Lancaster Laboratories, Inc. |
| MDL | method detection limit |
| mL | milliliter |
| MRL | method reporting limit |
| MS | matrix spike |
| MSD | matrix spike duplicate |
| MWH | Montgomery Watson |
| NBZ | Northern Buffer Zone |
| NDMA | n-Nitrosodimethylamine |
| PAH | polycyclic aromatic hydrocarbon |
| PARCCS | precision, accuracy, representativeness, comparability, completeness and sensitivity |
| PCB | polychlorinated biphenyl |

| | |
|---|---|
| PCT | polychlorinated triphenyl |
| PID | photoionization detector |
| QA | quality assurance |
| QAPP | quality assurance project plan |
| QC | quality control |
| RCRA | Resource Conservation and Recovery Act |
| RFI | RCRA Facility Investigation |
| RL | reporting limit |
| RPD | relative percent difference |
| SDG | sample delivery group |
| SIM | selective ion monitoring |
| SOW | statement of work |
| SRE | Sodium Reactor Experiment |
| SSFL | Santa Susana Field Laboratory |
| SVOC | semi-volatile organic compound |
| TCDD | Tetrachlorodibenzodioxin |
| TM | technical memorandum |
| TPH | total petroleum hydrocarbon |
| VOC | volatile organic compound |
| WP/FSAP | Work Plan/Field Sampling and Analysis Plan |

# Section 1
# Introduction

This Technical Memorandum (TM) presents the results of chemical analyses of surface and subsurface soil, and soil from intermittent drainages collected under the *Master Work Plan/Field Sampling and Analysis Plan, Co-Located Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California* (CDM Federal Programs Corporation [CDM] 2011) (WP/FSAP) and *Addendum No. 8 to Master Work Plan/Field Sampling and Analysis Plan, Co-Located Chemical Sampling at Area IV Santa Susana Field Laboratory, Ventura County, California EPA Northern Buffer Zone Soil Sampling Phase I Co-Located Soil Chemical Sampling, Phase 2 Co-Located Soil Chemical Random Sampling* (CDM Smith 2012) (WP/FSAP Addendum).

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

## 1.1 Co-Located Soil Chemical Sampling Objectives

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

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

## 1.2 Basis for Northern Buffer Zone Soil Sampling

HGL's *Field Sampling Plan for Soil Sampling, Area IV Radiological Study, Santa Susana Field Laboratory, Ventura County, California* (HGL 2010) includes a description of the project objectives, the scope of work, laboratory analytical suites, sample collection and other standard field operation methods for EPA's radiological characterization study.

*Northern Buffer Zone FSP Addendum, Santa Susana Field Laboratory Site, Area IV Radiological Study* (HGL 2012) was prepared by HGL to support the radiological soil sampling field implementation program specific to the NBZ. This addendum provides the technical justification for locations of the drainage, surface, and subsurface soil samples in the NBZ. CDM Smith obtained collocated soil samples for chemical analysis at each location where HGL collected soil samples for radionuclides analyses.

## 1.3 Geology

The NBZ is entirely within the Chatsworth Formation, which comprises sandstone interbedded with siltstone and shale. The observed contact with the bedrock formation occurs between 0.5 foot and 10 feet below ground surface (bgs).

## 1.4 Technical Memorandum Organization

This TM includes the following sections:

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

# Section 2
# Field Sampling and Analytical Methods

Soil samples were collected from surface and drainage locations in the NBZ from March 12 through March 30 and April 2 through April 23, 2012. Subsurface sampling was performed from March 12 through March 29, 2012 and from April 2 through April 20, 2012. Sample locations in the western portion of the NBZ are shown on Figure 2-1 and on Figure 2-2 for the eastern portion of the NBZ. Exhibit one depicts the entire NBZ.

Table 2-1 provides the rationale for sampling at each location, sample number, date of collection for the soil samples, location description, description of any fill materials encountered, reasons for not sampling some of the locations proposed by EPA, and the required analyses. Table 2-2 provides laboratory analyses information and Table 2-3 shows a summary of samples collected in relation to sample deviations.

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

## 2.1 Surface and Drainage Sampling

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

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

All surface and drainage samples collected from the NBZ were to be analyzed for the primary sample analytes (i.e., SVOCs, PAHs, metals [including mercury], hexavalent chromium, pH, fluoride, PCBs/PCTs, dioxins, and perchlorate) and pesticides and herbicides. Selected NBZ surface and drainage samples were to be analyzed for all of the secondary analytes (i.e., total petroleum hydrocarbons - extractable fuel hydrocarbons [TPH-EFH], TPH-gasoline range organics [TPH-GRO], nitrates, formaldehyde, n-Nitrosodimethylamine [NDMA], energetics, cyanide, terphenyls, glycols, and alcohols) or for the secondary analytes less alcohols and glycols.

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**Legend**

- Sample Location
- Area IV Subarea
- Removed Building

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

# Northern Buffer Zone Sample Locations
# Northwest Section

0 175 350 525 700 Feet

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

CDM Smith

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**Legend**

- Sample Location
- Area IV Subarea
- Removed Building

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

# Northern Buffer Zone Sample Locations
# Northeast Section

0 175 350 525 700 Feet

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

CDM Smith

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| Sample Type | EPA Location ID | Location Description from EPA | EPA Technical Justification for Sample Collection | Boring Total Depth (ft bgs) | Description of Fill Encountered (from EPA Soil Boring Log) | Sample Date | Laboratory Analyses | Co-Located Chemical Sample Number |
|---|---|---|---|---|---|---|---|---|
| Drainage | 1 | NBZ West - Northwestern portion of the NBZ. West of the Arness fire road. | Area may have been used as open storage in the past based on access via the Arness fire road. | 0.5 | "10% siltstone gravel with trace charcoal flakes" | 4/9/2012 | Primary/Secondary* | SL-001-NBZ-SS-0.0-0.5 |
| Surface | 2 | NBZ West - Northwestern portion of the NBZ. East of the Arness fire road. | Area may have been used as open storage in the past based on access via the Arness fire road. | 0.5 | None Indicated | 3/12/2012 | Primary/Secondary | SL-002-NBZ-SS-0.0-0.5 |
| Subsurface | 2 | NBZ West - Northwestern portion of the NBZ. East of the Arness fire road. | Area may have been used as open storage in the past based on access via the Arness fire road. | 8.5 | None Indicated<br>Refusal on sandstone | 3/12/2012 | GRO<br>Primary/Secondary<br>GRO<br>Primary/Secondary | SL-002-NBZ-SB-4.5<br>SL-002-NBZ-SB-4.0-5.0<br>SL-002-NBZ-SB-8.0<br>SL-002-NBZ-SB-7.5-8.5 |
| Surface | 3 | NBZ West - Northwest portion of the NBZ in flat area on the Arness fire road, along the northern boundary. | Area may have been used as open storage in the past based on access via the Arness fire road. | 0.5 | "5% gravel" | 3/12/2012 | Primary/Secondary | SL-003-NBZ-SS-0.0-0.5 |
| Subsurface | 3 | NBZ West - Northwest portion of the NBZ in flat area on the Arness fire road, along the northern boundary. | Area may have been used as open storage in the past based on access via the Arness fire road. | 6.3 | "5% gravel " from 0 to 4.5 ft<br>Refusal on siltstone | 3/12/2012 | GRO<br>Primary/Secondary | SL-003-NBZ-SB-4.5<br>SL-003-NBZ-SB-4.0-5.0 |
| Drainage | 4 | NBZ West - Drainage leading to the northeast from the Arness fire road. | Drainage may have received surface water run-off from the Arness fire road and area of potential open storage activity. | 0.5 | None Indicated | 4/11/2012 | Primary/Secondary* | SL-004-NBZ-SS-0.0-0.5 |
| Subsurface | 5 | NBZ West - North side of dirt road leading to the northeast from the Arness fire road. | Area may have been used as open storage in the past based on access via dirt road. | 7.3 | None Indicated<br>Refusal on sandstone | 3/13/2012 | GRO<br>Primary/Secondary | SL-005-NBZ-SB-4.5<br>SL-005-NBZ-SB-4.0-5.0 |
| Subsurface | 6 | NBZ West - North side of dirt road leading to the northeast from the Arness fire road. | Area may have been used as open storage in the past based on access via dirt road. | 0 | None Indicated<br>Refusal on sandstone | 3/13/2012 | GRO<br>Primary/Secondary | SL-006-NBZ-SB-3.5<br>SL-006-NBZ-SB-3.0-4.0 |
| Subsurface | 7 | NBZ West - North side of dirt road leading to the northeast from the Arness fire road. | Area may have been used as open storage in the past based on access via dirt road. | 10 | None Indicated | 3/12/2012 | GRO<br>Primary/Secondary<br>GRO<br>Primary/Secondary | SL-007-NBZ-SB-4.5<br>SL-007-NBZ-SB-4.0-5.0<br>SL-007-NBZ-SB-9.5<br>SL-007-NBZ-SB-9.0-10.0 |
| Subsurface | 8 | NBZ West - North of the FSDF, approximately 220 feet northwest of Outfall 5. | Area may have been used as open storage in the past based on access via dirt road and proximity to the FSDF. | 5.6 | None Indicated<br>Refusal on sandstone | 4/18/2012 | GRO<br>Primary/Secondary | SL-008-NBZ-SB-4.5<br>SL-008-NBZ-SB-4.0-5.0 |
| Subsurface | 9 | NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 5. | Drainage may have received surface water flow from the FSDF and Outfall 5. | 1.5 | "Trace charcoal flakes" from 0 to 1.0 ft<br>Refusal on sandstone | 2012-04-10<br>Shallow refusal | NA | NA |
| Drainage | 9 | NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 5. | Drainage may have received surface water flow from the FSDF and Outfall 5. | 0.5 | Trace charcoal flakes | 4/10/2012 | Primary/Secondary* | SL-009-NBZ-SS-0.0-0.5MS |
| Subsurface | 10 | NBZ West - Approximately 250 feet north of Outfall 6, in the flat area at the end of the dirt road that leads northeast from the Arness fire road. | Area may have been used as open storage in the past based on access via dirt road. | 6.75 | None Indicated<br>Refusal on sandstone | 3/12/2012 | GRO<br>Primary/Secondary | SL-010-NBZ-SB-4.5<br>SL-010-NBZ-SB-4.0-5.0 |
| Subsurface | 11 | NBZ West - In drainage that flows to the northeast from the flat area at the end of the dirt road that leads northeast from the Arness fire road. | Drainage may have received surface water flow from possible open storage activities based on access via dirt road. | 2.0 | "Trace charcoal flakes" from 0 to 2.0 ft<br>Refusal on sandstone | 2012-04-12<br>Shallow refusal | NA | NA |
| Drainage | 11 | NBZ West - In drainage that flows to the northeast from the flat area at the end of the dirt road that leads northeast from the Arness fire road. | Drainage may have received surface water flow from possible open storage activities based on access via dirt road. | 0.5 | No boring log on file | 4/12/2012 | Primary/Secondary* | SL-011-NBZ-SS-0.0-0.5 |
| Drainage | 12 | NBZ West - In drainage approximately 510 feet northeast of Outfall 6. | Potential radiological contamination from surface water flow from the FSDF and Outfall 6. | 0.5 | None indicated | 4/19/2012 | Primary/Secondary* | SL-012-NBZ-SS-0.0-0.5 |
| Subsurface | 12 | NBZ West - In drainage approximately 510 feet northeast of Outfall 6. | Potential radiological contamination from surface water flow from the FSDF and Outfall 6. | 3.0 | None Indicated<br>Refusal on sandstone | 4/19/2012 | VOCs/Dioxane/GRO<br>Primary/Secondary | SL-012-NBZ-SB-1.0<br>SL-012-NBZ-SB-0.5-1.5 |
| Drainage | 13 | NBZ West - In drainage leading north from Outfall 7. Approximately 985 feet north of the Building 4100. | Potential radiological contamination from surface water flow from activities associated with Building 4100. | 0.5 | None indicated | 4/16/2012 | Primary/Secondary* | SL-013-NBZ-SS-0.0-0.5 |
| Subsurface | 13 | NBZ West - In drainage leading north from Outfall 7. Approximately 985 feet north of Building 4100. | Potential radiological contamination from surface water flow from activities associated with Building 4100. | 1.6 | None indicate<br>Refusal on sandstone | 2012-04-16<br>Shallow refusal | NA | NA |
| Drainage | 14 | NBZ West - In drainage leading north from Outfall 7. Approximately 1,500 feet north of the Building 4100. | Potential radiological contamination from surface water flow from activities associated with Building 4100. | 0.5 | None indicated | 4/17/2012 | Primary/Secondary* | SL-014-NBZ-SS-0.0-0.5 |
| Subsurface | 14 | NBZ West - In drainage leading north from Outfall 7. Approximately 1,500 feet north of the Building 4100. | Potential radiological contamination from surface water flow from activities associated with Building 4100. | 0.5 | None Indicated<br>Refusal on sandstone | 2012-04-17<br>Shallow refusal | NA | NA |
| Surface | 15 | NBZ West - Approximately 510 feet northwest of Building 4018. | Area may have been used as open storage in the past based on access via dirt road. Debris noted during the gamma scanning survey. | 0.5 | None indicated | 3/13/2012 | Primary/Secondary | SL-015-NBZ-SS-0.0-0.5 |
| Subsurface | 15 | NBZ West - Approximately 510 feet northwest of Building 4018. | Area may have been used as open storage in the past based on access via dirt road. Debris noted during the gamma scanning survey. | 1.0 | None Indicated<br>Refusal on sandstone | 2012-03-03<br>Shallow refusal | NA | NA |

Table 2-1
Soil Samples Collected from the Northern Buffer Zone

| Sample Type | EPA Location ID | Location Description from EPA | EPA Technical Justification for Sample Collection | Boring Total Depth (ft bgs) | Description of Fill Encountered (from EPA Soil Boring Log) | Sample Date | Laboratory Analyses | Co-Located Chemical Sample Number |
|---|---|---|---|---|---|---|---|---|
| Drainage | 16 | NBZ West - Approximately 400 feet north of Building 4018. | Area may have been used as open storage in the past based on access via dirt road. | 0.5 | None indicated | 4/20/2012 | Primary/Secondary* | SL-016-NBZ-SS-0.0-0.5 |
| Subsurface | 16 | NBZ West - Approximately 400 feet north of Building 4018. | Area may have been used as open storage in the past based on access via dirt road. | 1.8 | None indiated<br>Refusal on sandstone | 2012-04-20<br>Shallow refusal | NA | NA |
| Drainage | 17 | NBZ West - Approximately 500 feet north of Building 4018. | Area may have been used as open storage in the past based on access via dirt road. | 0.5 | None Indicated<br>Refusal on sandstone | 4/19/2012 | Primary/Secondary* | SL-017-NBZ-SS-0.0-0.5 |
| Subsurface | 17 | NBZ West - Approximately 500 feet north of Building 4018. | Area may have been used as open storage in the past based on access via dirt road. | 2.5 | None Indicated<br>Refusal on sandstone | 2012-04-19<br>Shallow refusal | NA | NA |
| Drainage | 18 | NBZ West - Approximately 450 feet north of Building 4018. | Area may have been used as open storage in the past based on access via dirt road. | 0.5 | None indicated | 4/20/2012 | Primary/Secondary* | SL-018-NBZ-SS-0.0-0.5 |
| Subsurface | 18 | NBZ West - Approximately 450 feet north of Building 4018. | Area may have been used as open storage in the past based on access via dirt road. | 1.0 | None Indicated<br>Refusal on sandstone | 2012-04-20<br>Shallow refusal | NA | NA |
| Surface | 19 | NBZ West - Approximately 450 feet north of Building 4018. | Area may have been used as open storage in the past based on access via dirt road. | 0.5 | None indicated | 3/13/2012 | Primary/Secondary | SL-019-NBZ-SS-0.0-0.5 |
| Subsurface | 19 | NBZ West - Approximately 450 feet north of Building 4018. | Area may have been used as open storage in the past based on access via dirt road. | 5.0 | "Trace concrete debris" from 0 to 2.0 ft<br>Refusal on sandstone | 3/13/2012 | GRO<br>Primary/Secondary | SL-019-NBZ-SB-3.5<br>SL-019-NBZ-SB-3.0-4.0 |
| Drainage | 20 | NBZ West - Approximately 700 feet down gradient of Outfall 3 and approximately 810 feet west-northwest of RMHF Building 4076. | Potential radiological contamination from surface water run-off from the Outfall 3 and the RMHF. | 0.5 | None indicated | 4/4/2012 | Primary | SL-020-NBZ-SS-0.0-0.5 |
| Subsurface | 20 | NBZ West - Approximately 700 feet down gradient of Outfall 3 and approximately 810 feet west-northwest of RMHF Building 4076. | Potential radiological contamination from surface water run-off from the Outfall 3 and the RMHF. | 4.0 | None Indicated<br>Refusal on sandstone | 4/4/2012 | VOCs/Dioxane/GRO<br>Primary/Secondary | SL-020-NBZ-SB-3.0<br>SL-020-NBZ-SB-2.5-3.5 |
| Surface | 21 | NBZ West - Approximately 270 feet west of RMHF Building 4076. | Potential contamination from debris pile, and surface water run-off from RMHF holding pond (Site 4614). | 0.5 | None indicated | 3/13/2012 | Primary/Secondary | SL-021-NBZ-SS-0.0-0.5 |
| Subsurface | 21 | NBZ West - Approximately 270 feet west of RMHF Building 4076. | Potential contamination from debris pile, and surface water run-off from RMHF holding pond (Site 4614). | 7.0 | None Indicated<br>Refusal on sandstone | 3/13/2012 | GRO<br>Primary/Secondary | SL-021-NBZ-SB-4.5<br>SL-021-NBZ-SB-4.0-5.0 |
| Surface | 22 | NBZ West - Approximately 290 feet west of RMHF Building 4076. | Potential contamination from debris pile, and surface water run-off from RMHF holding pond (Site 4614). | 0.5 | None indicated | 3/14/2012 | Primary/Secondary | SL-022-NBZ-SS-0.0-0.5 |
| Subsurface | 22 | NBZ West - Approximately 290 feet west of RMHF Building 4076. | Potential contamination from debris pile, and surface water run-off from RMHF holding pond (Site 4614). | 10.0 | "Trace gravel, travel debris(wire)" from 0 to 1.0 ft | 3/14/2012 | GRO<br>Primary/Secondary<br>GRO<br>Primary/Secondary | SL-022-NBZ-SB-4.5<br>SL-022-NBZ-SB-4.0-5.0<br>SL-022-NBZ-SB-9.5<br>SL-022-NBZ-SB-9.0-10.0 |
| Surface | 23 | NBZ West - Approximately 230 feet west of RMHF Building 4076. | Potential contamination from debris pile, and surface water run-off from RMHF holding pond (Site 4614). | 0.5 | None indicated | 3/14/2012 | Primary/Secondary | SL-023-NBZ-SS-0.0-0.5 |
| Subsurface | 23 | NBZ West - Approximately 230 feet west of RMHF Building 4076. | Potential contamination from debris pile, and surface water run-off from RMHF holding pond (Site 4614). | 9.5 | None Indicated<br>Refusal on sandstone | 3/14/2012 | GRO<br>Primary/Secondary<br>GRO<br>Primary/Secondary | SL-023-NBZ-SB-4.5<br>SL-023-NBZ-SB-4.0-5.0<br>SL-023-NBZ-SB-9.0<br>SL-023-NBZ-SB-8.5-9.5 |
| Surface | 24 | NBZ West - Approximately 275 feet west of RMHF Building 4076. | Potential contamination from debris pile, and surface water run-off from RMHF holding pond (Site 4614). | 0.5 | None indicated | 3/14/2012 | Primary/Secondary | SL-024-NBZ-SS-0.0-0.5 |
| Subsurface | 24 | NBZ West - Approximately 275 feet west of RMHF Building 4076. | Potential contamination from debris pile, and surface water run-off from RMHF holding pond (Site 4614). | 1.4 | None Indicated<br>Refusal on sandstone | 2012-03-14<br>Shallow Refusal | NA | NA |
| Surface | 25 | NBZ West - Approximately 200 feet north of RMHF Building 4076. | PGRAY P1C-14 and vicinity to the RMHF. | 0.5 | None indicated | 4/2/2012 | Primary/Secondary | SL-025-NBZ-SS-0.0-0.5 |
| Subsurface | 25 | NBZ West - Approximately 200 feet north of RMHF Building 4076. | PGRAY P1C-14 and vicinity to the RMHF | 1.6 | None Indicated<br>Refusal on sandstone | 2012-04-02<br>Shallow Refusal | NA | NA |
| Surface | 26 | NBZ West - Approximately 200 feet north of RMHF Building 4076. | PGRAY P1C-15 and vicinity to the RMHF. | 0.5 | None indicated | 4/2/2012 | Primary/Secondary | SL-026-NBZ-SS-0.0-0.5 |
| Subsurface | 26 | NBZ West - Approximately 200 feet north of RMHF Building 4076. | PGRAY P1C-15 and vicinity to the RMHF. | 1.2 | None Indicated<br>Refusal on sandstone | 2012-04-02<br>Shallow Refusal | NA | NA |
| Surface | 27 | NBZ West - Approximately 360 feet northwest of the SRE Complex. West of Cs-137 PGRAYs found in Subarea 7. | Geophysical anomaly, "Magnetometer" and near area where Cs-137 was detected during the gamma scanning survey for Subarea 6. | 0.5 | None indicated | 4/2/2012 | Primary/Secondary | SL-027-NBZ-SS-0.0-0.5 |
| Subsurface | 27 | NBZ West - Approximately 360 feet northwest of the SRE Complex. West of Cs-137 PGRAYs found in Subarea 7. | Geophysical anomaly, "Magnetometer" and near area where Cs-137 was detected during the gamma scanning survey for Subarea 6. | 2.5 | None Indicated<br>Refusal on sandstone | 2012-04-02<br>Shallow Refusal | NA | NA |
| Surface | 28 | NBZ West - Approximately 360 feet northwest of the SRE Complex. West of Cs-137 PGRAYs found in Subarea 7. | Geophysical anomaly, "Magnetometer" and near area where Cs-137 was detected during the gamma scanning survey for Subarea 6. | 0.5 | None indicated | 4/2/2012 | Primary/Secondary | SL-028-NBZ-SS-0.0-0.5 |

| Sample Type | EPA Location ID | Location Description from EPA | EPA Technical Justification for Sample Collection | Boring Total Depth (ft bgs) | Description of Fill Encountered (from EPA Soil Boring Log) | Sample Date | Laboratory Analyses | Co-Located Chemical Sample Number |
|---|---|---|---|---|---|---|---|---|
| Subsurface | 28 | NBZ West - Approximately 360 feet northwest of the SRE Complex. West of Cs-137 PGRAYs found in Subarea 7. | Geophysical anomaly, "Magnetometer" and near area where Cs-137 was detected during the gamma scanning survey for Subarea 6. | 1.0 | None Indicated<br>Refusal on sandstone | 2012-04-02<br>Shallow Refusal | NA | NA |
| Surface | 29 | NBZ West - Approximately 360 feet northwest of the SRE Complex. West of Cs-137 PGRAYs found in Subarea 7. | Geophysical anomaly, "Magnetometer" and near area where Cs-137 was detected during the gamma scanning survey for Subarea 6. | 0.5 | None indicated | 3/15/2012 | Primary/Secondary | SL-029-NBZ-SS-0.0-0.5 |
| Subsurface | 29 | NBZ West - Approximately 360 feet northwest of the SRE Complex. West of Cs-137 PGRAYs found in Subarea 7. | Geophysical anomaly, "Magnetometer" and near area where Cs-137 was detected during the gamma scanning survey for Subarea 6. | 2.5 | None Indicated<br>Refusal on sandstone | 2012-03-15<br>Shallow Refusal | NA | NA |
| Surface | 30 | NBZ West - Approximately 360 feet northwest of the SRE Complex. West of Cs-137 PGRAYs found in Subarea 7. | Geophysical anomaly, "Magnetometer" and near area where Cs-137 was detected during the gamma scanning survey for Subarea 6. | 0.5 | None indicated | 3/14/2012 | Primary/Secondary | SL-030-NBZ-SS-0.0-0.5 |
| Subsurface | 30 | NBZ West - Approximately 360 feet northwest of the SRE Complex. West of Cs-137 PGRAYs found in Subarea 7. | Geophysical anomaly, "Magnetometer" and near area where Cs-137 was detected during the gamma scanning survey for Subarea 6. | 2.5 | "Trace concrete, travel gravel" from 0 to 1.5 ft<br>Refusal on sandstone | 2012-03-14<br>Shallow Refusal | NA | NA |
| Surface | 31 | NBZ West - Approximately 575 feet northwest of the SRE Complex. | Possible contamination from Solid Radioactive Waste Storage area associated with the SRE. Down gradient of debris pile described in the Subarea 6 HSA. | 0.5 | None indicated | 4/3/2012 | Primary/Secondary | SL-031-NBZ-SS-0.0-0.5 |
| Subsurface | 31 | NBZ West - Approximately 575 feet northwest of the SRE Complex. | Possible contamination from Solid Radioactive Waste Storage area associated with the SRE. Down gradient of debris pile described in the Subarea 6 HSA. | 2.3 | None Indicated<br>Refusal on sandstone | 2012-04-03<br>Shallow Refusal | NA | NA |
| Surface | 32 | NBZ West - Approximately 575 feet northwest of the SRE Complex. | Possible contamination from Solid Radioactive Waste Storage area associated with the SRE. Down gradient of debris pile described in the Subarea 6 HSA. | 0.5 | None indicated | 4/3/2012 | Primary/Secondary | SL-032-NBZ-SS-0.0-0.5 |
| Subsurface | 32 | NBZ West - Approximately 575 feet northwest of the SRE Complex. | Possible contamination from Solid Radioactive Waste Storage area associated with the SRE. Down gradient of debris pile described in the Subarea 6 HSA. | 0.9 | None Indicated<br>Refusal on sandstone | 2012-04-03<br>Shallow Refusal | NA | NA |
| Surface | 33 | NBZ East - Approximately 575 feet north of the SRE Complex. | Possible contamination from Solid Radioactive Waste Storage area associated with the SRE. Down gradient of debris pile described in the Subarea 6 HSA. | 0.5 | None indicated | 4/3/2012 | Primary/Secondary | SL-033-NBZ-SS-0.0-0.5 |
| Subsurface | 33 | NBZ East - Approximately 575 feet north of the SRE Complex. | Possible contamination from Solid Radioactive Waste Storage area associated with the SRE. Down gradient of debris pile described in the Subarea 6 HSA. | 2.2 | None Indicated<br>Refusal on sandstone | 2012-04-13<br>Shallow Refusal | NA | NA |
| Surface | 34 | NBZ East - Approximately 575 feet north of the SRE Complex. | Possible contamination from Solid Radioactive Waste Storage area associated with the SRE. Down gradient of debris pile described in the Subarea 6 HSA. | 0.5 | None indicated | 4/3/2012 | Primary/Secondary | SL-034-NBZ-SS-0.0-0.5 |
| Subsurface | 34 | NBZ East - Approximately 575 feet north of the SRE Complex. | Possible contamination from Solid Radioactive Waste Storage area associated with the SRE. Down gradient of debris pile described in the Subarea 6 HSA. | 0.6 | None Indicated<br>Refusal on sandstone | 2012-04-03<br>Shallow Refusal | NA | NA |
| Surface | 35 | NBZ East - Approximately 575 feet north of the SRE Complex. | Possible contamination from Solid Radioactive Waste Storage area associated with the SRE. Down gradient of debris pile described in the Subarea 6 HSA. | 0.5 | None indicated | 4/3/2012 | Primary/Secondary | SL-035-NBZ-SS-0.0-0.5 |
| Subsurface | 35 | NBZ East - Approximately 575 feet north of the SRE Complex. | Possible contamination from Solid Radioactive Waste Storage area associated with the SRE. Down gradient of debris pile described in the Subarea 6 HSA. | 3.2 | None Indicated<br>Refusal on sandstone | 4/3/2012 | GRO<br>Primary/Secondary | SL-035-NBZ-SB-2.5<br>SL-035-NBZ-SB-2.0-3.0 |
| Subsurface | 36 | NBZ East - Approximately 925 feet West-northwest of the Electrical Substation. | Geophysical anomaly, "Conductivity". | 8.5 | None indicated | 3/28/2012 | GRO<br>Primary/Secondary<br>GRO<br>Primary/Secondary | SL-036-NBZ-SB-4.5<br>SL-036-NBZ-SB-4.0-5.0<br>SL-036-NBZ-SB-8.0<br>SL-036-NBZ-SB-7.5-8.5 |
| Subsurface | 37 | NBZ East - Approximately 925 feet West-northwest of the Electrical Substation. | Geophysical anomaly, "Conductivity". | 4.0 | None Indicated<br>Refusal on sandstone | 3/28/2012 | GRO<br>Primary/Secondary | SL-037-NBZ-SB-3.5<br>SL-037-NBZ-SB-3.0-4.0 |
| Drainage | 38 | NBZ East - Approximately 725 feet west-northwest of the Electrical Substation. | Potential radiological contamination from surface water run-off associated with debris pile noted during geophysical survey. Geophysical anomaly, "Magnetometer and Conductivity". | 0.5 | None indicated | 3/27/2012 | Primary/Secondary* | SL-038-NBZ-SS-0.0-0.5 |
| Subsurface | 38 | NBZ East - Approximately 725 feet west-northwest of the Electrical Substation. | Potential radiological contamination from surface water run-off associated with debris pile noted during geophysical survey. Geophysical anomaly, "Magnetometer and Conductivity". | 0.7 | None indicated | 2012-03-27<br>Shallow Refusal | NA | NA |

Table 2-1
Soil Samples Collected from the Northern Buffer Zone

| Sample Type | EPA Location ID | Location Description from EPA | EPA Technical Justification for Sample Collection | Boring Total Depth (ft bgs) | Description of Fill Encountered (from EPA Soil Boring Log) | Sample Date | Laboratory Analyses | Co-Located Chemical Sample Number |
|---|---|---|---|---|---|---|---|---|
| Subsurface | 39 | NBZ East - Approximately 725 feet west-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Down gradient of potential radiological contamination from surface water run-off from debris pile noted during gamma scanning survey. | 2.5 | None Indicated<br>Refusal on sandstone | 3/27/2012 | VOCs/Dioxane/GRO<br>Primary/Secondary | SL-039-NBZ-SB-2.5<br>SL-039-NBZ-SB-2.0-3.0 |
| Surface | 40 | NBZ East - Approximately 725 feet west-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during gamma scanning survey. | 0.5 | None indicated | 3/28/2012 | Primary/Secondary | SL-040-NBZ-SS-0.0-0.5 |
| Subsurface | 40 | NBZ East - Approximately 725 feet west-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during gamma scanning survey. | 3.5 | None Indicated<br>Refusal on sandstone | 3/28/2012 | GRO<br>Primary/Secondary | SL-040-NBZ-SB-3.0MS<br>SL-040-NBZ-SB-2.5-3.5MS |
| Subsurface | 41 | NBZ East - Approximately 725 feet west-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Down gradient of potential radiological contamination from surface water run-off from debris pile noted during geophysical survey. | 0.3 | None Indicated<br>Refusal on sandstone | 2012-03-27<br>Shallow Refusal | NA | NA |
| Surface | 42 | NBZ East - Approximately 725 feet west-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during gamma scanning survey. | 1.8 | "Artifical fill, asphalt, concete, glass bottles, metal" from 0 to 1.8 ft | 3/26/2012 | Primary/Secondary | SL-042-NBZ-SS-0.0-0.5 |
| Subsurface | 42 | NBZ East - Approximately 725 feet west-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during gamma scanning survey. | 0.5 | "Asphalt, glass bottles, metal pipes, cinder block, artifical fill, concrete & charcoal" | 2012-03-26<br>Shallow Refusal | NA | NA |
| Surface | 43 | NBZ East - Approximately 725 feet west-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Down gradient of potential radiological contamination from surface water run-off from debris pile noted during gamma scanning survey. | 1.5 | None Indicated<br>Refusal on sandstone | 3/26/2012 | Primary/Secondary | SL-043-NBZ-SS-0.0-0.5 |
| Surface | 44 | NBZ East - Approximately 725 feet west-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during geophysical survey. | 0.5 | "Asphalt, metal, glass" | 3/29/2012 | Primary/Secondary | SL-044-NBZ-SS-0.0-0.5 |
| Subsurface | 44 | NBZ East - Approximately 725 feet west-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during geophysical survey. | 1.0 | "Glass, plastic bottle cap, asphalt, Metal shards"<br>Refusal on artifical fill | 2012-03-29<br>Shallow Refusal | NA | NA |
| Surface | 45 | NBZ East - Approximately 550 feet west-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during geophysical survey. | 0.5 | "Asphalt" | 3/26/2012 | Primary/Secondary | SL-045-NBZ-SS-0.0-0.5 |
| Subsurface | 45 | NBZ East - Approximately 550 feet west-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during geophysical survey. | 5.5 | None indicated | 3/26/2012 | GRO<br>Primary/Secondary | SL-045-NBZ-SB-4.5<br>SL-045-NBZ-SB-4.0-5.0 |
| Surface | 46 | NBZ East - Approximately 550 feet west-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during geophysical survey. | 0.5 | None indicated | 3/26/2012 | Primary/Secondary | SL-046-NBZ-SS-0.0-0.5 |
| Subsurface | 46 | NBZ East - Approximately 550 feet west-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during geophysical survey. | 7.0 | None indicated<br>Refusal on sandstone | 3/26/2012 | GRO<br>Primary/Secondary | SL-046-NBZ-SB-4.5<br>SL-046-NBZ-SB-4.0-5.0 |
| Subsurface | 47 | NBZ East - Approximately 550 feet west-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer". Potential radiological contamination from debris pile noted during geophysical survey. | 7.5 | None indicated<br>Refusal on sandstone | 3/23/2012 | GRO<br>Primary/Secondary | SL-047-NBZ-SB-4.5<br>SL-047-NBZ-SB-4.0-5.0 |
| Surface | 48 | NBZ East - Approximately 550 feet west-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer". Potential radiological contamination from debris pile noted during geophysical survey. | 0.5 | "Trace charcoal pieces" | 3/23/2012 | Primary/Secondary | SL-048-NBZ-SS-0.0-0.5 |
| Subsurface | 48 | NBZ East - Approximately 550 feet west-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer". Potential radiological contamination from debris pile noted during geophysical survey. | 6.0 | None indicated<br>Refusal on sandstone | 3/23/2012 | GRO<br>Primary/Secondary | SL-048-NBZ-SB-4.5<br>SL-048-NBZ-SB-4.0-5.0 |
| Subsurface | 49 | NBZ East - Approximately 550 feet west-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during geophysical survey. | 3.2 | None indicated<br>Refusal on sandstone | 3/23/2012 | GRO<br>Primary/Secondary | SL-049-NBZ-SB-2.5<br>SL-049-NBZ-SB-2.0-3.0 |
| Surface | 50 | NBZ East - Approximately 550 feet west-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during geophysical survey. | 0.5 | None indicated | 3/26/2012 | Primary/Secondary | SL-050-NBZ-SS-0.0-0.5 |

| Sample Type | EPA Location ID | Location Description from EPA | EPA Technical Justification for Sample Collection | Boring Total Depth (ft bgs) | Description of Fill Encountered (from EPA Soil Boring Log) | Sample Date | Laboratory Analyses | Co-Located Chemical Sample Number |
|---|---|---|---|---|---|---|---|---|
| Subsurface | 50 | NBZ East - Approximately 550 feet west-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Potential radiological contamination from debris pile noted during geophysical survey. | 2.1 | None indicated<br>Refusal on sandstone | 2012-03-26<br>Shallow Refusal | NA | NA |
| Subsurface | 51 | NBZ East - Approximately 550 feet west-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer". Potential radiological contamination from debris pile noted during geophysical survey. | 2.25 | "Small charcoal flakes" from 0 ft to 1.0 ft<br>Refusal on sandstone | 3/23/2012 | GRO<br>Primary/Secondary | SL-051-NBZ-SB-2.0<br>SL-051-NBZ-SB-1.5-2.5 |
| Surface | 52 | NBZ East - Approximately 360 feet north-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Metal and concrete debris noted during geophysical survey. Disturbed ground noted during geophysical survey. | 1.5 | None indicated<br>Refusal on sandstone | 3/15/2012 | Primary/Secondary | SL-052-NBZ-SS-0.0-0.5 |
| Surface | 53 | NBZ East - Approximately 360 feet north-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Metal and concrete debris noted during geophysical survey. | 0.5 | "25% non-native gravel"<br>"trace glass, concrete, aluminum strap, metal" | 3/15/2012 | Primary/Secondary | SL-053-NBZ-SS-0.0-0.5 |
| Subsurface | 53 | NBZ East - Approximately 360 feet north-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Metal and concrete debris noted during geophysical survey. | 4.5 | "2 inch thick asphalt layer" from 2.9 ft to 3.0 ft<br>"2 inch thick asphalt layer with trace charcoal, glass, wire" at 3.5 ft<br>Refusal on sandstone | 3/15/2012 | GRO<br>Primary/Secondary | SL-053-NBZ-SB-4.0<br>SL-053-NBZ-SB-3.5-4.5 |
| Surface | 54 | NBZ East - Approximately 360 feet north-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Metal and concrete debris noted during geophysical survey. | 0.5 | "10% angular gravel (road-fill gravel)"<br>"Abundant debris: plastic, glass, metal straps" | 3/22/2012 | Primary/Secondary | SL-054-NBZ-SS-0.0-0.5 |
| Subsurface | 54 | NBZ East - Approximately 360 feet north-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Metal and concrete debris noted during geophysical survey. | 2.5 | "Glass debris" from 2.0 ft to 2.5 ft<br>Refusal on sandstone | 2012-03-22<br>Shallow Refusal | NA | NA |
| Surface | 55 | NBZ East - Approximately 380 feet north-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Down gradient of debris pile noted during geophysical survey. | 0.5 | None indicated | 3/22/2012 | Primary/Secondary | SL-055-NBZ-SS-0.0-0.5 |
| Subsurface | 55 | NBZ East - Approximately 380 feet north-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Down gradient of debris pile noted during geophysical survey. | 1.8 | None indicated<br>Refusal on sandstone | 2012-03-22<br>Shallow Refusal | NA | NA |
| Surface | 56 | NBZ East - Approximately 380 feet north-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Metal and concrete debris noted during geophysical survey. | 0.5 | "Trace debris: glass" | 3/15/2012 | Primary/Secondary | SL-056-NBZ-SS-0.0-0.5 |
| Subsurface | 56 | NBZ East - Approximately 380 feet north-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer and Conductivity". Metal and concrete debris noted during geophysical survey. | 4.0 | "Large pieces of fractured slate" from 2 ft to 2.7 ft Refusal on sandstone | 3/15/2012 | GRO<br>Primary/Secondary | SL-056-NBZ-SB-3.5<br>SL-056-NBZ-SB-3.0-4.0 |
| Surface | 57 | NBZ East - Approximately 380 feet north-northwest of the Electrical Substation. | Geophysica anomaly, "Magnetometer". Metal and concrete debris noted during geophysical survey. | 1.5 | None indicated<br>Refusal on sandstone | 3/23/2012 | Primary/Secondary | SL-057-NBZ-SS-0.0-0.5MS |
| Subsurface | 58 | NBZ East - Approximately 380 feet north-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer". Metal and concrete debris noted during geophysical survey. | 5.0 | None indicated<br>Refusal on sandstone | 3/15/2012 | GRO<br>Primary/Secondary | SL-058-NBZ-SB-4.5<br>SL-058-NBZ-SB-4.0-5.0 |
| Surface | 59 | NBZ East - Approximately 380 feet north-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer". Down gradient of metal and concrete debris noted during geophysical survey. | 0.8 | None indicated<br>Refusal on sandstone | 3/22/2012 | Primary/Secondary | SL-059-NBZ-SS-0.0-0.5 |
| Surface | 60 | NBZ East - Approximately 380 feet north-northwest of the Electrical Substation. | Geophysical anomaly, "Magnetometer". Metal and concrete debris noted during geophysical survey. | 1.0 | "Trace gravel, melted glass with metal" from 0 ft to 1 ft Refusal on sandstone | 3/22/2012 | Primary/Secondary | SL-060-NBZ-SS-0.0-0.5 |
| Subsurface | 61 | NBZ East - Approximately 410 feet north of the Electrical Substation, north side of the dirt road. | Geophysical anomaly, "Magnetometer". Metal and concrete debris noted during geophysical survey. | 2.0 | "Small charcoal flakes" from 0 ft to 2.0 ft<br>Refusal on sandstone | 3/22/2012 | GRO<br>Primary/Secondary | SL-061-NBZ-SB-1.5<br>SL-061-NBZ-SB-1.0-2.0 |
| Subsurface | 62 | NBZ East - Approximately 410 feet north of the Electrical Substation, north side of the dirt road. | Geophysical anomaly, "Magnetometer". Metal and concrete debris noted during geophysical survey. | 3.5 | "Trace angular gravel" from 0 ft to 3.5 ft<br>Refusal on sandstone | 3/21/2012 | GRO<br>Primary/Secondary | SL-062-NBZ-SB-3.0<br>SL-062-NBZ-SB-2.5-3.5 |
| Subsurface | 63 | NBZ East - Approximately 410 feet north of the Electrical Substation, north side of the dirt road. | Geophysical anomaly, "Magnetometer". Metal and concrete debris noted during geophysical survey. | 1.5 | None indicated<br>Refusal on sandstone | 3/21/2012 | GRO<br>Primary/Secondary | SL-063-NBZ-SB-1.0<br>SL-063-NBZ-SB-0.5-1.5 |
| Subsurface | 64 | NBZ East - Approximately 410 feet north of the Electrical Substation, north side of the dirt road. | Geophysical anomaly, "Magnetometer". Metal and concrete debris noted during geophysical survey. | 1.4 | "Sparce and scattered asphalt chunks" from 0 ft to 1.4 ft Refusal on sandstone | 3/21/2012 | GRO<br>Primary/Secondary | SL-064-NBZ-SB-1.0<br>SL-064-NBZ-SB-0.5-1.5 |
| Subsurface | 65 | NBZ East - Approximately 485 feet north of the Electrical Substation, north side of the dirt road. | Area may have been used as open storage in the past based on access via dirt road. | 2.0 | None indicated<br>Refusal on sandstone | 3/21/2012 | GRO<br>Primary/Secondary | SL-065-NBZ-SB-1.5<br>SL-065-NBZ-SB-1.0-2.0 |
| Subsurface | 66 | NBZ East - Approximately 425 feet north of the northwest corner Area II Building 2211. | Area may have been used as open storage in the past based on access via dirt road. | 3.0 | None indicated<br>Refusal on sandstone | 3/21/2012 | GRO<br>Primary/Secondary | SL-066-NBZ-SB-2.5<br>SL-066-NBZ-SB-2.0-3.0 |
| Subsurface | 67 | NBZ East - Approximately 425 feet north of the northwest corner Area II Building 2211. | Area may have been used as open storage in the past based on access via dirt road. | 2.5 | None indicated | 3/16/2012 | GRO<br>Primary/Secondary | SL-067-NBZ-SB-2.0<br>SL-067-NBZ-SB-1.5-2.5 |
| Subsurface | 68 | NBZ East - Approximately 425 feet north of the northwest corner Area II Building 2211. | Area may have been used as open storage in the past based on access via dirt road. | 3.5 | None indicated | 3/16/2012 | GRO<br>Primary/Secondary | SL-068-NBZ-SB-3.0MS<br>SL-068-NBZ-SB-2.5-3.5MS |
| Subsurface | 69 | NBZ East - Approximately 30 feet north of Area II Building 2211. | Potential contamination from possible open storage or other historic activities associated with building 2202. | 4.0 | None indicated<br>Refusal on sandstone | 3/20/2012 | GRO<br>Primary/Secondary | SL-069-NBZ-SB-3.5<br>SL-069-NBZ-SB-3.0-4.0 |
| Surface | 70 | NBZ East - Approximately 30 feet north of Area II Building 2202. | Potential contamination from possible open storage or other historic activities associated with building 2202 activities. | 2.0 | None indicated<br>Refusal on sandstone | 3/20/2012 | Primary/Secondary | SL-070-NBZ-SS-0.0-0.5 |
| Subsurface | 71 | NBZ East - Approximately 30 feet north of Area II Building 2203. | Potential contamination from possible open storage or other historic activities associated with building 2203 activities. | 5.0 | None indicated | 3/19/2012 | GRO<br>Primary/Secondary | SL-071-NBZ-SB-4.5<br>SL-071-NBZ-SB-4.0-5.0 |

Table 2-1
Soil Samples Collected from the Northern Buffer Zone

| Sample Type | EPA Location ID | Location Description from EPA | EPA Technical Justification for Sample Collection | Boring Total Depth (ft bgs) | Description of Fill Encountered (from EPA Soil Boring Log) | Sample Date | Laboratory Analyses | Co-Located Chemical Sample Number |
|---|---|---|---|---|---|---|---|---|
| Subsurface | 72 | NBZ East - Approximately 120 feet north of Area II Building 2211. | Potential contamination from possible open storage or other historic activities associated with buildings 2211, 2202, 2203, and 2206. | 7.0 | "Trace gravel" from 0 ft to 0.5 ft<br>Refusal on sandstone | 3/16/2012 | GRO<br>Primary/Secondary | SL-072-NBZ-SB-4.5<br>SL-072-NBZ-SB-4.0-5.0 |
| Subsurface | 73 | NBZ East - Approximately 960 feet north of Area II Building 2203. | Potential contamination from possible open storage or other historic activities associated with buildings 2211, 2202, 2203, and 2206. | 10.0 | None indicated | 3/19/2012 | GRO<br>Primary/Secondary<br>GRO<br>Primary/Secondary | SL-073-NBZ-SB-4.5<br>SL-073-NBZ-SB-4.0-5.0<br>SL-073-NBZ-SB-9.5<br>SL-073-NBZ-SB-9.0-10.0 |
| Subsurface | 74 | NBZ East - Approximately 890 feet north-northeast of Area II Building 2203. | Potential contamination from possible open storage or other historic activities associated with buildings 2211, 2202, 2203, and 2206. | 1.5 | None indicated<br>Refusal on sandstone | 3/19/2012 | GRO<br>Primary/Secondary | SL-074-NBZ-SB-1.0<br>SL-074-NBZ-SB-0.5-1.5 |
| Drainage | 75 | NBZ East - Approximately 1,400 feet north-northeast of Area II Building 2203. | Historical concentration of Pu-238 (0.22 pCi/g) in sample collected during 1992 investigation. | 0.5 | None indicated | 3/20/2012 | Primary/Secondary* | SL-075-NBZ-SS-0.0-0.5 |
| Subsurface | 75 | NBZ East - Approximately 1,400 feet north-northeast of Area II Building 2203. | Historical concentration of Pu-238 (0.22 pCi/g) in sample collected during 1992 investigation. | 0.5 | None indicated<br>Refusal on sandstone | 2012-03-20<br>Shallow Refusal | NA | NA |
| Drainage | 76 | NBZ East - Approximately 1,400 feet north-northeast of Area II Building 2203. | Historical concentration of Pu-238 (0.22 pCi/g) in sample collected during 1992 investigation. | 0.5 | None indicated | 3/20/2012 | Primary/Secondary* | SL-076-NBZ-SS-0.0-0.5 |
| Subsurface | 76 | NBZ East - Approximately 1,400 feet north-northeast of Area II Building 2203. | Historical concentration of Pu-238 (0.22 pCi/g) in sample collected during 1992 investigation. | 1.1 | None indicated<br>Refusal on sandstone | 2012-03-20<br>Shallow Refusal | NA | NA |
| Drainage | 77 | NBZ East - Approximately 1,400 feet north-northeast of Area II Building 2203. | Historical concentration of Pu-238 (0.22 pCi/g) in sample collected during 1992 investigation. | 0.5 | None indicated | 3/20/2012 | Primary/Secondary* | SL-077-NBZ-SS-0.0-0.5 |
| Subsurface | 77 | NBZ East - Approximately 1,400 feet north-northeast of Area II Building 2203. | Historical concentration of Pu-238 (0.22 pCi/g) in sample collected during 1992 investigation. | 3.0 | None indicated<br>Refusal on sandstone | 3/20/2012 | GRO<br>Primary/Secondary* | SL-077-NBZ-SB-4.5<br>SL-077-NBZ-SB-4.0-5.0 |
| Drainage | 78 | NBZ East - Approximately 1,300 feet north of Area II Building 2211. | Potential contamination from Area IV historic activities in sediment along drainage. | 0.5 | None indicated | 3/27/2012 | Primary/Secondary* | SL-078-NBZ-SS-0.0-0.5 |
| Drainage | 79 | NBZ East - Approximately 1,000 feet down gradient of Outfall 10. | Potential radiological contamination from surface water flow associated with Outfall 10. | 0.5 | None indicated | 3/30/2012 | Primary/Secondary* | SL-079-NBZ-SS-0.0-0.5 |
| Subsurface | 79 | NBZ East - Approximately 1,000 feet down gradient of Outfall 10. | Potential radiological contamination from surface water flow associated with Outfall 10. | 0.5 | None indicated<br>Refusal on sandstone | 2012-03-30<br>Shallow Refusal | NA | NA |
| Drainage | 80 | NBZ East - Approximately 1,000 feet northwest of the electrical substation. | Potential radiological contamination from surface water flow associated with debris pile noted during geophysical survey. | 0.5 | None indicated | 4/20/2012 | Primary/Secondary* | SL-080-NBZ-SS-0.0-0.5 |
| Subsurface | 80 | NBZ East - Approximately 1,000 feet northwest of the electrical substation. | Potential radiological contamination from surface water flow associated with debris pile noted during geophysical survey. | 0.55 | None indicated<br>Refusal on sandstone | 2012-04-20<br>Shallow Refusal | NA | NA |
| Drainage | 81 | NBZ West - Drainage leading to the northeast from the side road off of the Arness fire road. | Potential radiological contamination from surface water flow associated with possible open storage in the past based on access via dirt road. | 0.5 | None indicated | 4/18/2012 | Primary/Secondary* | SL-081-NBZ-SS-0.0-0.5 |
| Drainage | 82 | NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 5. | Drainage may have received surface water flow from the FSDF and Outfall 5. | 0.5 | None indicated | 4/18/2012 | Primary/Secondary* | SL-082-NBZ-SS-0.0-0.5 |
| Subsurface | 82 | NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 5. | Drainage may have received surface water flow from the FSDF and Outfall 5. | 3.8 | None indicated<br>Refusal on sandstone | 4/18/2012 | GRO<br>Primary/Secondary* | SL-082-NBZ-SB-3.0<br>SL-082-NBZ-SB-2.5-3.5 |
| Drainage | 83 | NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 5. | Drainage may have received surface water flow from the FSDF and Outfall 5. | 0.5 | "Trace charcoal" | 4/18/2012 | Primary/Secondary* | SL-083-NBZ-SS-0.0-0.5 |
| Subsurface | 83 | NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 5. | Drainage may have received surface water flow from the FSDF and Outfall 5. | 2.8 | None indicated<br>Refusal on sandstone | 2012-04-18<br>Shallow Refusal | NA | NA |
| Drainage | 84 | NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 5. | Drainage may have received surface water flow from the FSDF and Outfall 5. | 0.5 | "Trace charcoal" | 4/10/2012 | Primary/Secondary* | SL-084-NBZ-SS-0.0-0.5 |
| Subsurface | 84 | NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 5. | Drainage may have received surface water flow from the FSDF and Outfall 5. | 0.5 | None indicated | 2012-04-10<br>Shallow Refusal | NA | NA |
| Drainage | 85 | NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 6. | NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 6. | 0.5 | "Trace charcoal" | 4/10/2012 | Primary/Secondary* | SL-085-NBZ-SS-0.0-0.5 |
| Subsurface | 85 | NBZ West - In drainage that flows to the northeast from the FSDF and Outfall 6. | Drainage may have received surface water flow from the FSDF and Outfall 6. | 1.4 | "Trace charcoal" from 0 ft to 0.5 ft<br>Refusal on sandstone | 2012-04-10<br>Shallow Refusal | NA | NA |
| Drainage | 86 | NBZ West - In drainage that flows to the northeast from the FSDF, Outfall 5, and Outfall 6. | NBZ West - In drainage that flows to the northeast from the FSDF, Outfall 5, and Outfall 6. | 0.17 | None indicated<br>Refusal on sandstone | 4/19/2012 | VOCs/Dioxane/GRO<br>Primary/Secondary* | SL-086-NBZ-SS-0.0-0.5 |
| Subsurface | 86 | NBZ West - In drainage that flows to the northeast from the FSDF, Outfall 5, and Outfall 6. | NBZ West - In drainage that flows to the northeast from the FSDF, Outfall 5, and Outfall 6. | 0.17 | None indicated<br>Refusal on sandstone | 2012-04-19<br>Shallow Refusal | NA | NA |
| Drainage | 87 | NBZ West - In drainage that flows to the northeast from the FSDF, Outfall 5, and Outfall 6. | NBZ West - In drainage that flows to the northeast from the FSDF, Outfall 5, and Outfall 6. | 0.5 | None indicated | 4/19/2012 | VOCs/Dioxane/GRO<br>Primary/Secondary* | SL-087-NBZ-SS-0.5<br>SL-087-NBZ-SS-0.0-0.5 |

| Sample Type | EPA Location ID | Location Description from EPA | EPA Technical Justification for Sample Collection | Boring Total Depth (ft bgs) | Description of Fill Encountered (from EPA Soil Boring Log) | Sample Date | Laboratory Analyses | Co-Located Chemical Sample Number |
|---|---|---|---|---|---|---|---|---|
| Subsurface | 87 | NBZ West - In drainage that flows to the northeast from the FSDF, Outfall 5, and Outfall 6. | NBZ West - In drainage that flows to the northeast from the FSDF, Outfall 5, and Outfall 6. | 1.6 | None indicated<br>Refusal on sandstone | 2012-04-19<br>Shallow Refusal | NA | NA |
| Drainage | 88 | NBZ West - In drainage leading north from Outfall 7. Approximately 985 feet north of Building 4100. | Potential radiological contamination from surface water flow from activities associated with Building 4100. | 0.5 | "3% subrounded gravel" | 4/17/2012 | Primary/Secondary* | SL-088-NBZ-SS-0.0-0.5 |
| Subsurface | 88 | NBZ West - In drainage leading north from Outfall 7. Approximately 985 feet north of Building 4100. | Potential radiological contamination from surface water flow from activities associated with Building 4100. | 1.6 | "3% subrounded gravel" from 0 ft to 0.5 ft<br>Refusal on sandstone | 2012-04-17<br>Shallow Refusal | NA | NA |
| Drainage | 89 | NBZ West - Approximately 400 feet north of Building 4018. | Down gradient of area that may have been used as open storage in the past based on access via dirt road. | 0.5 | None indicated | 4/20/2012 | Primary/Secondary* | SL-089-NBZ-SS-0.0-0.5 |
| Subsurface | 89 | NBZ West - Approximately 400 feet north of Building 4018. | Down gradient of area that may have been used as open storage in the past based on access via dirt road. | 1.6 | "Trace subrounded gravel from 1 ft to 1.6 ft<br>Refusal on sandstone | 2012-04-20<br>Shallow Refusal | NA | NA |
| Drainage | 90 | NBZ West - Approximately 400 feet north of Building 4018. | Down gradient of area that may have been used as open storage in the past based on access via dirt road. | 0.5 | None indicated | 4/17/2012 | Primary/Secondary* | SL-090-NBZ-SS-0.0-0.5 |
| Subsurface | 90 | NBZ West - Approximately 400 feet north of Building 4018. | Down gradient of area that may have been used as open storage in the past based on access via dirt road. | 2.5 | None indicated<br>Refusal on sandstone | 2012-04-17<br>Shallow Refusal | NA | NA |
| Drainage | 91 | Approximately 350 feet northeast of the SRE Pond. In drainage that flows into the NBZ. | Down gradient of the SRE Pond and location of Phase I sediment sample that showed concentrations of Cs-137 (0.208 pCi/g) that exceeded the RTL ( 0.207 pCi/g). | 0.5 | None indicated | 3/29/2012 | Primary/Secondary | SL-091-NBZ-SS-0.0-0.5 |
| Subsurface | 91 | Approximately 350 feet northeast of the SRE Pond. In drainage that flows into the NBZ. | Down gradient of the SRE Pond and location of Phase I sediment sample that showed concentrations of Cs-137 (0.208 pCi/g) that exceeded the RTL ( 0.207 pCi/g). | 4.8 | None indicated<br>Refusal on sandstone | 3/29/2012 | GRO<br>Primary/Secondary | SL-091-NBZ-SB-4.5<br>SL-091-NBZ-SB-4.0-5.0 |
| Drainage | 92 | Approximately 350 feet northeast of the SRE Pond. In drainage that flows into the NBZ. | Down gradient of the SRE Pond and location of Phase I sediment sample that showed concentrations of Cs-137 (0.208 pCi/g) that exceeded the RTL ( 0.207 pCi/g). | 0.5 | None indicated | 3/29/2012 | Primary/Secondary* | SL-092-NBZ-SS-0.0-0.5MS |
| Subsurface | 92 | Approximately 350 feet northeast of the SRE Pond. In drainage that flows into the NBZ. | Down gradient of the SRE Pond and location of Phase I sediment sample that showed concentrations of Cs-137 (0.208 pCi/g) that exceeded the RTL ( 0.207 pCi/g). | 2.25 | None indicated<br>Refusal on sandstone | 2012-03-29<br>Shallow Refusal | NA | NA |
| Surface | 94 | NBZ West | Random Sample | 0.5 | None indicated | 3/28/2012 | Primary | SL-094-NBZ-SS-0.0-0.5 |
| Surface | 95 | NBZ West | Random Sample | 0.5 | None indicated | 3/27/2012 | Primary | SL-095-NBZ-SS-0.0-0.5 |
| Surface | 96 | NBZ West | Random Sample | 0.5 | None indicated | 3/28/2012 | Primary | SL-096-NBZ-SS-0.0-0.5 |
| Surface | 97 | NBZ West | Random Sample | 0.5 | None indicated | 4/4/2012 | Primary | SL-097-NBZ-SS-0.0-0.5 |
| Surface | 99 | NBZ West | Random Sample | 0.5 | "Trace charcoal flakes" | 4/4/2012 | Primary | SL-099-NBZ-SS-0.0-0.5 |
| Surface | 100 | NBZ West | Random Sample | 0.5 | None indicated | 4/4/2012 | Primary | SL-100-NBZ-SS-0.0-0.5 |
| Surface | 101 | NBZ West | Random Sample | 0.5 | "Trace charcoal flakes" | 3/29/2012 | Primary | SL-101-NBZ-SS-0.0-0.5 |
| Surface | 102 | NBZ West | Random Sample | 0.5 | "Trace charcoal" | 3/27/2012 | Primary | SL-102-NBZ-SS-0.0-0.5 |
| Surface | 103 | NBZ West | Random Sample | 0.5 | "Trace charcoal flakes" | 3/29/2012 | Primary | SL-103-NBZ-SS-0.0-0.5 |
| Surface | 104 | NBZ West | Random Sample | 0.5 | None indicated | 4/4/2012 | Primary | SL-104-NBZ-SS-0.0-0.5 |
| Surface | 105 | NBZ West | Random Sample | 0.5 | None indicated | 3/21/2012 | Primary | SL-105-NBZ-SS-0.0-0.5 |
| Surface | 107 | NBZ West | Random Sample | 0.5 | "Trace charcoal flakes" | 4/2/2012 | Primary | SL-107-NBZ-SS-0.0-0.5 |
| Surface | 108 | NBZ West | Random Sample | 0.5 | None indicated | 4/3/2012 | Primary | SL-108-NBZ-SS-0.0-0.5 |
| Surface | 109 | NBZ West | Random Sample | 0.5 | "Trace debris: small green crystalline fragment and erosional waddle netting" | 3/27/2012 | Primary | SL-109-NBZ-SS-0.0-0.5 |
| Surface | 110 | NBZ West | Random Sample | 0.5 | None indicated | 4/4/2012 | Primary | SL-110-NBZ-SS-0.0-0.5 |
| Surface | 111 | NBZ West | Random Sample | 0.5 | None indicated | 4/2/2012 | Primary | SL-111-NBZ-SS-0.0-0.5 |
| Surface | 112 | NBZ West | Random Sample | 0.5 | None indicated | 4/2/2012 | Primary | SL-112-NBZ-SS-0.0-0.5 |
| Surface | 113 | NBZ West | Random Sample | 0.5 | None indicated | 4/2/2012 | Primary | SL-113-NBZ-SS-0.0-0.5 |
| Surface | 114 | NBZ West | Random Sample | 0.5 | None indicated | 4/4/2012 | Primary | SL-114-NBZ-SS-0.0-0.5 |
| Surface | 115 | NBZ West | Random Sample | 0.5 | None indicated | 4/3/2012 | Primary | SL-115-NBZ-SS-0.0-0.5 |
| Surface | 116 | NBZ West | Random Sample | 0.5 | None indicated | 3/22/2012 | Primary | SL-116-NBZ-SS-0.0-0.5 |
| Surface | 118 | NBZ West | Random Sample | 0.5 | None indicated | 3/29/2012 | Primary | SL-118-NBZ-SS-0.0-0.5MS |
| Surface | 119 | NBZ West | Random Sample | 0.5 | "Trace charcoal flakes" | 3/27/2012 | Primary | SL-119-NBZ-SS-0.0-0.5 |
| Surface | 120 | NBZ West | Random Sample | 0.5 | None indicated | 4/4/2012 | Primary | SL-120-NBZ-SS-0.0-0.5 |

Table 2-1
Soil Samples Collected from the Northern Buffer Zone

| Sample Type | EPA Location ID | Location Description from EPA | EPA Technical Justification for Sample Collection | Boring Total Depth (ft bgs) | Description of Fill Encountered (from EPA Soil Boring Log) | Sample Date | Laboratory Analyses | Co-Located Chemical Sample Number |
|---|---|---|---|---|---|---|---|---|
| Surface | 121 | NBZ West | Random Sample | 0.5 | None indicated | 3/30/2012 | Primary | SL-121-NBZ-SS-0.0-0.5 |
| Surface | 122 | NBZ West | Random Sample | 0.5 | "Trace charcoal flakes" | 4/3/2012 | Primary | SL-122-NBZ-SS-0.0-0.5 |
| Surface | 123 | NBZ West | Random Sample | 0.5 | None indicated | 3/26/2012 | Primary | SL-123-NBZ-SS-0.0-0.5 |
| Surface | 124 | NBZ West | Random Sample | 0.5 | None indicated | 3/26/2012 | Primary | SL-124-NBZ-SS-0.0-0.5 |
| Surface | 126 | NBZ West | Random Sample | 0.5 | None indicated | 3/26/2012 | Primary | SL-126-NBZ-SS-0.0-0.5 |
| Surface | 127 | NBZ West | Random Sample | 0.5 | None indicated | 4/3/2012 | Primary | SL-127-NBZ-SS-0.0-0.5 |
| Surface | 129 | NBZ West | Random Sample | 0.5 | None indicated | 3/27/2012 | Primary | SL-129-NBZ-SS-0.0-0.5 |
| Surface | 130 | NBZ West | Random Sample | 0.5 | None indicated | 3/27/2012 | Primary | SL-130-NBZ-SS-0.0-0.5 |
| Surface | 131 | NBZ West | Random Sample | 0.5 | None indicated | 3/29/2012 | Primary | SL-131-NBZ-SS-0.0-0.5 |
| Surface | 133 | NBZ West | Random Sample | 0.5 | "Charcoal flakes" | 3/26/2012 | Primary | SL-133-NBZ-SS-0.0-0.5 |
| Surface | 134 | NBZ West | Random Sample | 0.5 | None indicated | 3/30/2012 | Primary | SL-134-NBZ-SS-0.0-0.5 |
| Surface | 135 | NBZ West | Random Sample | 0.5 | "Trace charcoal" | 3/28/2012 | Primary | SL-135-NBZ-SS-0.0-0.5 |
| Surface | 136 | NBZ West | Random Sample | 0.5 | None indicated | 3/28/2012 | Primary | SL-136-NBZ-SS-0.0-0.5 |
| Surface | 138 | NBZ West | Random Sample | 0.5 | None indicated | 4/2/2012 | Primary | SL-138-NBZ-SS-0.0-0.5 |
| Surface | 139 | NBZ West | Random Sample | 0.5 | None indicated | 3/28/2012 | Primary | SL-139-NBZ-SS-0.0-0.5 |
| Surface | 140 | NBZ West | Random Sample | 0.5 | "Trace charcoal flakes" | 4/3/2012 | Primary | SL-140-NBZ-SS-0.0-0.5 |
| Surface | 141 | NBZ West | Random Sample | 0.5 | None indicated | 3/28/2012 | Primary | SL-141-NBZ-SS-0.0-0.5 |
| Surface | 143 | NBZ West | Random Sample | 0.5 | None indicated | 3/28/2012 | Primary | SL-143-NBZ-SS-0.0-0.5 |
| Surface | 144 | NBZ East | Random Sample | 0.5 | None indicated | 4/12/2012 | Primary | SL-144-NBZ-SS-0.0-0.5 |
| Surface | 145 | NBZ East | Random Sample | 0.5 | "Trace charcoal flakes" | 4/11/2012 | Primary | SL-145-NBZ-SS-0.0-0.5 |
| Surface | 146 | NBZ East | Random Sample | 0.5 | None indicated | 4/18/2012 | Primary | SL-146-NBZ-SS-0.0-0.5 |
| Surface | 147 | NBZ East | Random Sample | 0.5 | None indicated | 4/17/2012 | Primary | SL-147-NBZ-SS-0.0-0.5 |
| Surface | 148 | NBZ East | Random Sample | 0.5 | "Trace charcoal flakes" | 4/11/2012 | Primary | SL-148-NBZ-SS-0.0-0.5 |
| Surface | 149 | NBZ East | Random Sample | 0.5 | None indicated | 4/5/2012 | Primary | SL-149-NBZ-SS-0.0-0.5 |
| Surface | 150 | NBZ East | Random Sample | 0.5 | "Trace charcoal" | 4/18/2012 | Primary | SL-150-NBZ-SS-0.0-0.5 |
| Surface | 151 | NBZ East | Random Sample | 0.5 | None indicated | 4/9/2012 | Primary | SL-151-NBZ-SS-0.0-0.5 |
| Surface | 152 | NBZ East | Random Sample | 0.5 | "Trace charcoal" | 4/12/2012 | Primary | SL-152-NBZ-SS-0.0-0.5 |
| Surface | 154 | NBZ East | Random Sample | 0.5 | "Trace charcoal flakes" | 4/11/2012 | Primary | SL-154-NBZ-SS-0.0-0.5 |
| Surface | 155 | NBZ East | Random Sample | 0.5 | None indicated | 4/4/2012 | Primary | SL-155-NBZ-SS-0.0-0.5 |
| Surface | 156 | NBZ East | Random Sample | 0.5 | "Trace charcoal flakes" | 4/17/2012 | Primary | SL-156-NBZ-SS-0.0-0.5 |
| Surface | 157 | NBZ East | Random Sample | 0.5 | None indicated | 4/9/2012 | Primary | SL-157-NBZ-SS-0.0-0.5 |
| Surface | 158 | NBZ East | Random Sample | 0.5 | "Trace charcoal flakes" | 4/12/2012 | Primary | SL-158-NBZ-SS-0.0-0.5 |
| Surface | 159 | NBZ East | Random Sample | 0.5 | "Trace charcoal flakes" | 4/16/2012 | Primary | SL-159-NBZ-SS-0.0-0.5 |
| Surface | 160 | NBZ East | Random Sample | 0.5 | None indicated | 4/16/2012 | Primary | SL-160-NBZ-SS-0.0-0.5 |
| Surface | 161 | NBZ East | Random Sample | 0.5 | "Trace charcoal flakes" | 4/17/2012 | Primary | SL-161-NBZ-SS-0.0-0.5 |
| Surface | 162 | NBZ East | Random Sample | 0.5 | "Trace charcoal flakes" | 4/17/2012 | Primary | SL-162-NBZ-SS-0.0-0.5 |
| Surface | 163 | NBZ East | Random Sample | 0.5 | "Trace charcoal flakes" | 4/11/2012 | Primary | SL-163-NBZ-SS-0.0-0.5 |
| Surface | 164 | NBZ East | Random Sample | 0.5 | None indicated | 4/16/2012 | Primary | SL-164-NBZ-SS-0.0-0.5 |
| Surface | 165 | NBZ East | Random Sample | 0.5 | None indicated | 4/5/2012 | Primary | SL-165-NBZ-SS-0.0-0.5 |
| Surface | 166 | NBZ East | Random Sample | 0.5 | "Trace charcoal flakes" | 4/17/2012 | Primary | SL-166-NBZ-SS-0.0-0.5 |
| Surface | 167 | NBZ East | Random Sample | 0.5 | "Charcoal flakes" | 4/9/2012 | Primary | SL-167-NBZ-SS-0.0-0.5 |
| Surface | 168 | NBZ East | Random Sample | 0.5 | None indicated | 4/11/2012 | Primary | SL-168-NBZ-SS-0.0-0.5 |
| Surface | 169 | NBZ East | Random Sample | 0.5 | None indicated | 4/3/2012 | Primary | SL-169-NBZ-SS-0.0-0.5 |
| Surface | 170 | NBZ East | Random Sample | 0.5 | None indicated | 4/20/2012 | Primary | SL-170-NBZ-SS-0.0-0.5 |
| Surface | 171 | NBZ East | Random Sample | 0.5 | None indicated | 4/20/2012 | Primary | SL-171-NBZ-SS-0.0-0.5 |

| Sample Type | EPA Location ID | Location Description from EPA | EPA Technical Justification for Sample Collection | Boring Total Depth (ft bgs) | Description of Fill Encountered (from EPA Soil Boring Log) | Sample Date | Laboratory Analyses | Co-Located Chemical Sample Number |
|---|---|---|---|---|---|---|---|---|
| Surface | 172 | NBZ East | Random Sample | 0.5 | "Trace charcoal flakes" | 4/12/2012 | Primary | SL-172-NBZ-SS-0.0-0.5 |
| Surface | 173 | NBZ East | Random Sample | 0.5 | "Charcoal flakes" | 4/16/2012 | Primary | SL-173-NBZ-SS-0.0-0.5MS |
| Surface | 174 | NBZ East | Random Sample | 0.5 | None indicated | 4/9/2012 | Primary | SL-174-NBZ-SS-0.0-0.5 |
| Surface | 175 | NBZ East | Random Sample | 0.5 | None indicated | 4/4/2012 | Primary | SL-175-NBZ-SS-0.0-0.5 |
| Surface | 176 | NBZ East | Random Sample | 0.5 | "Trace charcoal flakes" | 4/11/2012 | Primary | SL-176-NBZ-SS-0.0-0.5 |
| Surface | 177 | NBZ East | Random Sample | 0.5 | "Trace charcoal flakes" | 4/10/2012 | Primary | SL-177-NBZ-SS-0.0-0.5 |
| Surface | 178 | NBZ East | Random Sample | 0.5 | None indicated | 4/19/2012 | Primary | SL-178-NBZ-SS-0.0-0.5 |
| Surface | 179 | NBZ East | Random Sample | 0.5 | None indicated | 4/19/2012 | Primary | SL-179-NBZ-SS-0.0-0.5 |
| Surface | 180 | NBZ East | Random Sample | 0.5 | "Trace charcoal flakes" | 4/13/2012 | Primary | SL-180-NBZ-SS-0.0-0.5 |
| Surface | 181 | NBZ East | Random Sample | 0.5 | "Trace charcoal flakes" | 4/4/2012 | Primary | SL-181-NBZ-SS-0.0-0.5 |
| Surface | 182 | NBZ East | Random Sample | 0.5 | None indicated | 4/11/2012 | Primary | SL-182-NBZ-SS-0.0-0.5 |
| Surface | 183 | NBZ East | Random Sample | 0.5 | None indicated | 4/13/2012 | Primary | SL-183-NBZ-SS-0.0-0.5 |
| Surface | 184 | NBZ East | Random Sample | 0.5 | None indicated | 4/19/2012 | Primary | SL-184-NBZ-SS-0.0-0.5 |
| Surface | 185 | NBZ East | Random Sample | 0.5 | None indicated | 4/9/2012 | Primary | SL-185-NBZ-SS-0.0-0.5 |
| Surface | 186 | NBZ East | Random Sample | 0.5 | None indicated | 4/10/2012 | Primary | SL-186-NBZ-SS-0.0-0.5 |
| Surface | 187 | NBZ East | Random Sample | 0.5 | None indicated | 4/4/2012 | Primary | SL-187-NBZ-SS-0.0-0.5 |
| Surface | 188 | NBZ East | Random Sample | 0.5 | None indicated | 4/10/2012 | Primary | SL-188-NBZ-SS-0.0-0.5 |
| Surface | 189 | NBZ East | Random Sample | 0.5 | "Trace charcoal" | 4/18/2012 | Primary | SL-189-NBZ-SS-0.0-0.5 |
| Surface | 190 | NBZ East | Random Sample | 0.5 | None indicated | 4/5/2012 | Primary | SL-190-NBZ-SS-0.0-0.5 |
| Surface | 192 | NBZ East | Random Sample | 0.5 | None indicated | 4/9/2012 | Primary | SL-192-NBZ-SS-0.0-0.5 |
| Surface | 193 | NBZ East | Random Sample | 0.5 | None indicated | 4/19/2012 | Primary | SL-193-NBZ-SS-0.0-0.5MS |
| Surface | 194 | NBZ West | Replacement for location 106. Random Sample | 0.5 | "Trace debris: rubber flakes, glass piece, charcoal pieces" | 4/2/2012 | Primary | SL-194-NBZ-SS-0.0-0.5 |
| Surface | 195 | NBZ West | Replacement for location 117. Random Sample | 0.5 | "Charcoal flakes" | 3/26/2012 | Primary | SL-195-NBZ-SS-0.0-0.5 |
| Surface | 196 | NBZ West | Replacement for location 125. Random Sample | 0.5 | None indicated | 3/26/2012 | Primary | SL-196-NBZ-SS-0.0-0.5 |
| Surface | 197 | NBZ West | Replacement for location 128. Random Sample | 0.5 | "Trace charcoal flakes" | 3/29/2012 | Primary | SL-197-NBZ-SS-0.0-0.5 |
| Surface | 198 | NBZ West | Replacement for location 142. Random Sample | 0.5 | "Trace charcoal flakes" | 4/3/2012 | Primary | SL-198-NBZ-SS-0.0-0.5 |
| Surface | 199 | NBZ West | Replacement for location 98. Random Sample | 0.5 | None indicated | 4/23/2012 | Primary | SL-199-NBZ-SS-0.0-0.5 |
| Surface | 200 | NBZ West | Replacement for location 132. Random Sample | 0.5 | "Trace charcoal flakes" | 4/23/2012 | Primary | SL-200-NBZ-SS-0.0-0.5 |
| Surface | 201 | NBZ West | Replacement for location 137. Random Sample | 0.5 | None indicated | 4/23/2012 | Primary | SL-201-NBZ-SS-0.0-0.5 |
| Surface | 202 | NBZ West | Replacement for location 153. Random Sample | 0.5 | None indicated | 4/20/2012 | Primary | SL-202-NBZ-SS-0.0-0.5 |

**Notes & Abbreviations:**

EPA Location ID is highlighted in yellow for subsurface locations that were sampled using a hand auger

Locations 43, 52, 57, 59, 60, and 70 were planned as suburface locations, however, due to shallow refusal were sampled at the surface only.

Locations 93, 98, 106, 117, 125, 128, 132, 137, 142, 153, and 191 were proximate to an Eagle's nest and locations 98, 106, 117, 125, 128, 132, 137, 142, and 153 were moved and renumbered as 199, 194, 195, 196, 197, 200, 201, 198 , and 202, respectively. Locations 93 and 191 were not replaced or sampled.

Primary analyses include: SVOCs, Metals, Chromium VI, Fluoride, Perchlorate, PCBs/PCTs, Dioxins/Furans, pH and pesticides/herbicides in surface samples only.

Secondary analyses include: Alcohols, terphenyls, glycols, TPH-extractable fuel hydrocarbons, Formaldehyde, n-Nitrosodimethylamine, Energetics, Nitrate, Cyanide

Secondary* = Secondary analyses except for alcohols and glycols

bgs = below ground surface

dioxane = 1,4-dioxane

FSDS = Former Sodium Disposal Facility

ft = feet

GRO = TPH-gasoline range organics

NA = not applicable

PCBs/PCTs = polycyclic biphenyls/polycyclic terphenyls

SVOCs = semivolatile organic compounds

TPH = total petroleum hydrocarbons

VOCs = volatile organic compounds

## 2.2 Subsurface Sampling

Where accessible in the steep terrain of the NBZ, subsurface soil sampling was performed by a California-licensed direct push technology (DPT) subcontractor under HGL oversight. The majority of the DPT borings in the NBZ were advanced to a depth of between approximately 1 and 5 feet bgs. Table 2-1 provides the actual depths achieved at each location.

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

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

Twenty-five subsurface locations were not accessible by the Geoprobe® rig and the samples were collected using a hand auger. Only nine of these locations were augered to the target depth of 5 feet bgs or deeper. Each foot of augered soil was retrieved to the surface, placed in plastic bags and screened using the Micro R, Pancake, and PID. All borings were sampled by CDM Smith for chemical analyses at approximately 4 to 5 feet bgs, or in some cases at a shallower depth (see Table 2-2), using a slide hammer with stainless steel sleeves. The EnCore® samplers were filled from one end of the sleeve, and the sleeve was capped and submitted for the SVOC, PAH, and PCB/PCT analyses. Jars were then filled from sample material collected using the hand auger for the remaining analyses. This process was repeated at those locations where a deeper sample (i.e., target depth of 9 to 10 feet bgs) could also be collected. Because sampling using a hand auger was not addressed in the WP/FSAP or in the FSAP Addendum for the NBZ, this sampling method constitutes a variance from the FSAP (see Section 2.8.1). However, sample collection from hand augered holes was revised effective August 2, 2011 and approved by DTSC, such that when conditions permitted, a six inch sleeve was collected using a slide hammer for the SVOC, PAH, and PCB/PCT analyses, and any EnCore® samples were collected from the bottom of the sleeve.

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

## 2.3 Sample Handling

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

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

## 2.4 Field Quality Control Procedures

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

### 2.4.1 Field Duplicates and MS/MSD Samples

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

During sampling in the NBZ, a total of 10 field duplicate/MS/MSD duplicate samples were collected equating to approximately five percent for the whole program. On an individual method basis, the five percent goal was approximately met for all analyses except formaldehyde, glycols, NDMA, confirmation analyses (Method 6850) for perchlorate, terphenyls and GRO samples. For VOCs and 1,4-dioxane, field duplicates and MS/MSDs were inadvertently not collected. These methods are not considered highly critical for program decisions and the slightly lower than five percent goal does not adversely affect the quality of the data.

### 2.4.2 Equipment Rinsate Blank Samples

As stated in the Master WP/FSAP, equipment rinsate blanks were to be prepared and submitted for chemical analysis at a minimum frequency of one per 20 parent soil samples collected for each sampling technique and whenever there were changes in the sample collection procedures, sampling decontamination procedures, or sampling equipment. The week of June 20, 2011, during sampling in Subarea 5D North, the frequency of collection of equipment blanks was changed (to align with frequency of collection of equipment blanks performed under the RFI program) to weekly for both surface/drainage and subsurface samples regardless of the number of soil samples collected.

During sampling in the NBZ, seven equipment blanks associated with surface soil/drainage samples were collected and analyzed for primary surface soil analytes, pesticides, herbicides and for all

secondary analytes. Six equipment blanks were collected in association with the subsurface soil samples and analyzed for the primary analytes and all secondary analytes. One of these equipment blanks was also analyzed for VOCs/1,4-dioxane.

### 2.4.3 Field Blank Samples

Field blanks were to be collected once for each lot number of ASTM International Type II water that HGL used for decontamination. No field blanks were collected during sampling in the NBZ, but samples collected from the NBZ area are associated with the field blanks collected on November 1, 2011 and June 5, 2012 and have been validated accordingly.

### 2.4.4 Decontamination of Sampling Equipment

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

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

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

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

## 2.5 Analytical Laboratory Methods and Procedures

### 2.5.1 Analytical Methods

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

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

Surface soil samples only were also to be analyzed for:

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

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

- Nitrates using EPA Method 300.0
- Formaldehyde using EPA Method 8315A
- TPH-GRO/TPH-EFH using EPA Method 8015B
- Alcohols and terphenyls using EPA Method 8015B
- Glycols using EPA Method 8015M
- NDMA using EPA Method 1625C
- Energetics using EPA Method 8330A/8332
- Cyanide using EPA Method 9014

Through July 22, 2011, all shallow (i.e., target depth of 4 to 5 feet bgs) subsurface soil samples and any deeper subsurface soil samples at locations where both the primary and secondary suites were sampled, were also analyzed for:

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

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

After July 22, 2011, shallow subsurface soil samples were collected for VOCs and 1,4-dioxane only at locations that exhibited at least one of the following:

- Field instruments indicated the presence of VOCs above background
- Staining or exhibiting organic odors
- Targeting a feature such as a sump or tank known or suspected to have contained VOCs
- RFI data indicate the potential for VOCs to be at the subsurface soil/bedrock interface
- RFI data indicate potential for VOCs to be harbored in clay soil

### 2.5.2 Analytical Method Modifications

The analytical laboratories for the NBZ co-located soil sampling effort included Lancaster Laboratories, Inc. (LLI) of Lancaster, Pennsylvania and EMAX Laboratories, Inc. (EMAX) located in Torrance, CA. LLI was selected by competitive procurement based on their proposed method

detection limits (MDLs). Selection of LLI as the co-located soil analytical laboratory was discussed with the community on October 10, 2010. EMAX (second laboratory procured for project work) performed all analyses with the exception of samples collected for dioxin/furans, formaldehyde, NDMA, and terphenyls. Although some of the analytical methods/version performed by EMAX are not identical to the methods performed by LLI , the methods are equivalent.

The analytical methods identified for the co-located soil sampling were selected to be consistent with the methods used for the RFI. These analytical methods are presented in the *Quality Assurance Project Plan, Santa Susana Field Laboratory RCRA Facility Investigation, Surficial Media Operable Unit* (MECx 2009) (RFI Quality Assurance Project Plan [QAPP]) and are listed in Table 2-2.

For the NBZ sampling, CDM Smith also evaluated the RFI QAPP detection limits relative to risk-based soil criteria. There were several instances where risk-based soil values were lower than the RFI QAPP limits. To determine whether the analytical MDL could be lowered, method modifications were discussed with DTSC and LLI chemists at the time of implementation. The ability of the laboratory to achieve project reporting limits (RLs) and QC goals using these method modifications was checked by performing an RL study for a select set of samples for herbicide analysis. This study determined that these lower level RLs could not be verified through accuracy and precision studies on these method modifications. It was determined that for herbicides, pesticides and PCBs/PCTs these method modifications did not produce accurate and precise results at the lower method reporting limit (MRL). The laboratories supplied the preparation factors for the modified and standard methods and all associated nondetect RLs for these three methods were raised accordingly by multiplying the preparation factor against the current RLs. A procedure was established to perform this function in the database. A thorough quality control check system was developed to verify this RL adjustment. All sample data reported in this report has the corrected/adjusted RLs for herbicides, pesticides and PCBs/PCTs. If the result was adjusted the data was qualified with a "Y" flag.

Table 2-2 identifies methods that were modified in an effort to lower respective MDLs and RLs. The method modifications were not verified for herbicides, pesticides and PCBs/PCTs, but the other method modifications are applicable.

**Table 2-2 Analytical Methods and Method Modifications for Soil**

| Parameter Group | Analytical Method | Method Modified? |
|---|---|---|
| Volatile Organic Compounds | EPA 8260B | No |
| 1,4-Dioxane | EPA 8260B SIM | No |
| **Primary Analytes** | | |
| Select SVOCs | EPA 8270C SIM | No |
| SVOCs | EPA 8270C | No |
| Metals (including Mercury) | EPA 6010B/6020/7471A | No |
| Chromium VI | EPA 7199 | No |
| Fluoride | EPA 300.0 | No |
| Perchlorate[1] | EPA 6850 | No |
| Perchlorate | EPA 314.0 | No |
| PCBs/PCTs | EPA 8082 | Yes |
| Pesticides | EPA 8081A | Yes |
| Herbicides | EPA 8151A | Yes |
| Dioxins/Furans | EPA 1613B | No |
| **Secondary Analytes** | | |
| Alcohols | EPA 8015B | Yes |
| Terphenyls | EPA 8015B | Yes |
| Glycols | EPA 8015M | Yes |

**Table 2-2 Analytical Methods and Method Modifications for Soil**

| Parameter Group | Analytical Method | Method Modified? |
|---|---|---|
| TPH (GRO and EFH) | EPA 8015M | Yes |
| Formaldehyde | EPA 8315A | Yes |
| n-Nitrosodimethylamine[2] | EPA 1625C | No |
| Energetics | EPA 8330A | Yes |
| Nitrate | EPA 300.0 | No |
| Cyanide | EPA 9012B | No |
| pH | EPA 9045M | No |

[1] Perchlorate by Method EPA 6850 was analyzed on 10 percent of samples analyzed by Method EPA 314.0
[2] n-Nitrosodimethylamine was analyzed by both Methods 8270C and 8270C SIM in addition to 1625C

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

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

As discussed previously, the method modifications for Methods 8082, 8081A and 8151A are not applicable and will not be used in future analyses.

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

## 2.6 Data Review Processes

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

- Cross-reference check of sample CoC documents against the laboratory acknowledgement of sample receipt form. The laboratory acknowledgement of sample receipt was typically transmitted to the data manager via e-mail two to three days after sample receipt and login and includes a summary of the requested analyses to be performed per sample. Sample log-in errors were identified and corrected at this step.
- Tracking of sample collection, receipt, and laboratory sample delivery group (SDG) numbers on a sample tracking spreadsheet. This spreadsheet also includes field QC sample information, sample location coordinates, and required laboratory deliverables including reports, electronic data deliverables, raw data, and the status of validation.
- Laboratory consultation with the project chemists on data quality issues during sample analyses such as missed holding times, poor spike recoveries, etc. These issues are discussed between the project chemists and the laboratory to identify the resolution that achieves the most defensible data possible.

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

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

## 2.7 Increased Field and Laboratory Quality Control Measures

Further evaluation of additional quality control items such as the frequency of equipment blank collection and evaluation of low level RLs were identified and implemented during the field sampling and laboratory analytical program. In addition, a second analytical laboratory (EMAX) was subcontracted to provide analytical services at the SSFL site. These additional measures of quality control were developed in order to address and monitor these items throughout the sampling program.

The frequency of collection for equipment blanks was changed from the original collection frequency of one per 20 parent soil samples to weekly for both surface/drainage and subsurface samples regardless of the number of soil samples collected. This change was implemented during sampling in Subarea 5D North the week of June 20, 2011, and was initiated to align with the frequency of collection of equipment blanks performed under the RFI program.

An evaluation of the herbicide method 8151A modified was performed by LLI. Twenty one replicate spikes were processed by LLI and yielded accuracy and precision, recoveries, and relative standard deviations that were higher than the standard method and potentially higher than acceptable for the DOE analytical program. From the results of this study it was determined that the method modifications for herbicides, pesticides and PCBs/PCTs were not verified and the nondetect reporting

limits have been adjusted accordingly as discussed in Section 2.5.2. Technical memoranda related to the herbicide, pesticide and PCB/PCT method verification studies are included in Appendix G.

## 2.8 Deviations from the WP/FSAP

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

### 2.8.1 Field Sampling

A total of 196 locations were sampled in the NBZ. A total of three locations were not sampled due to proximity to the Golden Eagle nest (SL-093 and SL-098) and one location for shallow refusal (SL-041). Nine locations were relocated due to close proximity to a Golden Eagle nest. Thirty-eight shallow refusals were encountered during the sampling; 37 of these locations were sampled as surface only and one location only was not sampled for either surface or subsurface.

The locations are categorized based on "EPA Location ID" on Table 2-1 and the field conditions experienced during the sampling event; i.e. Shallow Refusal, Environmentally Sensitive Zone; Nesting Bird Zone; etc. Table 2-3 summarizes the locations sampled in the NBZ.

**Table 2-3 Summary of Sample Deviations**

| EPA LOCATION ID | REQUESTED SAMPLES | ACTUALLY SAMPLED | COMMENTS |
|---|---|---|---|
| Drainage Only | 4 | 4 | 4 locations were sampled at 0.5 ft bgs |
| Subsurface Only | 32 | 31 | 1 location was not sampled due to shallow refusal (SL-041)<br>2 locations were sampled as surface due to shallow refusal |
| Drainage/Subsurface | 27 | 26 | 1 location was not sampled due to Golden Eagle nest (SL-093)<br>5 Locations were sampled at both drainage (0.5) and subsurface depths<br>21 locations were sampled at only drainage depth (0.5) |
| Surface/Subsurface | 30 | 30 | 17 locations were sampled as surface only due to shallow refusal<br>13 locations were sampled at both surface and subsurface depths |
| Random Sampling Surface Only | 100 | 99 | 9 locations relocated due to Golden Eagle nest<br>1 location not sampled due to Golden Eagle nest (SL-098) |
| Duplicates | NA | 10 | 3 drainage<br>4 Surface<br>3 Subsurface |

Subsurface sampling using a hand auger was not originally planned in the Master WP/FSAP or the FSAP Addendum for the NBZ. Twenty five locations in the NBZ were hand augered as noted in Table 2-1. All hand augered locations in the NBZ were sampled using a slide hammer for collection of soil submitted for SVOC, PAH, and PCB/PCT analyses and all required Encore® samplers for VOCs/1,4-dioxane or TPH-GRO analyses were collected from one end of the sleeves.

This sampling procedure was reviewed and approved to be added to the SOP. The data collected from this sampling method has been determined to not be compromised and of sufficient quality to be used for project decisions. No further qualification of the data is required.

### 2.8.2 Analytical

As noted in Section 2.5.2, some analytical methods have been modified for this project. All modifications were discussed with DTSC representatives prior to their implementation. Review of the analytical methods and sample results indicates that the objectives for the project were addressed for all non-modified analyses. All modified analyses results were reviewed during the herbicide study. The RL-LCS and RL-MS QC samples analyzed by LLI are a primary component of these studies. An independent study evaluating the precision and accuracy of the modified herbicide method has been completed. Review of these herbicide results indicate that the method modifications did not achieve precision and accuracy goals at this lower reporting limit for some of the analytes. As discussed in Sections 2.5.2 and 2.7 the method modifications for herbicides, pesticides and PCB/PCBs could not be verified. The nondetect RLs have been adjusted accordingly and these modifications will not be used in future analyses.

EMAX laboratories reported that two samples had sleeves collected for SVOCs, SVOCs SIM and PCBs. The sleeves were not to be disturbed or homogenized for these two samples but this requirement was inadvertently not performed and the samples were homogenized. The samples were analyzed and this modification was noted in the case narrative. The samples were also identified by the laboratory with an "S" qualifier added to the affected data. The samples are SL-002-NBZ-SS-0.0-0.5 and SL-003-NBZ-SS-0.0-0.5.

# Section 3

# Northern Buffer Zone Soil Sampling Results

Because this TM only provides a presentation of the analytical results, data in this section are presented in a summary fashion. Table 3-1 provides a summary of the NBZ surface and drainage soil data. The table details the chemicals analyzed, their associated frequency of detection, the minimum and maximum detected concentrations, the range of observed detection limits and RLs, and the sample location where the maximum concentration of each analyte was detected. If two locations for the maximum concentration are listed and only one maximum concentration value is provided, this indicates that the concentration was the same at the specified depth at both locations. Table 3-2 provides the same information for NBZ subsurface soil data. This table also indicates at what depth the maximum concentrations were observed. Table 3-3 provides a summary of the NBZ combined surface and subsurface datasets.

When screening criteria are developed to assess the presence/absence of contamination (i.e., above/below the applicable criteria) the NBZ data will be combined with RFI data to better define the nature and extent of surface soil contamination in the NBZ.

Appendix A provides tables for all validated data by analytical method and sample location. Data validation qualifier codes and their definitions are presented in these tables. Appendix B provides the summary analytical data reports as received from LLI and EMAX. Appendix C presents the data usability and assessment report (DUAR), which details specific qualifications of sample results along with all validation reports. Appendix D is the master database of all sample results including the data validation "flags" (qualifiers). Appendix E provides the soil boring logs and Appendix F contains all the CoC's. Appendix G contains the DOE Herbicide Method Verification Summary.

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| Group | Chemical | CAS No | Detection Frequency | Minimum Concentration | Maximum Concentration | Range of Method Detection Limit | Range of Method Reporting Limit | Unit | Location of Maximum Concentration | Lab of Maximum Concentration | Method of Maximum Concentration | Depth of Maximum Concentration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 1,4-Dioxane | 123-91-1 | 0 / 1 | - | - | 6.3 - 6.3 | 13 - 13 | µg/kg | | | | - |
| Alcohols | 2-Propanol | 67-63-0 | 0 / 37 | - | - | 250 - 320 | 510 - 630 | µg/kg | | | | - |
| Alcohols | Ethanol | 64-17-5 | 0 / 37 | - | - | 250 - 320 | 510 - 630 | µg/kg | | | | - |
| Alcohols | Methanol | 67-56-1 | 0 / 37 | - | - | 250 - 320 | 510 - 630 | µg/kg | | | | - |
| Cyanide | Cyanide | 57-12-5 | 10 / 61 | 0.327 J Z | 4.08 | 0.25 - 0.37 | 0.5 - 0.74 | mg/kg | SL-054-NBZ | EMAX | 9014 | 0 - 0.5 |
| Dioxins | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | 35822-46-9 | 134 / 165 | 1.45 J Z | 657 | 0.014 - 0.145 | 4.95 - 7.09 | ng/kg | SL-044-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 1,2,3,4,6,7,8-HPCDF | 67562-39-4 | 116 / 165 | 0.305 J Z | 409 | 0.00831 - 0.0608 | 4.95 - 7.09 | ng/kg | SL-044-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 1,2,3,4,7,8,9-HPCDF | 55673-89-7 | 43 / 165 | 0.143 J Z | 60 | 0.0115 - 0.0837 | 4.95 - 7.09 | ng/kg | SL-060-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | 39227-28-6 | 100 / 165 | 0.028 J Z | 5.64 | 0.0142 - 0.0808 | 4.95 - 7.09 | ng/kg | SL-044-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 1,2,3,4,7,8-HXCDF | 70648-26-9 | 94 / 165 | 0.134 J Z | 168 | 0.00948 - 0.097 | 4.95 - 7.09 | ng/kg | SL-060-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | 57653-85-7 | 94 / 165 | 0.159 J Z | 68.7 | 0.0149 - 0.0825 | 4.95 - 7.09 | ng/kg | SL-044-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 1,2,3,6,7,8-HXCDF | 57117-44-9 | 89 / 165 | 0.074 J Z | 84 | 0.00981 - 0.0891 | 4.95 - 7.09 | ng/kg | SL-060-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | 19408-74-3 | 106 / 165 | 0.148 J Z | 22.6 | 0.0156 - 0.0806 | 4.95 - 7.09 | ng/kg | SL-044-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 1,2,3,7,8,9-HXCDF | 72918-21-9 | 46 / 165 | 0.039 J Z | 2.65 J Z | 0.0115 - 0.107 | 4.95 - 7.09 | ng/kg | SL-044-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | 119 / 165 | 0.118 J Z | 92.6 | 0.0123 - 0.147 | 4.95 - 7.09 | ng/kg | SL-060-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | 40321-76-4 | 63 / 165 | 0.0367 J Z | 5.86 | 0.0169 - 0.112 | 4.95 - 7.09 | ng/kg | SL-044-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 2,3,4,6,7,8-HXCDF | 60851-34-5 | 65 / 165 | 0.128 J Z | 37.3 | 0.00916 - 0.0815 | 4.95 - 7.09 | ng/kg | SL-060-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 2,3,4,7,8-PECDF | 57117-31-4 | 79 / 165 | 0.304 J Z | 243 | 0.0126 - 0.139 | 4.95 - 7.09 | ng/kg | SL-060-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 2,3,7,8-TCDD | 1746-01-6 | 61 / 165 | 0.0254 J Z | 2.53 | 0.0136 - 0.0918 | 0.99 - 1.42 | ng/kg | SL-044-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | 137 / 165 | 0.0276 J Z | 52.6 | 0.0182 - 0.495 | 0.99 - 1.42 | ng/kg | SL-060-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | OCDD | 3268-87-9 | 162 / 165 | 4.09 J Z | 5270 | 0.012 - 0.165 | 9.9 - 14.2 | ng/kg | SL-044-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | OCDF | 39001-02-0 | 133 / 165 | 0.593 J Z | 537 | 0.0109 - 0.0529 | 9.9 - 14.2 | ng/kg | SL-044-NBZ | LL | 1613B | 0 - 0.5 |
| Energetics | 1,3,5-Trinitrobenzene | 99-35-4 | 0 / 61 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 2,4,6-Trinitrotoluene | 118-96-7 | 0 / 61 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 2,4-Diamino-6-nitrotoluene | 6629-29-4 | 0 / 61 | - | - | 99 - 100 | 200 - 200 | µg/kg | | | | - |
| Energetics | 2,4-Dinitrotoluene | 121-14-2 | 0 / 61 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 2,6-Diamino-4-nitrotoluene | 59229-75-3 | 0 / 61 | - | - | 99 - 100 | 200 - 200 | µg/kg | | | | - |
| Energetics | 2,6-Dinitrotoluene | 606-20-2 | 0 / 61 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 2-Amino-4,6-Dinitrotoluene | 35572-78-2 | 0 / 61 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 2-Nitrotoluene | 88-72-2 | 0 / 61 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 3-Nitrotoluene | 99-08-1 | 0 / 61 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 4-Amino-2,6-Dinitrotoluene | 19406-51-0 | 0 / 61 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 4-Nitrotoluene | 99-99-0 | 0 / 61 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | HMX | 2691-41-0 | 0 / 61 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | M-Dinitrobenzene | 99-65-0 | 0 / 61 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | Nitrobenzene | 98-95-3 | 0 / 61 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | Nitroglycerin | 55-63-0 | 0 / 61 | - | - | 490 - 500 | 990 - 1000 | µg/kg | | | | - |
| Energetics | PETN | 78-11-5 | 0 / 61 | - | - | 490 - 500 | 990 - 1000 | µg/kg | | | | - |
| Energetics | RDX | 121-82-4 | 0 / 61 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | Tetryl | 479-45-8 | 0 / 61 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Fluoride | Fluoride | 16984-48-8 | 40 / 165 | 0.529 J Z | 4.89 | 0.5 - 0.74 | 1 - 1.48 | mg/kg | SL-163-NBZ | EMAX | 300 | 0 - 0.5 |
| Formaldehyde | Formaldehyde | 50-00-0 | 2 / 65 | 740 J Z | 1200 J Z | 600 - 73000 | 1500 - 180000 | µg/kg | SL-044-NBZ | LL | 8315A | 0 - 0.5 |
| Glycols | Diethylene Glycol | 111-46-6 | 0 / 37 | - | - | 7.6 - 9.5 | 15 - 19 | mg/kg | | | | - |
| Glycols | Ethylene Glycol | 107-21-1 | 0 / 37 | - | - | 5.1 - 6.3 | 10 - 13 | mg/kg | | | | - |
| Glycols | Propylene Glycol | 57-55-6 | 0 / 37 | - | - | 5.1 - 6.3 | 10 - 13 | mg/kg | | | | - |
| Herbicides | 2,2-Dichlor-Propionic Acid | 75-99-0 | 0 / 165 | - | - | 4.6 - 110 | 18.2 - 440 | µg/kg | | | | - |
| Herbicides | 2,4,5-T | 93-76-5 | 0 / 165 | - | - | 0.086 - 2.1 | 0.34 - 8.2 | µg/kg | | | | - |
| Herbicides | 2,4-D | 94-75-7 | 1 / 165 | 18 | 18 | 1.8 - 43 | 7.4 - 174 | µg/kg | SL-021-NBZ | EMAX | 8151A | 0 - 0.5 |
| Herbicides | 2,4-DB | 94-82-6 | 0 / 165 | - | - | 0.86 - 21 | 3.4 - 82 | µg/kg | | | | - |
| Herbicides | Dicamba | 1918-00-9 | 0 / 165 | - | - | 0.61 - 14 | 2.4 - 58 | µg/kg | | | | - |
| Herbicides | Dichlorprop | 120-36-5 | 0 / 165 | - | - | 1.2 - 29 | 4.8 - 116 | µg/kg | | | | - |
| Herbicides | Dinitrobutyl Phenol | 88-85-7 | 0 / 165 | - | - | 0.86 - 21 | 3.4 - 82 | µg/kg | | | | - |
| Herbicides | MCPA | 94-74-6 | 0 / 165 | - | - | 130 - 3000 | 500 - 12000 | µg/kg | | | | - |
| Herbicides | MCPP | 93-65-2 | 0 / 165 | - | - | 130 - 3000 | 500 - 12000 | µg/kg | | | | - |
| Herbicides | Silvex (2,4,5-TP) | 93-72-1 | 2 / 165 | 1.2 | 10 | 0.086 - 2.1 | 0.34 - 8.2 | µg/kg | SL-044-NBZ | EMAX | 8151A | 0 - 0.5 |
| Hexavalent Chromium | Chromium (Hexavalent Compounds) | 18540-29-9 | 0 / 165 | - | - | 0.508 - 0.74 | 2.04 - 1.48 | mg/kg | | | | - |
| Mercury | Mercury | 7439-97-6 | 13 / 165 | 0.0584 J Z | 24.3 | 0.0504 - 2.6 | 0.101 - 5.19 | mg/kg | SL-044-NBZ | EMAX | 7471A | 0 - 0.5 |
| Metals | Aluminum | 7429-90-5 | 165 / 165 | 5700 | 21600 | 11.3 - 17.7 | 22.6 - 35.3 | mg/kg | SL-148-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Antimony | 7440-36-0 | 159 / 165 | 0.11 J Z | 8.25 J Q | 0.0943 - 0.147 | 0.189 - 0.294 | mg/kg | SL-044-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Arsenic | 7440-38-2 | 165 / 165 | 2.09 | 25.4 | 0.189 - 0.294 | 0.377 - 0.589 | mg/kg | SL-188-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Barium | 7440-39-3 | 165 / 165 | 51.9 J Q | 150 | 0.189 - 0.294 | 0.377 - 0.589 | mg/kg | SL-012-NBZ | EMAX | 6020 | 0 - 0.5 |

Table 3-1
Summary of Analytical Results for Chemicals - Validated Data
Surface Soils - NBZ - Phases 1 and 2

| Group | Chemical | CAS No | Detection Frequency | Minimum Concentration | Maximum Concentration | Range of Method Detection Limit | Range of Method Reporting Limit | Unit | Location of Maximum Concentration | Lab of Maximum Concentration | Method of Maximum Concentration | Depth of Maximum Concentration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metals | Beryllium | 7440-41-7 | 165 / 165 | 0.242 | 1.09 | 0.0472 - 0.0736 | 0.0943 - 0.147 | mg/kg | SL-148-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Boron | 7440-42-8 | 29 / 165 | 2.6 J Z | 22.8 | 2.36 - 3.68 | 4.72 - 7.36 | mg/kg | SL-017-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Cadmium | 7440-43-9 | 165 / 165 | 0.0848 J Z | 3.41 | 0.0472 - 0.0736 | 0.0943 - 0.147 | mg/kg | SL-044-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Calcium | 7440-70-2 | 165 / 165 | 1450 | 157000 | 9.43 - 14.7 | 18.9 - 29.4 | mg/kg | SL-054-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Chromium | 7440-47-3 | 165 / 165 | 6.29 | 40.8 | 0.189 - 0.294 | 0.377 - 0.589 | mg/kg | SL-199-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Cobalt | 7440-48-4 | 165 / 165 | 2.58 | 13.3 | 0.0472 - 0.0736 | 0.0943 - 0.147 | mg/kg | SL-151-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Copper | 7440-50-8 | 165 / 165 | 3.08 | 1740 | 0.189 - 1.03 | 0.377 - 2.05 | mg/kg | SL-044-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Iron | 7439-89-6 | 165 / 165 | 11600 | 34100 | 9.43 - 14.7 | 18.9 - 29.4 | mg/kg | SL-176-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Lead | 7439-92-1 | 165 / 165 | 3.95 | 200 | 0.0943 - 0.147 | 0.189 - 0.294 | mg/kg | SL-044-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Lithium | 7439-93-2 | 165 / 165 | 10.1 | 53.8 | 0.943 - 1.47 | 1.89 - 2.94 | mg/kg | SL-176-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Magnesium | 7439-95-4 | 165 / 165 | 2750 | 9200 | 4.72 - 7.36 | 9.43 - 14.7 | mg/kg | SL-054-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Manganese | 7439-96-5 | 165 / 165 | 171 | 638 | 0.236 - 0.368 | 0.472 - 0.736 | mg/kg | SL-124-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Molybdenum | 7439-98-7 | 165 / 165 | 0.168 | 2.78 | 0.0472 - 0.0736 | 0.0943 - 0.147 | mg/kg | SL-044-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Nickel | 7440-02-0 | 165 / 165 | 4.03 | 61.4 | 0.189 - 0.294 | 0.377 - 0.589 | mg/kg | SL-042-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Phosphorus | 7723-14-0 | 165 / 165 | 168 | 879 | 5.66 - 8.83 | 11.3 - 17.7 | mg/kg | SL-176-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Potassium | 9/7/7440 | 165 / 165 | 1910 | 6350 J Q | 28.3 - 44.2 | 56.6 - 88.3 | mg/kg | SL-156-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Selenium | 7782-49-2 | 39 / 165 | 0.205 J Z | 0.724 | 0.189 - 0.294 | 0.377 - 0.589 | mg/kg | SL-167-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Silver | 7440-22-4 | 42 / 165 | 0.0549 J Z | 2.28 | 0.0472 - 0.0736 | 0.0943 - 0.147 | mg/kg | SL-044-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Sodium | 7440-23-5 | 84 / 165 | 49.2 J Z | 149 | 47.2 - 73.6 | 94.3 - 147 | mg/kg | SL-024-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Strontium | 7440-24-6 | 165 / 165 | 6.3 | 283 | 0.236 - 0.368 | 0.472 - 0.736 | mg/kg | SL-054-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Thallium | 7440-28-0 | 165 / 165 | 0.116 | 0.459 | 0.0472 - 0.0736 | 0.0943 - 0.147 | mg/kg | SL-151-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Tin | 7440-31-5 | 2 / 165 | 6.86 J Z | 7.37 J Z | 4.72 - 7.36 | 9.43 - 14.7 | mg/kg | SL-060-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Titanium | 7440-32-6 | 165 / 165 | 542 | 1460 | 0.472 - 0.736 | 0.943 - 1.47 | mg/kg | SL-012-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Vanadium | 7440-62-2 | 165 / 165 | 16.8 | 51.6 | 0.0472 - 0.0736 | 0.0943 - 0.147 | mg/kg | SL-148-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Zinc | 7440-66-6 | 165 / 165 | 43.4 | 1060 | 1.41 - 2.21 | 2.83 - 4.42 | mg/kg | SL-044-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Zirconium | 7440-67-7 | 3 / 165 | 2.89 J Q, Z | 4 J Q, Z | 2.36 - 3.68 | 4.72 - 7.36 | mg/kg | SL-176-NBZ | EMAX | 6020 | 0 - 0.5 |
| Moisture Content | Moisture | MOIST | 166 / 166 | 1.2 | 32.8 | 0.5 - 0.5 | 0.5 - 0.5 | % | SL-013-NBZ | LL | 160.3M | 0 - 0.5 |
| NDMA | N-Nitrosodimethylamine | 62-75-9 | 2 / 65 | 79.4 | 471 | 16.9 - 248 | 33.8 - 496 | ng/kg | SL-088-NBZ | LL | 1625C | 0 - 0.5 |
| Nitrates | Nitrate | 14797-55-8 | 59 / 61 | 0.812 J Z | 71.8 | 0.75 - 4.46 | 1.5 - 8.93 | mg/kg | SL-081-NBZ | EMAX | 300 | 0 - 0.5 |
| Nitrates | Nitrite-NO2 | 14797-65-0 | 3 / 10 | 0.977 J Z | 1.48 J Z | 0.765 - 0.785 | 1.53 - 1.57 | mg/kg | SL-030-NBZ | EMAX | 300 | 0 - 0.5 |
| PAHs | 1-Methylnaphthalene | 90-12-0 | 11 / 165 | 0.98 J FD, Z | 2.3 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-101-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | 2-Methylnaphthalene | 91-57-6 | 11 / 165 | 1 J Z | 2.8 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-101-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Acenaphthene | 83-32-9 | 7 / 165 | 0.98 J Z | 2.9 J Z | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-042-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Acenaphthylene | 208-96-8 | 13 / 165 | 0.98 J Z | 2.4 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-029-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Anthracene | 120-12-7 | 9 / 165 | 1.2 J Z | 8.9 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-044-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Benzo(a)anthracene | 56-55-3 | 54 / 165 | 0.95 J Z | 68 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-044-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Benzo(a)pyrene | 50-32-8 | 46 / 165 | 1 J Z | 78 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-044-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Benzo(b)fluoranthene | 205-99-2 | 79 / 165 | 1 J Z | 120 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-044-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Benzo(g,h,i)perylene | 191-24-2 | 81 / 165 | 0.9 J Z | 99 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-044-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Benzo(k)fluoranthene | 207-08-9 | 24 / 165 | 1 J Z | 26 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-044-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Bis(2-ethylhexyl)phthalate | 117-81-7 | 145 / 165 | 10 J Z | 340 | 8.5 - 44 | 17 - 87 | µg/kg | SL-044-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Butylbenzylphthalate | 85-68-7 | 54 / 165 | 9.1 J Z | 110 | 8.5 - 44 | 17 - 87 | µg/kg | SL-148-NBZ<br>SL-121-NBZ | EMAX<br>EMAX | 8270C SIM<br>8270C SIM | 0 - 0.5<br>0 - 0.5 |
| PAHs | Chrysene | 218-01-9 | 62 / 165 | 0.96 J Z | 82 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-044-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Dibenzo(a,h)anthracene | 53-70-3 | 12 / 165 | 0.98 J Z | 19 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-044-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Diethylphthalate | 84-66-2 | 0 / 165 | - | - | 8.5 - 44 | 17 - 87 | µg/kg | | | | - |
| PAHs | Dimethylphthalate | 131-11-3 | 0 / 165 | - | - | 8.5 - 44 | 17 - 87 | µg/kg | | | | - |
| PAHs | Di-n-butylphthalate | 84-74-2 | 4 / 165 | 11 J Z | 66 | 8.5 - 44 | 17 - 87 | µg/kg | SL-040-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Di-n-octylphthalate | 117-84-0 | 2 / 165 | 17 J Z | 62 | 8.5 - 44 | 17 - 87 | µg/kg | SL-030-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Fluoranthene | 206-44-0 | 96 / 165 | 0.93 J Z | 120 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-044-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Fluorene | 86-73-7 | 13 / 165 | 0.99 J Z | 8.1 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-081-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Indeno(1,2,3-cd)pyrene | 193-39-5 | 39 / 165 | 1.1 J Z | 48 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-044-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Naphthalene | 91-20-3 | 18 / 165 | 0.93 J Z | 31 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-201-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | N-Nitrosodimethylamine | 62-75-9 | 2 / 165 | 2.5 | 4.4 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-144-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Phenanthrene | 85-01-8 | 55 / 165 | 0.93 J Z | 50 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-044-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Pyrene | 129-00-0 | 101 / 165 | 0.96 J Z | 100 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-044-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PCBPCTs | Aroclor 1016 | 12674-11-2 | 0 / 165 | - | - | 0.86 - 92 | 4.25 - 450 | µg/kg | | | | - |
| PCBPCTs | Aroclor 1221 | 11104-28-2 | 0 / 165 | - | - | 0.86 - 92 | 4.25 - 450 | µg/kg | | | | - |
| PCBPCTs | Aroclor 1232 | 11141-16-5 | 0 / 165 | - | - | 0.86 - 92 | 4.25 - 450 | µg/kg | | | | - |
| PCBPCTs | Aroclor 1242 | 53469-21-9 | 0 / 165 | - | - | 0.86 - 92 | 4.25 - 450 | µg/kg | | | | - |
| PCBPCTs | Aroclor 1248 | 12672-29-6 | 4 / 165 | 54 | 4200 J FD, *# | 0.86 - 92 | 4.25 - 450 | µg/kg | SL-057-NBZ | EMAX | 8082 | 0 - 0.5 |
| PCBPCTs | Aroclor 1254 | 11097-69-1 | 26 / 165 | 2 | 1800 | 0.86 - 92 | 4.25 - 450 | µg/kg | SL-044-NBZ | EMAX | 8082 | 0 - 0.5 |

| Group | Chemical | CAS No | Detection Frequency | Minimum Concentration | Maximum Concentration | Range of Method Detection Limit | Range of Method Reporting Limit | Unit | Location of Maximum Concentration | Lab of Maximum Concentration | Method of Maximum Concentration | Depth of Maximum Concentration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCBPCTs | Aroclor 1260 | 11096-82-5 | 20 / 165 | 1.4 J Z | 1500 J FD, C | 0.86 - 92 | 4.25 - 450 | µg/kg | SL-057-NBZ | EMAX | 8082 | 0 - 0.5 |
| PCBPCTs | Aroclor 1262 | 37324-23-5 | 0 / 165 | - | - | 0.86 - 92 | 4.25 - 450 | µg/kg | | | | - |
| PCBPCTs | Aroclor 1268 | 11100-14-4 | 0 / 165 | - | - | 0.86 - 92 | 4.25 - 450 | µg/kg | | | | - |
| PCBPCTs | Aroclor 5432 | 63496-31-1 | 0 / 165 | - | - | 1.7 - 180 | 8.5 - 900 | µg/kg | | | | - |
| PCBPCTs | Aroclor 5442 | 12642-23-8 | 0 / 165 | - | - | 1.7 - 180 | 8.5 - 900 | µg/kg | | | | - |
| PCBPCTs | Aroclor 5460 | 11126-42-4 | 43 / 165 | 2.1 J Z | 1300 | 1.7 - 45 | 8.5 - 217.5 | µg/kg | SL-044-NBZ | EMAX | 8082 | 0 - 0.5 |
| Perchlorate | Perchlorate (314) | 14797-73-0 | 1 / 165 | 32.1 | 32.1 | 10.2 - 59.5 | 20.3 - 119 | µg/kg | SL-044-NBZ | EMAX | 314 | 0 - 0.5 |
| Perchlorate | Perchlorate (6850) | 14797-73-0 | 1 / 34 | - | - | 2.54 - 3.15 | 5.08 - 6.31 | µg/kg | | | | |
| Pesticides | 4,4'-DDD | 72-54-8 | 14 / 165 | 0.2 J Z | 0.93 | 0.17 - 21 | 0.875 - 102.5 | µg/kg | SL-157-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | 4,4'-DDE | 72-55-9 | 107 / 165 | 0.22 J Z | 440 | 0.17 - 21 | 0.875 - 102.5 | µg/kg | SL-060-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | 4,4'-DDT | 50-29-3 | 113 / 165 | 0.21 J Z | 40 | 0.17 - 21 | 0.875 - 102.5 | µg/kg | SL-201-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Aldrin | 309-00-2 | 0 / 165 | - | - | 0.086 - 10 | 0.425 - 52.5 | µg/kg | | | | - |
| Pesticides | Alpha-Bhc | 319-84-6 | 3 / 165 | 0.16 J Z | 1.3 | 0.086 - 10 | 0.425 - 52.5 | µg/kg | SL-046-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Beta-Bhc | 319-85-7 | 1 / 165 | 14 | 14 | 0.086 - 760 | 0.425 - 1900 | µg/kg | SL-095-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Chlordane (Technical) | 12789-03-6 | 0 / 165 | - | - | 1.7 - 210 | 8.75 - 1025 | µg/kg | | | | - |
| Pesticides | Delta-Bhc | 319-86-8 | 1 / 165 | 0.19 | 0.19 | 0.086 - 10 | 0.425 - 52.5 | µg/kg | SL-056-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Dieldrin | 60-57-1 | 9 / 165 | 0.38 | 91 | 0.17 - 21 | 0.875 - 102.5 | µg/kg | SL-044-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Endosulfan I | 959-98-8 | 5 / 165 | 0.16 J Z | 3 | 0.086 - 10 | 0.425 - 52.5 | µg/kg | SL-046-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Endosulfan II | 33213-65-9 | 4 / 165 | 0.28 J Z | 3.3 | 0.17 - 21 | 0.875 - 102.5 | µg/kg | SL-151-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Endosulfan Sulfate | 1031-07-8 | 6 / 165 | 0.28 J Z | 10 J *# | 0.17 - 21 | 0.875 - 102.5 | µg/kg | SL-048-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Endrin | 72-20-8 | 1 / 165 | 0.25 J Z, *# | 0.25 J Z, *# | 0.17 - 21 | 0.875 - 102.5 | µg/kg | SL-057-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Endrin Aldehyde | 7421-93-4 | 3 / 165 | 0.52 | 5.5 J FD | 0.17 - 21 | 0.875 - 102.5 | µg/kg | SL-057-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Endrin Ketone | 53494-70-5 | 1 / 165 | 2.4 | 2.4 | 0.17 - 21 | 0.875 - 102.5 | µg/kg | SL-022-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Gamma-Bhc (Lindane) | 58-89-9 | 0 / 165 | - | - | 0.086 - 10 | 0.425 - 52.5 | µg/kg | | | | - |
| Pesticides | Heptachlor | 76-44-8 | 8 / 165 | 0.1 J Z | 1.7 | 0.086 - 10 | 0.425 - 52.5 | µg/kg | SL-129-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Heptachlor Epoxide | 1024-57-3 | 8 / 165 | 0.11 J Z | 2.7 | 0.086 - 10 | 0.425 - 52.5 | µg/kg | SL-029-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Methoxychlor | 72-43-5 | 8 / 165 | 0.96 J Z | 14 | 0.86 - 100 | 4.25 - 525 | µg/kg | SL-136-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Mirex | 2385-85-5 | 6 / 165 | 0.26 J Z | 4.2 | 0.17 - 21 | 0.875 - 102.5 | µg/kg | SL-023-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Technical Toxaphene | 8001-35-2 | 0 / 165 | - | - | 3.4 - 400 | 16.75 - 2000 | µg/kg | | | | - |
| pH | pH | pH | 165 / 165 | 5.1 | 8.22 | 0.1 - 0.1 | 0.1 - 0.1 | pH | SL-016-NBZ<br>SL-001-NBZ | EMAX<br>EMAX | 9045D<br>9045D | 0 - 0.5<br>0 - 0.5 |
| SVOC | 1,2,4-Trichlorobenzene | 120-82-1 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 1,2-Dichlorobenzene | 95-50-1 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 1,2-Diphenylhydrazine | 122-66-7 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 1,3-Dichlorobenzene | 541-73-1 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 1,4-Dichlorobenzene | 106-46-7 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2,4,5-Trichlorophenol | 95-95-4 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2,4,6-Trichlorophenol | 88-06-2 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2,4-Dichlorophenol | 120-83-2 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2,4-Dimethylphenol | 105-67-9 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2,4-Dinitrophenol | 51-28-5 | 0 / 165 | - | - | 170 - 870 | 340 - 1700 | µg/kg | | | | - |
| SVOC | 2,4-Dinitrotoluene | 121-14-2 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2,6-Dinitrotoluene | 606-20-2 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2-butoxyethanol | 111-76-2 | 0 / 165 | - | - | 170 - 870 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2-Chloronaphthalene | 91-58-7 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2-Chlorophenol | 95-57-8 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2-Methylphenol | 95-48-7 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2-Nitroaniline | 88-74-4 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2-Nitrophenol | 88-75-5 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2-phenoxyethanol | 122-99-6 | 0 / 165 | - | - | 170 - 870 | 170 - 870 | µg/kg | | | | - |
| SVOC | 3,3'-Dichlorobenzidine | 91-94-1 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 3,5-Dimethylphenol | 108-68-9 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 3-Nitroaniline | 99-09-2 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 4,6-Dinitro-2-methylphenol | 534-52-1 | 0 / 165 | - | - | 170 - 870 | 340 - 1700 | µg/kg | | | | - |
| SVOC | 4-Bromophenyl-phenylether | 101-55-3 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 4-Chloro-3-methylphenol | 59-50-7 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 4-Chloroaniline | 106-47-8 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 4-Chlorophenyl-phenylether | 7005-72-3 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 4-Methylphenol | 106-44-5 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 4-Nitroaniline | 100-01-6 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 4-Nitrophenol | 100-02-7 | 0 / 165 | - | - | 170 - 870 | 340 - 1700 | µg/kg | | | | - |
| SVOC | Aniline | 62-53-3 | 0 / 165 | - | - | 170 - 870 | 340 - 1700 | µg/kg | | | | - |

Table 3-1
Summary of Analytical Results for Chemicals - Validated Data
Surface Soils - NBZ - Phases 1 and 2

| Group | Chemical | CAS No | Detection Frequency | Minimum Concentration | Maximum Concentration | Range of Method Detection Limit | Range of Method Reporting Limit | Unit | Location of Maximum Concentration | Lab of Maximum Concentration | Method of Maximum Concentration | Depth of Maximum Concentration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SVOC | Benzidine | 92-87-5 | 0 / 165 | - | - | 430 - 2200 | 840 - 4300 | µg/kg | | | | - |
| SVOC | Benzoic Acid | 65-85-0 | 0 / 165 | - | - | 340 - 1700 | 680 - 3500 | µg/kg | | | | - |
| SVOC | Benzyl Alcohol | 100-51-6 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | bis(2-chloroethoxy)methane | 111-91-1 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | bis(2-chloroethyl) ether | 111-44-4 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | bis(2-chloroisopropyl) ether | 39638-32-9 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | Carbazole | 86-74-8 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | Dibenzofuran | 132-64-9 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | Hexachlorobenzene | 118-74-1 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | Hexachlorobutadiene | 87-68-3 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | Hexachlorocyclopentadiene | 77-47-4 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | Hexachloroethane | 67-72-1 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | Isophorone | 78-59-1 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | Nitrobenzene | 98-95-3 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | N-Nitroso-di-n-propylamine | 621-64-7 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | N-Nitrosodiphenylamine | 86-30-6 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | Pentachlorophenol | 87-86-5 | 0 / 165 | - | - | 170 - 870 | 340 - 1700 | µg/kg | | | | - |
| SVOC | Phenol | 108-95-2 | 0 / 165 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | Tetralin | 119-64-2 | 0 / 165 | - | - | 170 - 870 | 170 - 870 | µg/kg | | | | - |
| Terphenyls | m-Terphenyl | 92-06-8 | 0 / 65 | - | - | 1.5 - 8.9 | 3.5 - 21 | mg/kg | | | | - |
| Terphenyls | o-Terphenyl | 84-15-1 | 0 / 65 | - | - | 1.5 - 8.9 | 3.5 - 21 | mg/kg | | | | - |
| Terphenyls | p-Terphenyl | 92-94-4 | 1 / 65 | 4.7 J L | 4.7 J L | 1.5 - 8.9 | 3.5 - 21 | mg/kg | SL-057-NBZ | LL | 8015B | 0 - 0.5 |
| TPH-EFH | EFH (C12-C14) | PHCC12C14 | 14 / 61 | 0.63 J Z | 2.5 | 0.51 - 12 | 1 - 23 | mg/kg | SL-076-NBZ | EMAX | 8015B EFH | 0 - 0.5 |
| TPH-EFH | EFH (C15-C20) | PHCC15C20 | 51 / 61 | 0.56 J Z | 51 | 0.51 - 12 | 1 - 23 | mg/kg | SL-044-NBZ | EMAX | 8015B EFH | 0 - 0.5 |
| TPH-EFH | EFH (C21-C30) | PHCC21C30 | 61 / 61 | 2 | 300 | 0.51 - 12 | 1 - 23 | mg/kg | SL-044-NBZ | EMAX | 8015B EFH | 0 - 0.5 |
| TPH-EFH | EFH (C30-C40) | PHCC30C40 | 61 / 61 | 3.8 | 220 | 0.51 - 12 | 1 - 23 | mg/kg | SL-044-NBZ | EMAX | 8015B EFH | 0 - 0.5 |
| TPH-EFH | EFH (C8-C11) | PHCC8C11 | 45 / 61 | 0.52 J Z | 3.8 | 0.51 - 12 | 1 - 23 | mg/kg | SL-017-NBZ<br>SL-018-NBZ | EMAX<br>EMAX | 8015B EFH<br>8015B EFH | 0 - 0.5<br>0 - 0.5 |
| TPH-EFH | Total EFH (C8-C40) | PHCC8C40 | 61 / 61 | 7 | 570 | 0.51 - 12 | 1 - 23 | mg/kg | SL-044-NBZ | EMAX | 8015B EFH | 0 - 0.5 |
| TPH-GRO | Gasoline Range Organics (C5-C12) | GROC5C12 | 0 / 1 | - | - | 0.63 - 0.63 | 1.3 - 1.3 | mg/kg | | | | - |
| VOC | 1,1,1,2-Tetrachloroethane | 630-20-6 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | 1,1,1-Trichloroethane | 71-55-6 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | 1,1,2,2-Tetrachloroethane | 79-34-5 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | 0 / 1 | - | - | 2.4 - 2.4 | 6 - 6 | µg/kg | | | | - |
| VOC | 1,1,2-Trichloroethane | 79-00-5 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | 1,1-Dichloroethane | 75-34-3 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | 1,1-Dichloroethene | 75-35-4 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | 1,1-Dichloropropene | 563-58-6 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | 1,2,3-Trichlorobenzene | 87-61-6 | 0 / 1 | - | - | 2.4 - 2.4 | 6 - 6 | µg/kg | | | | - |
| VOC | 1,2,3-Trichloropropane | 96-18-4 | 0 / 1 | - | - | 2.4 - 2.4 | 6 - 6 | µg/kg | | | | - |
| VOC | 1,2,4-Trichlorobenzene | 120-82-1 | 0 / 1 | - | - | 2.4 - 2.4 | 6 - 6 | µg/kg | | | | - |
| VOC | 1,2,4-Trimethylbenzene | 95-63-6 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | 1,2-Dibromo-3-chloropropane | 96-12-8 | 0 / 1 | - | - | 2.4 - 2.4 | 6 - 6 | µg/kg | | | | - |
| VOC | 1,2-Dibromoethane | 106-93-4 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | 1,2-Dichlorobenzene | 95-50-1 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | 1,2-Dichloroethane | 107-06-2 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | 1,2-Dichloropropane | 78-87-5 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | 1,3,5-Trimethylbenzene | 108-67-8 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | 1,3-Dichlorobenzene | 541-73-1 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | 1,3-Dichloropropane | 142-28-9 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | 1,4-Dichlorobenzene | 106-46-7 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | 2,2-Dichloropropane | 594-20-7 | 0 / 1 | - | - | 2.4 - 2.4 | 6 - 6 | µg/kg | | | | - |
| VOC | 2-Butanone (MEK) | 78-93-3 | 0 / 1 | - | - | 6 - 6 | 12 - 12 | µg/kg | | | | - |
| VOC | 2-Chloro-1,1,1-trifluoroethane | 75-88-7 | 0 / 1 | - | - | 2.4 - 2.4 | 6 - 6 | µg/kg | | | | - |
| VOC | 2-Chloroethyl Vinyl Ether | 110-75-8 | 0 / 1 | - | - | 2.4 - 2.4 | 6 - 6 | µg/kg | | | | - |
| VOC | 2-Chlorotoluene | 95-49-8 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | 2-Hexanone | 591-78-6 | 0 / 1 | - | - | 6 - 6 | 12 - 12 | µg/kg | | | | - |
| VOC | 2-Phenylbutane | 135-98-8 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | 4-Chlorotoluene | 106-43-4 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | 0 / 1 | - | - | 6 - 6 | 12 - 12 | µg/kg | | | | - |
| VOC | Acetone | 67-64-1 | 0 / 1 | - | - | 6 - 6 | 12 - 12 | µg/kg | | | | - |
| VOC | Benzene | 71-43-2 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |

| Group | Chemical | CAS No | Detection Frequency | Minimum Concentration | Maximum Concentration | Range of Method Detection Limit | Range of Method Reporting Limit | Unit | Location of Maximum Concentration | Lab of Maximum Concentration | Method of Maximum Concentration | Depth of Maximum Concentration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VOC | Bromobenzene | 108-86-1 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | Bromochloromethane | 74-97-5 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | Bromodichloromethane | 75-27-4 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | Bromoform | 75-25-2 | 0 / 1 | - | - | 2.4 - 2.4 | 6 - 6 | µg/kg | | | | - |
| VOC | Bromomethane | 74-83-9 | 0 / 1 | - | - | 2.4 - 2.4 | 6 - 6 | µg/kg | | | | - |
| VOC | Carbon Tetrachloride | 56-23-5 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | Chlorobenzene | 108-90-7 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | Chloroethane | 75-00-3 | 0 / 1 | - | - | 2.4 - 2.4 | 6 - 6 | µg/kg | | | | - |
| VOC | Chloroform | 67-66-3 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | Chloromethane | 74-87-3 | 0 / 1 | - | - | 2.4 - 2.4 | 6 - 6 | µg/kg | | | | - |
| VOC | Chlorotrifluoroethylene | 79-38-9 | 0 / 1 | - | - | 2.4 - 2.4 | 6 - 6 | µg/kg | | | | - |
| VOC | cis-1,2-Dichloroethene | 156-59-2 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | cis-1,3-Dichloropropene | 10061-01-5 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | Cymene | 99-87-6 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | Dibromochloromethane | 124-48-1 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | Dibromomethane | 74-95-3 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | Dichlorodifluoromethane | 75-71-8 | 0 / 1 | - | - | 2.4 - 2.4 | 6 - 6 | µg/kg | | | | - |
| VOC | Ethylbenzene | 100-41-4 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | Hexachloro-1,3-butadiene | 87-68-3 | 0 / 1 | - | - | 2.4 - 2.4 | 6 - 6 | µg/kg | | | | - |
| VOC | Isopropylbenzene | 98-82-8 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | m,p-Xylene | 179601-23-1 | 0 / 1 | - | - | 2.4 - 2.4 | 6 - 6 | µg/kg | | | | - |
| VOC | Methyl Tert-Butyl Ether | 1634-04-4 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | Methylene Chloride | 75-09-2 | 0 / 1 | - | - | 2.4 - 2.4 | 6 - 6 | µg/kg | | | | - |
| VOC | n-Butylbenzene | 104-51-8 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | n-Propylbenzene | 103-65-1 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | o-Xylene | 95-47-6 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | Styrene | 100-42-5 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | tert-Butylbenzene | 98-06-6 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | Tetrachloroethene | 127-18-4 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | Toluene | 108-88-3 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | trans-1,2-Dichloroethene | 156-60-5 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | trans-1,3-Dichloropropene | 10061-02-6 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | Trichloroethene | 79-01-6 | 0 / 1 | - | - | 1.2 - 1.2 | 6 - 6 | µg/kg | | | | - |
| VOC | Trichlorofluoromethane | 75-69-4 | 0 / 1 | - | - | 2.4 - 2.4 | 6 - 6 | µg/kg | | | | - |
| VOC | Vinyl Chloride | 75-01-4 | 0 / 1 | - | - | 2.4 - 2.4 | 6 - 6 | µg/kg | | | | - |

**Notes**
ug/kg- microgram per kilogram
mg/kg - milligram per kilogram
ng/kg - nanogram per kilogram
J - Result is an estimated value
H - Holding times exceeded
S - Surrogates outside of criteria
C - Calibration recoveries outside of criteria
R - Calibration relative response factors outside of criteria
B - Method blank contamination
L - Laboratory control sample recoveries outside of criteria
Q - Matrix spike recoveries outside of criteria
E - Laboratory control sample and or matrix spike relative percent differences outside of criteria
I - Internal standards outside of criteria
A - Serial dilution results outside of criteria
F - Field blank contamination
Z - Analytes reported below the reporting limits and above the method detection limit
FD - Field duplicate relative percent difference outside of criteria
*# - Unusual problems found with the quality control data. See validation reports in Appendix C for detail.

| Group | Chemical | CAS No | Detection Frequency | Minimum Concentration | Maximum Concentration | Range of Method Detection Limit | Range of Method Reporting Limit | Unit | Location of Maximum Concentration | Lab of Maximum Concentration | Method of Maximum Concentration | Depth of Maximum Concentration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 1,4-Dioxane | 123-91-1 | 0 / 3 | - | - | 4.7 - 5.8 | 9.4 - 12 | µg/kg | | | | - |
| Alcohols | 2-Propanol | 67-63-0 | 0 / 46 | - | - | 260 - 330 | 520 - 650 | µg/kg | | | | - |
| Alcohols | Ethanol | 64-17-5 | 0 / 46 | - | - | 260 - 330 | 520 - 650 | µg/kg | | | | - |
| Alcohols | Methanol | 67-56-1 | 0 / 46 | - | - | 260 - 330 | 520 - 650 | µg/kg | | | | - |
| Cyanide | Cyanide | 57-12-5 | 1 / 49 | 0.513 J Z | 0.513 J Z | 0.25 - 0.327 | 0.5 - 0.654 | mg/kg | SL-002-NBZ | EMAX | 9014 | 7.5 - 8.5 |
| Dioxins | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | 35822-46-9 | 6 / 49 | 2.84 J Z | 13 | 0.0147 - 0.0625 | 4.97 - 6.32 | ng/kg | SL-039-NBZ | LL | 1613B | 2 - 3 |
| Dioxins | 1,2,3,4,6,7,8-HPCDF | 67562-39-4 | 6 / 49 | 0.534 J Z | 5.62 | 0.00529 - 0.0308 | 4.97 - 6.32 | ng/kg | SL-039-NBZ | LL | 1613B | 2 - 3 |
| Dioxins | 1,2,3,4,7,8,9-HPCDF | 55673-89-7 | 3 / 49 | 0.432 J Z | 0.625 J Z | 0.0106 - 0.0556 | 4.97 - 6.32 | ng/kg | SL-039-NBZ | LL | 1613B | 2 - 3 |
| Dioxins | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | 39227-28-6 | 4 / 49 | 0.21 J Z | 0.243 J Z | 0.0118 - 0.0693 | 4.97 - 6.32 | ng/kg | SL-039-NBZ | LL | 1613B | 2 - 3 |
| Dioxins | 1,2,3,4,7,8-HXCDF | 70648-26-9 | 11 / 49 | 0.111 J Z | 1.49 J Z | 0.00947 - 0.0348 | 4.97 - 6.32 | ng/kg | SL-062-NBZ | LL | 1613B | 2.5 - 3.5 |
| Dioxins | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | 57653-85-7 | 4 / 49 | 0.288 J Z | 0.97 J Z | 0.0122 - 0.0759 | 4.97 - 6.32 | ng/kg | SL-039-NBZ | LL | 1613B | 2 - 3 |
| Dioxins | 1,2,3,6,7,8-HXCDF | 57117-44-9 | 6 / 49 | 0.0579 J Z | 0.732 J Z | 0.00755 - 0.0316 | 4.97 - 6.32 | ng/kg | SL-039-NBZ | LL | 1613B | 2 - 3 |
| Dioxins | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | 19408-74-3 | 8 / 49 | 0.155 J Z | 1.19 J Z | 0.0117 - 0.073 | 4.97 - 6.32 | ng/kg | SL-039-NBZ | LL | 1613B | 2 - 3 |
| Dioxins | 1,2,3,7,8,9-HXCDF | 72918-21-9 | 8 / 49 | 0.031 J Z | 0.33 J Z | 0.0104 - 0.042 | 4.97 - 6.32 | ng/kg | SL-039-NBZ | LL | 1613B | 2 - 3 |
| Dioxins | 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | 13 / 49 | 0.0473 J Z | 2.49 J Z | 0.00941 - 0.051 | 4.97 - 6.32 | ng/kg | SL-062-NBZ | LL | 1613B | 2.5 - 3.5 |
| Dioxins | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | 40321-76-4 | 18 / 49 | 0.0308 J Z | 0.348 J Z | 0.0152 - 0.0528 | 4.97 - 6.32 | ng/kg | SL-072-NBZ | LL | 1613B | 4 - 5 |
| Dioxins | 2,3,4,6,7,8-HXCDF | 60851-34-5 | 3 / 49 | 0.229 J Z | 0.477 J Z | 0.00821 - 0.0351 | 4.97 - 6.32 | ng/kg | SL-039-NBZ | LL | 1613B | 2 - 3 |
| Dioxins | 2,3,4,7,8-PECDF | 57117-31-4 | 4 / 49 | 0.445 J Z | 1.87 J Z | 0.0101 - 0.0475 | 4.97 - 6.32 | ng/kg | SL-062-NBZ | LL | 1613B | 2.5 - 3.5 |
| Dioxins | 2,3,7,8-TCDD | 1746-01-6 | 4 / 49 | 0.0293 J Z | 0.118 J Z | 0.0131 - 0.0726 | 0.994 - 1.26 | ng/kg | SL-035-NBZ | LL | 1613B | 2 - 3 |
| Dioxins | 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | 16 / 49 | 0.0148 J Z | 0.687 J Z | 0.0145 - 0.13 | 0.994 - 1.26 | ng/kg | SL-039-NBZ | LL | 1613B | 2 - 3 |
| Dioxins | OCDD | 3268-87-9 | 15 / 49 | 2.43 J Z | 128 | 0.00997 - 0.0371 | 9.94 - 12.6 | ng/kg | SL-020-NBZ | LL | 1613B | 2.5 - 3.5 |
| Dioxins | OCDF | 39001-02-0 | 8 / 49 | 0.823 J Z | 12 | 0.0177 - 0.0499 | 9.94 - 12.6 | ng/kg | SL-039-NBZ | LL | 1613B | 2 - 3 |
| Energetics | 1,3,5-Trinitrobenzene | 99-35-4 | 0 / 49 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 2,4,6-Trinitrotoluene | 118-96-7 | 0 / 49 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 2,4-Diamino-6-nitrotoluene | 6629-29-4 | 0 / 49 | - | - | 99 - 100 | 200 - 200 | µg/kg | | | | - |
| Energetics | 2,4-Dinitrotoluene | 121-14-2 | 0 / 49 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 2,6-Diamino-4-nitrotoluene | 59229-75-3 | 0 / 49 | - | - | 99 - 100 | 200 - 200 | µg/kg | | | | - |
| Energetics | 2,6-Dinitrotoluene | 606-20-2 | 0 / 49 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 2-Amino-4,6-Dinitrotoluene | 35572-78-2 | 0 / 49 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 2-Nitrotoluene | 88-72-2 | 0 / 49 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 3-Nitrotoluene | 99-08-1 | 0 / 49 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 4-Amino-2,6-Dinitrotoluene | 19406-51-0 | 0 / 49 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 4-Nitrotoluene | 99-99-0 | 0 / 49 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | HMX | 2691-41-0 | 0 / 49 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | M-Dinitrobenzene | 99-65-0 | 0 / 49 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | Nitrobenzene | 98-95-3 | 0 / 49 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | Nitroglycerin | 55-63-0 | 0 / 49 | - | - | 490 - 500 | 990 - 1000 | µg/kg | | | | - |
| Energetics | PETN | 78-11-5 | 0 / 49 | - | - | 490 - 500 | 990 - 1000 | µg/kg | | | | - |
| Energetics | RDX | 121-82-4 | 0 / 49 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | Tetryl | 479-45-8 | 0 / 49 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Fluoride | Fluoride | 16984-48-8 | 42 / 49 | 0.572 J Z | 10.1 | 0.5 - 0.654 | 1 - 1.31 | mg/kg | SL-037-NBZ | EMAX | 300 | 3 - 4 |
| Formaldehyde | Formaldehyde | 50-00-0 | 0 / 48 | - | - | 610 - 1300 | 1500 - 3400 | µg/kg | | | | - |
| Glycols | Diethylene Glycol | 111-46-6 | 0 / 46 | - | - | 7.7 - 9.8 | 15 - 20 | mg/kg | | | | - |
| Glycols | Ethylene Glycol | 107-21-1 | 0 / 46 | - | - | 5.2 - 6.5 | 10 - 13 | mg/kg | | | | - |
| Glycols | Propylene Glycol | 57-55-6 | 0 / 46 | - | - | 5.2 - 6.5 | 10 - 13 | mg/kg | | | | - |
| Herbicides | 2,2-Dichlor-Propionic Acid | 75-99-0 | 0 / 2 | - | - | 5.1 - 5.1 | 20 - 20 | µg/kg | | | | - |
| Herbicides | 2,4,5-T | 93-76-5 | 0 / 2 | - | - | 0.096 - 0.097 | 0.38 - 0.38 | µg/kg | | | | - |
| Herbicides | 2,4-D | 94-75-7 | 0 / 2 | - | - | 2 - 2 | 8.2 - 8.2 | µg/kg | | | | - |
| Herbicides | 2,4-DB | 94-82-6 | 0 / 2 | - | - | 0.96 - 0.97 | 3.8 - 3.8 | µg/kg | | | | - |
| Herbicides | Dicamba | 1918-00-9 | 0 / 2 | - | - | 0.68 - 0.68 | 2.8 - 2.8 | µg/kg | | | | - |
| Herbicides | Dichlorprop | 120-36-5 | 0 / 2 | - | - | 1.4 - 1.4 | 5.4 - 5.4 | µg/kg | | | | - |
| Herbicides | Dinitrobutyl Phenol | 88-85-7 | 0 / 2 | - | - | 0.96 - 0.97 | 3.8 - 3.8 | µg/kg | | | | - |
| Herbicides | MCPA | 94-74-6 | 0 / 2 | - | - | 140 - 140 | 560 - 560 | µg/kg | | | | - |
| Herbicides | MCPP | 93-65-2 | 0 / 2 | - | - | 140 - 140 | 560 - 560 | µg/kg | | | | - |
| Herbicides | Silvex (2,4,5-TP) | 93-72-1 | 0 / 2 | - | - | 0.096 - 0.097 | 0.38 - 0.38 | µg/kg | | | | - |
| Hexavalent Chromium | Chromium (Hexavalent Compounds) | 18540-29-9 | 0 / 49 | - | - | 0.515 - 0.654 | 1.03 - 1.31 | mg/kg | | | | - |
| Mercury | Mercury | 7439-97-6 | 0 / 49 | - | - | 0.051 - 0.0647 | 0.102 - 0.129 | mg/kg | | | | - |
| Metals | Aluminum | 7429-90-5 | 49 / 49 | 8170 | 25300 | 11.5 - 15.3 | 23.1 - 30.7 | mg/kg | SL-091-NBZ | EMAX | 6020 | 4 - 5 |
| Metals | Antimony | 7440-36-0 | 42 / 49 | 0.113 J Q, Z | 0.319 | 0.0962 - 0.128 | 0.192 - 0.255 | mg/kg | SL-077-NBZ | EMAX | 6020 | 2.5 - 3.5 |
| Metals | Arsenic | 7440-38-2 | 49 / 49 | 1.71 | 27 | 0.192 - 0.255 | 0.385 - 0.511 | mg/kg | SL-010-NBZ | EMAX | 6020 | 4 - 5 |
| Metals | Barium | 7440-39-3 | 49 / 49 | 38.1 | 161 | 0.192 - 0.255 | 0.385 - 0.511 | mg/kg | SL-077-NBZ | EMAX | 6020 | 2.5 - 3.5 |

Table 3-2
Summary of Analytical Results for Chemicals - Validated Data
Subsurface - NBZ - Phases 1 and 2

| Group | Chemical | CAS No | Detection Frequency | Minimum Concentration | Maximum Concentration | Range of Method Detection Limit | Range of Method Reporting Limit | Unit | Location of Maximum Concentration | Lab of Maximum Concentration | Method of Maximum Concentration | Depth of Maximum Concentration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metals | Beryllium | 7440-41-7 | 49 / 49 | 0.316 | 0.942 | 0.0481 - 0.0639 | 0.0962 - 0.128 | mg/kg | SL-077-NBZ | EMAX | 6020 | 2.5 - 3.5 |
| Metals | Boron | 7440-42-8 | 4 / 49 | 2.71 J FD, Z | 5.1 J Z | 2.4 - 3.19 | 4.81 - 6.39 | mg/kg | SL-039-NBZ | EMAX | 6020 | 2 - 3 |
| Metals | Cadmium | 7440-43-9 | 47 / 49 | 0.0633 J Z | 0.288 | 0.0481 - 0.0639 | 0.0962 - 0.128 | mg/kg | SL-003-NBZ | EMAX | 6020 | 4 - 5 |
| Metals | Calcium | 7440-70-2 | 49 / 49 | 755 | 13900 | 9.62 - 12.8 | 19.2 - 25.5 | mg/kg | SL-003-NBZ | EMAX | 6020 | 4 - 5 |
| Metals | Chromium | 7440-47-3 | 49 / 49 | 7.19 | 29.5 | 0.192 - 0.255 | 0.385 - 0.511 | mg/kg | SL-077-NBZ | EMAX | 6020 | 2.5 - 3.5 |
| Metals | Cobalt | 7440-48-4 | 49 / 49 | 2.24 | 10.9 | 0.0481 - 0.0639 | 0.0962 - 0.128 | mg/kg | SL-091-NBZ | EMAX | 6020 | 4 - 5 |
| Metals | Copper | 7440-50-8 | 49 / 49 | 1.81 | 14.5 | 0.192 - 0.255 | 0.385 - 0.511 | mg/kg | SL-003-NBZ | EMAX | 6020 | 4 - 5 |
| Metals | Iron | 7439-89-6 | 49 / 49 | 14200 | 34200 | 9.62 - 12.8 | 19.2 - 25.5 | mg/kg | SL-077-NBZ | EMAX | 6020 | 2.5 - 3.5 |
| Metals | Lead | 7439-92-1 | 49 / 49 | 3.03 | 15.6 | 0.0962 - 0.128 | 0.192 - 0.255 | mg/kg | SL-062-NBZ | EMAX | 6020 | 2.5 - 3.5 |
| Metals | Lithium | 7439-93-2 | 49 / 49 | 16.8 | 59.6 | 0.962 - 1.28 | 1.92 - 2.55 | mg/kg | SL-091-NBZ | EMAX | 6020 | 4 - 5 |
| Metals | Magnesium | 7439-95-4 | 49 / 49 | 2480 | 7560 | 4.81 - 6.39 | 9.62 - 12.8 | mg/kg | SL-077-NBZ | EMAX | 6020 | 2.5 - 3.5 |
| Metals | Manganese | 7439-96-5 | 49 / 49 | 75 | 1870 | 0.24 - 1.35 | 0.481 - 2.69 | mg/kg | SL-002-NBZ | EMAX | 6020 | 7.5 - 8.5 |
| Metals | Molybdenum | 7439-98-7 | 49 / 49 | 0.194 | 2.47 | 0.0481 - 0.0639 | 0.0962 - 0.128 | mg/kg | SL-091-NBZ | EMAX | 6020 | 4 - 5 |
| Metals | Nickel | 7440-02-0 | 49 / 49 | 3.76 | 17.1 | 0.192 - 0.255 | 0.385 - 0.511 | mg/kg | SL-091-NBZ | EMAX | 6020 | 4 - 5 |
| Metals | Phosphorus | 7723-14-0 | 49 / 49 | 44.3 | 627 | 5.77 - 7.66 | 11.5 - 15.3 | mg/kg | SL-077-NBZ | EMAX | 6020 | 2.5 - 3.5 |
| Metals | Potassium | 9/7/7440 | 49 / 49 | 725 | 3590 | 28.9 - 38.3 | 57.7 - 76.6 | mg/kg | SL-061-NBZ | EMAX | 6020 | 1 - 2 |
| Metals | Selenium | 7782-49-2 | 12 / 49 | 0.227 J Z | 0.447 | 0.192 - 0.255 | 0.385 - 0.511 | mg/kg | SL-046-NBZ | EMAX | 6020 | 4 - 5 |
| Metals | Silver | 7440-22-4 | 15 / 49 | 0.0511 J Z | 0.118 | 0.0481 - 0.0639 | 0.0962 - 0.128 | mg/kg | SL-003-NBZ | EMAX | 6020 | 4 - 5 |
| Metals | Sodium | 7440-23-5 | 47 / 49 | 53.5 J Z | 618 | 48.1 - 63.9 | 96.2 - 128 | mg/kg | SL-037-NBZ | EMAX | 6020 | 3 - 4 |
| Metals | Strontium | 7440-24-6 | 49 / 49 | 6.89 | 23.9 | 0.24 - 0.319 | 0.481 - 0.639 | mg/kg | SL-003-NBZ | EMAX | 6020 | 4 - 5 |
| Metals | Thallium | 7440-28-0 | 49 / 49 | 0.152 | 0.411 | 0.0481 - 0.0639 | 0.0962 - 0.128 | mg/kg | SL-003-NBZ | EMAX | 6020 | 4 - 5 |
| Metals | Tin | 7440-31-5 | 0 / 49 | - | - | 4.81 - 6.39 | 9.62 - 12.8 | mg/kg | | | | - |
| Metals | Titanium | 7440-32-6 | 49 / 49 | 715 | 1730 | 0.481 - 2.64 | 0.962 - 5.27 | mg/kg | SL-077-NBZ | EMAX | 6020 | 2.5 - 3.5 |
| Metals | Vanadium | 7440-62-2 | 49 / 49 | 15.8 | 55.4 | 0.0481 - 0.0639 | 0.0962 - 0.128 | mg/kg | SL-077-NBZ | EMAX | 6020 | 2.5 - 3.5 |
| Metals | Zinc | 7440-66-6 | 49 / 49 | 26.2 | 82.3 | 1.44 - 1.92 | 2.89 - 3.83 | mg/kg | SL-003-NBZ | EMAX | 6020 | 4 - 5 |
| Metals | Zirconium | 7440-67-7 | 0 / 49 | - | - | 2.4 - 3.19 | 4.81 - 6.39 | mg/kg | | | | - |
| Moisture Content | Moisture | MOIST | 48 / 48 | 2.8 | 21.5 | 0.5 - 0.5 | 0.5 - 0.5 | % | SL-036-NBZ | LL | 160.3M | 7.5 - 8.5 |
| NDMA | N-Nitrosodimethylamine | 62-75-9 | 1 / 48 | 72.8 | 72.8 | 16.9 - 190 | 33.9 - 380 | ng/kg | SL-008-NBZ | LL | 1625C | 4 - 5 |
| Nitrates | Nitrate | 14797-55-8 | 40 / 49 | 0.852 J Z | 14.6 | 0.75 - 0.982 | 1.5 - 1.96 | mg/kg | SL-061-NBZ | EMAX | 300 | 1 - 2 |
| Nitrates | Nitrite-NO2 | 14797-65-0 | 0 / 24 | - | - | 0.776 - 0.839 | 1.55 - 1.68 | mg/kg | | | | - |
| PAHs | 1-Methylnaphthalene | 90-12-0 | 1 / 49 | 1.4 J Z | 1.4 J Z | 0.88 - 1.1 | 1.8 - 2.2 | µg/kg | SL-006-NBZ | EMAX | 8270C SIM | 3 - 4 |
| PAHs | 2-Methylnaphthalene | 91-57-6 | 1 / 49 | 1.3 J Z | 1.3 J Z | 0.88 - 1.1 | 1.8 - 2.2 | µg/kg | SL-006-NBZ | EMAX | 8270C SIM | 3 - 4 |
| PAHs | Acenaphthene | 83-32-9 | 3 / 49 | 1 J Z | 29 | 0.88 - 1.1 | 1.8 - 2.2 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Acenaphthylene | 208-96-8 | 3 / 49 | 1 J Z | 1.1 J Z | 0.88 - 1.1 | 1.8 - 2.2 | µg/kg | SL-006-NBZ | EMAX | 8270C SIM | 3 - 4 |
| PAHs | Anthracene | 120-12-7 | 1 / 49 | 120 | 120 | 0.88 - 1.1 | 1.8 - 2.2 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Benzo(a)anthracene | 56-55-3 | 3 / 49 | 1.3 J Z | 620 | 0.88 - 1.1 | 1.8 - 2.2 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Benzo(a)pyrene | 50-32-8 | 2 / 49 | 2.1 | 490 | 0.88 - 1.1 | 1.8 - 2.2 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Benzo(b)fluoranthene | 205-99-2 | 2 / 49 | 2.3 | 750 | 0.88 - 1.1 | 1.8 - 2.2 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Benzo(g,h,i)perylene | 191-24-2 | 2 / 49 | 2 | 220 | 0.88 - 1.1 | 1.8 - 2.2 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Benzo(k)fluoranthene | 207-08-9 | 2 / 49 | 2.3 | 240 | 0.88 - 1.1 | 1.8 - 2.2 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Bis(2-ethylhexyl)phthalate | 117-81-7 | 16 / 49 | 9.5 J Z | 250 J FD, Q | 8.7 - 11 | 17 - 22 | µg/kg | SL-040-NBZ | EMAX | 8270C SIM | 2.5 - 3.5 |
| PAHs | Butylbenzylphthalate | 85-68-7 | 4 / 49 | 9.3 J Z | 17 | 8.7 - 11 | 17 - 22 | µg/kg | SL-049-NBZ | EMAX | 8270C SIM | 2 - 3 |
| PAHs | Chrysene | 218-01-9 | 3 / 49 | 1.1 J Z | 510 | 0.88 - 1.1 | 1.8 - 2.2 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Dibenzo(a,h)anthracene | 53-70-3 | 2 / 49 | 1.6 J Z | 63 | 0.88 - 1.1 | 1.8 - 2.2 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Diethylphthalate | 84-66-2 | 0 / 49 | - | - | 8.7 - 11 | 17 - 22 | µg/kg | | | | - |
| PAHs | Dimethylphthalate | 131-11-3 | 1 / 49 | 50 J FD | 50 J FD | 8.7 - 11 | 17 - 22 | µg/kg | SL-040-NBZ | EMAX | 8270C SIM | 2.5 - 3.5 |
| PAHs | Di-n-butylphthalate | 84-74-2 | 0 / 49 | - | - | 8.7 - 11 | 17 - 22 | µg/kg | | | | - |
| PAHs | Di-n-octylphthalate | 117-84-0 | 0 / 49 | - | - | 8.7 - 11 | 17 - 22 | µg/kg | | | | - |
| PAHs | Fluoranthene | 206-44-0 | 3 / 49 | 1.5 J Z | 1400 | 0.88 - 1.1 | 1.8 - 2.2 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Fluorene | 86-73-7 | 1 / 49 | 17 | 17 | 0.88 - 1.1 | 1.8 - 2.2 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Indeno(1,2,3-cd)pyrene | 193-39-5 | 2 / 49 | 1.7 J Z | 200 | 0.88 - 1.1 | 1.8 - 2.2 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Naphthalene | 91-20-3 | 2 / 49 | 1.1 J Z | 1.8 | 0.88 - 1.1 | 1.8 - 2.2 | µg/kg | SL-006-NBZ | EMAX | 8270C SIM | 3 - 4 |
| PAHs | N-Nitrosodimethylamine | 62-75-9 | 0 / 49 | - | - | 0.88 - 1.1 | 1.8 - 2.2 | µg/kg | | | | - |
| PAHs | Phenanthrene | 85-01-8 | 1 / 49 | 540 | 540 | 0.88 - 1.1 | 1.8 - 2.2 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Pyrene | 129-00-0 | 3 / 49 | 1.4 J Z | 1100 | 0.88 - 1.1 | 1.8 - 2.2 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PCBPCTs | Aroclor 1016 | 12674-11-2 | 0 / 49 | - | - | 0.88 - 89 | 4.5 - 450 | µg/kg | | | | - |
| PCBPCTs | Aroclor 1221 | 11104-28-2 | 0 / 49 | - | - | 0.88 - 89 | 4.5 - 450 | µg/kg | | | | - |
| PCBPCTs | Aroclor 1232 | 11141-16-5 | 0 / 49 | - | - | 0.88 - 89 | 4.5 - 450 | µg/kg | | | | - |
| PCBPCTs | Aroclor 1242 | 53469-21-9 | 0 / 49 | - | - | 0.88 - 89 | 4.5 - 450 | µg/kg | | | | - |
| PCBPCTs | Aroclor 1248 | 12672-29-6 | 2 / 49 | 8.3 | 220 | 0.88 - 89 | 4.5 - 450 | µg/kg | SL-062-NBZ | EMAX | 8082 | 2.5 - 3.5 |
| PCBPCTs | Aroclor 1254 | 11097-69-1 | 2 / 49 | 4.2 | 6.2 | 0.88 - 89 | 4.5 - 450 | µg/kg | SL-082-NBZ | EMAX | 8082 | 2.5 - 3.5 |
| PCBPCTs | Aroclor 1260 | 11096-82-5 | 3 / 49 | 4.9 | 680 | 0.88 - 89 | 4.5 - 450 | µg/kg | SL-047-NBZ | EMAX | 8082 | 4 - 5 |

| Group | Chemical | CAS No | Detection Frequency | Minimum Concentration | Maximum Concentration | Range of Method Detection Limit | Range of Method Reporting Limit | Unit | Location of Maximum Concentration | Lab of Maximum Concentration | Method of Maximum Concentration | Depth of Maximum Concentration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCBPCTs | Aroclor 1262 | 37324-23-5 | 0 / 49 | - | - | 0.88 - 89 | 4.5 - 450 | µg/kg | | | | - |
| PCBPCTs | Aroclor 1268 | 11100-14-4 | 0 / 49 | - | - | 0.88 - 89 | 4.5 - 450 | µg/kg | | | | - |
| PCBPCTs | Aroclor 5432 | 63496-31-1 | 0 / 49 | - | - | 1.8 - 180 | 8.5 - 875 | µg/kg | | | | - |
| PCBPCTs | Aroclor 5442 | 12642-23-8 | 0 / 49 | - | - | 1.8 - 180 | 8.5 - 875 | µg/kg | | | | - |
| PCBPCTs | Aroclor 5460 | 11126-42-4 | 2 / 49 | 2.4 J Z | 7.6 | 1.8 - 180 | 8.5 - 875 | µg/kg | SL-047-NBZ | EMAX | 8082 | 4 - 5 |
| Perchlorate | Perchlorate (314) | 14797-73-0 | 0 / 49 | - | - | 10.3 - 13.1 | 20.6 - 26.2 | µg/kg | | | | - |
| Perchlorate | Perchlorate (6850) | 14797-73-0 | 0 / 5 | - | - | 2.59 - 2.66 | 5.17 - 5.32 | µg/kg | | | | - |
| Pesticides | 4,4'-DDD | 72-54-8 | 0 / 2 | - | - | 0.19 - 0.19 | 0.975 - 0.975 | µg/kg | | | | - |
| Pesticides | 4,4'-DDE | 72-55-9 | 0 / 2 | - | - | 0.19 - 0.19 | 0.975 - 0.975 | µg/kg | | | | - |
| Pesticides | 4,4'-DDT | 50-29-3 | 0 / 2 | - | - | 0.19 - 0.19 | 0.975 - 0.975 | µg/kg | | | | - |
| Pesticides | Aldrin | 309-00-2 | 0 / 2 | - | - | 0.096 - 0.097 | 0.475 - 0.475 | µg/kg | | | | - |
| Pesticides | Alpha-Bhc | 319-84-6 | 0 / 2 | - | - | 0.096 - 0.097 | 0.475 - 0.475 | µg/kg | | | | - |
| Pesticides | Beta-Bhc | 319-85-7 | 0 / 2 | - | - | 0.096 - 0.097 | 0.475 - 0.475 | µg/kg | | | | - |
| Pesticides | Chlordane (Technical) | 12789-03-6 | 0 / 2 | - | - | 1.9 - 1.9 | 9.75 - 9.75 | µg/kg | | | | - |
| Pesticides | Delta-Bhc | 319-86-8 | 0 / 2 | - | - | 0.096 - 0.097 | 0.475 - 0.475 | µg/kg | | | | - |
| Pesticides | Dieldrin | 60-57-1 | 0 / 2 | - | - | 0.19 - 0.19 | 0.975 - 0.975 | µg/kg | | | | - |
| Pesticides | Endosulfan I | 959-98-8 | 0 / 2 | - | - | 0.096 - 0.097 | 0.475 - 0.475 | µg/kg | | | | - |
| Pesticides | Endosulfan II | 33213-65-9 | 0 / 2 | - | - | 0.19 - 0.19 | 0.975 - 0.975 | µg/kg | | | | - |
| Pesticides | Endosulfan Sulfate | 1031-07-8 | 0 / 2 | - | - | 0.19 - 0.19 | 0.975 - 0.975 | µg/kg | | | | - |
| Pesticides | Endrin | 72-20-8 | 0 / 2 | - | - | 0.19 - 0.19 | 0.975 - 0.975 | µg/kg | | | | - |
| Pesticides | Endrin Aldehyde | 7421-93-4 | 0 / 2 | - | - | 0.19 - 0.19 | 0.975 - 0.975 | µg/kg | | | | - |
| Pesticides | Endrin Ketone | 53494-70-5 | 0 / 2 | - | - | 0.19 - 0.19 | 0.975 - 0.975 | µg/kg | | | | - |
| Pesticides | Gamma-Bhc (Lindane) | 58-89-9 | 0 / 2 | - | - | 0.096 - 0.097 | 0.475 - 0.475 | µg/kg | | | | - |
| Pesticides | Heptachlor | 76-44-8 | 0 / 2 | - | - | 0.096 - 0.097 | 0.475 - 0.475 | µg/kg | | | | - |
| Pesticides | Heptachlor Epoxide | 1024-57-3 | 0 / 2 | - | - | 0.096 - 0.097 | 0.475 - 0.475 | µg/kg | | | | - |
| Pesticides | Methoxychlor | 72-43-5 | 0 / 2 | - | - | 0.96 - 0.97 | 4.75 - 4.75 | µg/kg | | | | - |
| Pesticides | Mirex | 2385-85-5 | 0 / 2 | - | - | 0.19 - 0.19 | 0.975 - 0.975 | µg/kg | | | | - |
| Pesticides | Technical Toxaphene | 8001-35-2 | 0 / 2 | - | - | 3.7 - 3.8 | 18.75 - 18.75 | µg/kg | | | | - |
| pH | pH | pH | 49 / 49 | 5.71 | 8.67 | 0.1 - 0.1 | 0.1 - 0.1 | pH | SL-019-NBZ | EMAX | 9045D | 3 - 4 |
| SVOC | 1,2,4-Trichlorobenzene | 120-82-1 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 1,2-Dichlorobenzene | 95-50-1 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 1,2-Diphenylhydrazine | 122-66-7 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 1,3-Dichlorobenzene | 541-73-1 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 1,4-Dichlorobenzene | 106-46-7 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 2,4,5-Trichlorophenol | 95-95-4 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 2,4,6-Trichlorophenol | 88-06-2 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 2,4-Dichlorophenol | 120-83-2 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 2,4-Dimethylphenol | 105-67-9 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 2,4-Dinitrophenol | 51-28-5 | 0 / 49 | - | - | 170 - 220 | 340 - 440 | µg/kg | | | | - |
| SVOC | 2,4-Dinitrotoluene | 121-14-2 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 2,6-Dinitrotoluene | 606-20-2 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 2-butoxyethanol | 111-76-2 | 0 / 49 | - | - | 170 - 220 | 170 - 220 | µg/kg | | | | - |
| SVOC | 2-Chloronaphthalene | 91-58-7 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 2-Chlorophenol | 95-57-8 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 2-Methylphenol | 95-48-7 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 2-Nitroaniline | 88-74-4 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 2-Nitrophenol | 88-75-5 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 2-phenoxyethanol | 122-99-6 | 0 / 49 | - | - | 170 - 220 | 170 - 220 | µg/kg | | | | - |
| SVOC | 3,3'-Dichlorobenzidine | 91-94-1 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 3,5-Dimethylphenol | 108-68-9 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 3-Nitroaniline | 99-09-2 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 4,6-Dinitro-2-methylphenol | 534-52-1 | 0 / 49 | - | - | 170 - 220 | 340 - 440 | µg/kg | | | | - |
| SVOC | 4-Bromophenyl-phenylether | 101-55-3 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 4-Chloro-3-methylphenol | 59-50-7 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 4-Chloroaniline | 106-47-8 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 4-Chlorophenyl-phenylether | 7005-72-3 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 4-Methylphenol | 106-44-5 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 4-Nitroaniline | 100-01-6 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | 4-Nitrophenol | 100-02-7 | 0 / 49 | - | - | 170 - 220 | 340 - 440 | µg/kg | | | | - |
| SVOC | Aniline | 62-53-3 | 0 / 49 | - | - | 170 - 220 | 340 - 440 | µg/kg | | | | - |
| SVOC | Benzidine | 92-87-5 | 0 / 49 | - | - | 430 - 550 | 860 - 1100 | µg/kg | | | | - |
| SVOC | Benzoic Acid | 65-85-0 | 0 / 49 | - | - | 340 - 440 | 690 - 870 | µg/kg | | | | - |

Table 3-2
Summary of Analytical Results for Chemicals - Validated Data
Subsurface - NBZ - Phases 1 and 2

| Group | Chemical | CAS No | Detection Frequency | Minimum Concentration | Maximum Concentration | Range of Method Detection Limit | Range of Method Reporting Limit | Unit | Location of Maximum Concentration | Lab of Maximum Concentration | Method of Maximum Concentration | Depth of Maximum Concentration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SVOC | Benzyl Alcohol | 100-51-6 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | bis(2-chloroethoxy)methane | 111-91-1 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | bis(2-chloroethyl) ether | 111-44-4 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | bis(2-chloroisopropyl) ether | 39638-32-9 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | Carbazole | 86-74-8 | 1 / 49 | 110 J Z | 110 J Z | 87 - 110 | 170 - 220 | µg/kg | SL-048-NBZ | EMAX | 8270C | 4 - 5 |
| SVOC | Dibenzofuran | 132-64-9 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | Hexachlorobenzene | 118-74-1 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | Hexachlorobutadiene | 87-68-3 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | Hexachlorocyclopentadiene | 77-47-4 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | Hexachloroethane | 67-72-1 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | Isophorone | 78-59-1 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | Nitrobenzene | 98-95-3 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | N-Nitroso-di-n-propylamine | 621-64-7 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | N-Nitrosodiphenylamine | 86-30-6 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | Pentachlorophenol | 87-86-5 | 0 / 49 | - | - | 170 - 220 | 340 - 440 | µg/kg | | | | - |
| SVOC | Phenol | 108-95-2 | 0 / 49 | - | - | 87 - 110 | 170 - 220 | µg/kg | | | | - |
| SVOC | Tetralin | 119-64-2 | 0 / 49 | - | - | 170 - 220 | 170 - 220 | µg/kg | | | | - |
| Terphenyls | m-Terphenyl | 92-06-8 | 0 / 47 | - | - | 1.5 - 1.9 | 3.6 - 4.5 | mg/kg | | | | - |
| Terphenyls | o-Terphenyl | 84-15-1 | 0 / 47 | - | - | 1.5 - 1.9 | 3.6 - 4.5 | mg/kg | | | | - |
| Terphenyls | p-Terphenyl | 92-94-4 | 0 / 47 | - | - | 1.5 - 1.9 | 3.6 - 4.5 | mg/kg | | | | - |
| TPH-EFH | EFH (C12-C14) | PHCC12C14 | 3 / 49 | 0.73 J Z | 1.4 | 0.52 - 0.65 | 1 - 1.3 | mg/kg | SL-039-NBZ | EMAX | 8015B EFH | 2 - 3 |
| TPH-EFH | EFH (C15-C20) | PHCC15C20 | 4 / 49 | 0.64 J Z | 38 | 0.52 - 0.65 | 1 - 1.3 | mg/kg | SL-040-NBZ | EMAX | 8015B EFH | 2.5 - 3.5 |
| TPH-EFH | EFH (C21-C30) | PHCC21C30 | 27 / 49 | 0.59 J Z | 41 | 0.52 - 0.65 | 1 - 1.3 | mg/kg | SL-040-NBZ | EMAX | 8015B EFH | 2.5 - 3.5 |
| TPH-EFH | EFH (C30-C40) | PHCC30C40 | 35 / 49 | 0.69 J Z | 13 | 0.52 - 0.65 | 1 - 1.3 | mg/kg | SL-061-NBZ | EMAX | 8015B EFH | 1 - 2 |
| TPH-EFH | EFH (C8-C11) | PHCC8C11 | 26 / 49 | 0.53 J Z | 0.95 J Z | 0.52 - 0.65 | 1 - 1.3 | mg/kg | SL-037-NBZ | EMAX | 8015B EFH | 3 - 4 |
| TPH-EFH | Total EFH (C8-C40) | PHCC8C40 | 43 / 49 | 0.55 J Z | 92 J Q | 0.52 - 0.65 | 1 - 1.3 | mg/kg | SL-040-NBZ | EMAX | 8015B EFH | 2.5 - 3.5 |
| TPH-GRO | Gasoline Range Organics (C5-C12) | GROC5C12 | 3 / 49 | 1.6 | 4.6 | 0.47 - 0.6 | 0.94 - 1.2 | mg/kg | SL-048-NBZ | EMAX | 8015B GRO | 4.5 - 4.5 |
| VOC | 1,1,1,2-Tetrachloroethane | 630-20-6 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 1,1,1-Trichloroethane | 71-55-6 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 1,1,2,2-Tetrachloroethane | 79-34-5 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | 0 / 3 | - | - | 1.9 - 2.2 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 1,1,2-Trichloroethane | 79-00-5 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 1,1-Dichloroethane | 75-34-3 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 1,1-Dichloroethene | 75-35-4 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 1,1-Dichloropropene | 563-58-6 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 1,2,3-Trichlorobenzene | 87-61-6 | 0 / 3 | - | - | 1.9 - 2.2 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 1,2,3-Trichloropropane | 96-18-4 | 0 / 3 | - | - | 1.9 - 2.2 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 1,2,4-Trichlorobenzene | 120-82-1 | 0 / 3 | - | - | 1.9 - 2.2 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 1,2,4-Trimethylbenzene | 95-63-6 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 1,2-Dibromo-3-chloropropane | 96-12-8 | 0 / 3 | - | - | 1.9 - 2.2 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 1,2-Dibromoethane | 106-93-4 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 1,2-Dichlorobenzene | 95-50-1 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 1,2-Dichloroethane | 107-06-2 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 1,2-Dichloropropane | 78-87-5 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 1,3,5-Trimethylbenzene | 108-67-8 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 1,3-Dichlorobenzene | 541-73-1 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 1,3-Dichloropropane | 142-28-9 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 1,4-Dichlorobenzene | 106-46-7 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 2,2-Dichloropropane | 594-20-7 | 0 / 3 | - | - | 1.9 - 2.2 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 2-Butanone (MEK) | 78-93-3 | 0 / 3 | - | - | 4.7 - 5.5 | 9.5 - 11 | µg/kg | | | | - |
| VOC | 2-Chloro-1,1,1-trifluoroethane | 75-88-7 | 0 / 3 | - | - | 1.9 - 2.2 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 2-Chloroethyl Vinyl Ether | 110-75-8 | 0 / 3 | - | - | 1.9 - 2.2 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 2-Chlorotoluene | 95-49-8 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 2-Hexanone | 591-78-6 | 0 / 3 | - | - | 4.7 - 5.5 | 9.5 - 11 | µg/kg | | | | - |
| VOC | 2-Phenylbutane | 135-98-8 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 4-Chlorotoluene | 106-43-4 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | 0 / 3 | - | - | 4.7 - 5.5 | 9.5 - 11 | µg/kg | | | | - |
| VOC | Acetone | 67-64-1 | 0 / 3 | - | - | 4.7 - 5.5 | 9.5 - 11 | µg/kg | | | | - |
| VOC | Benzene | 71-43-2 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Bromobenzene | 108-86-1 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Bromochloromethane | 74-97-5 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Bromodichloromethane | 75-27-4 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |

| Group | Chemical | CAS No | Detection Frequency | Minimum Concentration | Maximum Concentration | Range of Method Detection Limit | Range of Method Reporting Limit | Unit | Location of Maximum Concentration | Lab of Maximum Concentration | Method of Maximum Concentration | Depth of Maximum Concentration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VOC | Bromoform | 75-25-2 | 0 / 3 | - | - | 1.9 - 2.2 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Bromomethane | 74-83-9 | 0 / 3 | - | - | 1.9 - 2.2 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Carbon Tetrachloride | 56-23-5 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Chlorobenzene | 108-90-7 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Chloroethane | 75-00-3 | 0 / 3 | - | - | 1.9 - 2.2 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Chloroform | 67-66-3 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Chloromethane | 74-87-3 | 0 / 3 | - | - | 1.9 - 2.2 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Chlorotrifluoroethylene | 79-38-9 | 0 / 3 | - | - | 1.9 - 2.2 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | cis-1,2-Dichloroethene | 156-59-2 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | cis-1,3-Dichloropropene | 10061-01-5 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Cymene | 99-87-6 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Dibromochloromethane | 124-48-1 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Dibromomethane | 74-95-3 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Dichlorodifluoromethane | 75-71-8 | 0 / 3 | - | - | 1.9 - 2.2 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Ethylbenzene | 100-41-4 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Hexachloro-1,3-butadiene | 87-68-3 | 0 / 3 | - | - | 1.9 - 2.2 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Isopropylbenzene | 98-82-8 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | m,p-Xylene | 179601-23-1 | 0 / 3 | - | - | 1.9 - 2.2 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Methyl Tert-Butyl Ether | 1634-04-4 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Methylene Chloride | 75-09-2 | 1 / 3 | 4.2 J Z | 4.2 J Z | 1.9 - 2.2 | 4.7 - 5.5 | µg/kg | SL-020-NBZ | EMAX | 8260B | 3 - 3 |
| VOC | n-Butylbenzene | 104-51-8 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | n-Propylbenzene | 103-65-1 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | o-Xylene | 95-47-6 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Styrene | 100-42-5 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | tert-Butylbenzene | 98-06-6 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Tetrachloroethene | 127-18-4 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Toluene | 108-88-3 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | trans-1,2-Dichloroethene | 156-60-5 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | trans-1,3-Dichloropropene | 10061-02-6 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Trichloroethene | 79-01-6 | 0 / 3 | - | - | 0.95 - 1.1 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Trichlorofluoromethane | 75-69-4 | 0 / 3 | - | - | 1.9 - 2.2 | 4.7 - 5.5 | µg/kg | | | | - |
| VOC | Vinyl Chloride | 75-01-4 | 0 / 3 | - | - | 1.9 - 2.2 | 4.7 - 5.5 | µg/kg | | | | - |

**Notes**
ug/kg- microgram per kilogram
mg/kg - milligram per kilogram
ng/kg - nanogram per kilogram
J - Result is an estimated value
H - Holding times exceeded
S - Surrogates outside of criteria
C - Calibration recoveries outside of criteria
R - Calibration relative response factors outside of criteria
B - Method blank contamination
L - Laboratory control sample recoveries outside of criteria
Q - Matrix spike recoveries outside of criteria
E - Laboratory control sample and or matrix spike relative percent differences outside of criteria
I - Internal standards outside of criteria
A - Serial dilution results outside of criteria
F - Field blank contamination
Z - Analytes reported below the reporting limits and above the method detection limit
FD - Field duplicate relative percent difference outside of criteria
*# - Unusual problems found with the quality control data. See validation reports in Appendix C for detail.

| Group | Chemical | CAS No | Detection Frequency | Minimum Concentration | Maximum Concentration | Range of Method Detection Limit | Range of Method Reporting Limit | Unit | Location of Maximum Concentration | Lab of Maximum Concentration | Method of Maximum Concentration | Depth of Maximum Concentration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 1,4-Dioxane | 123-91-1 | 0 / 4 | - | - | 4.7 - 6.3 | 9.4 - 13 | µg/kg | | | | - |
| Alcohols | 2-Propanol | 67-63-0 | 0 / 83 | - | - | 250 - 330 | 510 - 650 | µg/kg | | | | - |
| Alcohols | Ethanol | 64-17-5 | 0 / 83 | - | - | 250 - 330 | 510 - 650 | µg/kg | | | | - |
| Alcohols | Methanol | 67-56-1 | 0 / 83 | - | - | 250 - 330 | 510 - 650 | µg/kg | | | | - |
| Cyanide | Cyanide | 57-12-5 | 11 / 110 | 0.327 J Z | 4.08 | 0.25 - 0.37 | 0.5 - 0.74 | mg/kg | SL-054-NBZ | EMAX | 9014 | 0 - 0.5 |
| Dioxins | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | 35822-46-9 | 140 / 214 | 1.45 J Z | 657 | 0.014 - 0.145 | 4.95 - 7.09 | ng/kg | SL-044-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 1,2,3,4,6,7,8-HPCDF | 67562-39-4 | 122 / 214 | 0.305 J Z | 409 | 0.00529 - 0.0608 | 4.95 - 7.09 | ng/kg | SL-044-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 1,2,3,4,7,8,9-HPCDF | 55673-89-7 | 46 / 214 | 0.143 J Z | 60 | 0.0106 - 0.0837 | 4.95 - 7.09 | ng/kg | SL-060-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | 39227-28-6 | 104 / 214 | 0.028 J Z | 5.64 | 0.0118 - 0.0808 | 4.95 - 7.09 | ng/kg | SL-044-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 1,2,3,4,7,8-HXCDF | 70648-26-9 | 105 / 214 | 0.111 J Z | 168 | 0.00947 - 0.097 | 4.95 - 7.09 | ng/kg | SL-060-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | 57653-85-7 | 98 / 214 | 0.159 J Z | 68.7 | 0.0122 - 0.0825 | 4.95 - 7.09 | ng/kg | SL-044-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 1,2,3,6,7,8-HXCDF | 57117-44-9 | 95 / 214 | 0.0579 J Z | 84 | 0.00755 - 0.0891 | 4.95 - 7.09 | ng/kg | SL-060-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | 19408-74-3 | 114 / 214 | 0.148 J Z | 22.6 | 0.0117 - 0.0806 | 4.95 - 7.09 | ng/kg | SL-044-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 1,2,3,7,8,9-HXCDF | 72918-21-9 | 54 / 214 | 0.031 J Z | 2.65 J Z | 0.0104 - 0.107 | 4.95 - 7.09 | ng/kg | SL-044-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 1,2,3,7,8-Pentachlorodibenzofuran | 57117-41-6 | 132 / 214 | 0.0473 J Z | 92.6 | 0.00941 - 0.147 | 4.95 - 7.09 | ng/kg | SL-060-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | 40321-76-4 | 81 / 214 | 0.0308 J Z | 5.86 | 0.0152 - 0.112 | 4.95 - 7.09 | ng/kg | SL-044-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 2,3,4,6,7,8-HXCDF | 60851-34-5 | 68 / 214 | 0.128 J Z | 37.3 | 0.00821 - 0.0815 | 4.95 - 7.09 | ng/kg | SL-060-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 2,3,4,7,8-PECDF | 57117-31-4 | 83 / 214 | 0.304 J Z | 243 | 0.0101 - 0.139 | 4.95 - 7.09 | ng/kg | SL-060-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 2,3,7,8-TCDD | 1746-01-6 | 65 / 214 | 0.0254 J Z | 2.53 | 0.0131 - 0.0918 | 0.99 - 1.42 | ng/kg | SL-044-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 | 153 / 214 | 0.0148 J Z | 52.6 | 0.0145 - 0.495 | 0.99 - 1.42 | ng/kg | SL-060-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | OCDD | 3268-87-9 | 177 / 214 | 2.43 J Z | 5270 | 0.00997 - 0.165 | 9.9 - 14.2 | ng/kg | SL-044-NBZ | LL | 1613B | 0 - 0.5 |
| Dioxins | OCDF | 39001-02-0 | 141 / 214 | 0.593 J Z | 537 | 0.0109 - 0.0529 | 9.9 - 14.2 | ng/kg | SL-044-NBZ | LL | 1613B | 0 - 0.5 |
| Energetics | 1,3,5-Trinitrobenzene | 99-35-4 | 0 / 110 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 2,4,6-Trinitrotoluene | 118-96-7 | 0 / 110 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 2,4-Diamino-6-nitrotoluene | 6629-29-4 | 0 / 110 | - | - | 99 - 100 | 200 - 200 | µg/kg | | | | - |
| Energetics | 2,4-Dinitrotoluene | 121-14-2 | 0 / 110 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 2,6-Diamino-4-nitrotoluene | 59229-75-3 | 0 / 110 | - | - | 99 - 100 | 200 - 200 | µg/kg | | | | - |
| Energetics | 2,6-Dinitrotoluene | 606-20-2 | 0 / 110 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 2-Amino-4,6-Dinitrotoluene | 35572-78-2 | 0 / 110 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 2-Nitrotoluene | 88-72-2 | 0 / 110 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 3-Nitrotoluene | 99-08-1 | 0 / 110 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 4-Amino-2,6-Dinitrotoluene | 19406-51-0 | 0 / 110 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | 4-Nitrotoluene | 99-99-0 | 0 / 110 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | HMX | 2691-41-0 | 0 / 110 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | M-Dinitrobenzene | 99-65-0 | 0 / 110 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | Nitrobenzene | 98-95-3 | 0 / 110 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | Nitroglycerin | 55-63-0 | 0 / 110 | - | - | 490 - 500 | 990 - 1000 | µg/kg | | | | - |
| Energetics | PETN | 78-11-5 | 0 / 110 | - | - | 490 - 500 | 990 - 1000 | µg/kg | | | | - |
| Energetics | RDX | 121-82-4 | 0 / 110 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Energetics | Tetryl | 479-45-8 | 0 / 110 | - | - | 50 - 50 | 99 - 100 | µg/kg | | | | - |
| Fluoride | Fluoride | 16984-48-8 | 82 / 214 | 0.529 J Z | 10.1 | 0.5 - 0.74 | 1 - 1.48 | mg/kg | SL-037-NBZ | EMAX | 300 | 3 - 4 |
| Formaldehyde | Formaldehyde | 50-00-0 | 2 / 113 | 740 J Z | 1200 J Z | 600 - 73000 | 1500 - 180000 | µg/kg | SL-044-NBZ | LL | 8315A | 0 - 0.5 |
| Glycols | Diethylene Glycol | 111-46-6 | 0 / 83 | - | - | 7.6 - 9.8 | 15 - 20 | mg/kg | | | | - |
| Glycols | Ethylene Glycol | 107-21-1 | 0 / 83 | - | - | 5.1 - 6.5 | 10 - 13 | mg/kg | | | | - |
| Glycols | Propylene Glycol | 57-55-6 | 0 / 83 | - | - | 5.1 - 6.5 | 10 - 13 | mg/kg | | | | - |
| Herbicides | 2,2-Dichlor-Propionic Acid | 75-99-0 | 0 / 167 | - | - | 9.2 - 110 | 18.2 - 440 | µg/kg | | | | - |
| Herbicides | 2,4,5-T | 93-76-5 | 0 / 167 | - | - | 0.086 - 2.1 | 0.34 - 8.2 | µg/kg | | | | - |
| Herbicides | 2,4-D | 94-75-7 | 1 / 167 | 18 | 18 | 1.8 - 43 | 7.4 - 174 | µg/kg | SL-021-NBZ | EMAX | 8151A | 0 - 0.5 |
| Herbicides | 2,4-DB | 94-82-6 | 0 / 167 | - | - | 0.86 - 21 | 3.4 - 82 | µg/kg | | | | - |
| Herbicides | Dicamba | 1918-00-9 | 0 / 167 | - | - | 0.61 - 14 | 2.4 - 58 | µg/kg | | | | - |
| Herbicides | Dichlorprop | 120-36-5 | 0 / 167 | - | - | 1.2 - 29 | 4.8 - 116 | µg/kg | | | | - |
| Herbicides | Dinitrobutyl Phenol | 88-85-7 | 0 / 167 | - | - | 0.86 - 21 | 3.4 - 82 | µg/kg | | | | - |
| Herbicides | MCPA | 94-74-6 | 0 / 167 | - | - | 130 - 3000 | 500 - 12000 | µg/kg | | | | - |
| Herbicides | MCPP | 93-65-2 | 0 / 167 | - | - | 130 - 3000 | 500 - 12000 | µg/kg | | | | - |
| Herbicides | Silvex (2,4,5-TP) | 93-72-1 | 2 / 167 | 1.2 | 10 | 0.086 - 2.1 | 0.34 - 8.2 | µg/kg | SL-044-NBZ | EMAX | 8151A | 0 - 0.5 |
| Hexavalent Chromium | Chromium (Hexavalent Compounds) | 18540-29-9 | 0 / 214 | - | - | 0.508 - 0.74 | 1.02 - 1.48 | mg/kg | | | | - |
| Mercury | Mercury | 7439-97-6 | 13 / 214 | 0.0584 J Z | 24.3 | 0.0504 - 2.6 | 0.101 - 5.19 | mg/kg | SL-044-NBZ | EMAX | 7471A | 0 - 0.5 |
| Metals | Aluminum | 7429-90-5 | 214 / 214 | 5700 | 25300 | 11.3 - 17.7 | 22.6 - 35.3 | mg/kg | SL-091-NBZ | EMAX | 6020 | 4 - 5 |
| Metals | Antimony | 7440-36-0 | 201 / 214 | 0.11 J Z | 8.25 J Q | 0.0943 - 0.147 | 0.189 - 0.294 | mg/kg | SL-044-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Arsenic | 7440-38-2 | 214 / 214 | 1.71 | 27 | 0.189 - 0.294 | 0.377 - 0.589 | mg/kg | SL-010-NBZ | EMAX | 6020 | 4 - 5 |
| Metals | Barium | 7440-39-3 | 214 / 214 | 38.1 | 161 | 0.189 - 0.294 | 0.377 - 0.589 | mg/kg | SL-077-NBZ | EMAX | 6020 | 2.5 - 3.5 |
| Metals | Beryllium | 7440-41-7 | 214 / 214 | 0.242 | 1.09 | 0.0472 - 0.0736 | 0.0943 - 0.147 | mg/kg | SL-148-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Boron | 7440-42-8 | 33 / 214 | 2.6 J Z | 22.8 | 2.36 - 3.68 | 4.72 - 7.36 | mg/kg | SL-017-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Cadmium | 7440-43-9 | 212 / 214 | 0.0633 J Z | 3.41 | 0.0472 - 0.0736 | 0.0943 - 0.147 | mg/kg | SL-044-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Calcium | 7440-70-2 | 214 / 214 | 755 | 157000 | 9.43 - 14.7 | 18.9 - 29.4 | mg/kg | SL-054-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Chromium | 7440-47-3 | 214 / 214 | 6.29 | 40.8 | 0.189 - 0.294 | 0.377 - 0.589 | mg/kg | SL-199-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Cobalt | 7440-48-4 | 214 / 214 | 2.24 | 13.3 | 0.0472 - 0.0736 | 0.0943 - 0.147 | mg/kg | SL-151-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Copper | 7440-50-8 | 214 / 214 | 1.81 | 1740 | 0.189 - 1.03 | 0.377 - 2.05 | mg/kg | SL-044-NBZ | EMAX | 6020 | 0 - 0.5 |

Table 3-3
Summary of Analytical Results for Chemicals - Validated Data
Combined Soils - NBZ - Phases 1 and 2

| Group | Chemical | CAS No | Detection Frequency | Minimum Concentration | Maximum Concentration | Range of Method Detection Limit | Range of Method Reporting Limit | Unit | Location of Maximum Concentration | Lab of Maximum Concentration | Method of Maximum Concentration | Depth of Maximum Concentration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metals | Iron | 7439-89-6 | 214 / 214 | 11600 | 34200 | 9.43 - 14.7 | 18.9 - 29.4 | mg/kg | SL-077-NBZ | EMAX | 6020 | 2.5 - 3.5 |
| Metals | Lead | 7439-92-1 | 214 / 214 | 3.03 | 200 | 0.0943 - 0.147 | 0.189 - 0.294 | mg/kg | SL-044-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Lithium | 7439-93-2 | 214 / 214 | 10.1 | 59.6 | 0.943 - 1.47 | 1.89 - 2.94 | mg/kg | SL-091-NBZ | EMAX | 6020 | 4 - 5 |
| Metals | Magnesium | 7439-95-4 | 214 / 214 | 2480 | 9200 | 4.72 - 7.36 | 9.43 - 14.7 | mg/kg | SL-054-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Manganese | 7439-96-5 | 214 / 214 | 75 | 1870 | 0.236 - 1.35 | 0.472 - 2.69 | mg/kg | SL-002-NBZ | EMAX | 6020 | 7.5 - 8.5 |
| Metals | Molybdenum | 7439-98-7 | 214 / 214 | 0.168 | 2.78 | 0.0472 - 0.0736 | 0.0943 - 0.147 | mg/kg | SL-044-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Nickel | 7440-02-0 | 214 / 214 | 3.76 | 61.4 | 0.189 - 0.294 | 0.377 - 0.589 | mg/kg | SL-042-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Phosphorus | 7723-14-0 | 214 / 214 | 44.3 | 879 | 5.66 - 8.83 | 11.3 - 17.7 | mg/kg | SL-176-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Potassium | 9/7/7440 | 214 / 214 | 725 | 6350 J Q | 28.3 - 44.2 | 56.6 - 88.3 | mg/kg | SL-156-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Selenium | 7782-49-2 | 51 / 214 | 0.205 J Z | 0.724 | 0.189 - 0.294 | 0.377 - 0.589 | mg/kg | SL-167-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Silver | 7440-22-4 | 57 / 214 | 0.0511 J Z | 2.28 | 0.0472 - 0.0736 | 0.0943 - 0.147 | mg/kg | SL-044-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Sodium | 7440-23-5 | 131 / 214 | 49.2 J Z | 618 | 47.2 - 73.6 | 94.3 - 147 | mg/kg | SL-037-NBZ | EMAX | 6020 | 3 - 4 |
| Metals | Strontium | 7440-24-6 | 214 / 214 | 6.3 | 283 | 0.236 - 0.368 | 0.472 - 0.736 | mg/kg | SL-054-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Thallium | 7440-28-0 | 214 / 214 | 0.116 | 0.459 | 0.0472 - 0.0736 | 0.0943 - 0.147 | mg/kg | SL-151-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Tin | 7440-31-5 | 2 / 214 | 6.86 J Z | 7.37 J Z | 4.72 - 7.36 | 9.43 - 14.7 | mg/kg | SL-060-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Titanium | 7440-32-6 | 214 / 214 | 542 | 1730 | 0.472 - 2.64 | 0.943 - 5.27 | mg/kg | SL-077-NBZ | EMAX | 6020 | 2.5 - 3.5 |
| Metals | Vanadium | 7440-62-2 | 214 / 214 | 15.8 | 55.4 | 0.0472 - 0.0736 | 0.0943 - 0.147 | mg/kg | SL-077-NBZ | EMAX | 6020 | 2.5 - 3.5 |
| Metals | Zinc | 7440-66-6 | 214 / 214 | 26.2 | 1060 | 1.41 - 2.21 | 2.83 - 4.42 | mg/kg | SL-044-NBZ | EMAX | 6020 | 0 - 0.5 |
| Metals | Zirconium | 7440-67-7 | 3 / 214 | 2.89 J Q, Z | 4 J Q, Z | 2.36 - 3.68 | 4.72 - 7.36 | mg/kg | SL-176-NBZ | EMAX | 6020 | 0 - 0.5 |
| Moisture Content | Moisture | MOIST | 214 / 214 | 1.2 | 32.8 | 0.5 - 0.5 | 0.5 - 0.5 | % | SL-013-NBZ | LL | 160.3M | 0 - 0.5 |
| NDMA | N-Nitrosodimethylamine | 62-75-9 | 3 / 113 | 72.8 | 471 | 16.9 - 248 | 33.8 - 496 | ng/kg | SL-088-NBZ | LL | 1625C | 0 - 0.5 |
| Nitrates | Nitrate | 14797-55-8 | 99 / 110 | 0.812 J Z | 71.8 | 0.75 - 4.46 | 1.5 - 8.93 | mg/kg | SL-081-NBZ | EMAX | 300 | 0 - 0.5 |
| Nitrates | Nitrite-NO2 | 14797-65-0 | 3 / 34 | 0.977 J Z | 1.48 J Z | 0.765 - 0.839 | 1.53 - 1.68 | mg/kg | SL-030-NBZ | EMAX | 300 | 0 - 0.5 |
| PAHs | 1-Methylnaphthalene | 90-12-0 | 12 / 214 | 0.98 J FD, Z | 2.3 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-101-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | 2-Methylnaphthalene | 91-57-6 | 12 / 214 | 1 J Z | 2.8 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-101-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Acenaphthene | 83-32-9 | 10 / 214 | 0.98 J Z | 29 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Acenaphthylene | 208-96-8 | 16 / 214 | 0.98 J Z | 2.4 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-029-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Anthracene | 120-12-7 | 10 / 214 | 1.2 J Z | 120 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Benzo(a)anthracene | 56-55-3 | 57 / 214 | 0.95 J Z | 620 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Benzo(a)pyrene | 50-32-8 | 48 / 214 | 1 J Z | 490 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Benzo(b)fluoranthene | 205-99-2 | 81 / 214 | 1 J Z | 750 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Benzo(g,h,i)perylene | 191-24-2 | 83 / 214 | 0.9 J Z | 220 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Benzo(k)fluoranthene | 207-08-9 | 26 / 214 | 1 J Z | 240 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Bis(2-ethylhexyl)phthalate | 117-81-7 | 161 / 214 | 9.5 J Z | 340 | 8.5 - 44 | 17 - 87 | µg/kg | SL-044-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Butylbenzylphthalate | 85-68-7 | 58 / 214 | 9.1 J Z | 110 | 8.5 - 44 | 17 - 87 | µg/kg | SL-121-NBZ<br>SL-148-NBZ | EMAX<br>EMAX | 8270C SIM<br>8270C SIM | 0 - 0.5<br>0 - 0.5 |
| PAHs | Chrysene | 218-01-9 | 65 / 214 | 0.96 J Z | 510 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Dibenzo(a,h)anthracene | 53-70-3 | 14 / 214 | 0.98 J Z | 63 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Diethylphthalate | 84-66-2 | 0 / 214 | - | - | 8.5 - 44 | 17 - 87 | µg/kg | | | | - |
| PAHs | Dimethylphthalate | 131-11-3 | 1 / 214 | 50 J FD | 50 J FD | 8.5 - 44 | 17 - 87 | µg/kg | SL-040-NBZ | EMAX | 8270C SIM | 2.5 - 3.5 |
| PAHs | Di-n-butylphthalate | 84-74-2 | 4 / 214 | 11 J Z | 66 | 8.5 - 44 | 17 - 87 | µg/kg | SL-040-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Di-n-octylphthalate | 117-84-0 | 2 / 214 | 17 J Z | 62 | 8.5 - 44 | 17 - 87 | µg/kg | SL-030-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Fluoranthene | 206-44-0 | 99 / 214 | 0.93 J Z | 1400 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Fluorene | 86-73-7 | 14 / 214 | 0.99 J Z | 17 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Indeno(1,2,3-cd)pyrene | 193-39-5 | 41 / 214 | 1.1 J Z | 200 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Naphthalene | 91-20-3 | 20 / 214 | 0.93 J Z | 31 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-201-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | N-Nitrosodimethylamine | 62-75-9 | 2 / 214 | 2.5 | 4.4 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-144-NBZ | EMAX | 8270C SIM | 0 - 0.5 |
| PAHs | Phenanthrene | 85-01-8 | 56 / 214 | 0.93 J Z | 540 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PAHs | Pyrene | 129-00-0 | 104 / 214 | 0.96 J Z | 1100 | 0.86 - 4.4 | 1.7 - 8.8 | µg/kg | SL-048-NBZ | EMAX | 8270C SIM | 4 - 5 |
| PCBPCTs | Aroclor 1016 | 12674-11-2 | 0 / 214 | - | - | 0.86 - 92 | 4.25 - 450 | µg/kg | | | | - |
| PCBPCTs | Aroclor 1221 | 11104-28-2 | 0 / 214 | - | - | 0.86 - 92 | 4.25 - 450 | µg/kg | | | | - |
| PCBPCTs | Aroclor 1232 | 11141-16-5 | 0 / 214 | - | - | 0.86 - 92 | 4.25 - 450 | µg/kg | | | | - |
| PCBPCTs | Aroclor 1242 | 53469-21-9 | 0 / 214 | - | - | 0.86 - 92 | 4.25 - 450 | µg/kg | | | | - |
| PCBPCTs | Aroclor 1248 | 12672-29-6 | 6 / 214 | 8.3 | 4200 J FD, *# | 0.86 - 92 | 4.25 - 450 | µg/kg | SL-057-NBZ | EMAX | 8082 | 0 - 0.5 |
| PCBPCTs | Aroclor 1254 | 11097-69-1 | 28 / 214 | 2 | 1800 | 0.86 - 92 | 4.25 - 450 | µg/kg | SL-044-NBZ | EMAX | 8082 | 0 - 0.5 |
| PCBPCTs | Aroclor 1260 | 11096-82-5 | 23 / 214 | 1.4 J Z | 1500 J FD, C | 0.86 - 92 | 4.25 - 450 | µg/kg | SL-057-NBZ | EMAX | 8082 | 0 - 0.5 |
| PCBPCTs | Aroclor 1262 | 37324-23-5 | 0 / 214 | - | - | 0.86 - 92 | 4.25 - 450 | µg/kg | | | | - |
| PCBPCTs | Aroclor 1268 | 11100-14-4 | 0 / 214 | - | - | 0.86 - 92 | 4.25 - 450 | µg/kg | | | | - |
| PCBPCTs | Aroclor 5432 | 63496-31-1 | 0 / 214 | - | - | 1.7 - 180 | 8.5 - 900 | µg/kg | | | | - |
| PCBPCTs | Aroclor 5442 | 12642-23-8 | 0 / 214 | - | - | 1.7 - 180 | 8.5 - 900 | µg/kg | | | | - |
| PCBPCTs | Aroclor 5460 | 11126-42-4 | 45 / 214 | 2.1 J Z | 1300 | 1.7 - 180 | 8.5 - 875 | µg/kg | SL-044-NBZ | EMAX | 8082 | 0 - 0.5 |
| Perchlorate | Perchlorate (314) | 14797-73-0 | 1 / 214 | 32.1 | 32.1 | 10.2 - 59.5 | 20.3 - 119 | µg/kg | SL-044-NBZ | EMAX | 314 | 0 - 0.5 |
| Perchlorate | Perchlorate (6850) | 14797-73-0 | 0 / 39 | - | - | 2.54 - 3.15 | 5.08 - 6.31 | µg/kg | | | | |
| Pesticides | 4,4'-DDD | 72-54-8 | 14 / 167 | 0.2 J Z | 0.93 | 0.17 - 21 | 0.875 - 102.5 | µg/kg | SL-157-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | 4,4'-DDE | 72-55-9 | 107 / 167 | 0.22 J Z | 440 | 0.17 - 21 | 0.875 - 102.5 | µg/kg | SL-060-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | 4,4'-DDT | 50-29-3 | 113 / 167 | 0.21 J Z | 40 | 0.17 - 21 | 0.875 - 102.5 | µg/kg | SL-201-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Aldrin | 309-00-2 | 0 / 167 | - | - | 0.086 - 10 | 0.425 - 52.5 | µg/kg | | | | - |
| Pesticides | Alpha-Bhc | 319-84-6 | 3 / 167 | 0.16 J Z | 1.3 | 0.086 - 10 | 0.425 - 52.5 | µg/kg | SL-046-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Beta-Bhc | 319-85-7 | 1 / 167 | 14 | 14 | 0.086 - 760 | 0.425 - 1900 | µg/kg | SL-095-NBZ | EMAX | 8081A | 0 - 0.5 |

| Group | Chemical | CAS No | Detection Frequency | Minimum Concentration | Maximum Concentration | Range of Method Detection Limit | Range of Method Reporting Limit | Unit | Location of Maximum Concentration | Lab of Maximum Concentration | Method of Maximum Concentration | Depth of Maximum Concentration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pesticides | Chlordane (Technical) | 12789-03-6 | 0 / 167 | - | - | 1.7 - 210 | 8.75 - 1025 | µg/kg | | | | - |
| Pesticides | Delta-Bhc | 319-86-8 | 1 / 167 | 0.19 | 0.19 | 0.086 - 10 | 0.425 - 52.5 | µg/kg | SL-056-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Dieldrin | 60-57-1 | 9 / 167 | 0.38 | 91 | 0.17 - 21 | 0.875 - 102.5 | µg/kg | SL-044-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Endosulfan I | 959-98-8 | 5 / 167 | 0.16 J Z | 3 | 0.086 - 10 | 0.425 - 52.5 | µg/kg | SL-046-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Endosulfan II | 33213-65-9 | 4 / 167 | 0.28 J Z | 3.3 | 0.17 - 21 | 0.875 - 102.5 | µg/kg | SL-151-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Endosulfan Sulfate | 1031-07-8 | 6 / 167 | 0.28 J Z | 10 J *# | 0.17 - 21 | 0.875 - 102.5 | µg/kg | SL-048-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Endrin | 72-20-8 | 1 / 167 | 0.25 J Z, *# | 0.25 J Z, *# | 0.17 - 21 | 0.875 - 102.5 | µg/kg | SL-057-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Endrin Aldehyde | 7421-93-4 | 3 / 167 | 0.52 | 5.5 J FD | 0.17 - 21 | 0.875 - 102.5 | µg/kg | SL-057-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Endrin Ketone | 53494-70-5 | 1 / 167 | 2.4 | 2.4 | 0.17 - 21 | 0.875 - 102.5 | µg/kg | SL-022-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Gamma-Bhc (Lindane) | 58-89-9 | 0 / 167 | - | - | 0.086 - 10 | 0.425 - 52.5 | µg/kg | | | | - |
| Pesticides | Heptachlor | 76-44-8 | 8 / 167 | 0.1 J Z | 1.7 | 0.086 - 10 | 0.425 - 52.5 | µg/kg | SL-129-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Heptachlor Epoxide | 1024-57-3 | 8 / 167 | 0.11 J Z | 2.7 | 0.086 - 10 | 0.425 - 52.5 | µg/kg | SL-029-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Methoxychlor | 72-43-5 | 8 / 167 | 0.96 J Z | 14 | 0.86 - 100 | 4.25 - 525 | µg/kg | SL-136-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Mirex | 2385-85-5 | 6 / 167 | 0.26 J Z | 4.2 | 0.17 - 21 | 0.875 - 102.5 | µg/kg | SL-023-NBZ | EMAX | 8081A | 0 - 0.5 |
| Pesticides | Technical Toxaphene | 8001-35-2 | 0 / 167 | - | - | 3.4 - 400 | 16.75 - 2000 | µg/kg | | | | - |
| pH | pH | pH | 214 / 214 | 5.1 | 8.67 | 0.1 - 0.1 | 0.1 - 0.1 | pH | SL-019-NBZ | EMAX | 9045D | 3 - 4 |
| SVOC | 1,2,4-Trichlorobenzene | 120-82-1 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 1,2-Dichlorobenzene | 95-50-1 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 1,2-Diphenylhydrazine | 122-66-7 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 1,3-Dichlorobenzene | 541-73-1 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 1,4-Dichlorobenzene | 106-46-7 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2,4,5-Trichlorophenol | 95-95-4 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2,4,6-Trichlorophenol | 88-06-2 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2,4-Dichlorophenol | 120-83-2 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2,4-Dimethylphenol | 105-67-9 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2,4-Dinitrophenol | 51-28-5 | 0 / 214 | - | - | 170 - 870 | 340 - 1700 | µg/kg | | | | - |
| SVOC | 2,4-Dinitrotoluene | 121-14-2 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2,6-Dinitrotoluene | 606-20-2 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2-butoxyethanol | 111-76-2 | 0 / 214 | - | - | 170 - 870 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2-Chloronaphthalene | 91-58-7 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2-Chlorophenol | 95-57-8 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2-Methylphenol | 95-48-7 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2-Nitroaniline | 88-74-4 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2-Nitrophenol | 88-75-5 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 2-phenoxyethanol | 122-99-6 | 0 / 214 | - | - | 170 - 870 | 170 - 870 | µg/kg | | | | - |
| SVOC | 3,3'-Dichlorobenzidine | 91-94-1 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 3,5-Dimethylphenol | 108-68-9 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 3-Nitroaniline | 99-09-2 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 4,6-Dinitro-2-methylphenol | 534-52-1 | 0 / 214 | - | - | 170 - 870 | 340 - 1700 | µg/kg | | | | - |
| SVOC | 4-Bromophenyl-phenylether | 101-55-3 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 4-Chloro-3-methylphenol | 59-50-7 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 4-Chloroaniline | 106-47-8 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 4-Chlorophenyl-phenylether | 7005-72-3 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 4-Methylphenol | 106-44-5 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 4-Nitroaniline | 100-01-6 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | 4-Nitrophenol | 100-02-7 | 0 / 214 | - | - | 170 - 870 | 340 - 1700 | µg/kg | | | | - |
| SVOC | Aniline | 62-53-3 | 0 / 214 | - | - | 170 - 870 | 340 - 1700 | µg/kg | | | | - |
| SVOC | Benzidine | 92-87-5 | 0 / 214 | - | - | 430 - 2200 | 840 - 4300 | µg/kg | | | | - |
| SVOC | Benzoic Acid | 65-85-0 | 0 / 214 | - | - | 340 - 1700 | 680 - 3500 | µg/kg | | | | - |
| SVOC | Benzyl Alcohol | 100-51-6 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | bis(2-chloroethoxy)methane | 111-91-1 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | bis(2-chloroethyl) ether | 111-44-4 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | bis(2-chloroisopropyl) ether | 39638-32-9 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | Carbazole | 86-74-8 | 1 / 214 | 110 J Z | 110 J Z | 85 - 440 | 170 - 870 | µg/kg | SL-048-NBZ | EMAX | 8270C | 4 - 5 |
| SVOC | Dibenzofuran | 132-64-9 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | Hexachlorobenzene | 118-74-1 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | Hexachlorobutadiene | 87-68-3 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | Hexachlorocyclopentadiene | 77-47-4 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | Hexachloroethane | 67-72-1 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | Isophorone | 78-59-1 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |

Table 3-3
Summary of Analytical Results for Chemicals - Validated Data
Combined Soils - NBZ - Phases 1 and 2

| Group | Chemical | CAS No | Detection Frequency | Minimum Concentration | Maximum Concentration | Range of Method Detection Limit | Range of Method Reporting Limit | Unit | Location of Maximum Concentration | Lab of Maximum Concentration | Method of Maximum Concentration | Depth of Maximum Concentration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SVOC | Nitrobenzene | 98-95-3 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | N-Nitroso-di-n-propylamine | 621-64-7 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | N-Nitrosodiphenylamine | 86-30-6 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | Pentachlorophenol | 87-86-5 | 0 / 214 | - | - | 170 - 870 | 340 - 1700 | µg/kg | | | | - |
| SVOC | Phenol | 108-95-2 | 0 / 214 | - | - | 85 - 440 | 170 - 870 | µg/kg | | | | - |
| SVOC | Tetralin | 119-64-2 | 0 / 214 | - | - | 170 - 870 | 170 - 870 | µg/kg | | | | - |
| Terphenyls | m-Terphenyl | 92-06-8 | 0 / 112 | - | - | 1.5 - 8.9 | 3.5 - 21 | mg/kg | | | | - |
| Terphenyls | o-Terphenyl | 84-15-1 | 0 / 112 | - | - | 1.5 - 8.9 | 3.5 - 21 | mg/kg | | | | - |
| Terphenyls | p-Terphenyl | 92-94-4 | 1 / 112 | 4.7 J L | 4.7 J L | 1.5 - 8.9 | 3.5 - 21 | mg/kg | SL-057-NBZ | LL | 8015B | 0 - 0.5 |
| TPH-EFH | EFH (C12-C14) | PHCC12C14 | 17 / 110 | 0.63 J Z | 2.5 | 0.51 - 12 | 1 - 23 | mg/kg | SL-076-NBZ | EMAX | 8015B EFH | 0 - 0.5 |
| TPH-EFH | EFH (C15-C20) | PHCC15C20 | 55 / 110 | 0.56 J Z | 51 | 0.51 - 12 | 1 - 23 | mg/kg | SL-044-NBZ | EMAX | 8015B EFH | 0 - 0.5 |
| TPH-EFH | EFH (C21-C30) | PHCC21C30 | 88 / 110 | 0.59 J Z | 300 | 0.51 - 12 | 1 - 23 | mg/kg | SL-044-NBZ | EMAX | 8015B EFH | 0 - 0.5 |
| TPH-EFH | EFH (C30-C40) | PHCC30C40 | 96 / 110 | 0.69 J Z | 220 | 0.51 - 12 | 1 - 23 | mg/kg | SL-044-NBZ | EMAX | 8015B EFH | 0 - 0.5 |
| TPH-EFH | EFH (C8-C11) | PHCC8C11 | 71 / 110 | 0.52 J Z | 3.8 | 0.51 - 12 | 1 - 23 | mg/kg | SL-017-NBZ<br>SL-018-NBZ | EMAX<br>EMAX | 8015B EFH<br>8015B EFH | 0 - 0.5<br>0 - 0.5 |
| TPH-EFH | Total EFH (C8-C40) | PHCC8C40 | 104 / 110 | 0.55 J Z | 570 | 0.51 - 12 | 1 - 23 | mg/kg | SL-044-NBZ | EMAX | 8015B EFH | 0 - 0.5 |
| TPH-GRO | Gasoline Range Organics (C5-C12) | GROC5C12 | 3 / 50 | 1.6 | 4.6 | 0.47 - 0.63 | 0.94 - 1.3 | mg/kg | SL-048-NBZ | EMAX | 8015B GRO | 4.5 - 4.5 |
| VOC | 1,1,1,2-Tetrachloroethane | 630-20-6 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 1,1,1-Trichloroethane | 71-55-6 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 1,1,2,2-Tetrachloroethane | 79-34-5 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | 0 / 4 | - | - | 1.9 - 2.4 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 1,1,2-Trichloroethane | 79-00-5 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 1,1-Dichloroethane | 75-34-3 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 1,1-Dichloroethene | 75-35-4 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 1,1-Dichloropropene | 563-58-6 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 1,2,3-Trichlorobenzene | 87-61-6 | 0 / 4 | - | - | 1.9 - 2.4 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 1,2,3-Trichloropropane | 96-18-4 | 0 / 4 | - | - | 1.9 - 2.4 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 1,2,4-Trichlorobenzene | 120-82-1 | 0 / 4 | - | - | 1.9 - 2.4 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 1,2,4-Trimethylbenzene | 95-63-6 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 1,2-Dibromo-3-chloropropane | 96-12-8 | 0 / 4 | - | - | 1.9 - 2.4 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 1,2-Dibromoethane | 106-93-4 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 1,2-Dichlorobenzene | 95-50-1 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 1,2-Dichloroethane | 107-06-2 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 1,2-Dichloropropane | 78-87-5 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 1,3,5-Trimethylbenzene | 108-67-8 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 1,3-Dichlorobenzene | 541-73-1 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 1,3-Dichloropropane | 142-28-9 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 1,4-Dichlorobenzene | 106-46-7 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 2,2-Dichloropropane | 594-20-7 | 0 / 4 | - | - | 1.9 - 2.4 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 2-Butanone (MEK) | 78-93-3 | 0 / 4 | - | - | 4.7 - 6 | 9.5 - 12 | µg/kg | | | | - |
| VOC | 2-Chloro-1,1,1-trifluoroethane | 75-88-7 | 0 / 4 | - | - | 1.9 - 2.4 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 2-Chloroethyl Vinyl Ether | 110-75-8 | 0 / 4 | - | - | 1.9 - 2.4 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 2-Chlorotoluene | 95-49-8 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 2-Hexanone | 591-78-6 | 0 / 4 | - | - | 4.7 - 6 | 9.5 - 12 | µg/kg | | | | - |
| VOC | 2-Phenylbutane | 135-98-8 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 4-Chlorotoluene | 106-43-4 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | 0 / 4 | - | - | 4.7 - 6 | 9.5 - 12 | µg/kg | | | | - |
| VOC | Acetone | 67-64-1 | 0 / 4 | - | - | 4.7 - 6 | 9.5 - 12 | µg/kg | | | | - |
| VOC | Benzene | 71-43-2 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Bromobenzene | 108-86-1 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Bromochloromethane | 74-97-5 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Bromodichloromethane | 75-27-4 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Bromoform | 75-25-2 | 0 / 4 | - | - | 1.9 - 2.4 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Bromomethane | 74-83-9 | 0 / 4 | - | - | 1.9 - 2.4 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Carbon Tetrachloride | 56-23-5 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Chlorobenzene | 108-90-7 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Chloroethane | 75-00-3 | 0 / 4 | - | - | 1.9 - 2.4 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Chloroform | 67-66-3 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Chloromethane | 74-87-3 | 0 / 4 | - | - | 1.9 - 2.4 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Chlorotrifluoroethylene | 79-38-9 | 0 / 4 | - | - | 1.9 - 2.4 | 4.7 - 6 | µg/kg | | | | - |
| VOC | cis-1,2-Dichloroethene | 156-59-2 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | cis-1,3-Dichloropropene | 10061-01-5 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Cymene | 99-87-6 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Dibromochloromethane | 124-48-1 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Dibromomethane | 74-95-3 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Dichlorodifluoromethane | 75-71-8 | 0 / 4 | - | - | 1.9 - 2.4 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Ethylbenzene | 100-41-4 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Hexachloro-1,3-butadiene | 87-68-3 | 0 / 4 | - | - | 1.9 - 2.4 | 4.7 - 6 | µg/kg | | | | - |

| Group | Chemical | CAS No | Detection Frequency | Minimum Concentration | Maximum Concentration | Range of Method Detection Limit | Range of Method Reporting Limit | Unit | Location of Maximum Concentration | Lab of Maximum Concentration | Method of Maximum Concentration | Depth of Maximum Concentration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VOC | Isopropylbenzene | 98-82-8 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | m,p-Xylene | 179601-23-1 | 0 / 4 | - | - | 1.9 - 2.4 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Methyl Tert-Butyl Ether | 1634-04-4 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Methylene Chloride | 75-09-2 | 1 / 4 | 4.2 J Z | 4.2 J Z | 1.9 - 2.4 | 4.7 - 6 | µg/kg | SL-020-NBZ | EMAX | 8260B | 3 - 3 |
| VOC | n-Butylbenzene | 104-51-8 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | n-Propylbenzene | 103-65-1 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | o-Xylene | 95-47-6 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Styrene | 100-42-5 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | tert-Butylbenzene | 98-06-6 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Tetrachloroethene | 127-18-4 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Toluene | 108-88-3 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | trans-1,2-Dichloroethene | 156-60-5 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | trans-1,3-Dichloropropene | 10061-02-6 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Trichloroethene | 79-01-6 | 0 / 4 | - | - | 0.95 - 1.2 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Trichlorofluoromethane | 75-69-4 | 0 / 4 | - | - | 1.9 - 2.4 | 4.7 - 6 | µg/kg | | | | - |
| VOC | Vinyl Chloride | 75-01-4 | 0 / 4 | - | - | 1.9 - 2.4 | 4.7 - 6 | µg/kg | | | | - |

**Notes**
ug/kg- microgram per kilogram
mg/kg - milligram per kilogram
ng/kg - nanogram per kilogram
J - Result is an estimated value
H - Holding times exceeded
S - Surrogates outside of criteria
C - Calibration recoveries outside of criteria
R - Calibration relative response factors outside of criteria
B - Method blank contamination
L - Laboratory control sample recoveries outside of criteria
Q - Matrix spike recoveries outside of criteria
E - Laboratory control sample and or matrix spike relative percent differences outside of criteria
I - Internal standards outside of criteria
A - Serial dilution results outside of criteria
F - Field blank contamination
Z - Analytes reported below the reporting limits and above the method detection limit
FD - Field duplicate relative percent difference outside of criteria
*# - Unusual problems found with the quality control data. See validation reports in Appendix C for detail.

# Section 4 Data Usability Assessment

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

## 4.1 Usability Summary

For the NBZ data usability assessment, 61 data sets, or SDGs were reviewed. A SDG consists of 20 or fewer samples grouped together by analytical method for analyses depending on the time and date the samples were received by the laboratory. The analyses performed are discussed in Sections 2.5.1 and 2.5.2.

Samples were collected and analyzed in accordance with the WP/FSAP (CDM 2011), and WP/FSAP Addendums for the NBZ with the exception of deviations during the field investigation as stated in Section 2.8.

The validated data for NBZ samples are usable as reported, with the exception of the rejected data. Eight benzidine results and two hexachlorocyclopentadiene results were rejected for NBZ samples. For all NBZ data, 0.03 percent of the results were rejected. These rejected data do not impact project objectives and goals. Specific details are provided in the validation reports in Appendix C and Section 4.7.

## 4.2 Data Validation Procedures

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

The data validation strategy was to validate 10 percent of the data according to EPA Level IV protocols (all QC parameters and raw data) and the remaining 90 percent according to EPA Level III protocols (all QC parameters except calibrations and raw data). The Level IV determination also included reviewing 10 percent for each laboratory and each method. In order to achieve this, the validators choose appropriate samples in each SDG. Hence, not all samples in some of the SDGs were Level IV validated but they received a mixture of Level IV and Level III review.

Table 4-1 presents all SDGs that include NBZ soil samples and those SDGs that were validated as Level III or Level IV. Some SDGs contain samples from other subareas, but all samples in an SDG were validated together. An index of samples associated with each SDG is presented at the beginning of Appendix C.

**Table 4-1 Sample Delivery Groups and Validation Levels for the NBZ**

| Sample Delivery Group | Level of Validation Performed | CDM Smith Review |
|---|---|---|
| | | |
| DE296 | Level III | |
| DE297 | Level III | |
| DE298 | Level III | |
| DE299 | Level III | Yes |
| DE300 | Level III | |
| DE301 | Level IV | |
| DE302 | Level III | |
| DE303 | Level III | |
| DE304 | Level III | |
| DE305 | Level IV | Yes |
| DE306 | Level IV | |
| DE307 | Level IV | |
| DE308 | Level III | |
| DE309 | Level III | |
| DE310 | Level III | |
| DE311 | Level III | |
| DE312 | Level IV | Yes |
| DE313 | Level IV | |
| DX159 | Level III | |
| DX160 | Level III | |
| DX161 | Level III | |
| DE162 | Level IV | |
| DX163 | Level IV | |
| DX164 | Level III | Yes |
| DX165 | Level IV | |
| DX166 | Level IV | |
| DX167 | Level IV | |
| DX168 | Level III | |
| DX169 | Level III | |
| DX170 | Level IV | |
| DX171 | Level IV | |
| 12C096 | Level III | |
| 12C106 | Level III | |
| 12C121 | Level III | |
| 12C135 | Level III | Yes |
| 12C156 | Level III | |
| 12C164 | Level III | |
| 12C182 | Level III | |
| 12C209 | Level III | |
| 12C229 | Level III | |
| 12C254 | Level IV | |
| 12C261 | Level III | |
| 12C273 | Level IV | |
| 12C285 | Level III | |
| 12C305 | Level IV | Yes |
| 12C321 | Level IV | |
| 12D004 | Level IV | |
| 12D018 | Level IV | |
| 12D031 | Level IV | |
| 12D048 | Level III | |
| 12D084 | Level III | |
| 12D092 | Level III | |
| 12D106 | Level III | |

**Table 4-1 Sample Delivery Groups and Validation Levels for the NBZ**

| Sample Delivery Group | Level of Validation Performed | CDM Smith Review |
|---|---|---|
| 12D122 | Level III | |
| 12D135 | Level III | |
| 12D146 | Level III | |
| 12D154 | Level III | Yes |
| 12D166 | Level IV | |
| 12D176 | Level IV | |
| 12D192 | Level III | |
| 12D197 | Level III | |

**Note:** Some SDGs contain samples from other subareas, but all samples in an SDG were validated together.

To evaluate the quality of the laboratory data and the validation process, CDM Smith's chemists reviewed 10 percent or greater of the NBZ soil sample SDGs. The SDGs reviewed are chosen based on methods and level of validation performed by the validation firm. The purpose of the review was to identify any laboratory QC issues not identified by the validation firm or any discrepancies in validation procedures by the validation firm. No additional qualifiers were applied to the data based on CDM Smith's review. Results of this review are provided in Section 4.8.

## 4.3 Quality Assurance Objectives

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

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

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

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

## 4.4 Summary of Field and Laboratory QA Activities

CDM Smith completed sampling activities in the NBZ in accordance with the approved WP/FSAP (CDM 2011) and Addendums to the WP/FSAP (CDM 2011). A total of 224 soil samples were collected and analyzed from the locations described in Table 2-1. Table 2-1 also provides a summary of the samples collected and the laboratory analyses requested; associated QA activities are described below.

## 4.5 Field Quality QA/QC

The field QC samples were collected at a frequency of approximately 1 per 20 samples (five percent) for field duplicates and MS/MSDs. A total of ten field duplicate/MS/MSD duplicate samples were collected equating to approximately five percent for the entire program. On an individual method basis, the five percent goal was approximately met for all analyses except formaldehyde, glycols, NDMA, confirmation analyses (Method 6850) for perchlorate, terphenyls and GRO samples. For VOCs and 1,4-dioxane, field duplicates and MS/MSDs were inadvertently not collected. These methods are not considered highly critical for program decisions and the slightly lower than five percent goal does not adversely affect the quality of the data. Field duplicate and MS/MSD samples met the frequency requirements detailed in the WP/FSAP (CDM 2011) except for the methods listed above.

Section 2.4.2 identifies the equipment blanks collected for the NBZ. During the validation process, qualifiers are applied as required. The 14 equipment rinsate blank results collected in the NBZ are presented in Appendix C and a summary of the detected results is presented in Table 4-2.

During the SSFL program wide sampling activities, a field blank sample is collected from each lot number of ASTM International water used by HGL for decontamination. Samples from the NBZ were associated with the appropriate field blanks. A summary of the detected results for the applicable field blanks is presented in Table 4-3.

**Table 4-2 Equipment Blanks for NBZ Samples – Detected Results Only**

| EB-NBZ-SB-031512<br>EB-NBZ<br>3/15/12 | | | |
|---|---|---|---|
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Aluminum | pg/L | 0.0225/0.1 | J |
| Copper | mg/L | 0.000785/0.001 | J |
| HMX | µg/L | 0.37/1 | J |
| **EB-NBZ-SB-032212<br>EB-NBZ<br>3/22/12** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | pg/L | 0.423/9.44 | J |
| 2,3,7,8-Tetrachlorodibenzofuran | pg/L | 0.209/1.89 | J |
| Aluminum | mg/L | 0.0458/0.1 | J |
| Calcium | mg/L | 0.0365/0.1 | J |
| Chromium | mg/L | 0.00082/0.001 | J |
| Copper | mg/L | 0.00155/0.001 | |
| Iron | mg/L | 0.0177/0.1 | J |
| Lead | mg/L | 0.000121/0.001 | J |
| Manganese | mg/L | 0.000213/0.001 | J |
| Sodium | mg/L | 0.0505/0.1 | J |

**Table 4-2 Equipment Blanks for NBZ Samples – Detected Results Only**

| EB-NBZ-SB-032712<br>EB-NBZ<br>3/27/12 | | | |
|---|---|---|---|
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | pg/L | 0.302/10.5 | J |
| Aluminum | mg/L | 0.0368/0.1 | J |
| Copper | mg/L | 0.00137/0.001 | |
| HMX | µg/L | 0.25/1 | J |
| Sodium | mg/L | 0.2/0.1 | |
| **EB-NBZ-SB-032912<br>EB-NBZ<br>3/29/12** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | pg/L | 0.9/10.5 | J |
| Nitrate | mg/L | 0.275/0.443 | J |
| **EB-NBZ-SB-040412<br>EB-NBZ<br>4/4/12** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Calcium | mg/L | 0.0253/0.1 | J |
| Zinc | mg/L | 0.0146/0.02 | J |
| **EB-NBZ-SB-041712<br>EB-NBZ<br>4/17/12** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Aluminum | mg/L | 0.0217/0.1 | J |
| Copper | mg/L | 0.000894/0.001 | J |
| Gasoline Range Organics (C5-C12) | µg/L | 26/50 | J |
| N-Nitrosodimethylamine | ng/L | 2.31/1.04 | |
| **EB-NBZ-SS-031512<br>EB-NBZ<br>3/5/12** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| 2,3,7,8-TCDD | pg/L | 0.289/1.97 | J |
| Aluminum | mg/L | 0.0277/0.1 | J |
| Copper | mg/L | 0.00115/0.001 | |
| **EB-NBZ-SS-032712<br>EB-NBZ<br>3/27/12** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | pg/L | 0.224/9.94 | J |
| 2,3,7,8-Tetrachlorodibenzofuran | pg/L | 0.21/1.99 | J |
| Copper | mg/L | 0.000807/0.001 | J |
| Formaldehyde | µg/L | 230/50 | |
| Nitrate | mg/L | 0.49/0.443 | |

**Table 4-2 Equipment Blanks for NBZ Samples – Detected Results Only**

| EB-NBZ-SS-032912<br>EB-NBZ<br>3/29/12 | | | |
|---|---|---|---|
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | pg/L | 0.341/11 | J |
| Aluminum | mg/L | 0.0266/0.1 | J |
| Copper | mg/L | 0.00108/0.001 | |
| HMX | µg/L | 0.29/1 | J |
| Nitrate | mg/L | 0.799/0.443 | |
| Sodium | mg/L | 0.112/0.1 | |
| **EB-NBZ-SS-040412<br>EB-NBZ<br>4/4/12** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Chromium | mg/L | 0.000239/0.001 | J |
| Copper | mg/L | 0.000719/0.001 | J |
| **EB-NBZ-SS-041212<br>EB-NBZ<br>4/12/12** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Calcium | mg/L | 0.0608/0.1 | J |
| Nickel | mg/L | 0.000205/0.001 | J |
| N-Nitrosodimethylamine | ng/L | 6.67/1.03 | |
| **EB-NBZ-SS-041712<br>EB-NBZ<br>4/17/12** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| 1,2,3,7,8-Pentachlorodibenzofuran | pg/L | 0.365/10.8 | J |
| Calcium | mg/L | 0.0492/0.1 | J |
| Copper | mg/L | 0.000613/0.001 | J |
| Nickel | mg/L | 0.000255/0.001 | J |
| N-Nitrosodimethylamine | ng/L | 2.36/1,03 | |
| **EB-NBZ-SS-042312<br>EB-NBZ<br>4/23/12** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Calcium | mg/L | 0.0303/0.1 | J |
| Copper | mg/L | 0.00057/0.001 | J |
| Lead | mg/L | 0.000106/0.001 | J |

Notes:
Blank result greater than RL
HMX = Octohydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
TCDD = Tetrachlorodibenzodioxin
RL = Reporting Limit
µg/L = microgram per liter
mg/L = milligram per liter
pg/L =- picogram per liter
ng/L = nanogram per liter
J = estimated value

**Table 4-3 Field Blanks for NBZ Soil Samples – Detected Results Only**

| FB-SA7-110111<br>FB-SA7<br>11/01/2011 | | | |
|---|---|---|---|
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Chloroform | µg/L | 2.7/1 | |
| Ethylbenzene | µg/L | 1.4/1 | |
| m,p-Xylene | µg/L | 5.7/2 | |
| o-Xylene | µg/L | 2.6/1 | |
| Toluene | µg/L | 5.5/1 | |
| **FB-060512<br>5C-DG-FB<br>6/5/2012** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| 1,2,3,7,8-Pentachlorodibenzofuran | pg/L | 0.142/9.6 | J |
| 2,3,7,8-Tetrachlorodibenzofuran | pg/L | 0.208/1.92 | J |
| Acetone | µg/L | 26/10 | |
| Aluminum | mg/L | 0.027/0.1 | J |
| Calcium | mg/L | 0.0263/0.1 | J |
| Copper | mg/L | 0.000954/0.001 | J |
| Formaldehyde | µg/L | 12/50 | J |
| Gasoline Range Organics | µg/L | 49/50 | J |

Notes:
Blank result greater than RL
RL = Reporting Limit
µg/L = microgram per liter
pg/L = picogram per liter
mg/L = milligram per liter
J = estimated value

Eighteen trip blank samples were shipped with the NBZ soil. The results for these samples are presented in Appendix C and a summary of the detected results is presented in Table 4-4.

**Table 4-4 Trip Blank Results for the NBZ Soil Samples – Detected Results Only**

| TB-031212<br>03/12/2012 | | | |
|---|---|---|---|
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Gasoline Range Organics (C5-C12) | µg/L | 20/50 | J |
| **TB-031312<br>03/13/2012** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Gasoline Range Organics (C5-C12) | µg/L | 17/50 | J |
| **TB-031412<br>03/14/2012** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Gasoline Range Organics (C5-C12) | µg/L | 20/50 | J |
| **TB-031512<br>05/15/2012** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Gasoline Range Organics (C5-C12) | µg/L | 34/50 | J |

**Table 4-4 Trip Blank Results for the NBZ Soil Samples – Detected Results Only**

| TB-031612 03/16/2012 | | | |
|---|---|---|---|
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Gasoline Range Organics (C5-C12) | µg/L | 42/50 | J |
| **TB-031912 03/19/2012** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Gasoline Range Organics (C5-C12) | µg/L | 31/50 | J |
| **TB-032012 03/20/2012** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Gasoline Range Organics (C5-C12) | µg/L | 26/50 | J |
| **TB-032212 03/22/2012** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Gasoline Range Organics (C5-C12) | µg/L | 18/50 | J |
| **TB-032312 03/23/2012** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Gasoline Range Organics (C5-C12) | µg/L | 26/50 | J |
| **TB-032612 03/26/2012** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Gasoline Range Organics (C5-C12) | µg/L | 27/50 | J |
| **TB-032712 03/28/2012** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Gasoline Range Organics (C5-C12) | µg/L | 24/50 | J |
| Methylene Chloride | µg/L | 0.53/1 | J |
| **TB-032812 03/28/2012** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Gasoline Range Organics (C5-C12) | µg/L | 60/50 | |
| **TB-032912 03/29/2012** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Gasoline Range Organics (C5-C12) | µg/L | 15/50 | J |
| **TB-040312 04/12/2012** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Gasoline Range Organics (C5-C12) | µg/L | 27/50 | J |
| **TB-040412 04/04/2012** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Gasoline Range Organics (C5-C12) | µg/L | 19/50 | J |

**Table 4-4 Trip Blank Results for the NBZ Soil Samples – Detected Results Only**

| TB-041812 04/18/2012 | | | |
|---|---|---|---|
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Gasoline Range Organics (C5-C12) | µg/L | 37/50 | J |
| **TB-041912 04/19/2012** | | | |
| **Analyte** | **Units** | **Concentration/RL** | **Final Qualifier** |
| Gasoline Range Organics (C5-C12) | µg/L | 14/50 | J |

Notes:
Blank result greater than RL
RL = Reporting Limit
µg/L = microgram per liter
J = estimated value

Data qualifications based on all blank detections and impacts to the data due to contaminants detected in the blanks are discussed in Section 4.7.3 and in the Appendix C validation reports. Temperature blanks were to be included with each shipment of samples. Based on validation results, all temperature blanks submitted with the NBZ samples met criteria.

As stated previously, on an individual method basis the five percent goal was approximately met for all analyses except formaldehyde, glycols, NDMA, confirmation analyses (Method 6850) for perchlorate, terphenyls and GRO samples. For two of the methods (VOCs and 1,4-dioxane), field duplicates and MS/MSDs were inadvertently not collected. These methods are not considered highly critical for program decisions and the slightly lower than five percent goal does not adversely affect the quality of the data. Field duplicate and MS/MSD samples met the frequency requirements detailed in the WP/FSAP (CDM 2011) for the NBZ sampling program except for the methods listed above. Further, field QA/QC objectives were attained through the use of appropriate sampling techniques and collection of the required number and frequency of QC samples.

## 4.6 Laboratory Quality QA/QC

Analytical QA/QC was assessed by laboratory QC checks, method blanks, sample custody tracking, sample preservation, adherence to holding times, LCSs, MSs, calibration recoveries, surrogates, tuning criteria, second column confirmations, internal standards, serial dilutions, laboratory duplicates, and interference check standards. The majority of the laboratory QC sample results met project requirements as indicated in the data validation reports in Appendix C. Appropriate qualifiers were applied as needed. Ten individual analyte results for samples from the NBZ (0.03 percent of all the analytes) were rejected as discussed in Section 4.7 and in Appendix C.

## 4.7 Data Quality Indicators

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

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

### 4.7.1 Precision

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

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

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

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

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

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

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

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

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

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

- Some of the metals, PCB/PCTs, and SVOC analyte results due to laboratory precision criteria

Field duplicate precision results required the qualification of some dioxins, fluoride/nitrates , metals, EFH, pesticides, PCB/PCT and SVOC SIM results for NBZ samples. No results were rejected based on field duplicate precision criteria. All field duplicate RPD results are presented in Appendix C. In summary, sample results that have been qualified as estimated "J/UJ" due to failure of the precision criteria are usable with a degree of caution for project decisions with a degree of caution.

There was no discernible pattern or reason for the identified laboratory and field duplicate sample RPD exceedances. No field sampling issues were identified that would cause the RPD results that were outside of criteria. These exceedances are reasonable for this type of sampling activity.

### 4.7.2 Accuracy

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

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

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

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

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

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

The following QC samples are used to assess laboratory accuracy:

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

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

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

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

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

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

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

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

Internal Standards: Internal standards measure the gas chromatograph/ mass spectrometer sensitivity and response stability during each analysis.

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

For the NBZ soil data set, accuracy was evaluated by reviewing the %R values of initial and continuing calibration (percent difference or percent drift [%D] for organic analyses), internal standards, surrogate spikes (organic analyses only), MS/MSD, LCS/LCSD, inductively coupled plasma (ICP) interferences, and by performing serial dilution checks during metals analyses, in conjunction with

method blank, calibration blank, equipment rinsate blank, and trip blank results. These QC results assist in identifying the type and magnitude of effects that may have contributed to system error introduced from field and/or laboratory procedures.

Qualifiers were applied to applicable sample results during the validation process based on laboratory accuracy results. Details of the validation and the number of analytes qualified are discussed in detail in the DUAR and laboratory validation reports in Appendix C. Qualifiers have not been added to applicable sample results based on the accuracy results of the RL-LCS and RL-MS samples. These QC samples are intended to evaluate the effects of the method modifications on the RLs program-wide as discussed previously.

The following NBZ individual analyte results were qualified as estimated "J/UJ" due to failure to meet accuracy criteria:

- Some of the dioxin results, NDMA results, metal results, EFH results, pesticide results, herbicide results, SVOC results and SVOC SIM results due to MSs
- Some of the terphenyl/alcohol results and SVOC results due to LCSs
- Some of the pesticide results and PCB/PCT results due to surrogates
- Some of the metal analyte results due to serial dilutions
- Some of the pesticide and PCB/PCT results for calibration confirmation results
- Some of the SVOC results due to a one point calibration being analyzed instead of the required five point calibration
- Some of the pesticide results, PCB/PCT results, herbicide results and one VOC result based on calibration recoveries

The following individual analyte results were rejected "R" due to failure to meet accuracy criteria:

- Ten SVOC results (eight benzidine results; two hexachlorocyclopentadiene results [one result was also qualified based on RPD]) based on MS recoveries

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

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

### 4.7.3 Blank Contamination

Blanks are used to determine the level of laboratory and field contamination introduced into the samples, independent of the level of target analytes found in the sample source. Sources of sample contamination can include the containers and equipment used to collect the sample, preservatives added to the sample, other samples in transport coolers and laboratory sample storage refrigerators, standards and solutions used to calibrate instruments, glassware and reagents used to process

samples, airborne contamination in the laboratory preparation area and the analytical instrument sample introduction equipment. Each analyte group has its own particular suite of common laboratory contaminants. Active measures must be performed to continually measure the ambient contamination level and steps taken to discover the source of the contamination to eliminate or minimize the levels. Random spot contamination can also occur from analytes that are not common laboratory problems but that can arise as a problem for a specific project or over a short period of time. Sample equipment decontamination practices are discussed in Section 2.4.4. Field blanks, equipment blanks, trip blanks and laboratory method blanks are analyzed to identify possible sources of contamination. The DUAR and laboratory validation reports in Appendix C discuss the results that were qualified based on field and laboratory blank contamination.

In summary, for NBZ samples, some dioxins and one formaldehyde result were qualified as non-detect due to laboratory blank contamination criteria. The percentage of results qualified as non-detect based on laboratory blank contamination was less than five percent, as discussed in Appendix C, for all analyses except the following: 47 percent of the dioxins for NBZ. These results were qualified as non-detect "U" due to laboratory blank contamination.

For the dioxins, the MDLs for this analysis are very low, reported in nanogram per kilogram (ng/kg) or parts per trillion, resulting in numerous results qualified as estimated "J." Many of these estimated values have been subsequently qualified as non-detect "U" because the compound was detected in related laboratory blanks. In the laboratory blanks, low level detections of dioxin analytes are somewhat inevitable because of the nature and universal extent of the compounds. The dioxin levels found in the blanks are well below site-related action levels. Therefore, the resulting qualification of associated sample results as not detected or "U" does not falsely diminish identification of site-related contaminants.

Tables 4-2 through 4-4 provide a summary of analytes observed in equipment blanks, field blanks and trip blank samples. Most of the detected compounds in these blanks were below the RLs but above the MDLs. Compounds detected above the RL are highlighted yellow in the associated tables. The ASTM International Type II water used to generate the equipment and trip blanks was analyzed as field blanks on November 1, 2011 and June 5, 2012 and are associated with NBZ samples. The field blanks (source water) had detections of chloroform, ethylbenzene, xylenes, toluene, and acetone (above the RL) indicating inherent low level contamination in the source water used.

ASTM International Type II water is not typically certified “clean” to the low RLs established for the low level methods used for the co-located sampling program. CDM Smith will continue to monitor ASTM International Type II water field blanks for detected concentrations of analytes throughout the sampling program.

Associated sample results were qualified accordingly during the validation process for equipment and field blank contamination. No sample results were rejected due to detected concentrations in field blanks or laboratory blanks.

Trip blank results are presented in Table 4-3. All the trip blank samples had detections of GRO. The trip blank samples are received from the laboratory in coolers with the empty sample jars and are returned to the laboratory with the collected samples while unopened in the field. The laboratory was requested to review these anomalous results and the chromatograms for these samples. EMAX noted that the detects were the results of one or more discrete peaks that eluted in the range of GROs (from C5 to C12). Those discrete peaks were included in the integration of the samples resulting in GRO detection above the MRL. However, EMAX reported that there was no gasoline pattern shown in these

trip blanks. CDM Smith will analyze a vial of each set (lot) of trip blank samples received from a laboratory prior to their use to confirm the quality of the water supplied or receive proper documentation from the laboratory of the quality of the trip blank water. This will help determine if future GRO detections above the MRL can be attributed to contamination in the shipping process (in the cooler) or if the detections of individual GRO compounds are isolated in the laboratory. Future reporting rules for GRO in trip blanks will require the identification of clearly identified GRO patterns by the laboratory. All sample results were non-detect for GRO for the NBZ samples except for three soil samples.

### 4.7.4 Representativeness, Comparability, and Sensitivity

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

#### 4.7.4.1 Representativeness

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

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

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

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

#### 4.7.4.2 Comparability

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

To ensure comparability of data generated for the site, standard sample collection procedures and DTSC-reviewed analytical methods were utilized by CDM Smith. The sample analyses were performed

by LLI and EMAX. Utilizing such procedures and methods enables the current data to be comparable with previous and future data sets generated using similar methods.

#### 4.7.4.3 Sensitivity

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

*Detection Limits*

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

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

Laboratory results are reported according to rules that provide established certainty of detection and RLs. The result for an analyte is flagged with a "U" if that analyte was not detected, or qualified with a "J" flag if associated QC results fall outside the appropriate tolerance limits. Also, if an analyte is present at a concentration between the MDL and the RL, the analytical result is flagged with a "J," indicating an estimated quantity. Qualifying the result as an estimated concentration reflects increased uncertainty in the reported value.

RLs for the modified methods identified in Table 2-2 are evaluated through the analysis of RL-LCS and RL-MS samples created by LLI. As discussed previously the method modifications for herbicides, pesticides, and PCB/PCTs were not verified. The nondetect reporting limits for these methods have been adjusted accordingly. The adjusted RLs will be reviewed on a per sample basis to determine whether the DQOs were met for the sample locations and to identify possible future re-sampling during subsequent data gap evaluations.

Qualifiers were applied to applicable sample results by the laboratory and identified during the validation process based on sample results being reported as detected below the RL/MDL. This does not indicate a deficiency with the data but simply that the results are below the RLs/MDLs. Details of the validation and the number of results qualified are discussed in detail in the DUAR and laboratory validation reports in Appendix C.

In summary, for all methods analyzed for NBZ samples, results for some of the analytes were qualified as estimated due to RL criteria failure for dioxins, fluoride/nitrate, metals, mercury, EFH, pesticides, PCB/PCTs , one VOC, one SVOC, SVOC SIM, formaldehyde, and cyanide results. For the data validated in this TM, RLs for a majority of the sample results were low enough to compare to the RLs stated in the WP/FSAP (CDM 2011). RLs above those stated in the WP/FSAP (CDM 2011) will be evaluated on a case by case basis to see if resampling is required.

The RLs for this project are lower than "normal" environmental data analyses for most classes of compounds. Some analytical laboratory methods were modified in order to achieve the lowest practicable RLs in an attempt to comply with the AOC. All modified analyses have undergone studies

evaluating the effect of the modifications on precision and accuracy. An independent study evaluating the precision and accuracy of the modified herbicide method has been completed. Review of the herbicide results indicate that the method modifications did not achieve precision and accuracy goals at this lower reporting limit for herbicides, pesticides and PCB/PCTs. Nondetect RLs for these data have been adjusted accordingly. These results are still considered usable for project decisions.

## 4.8 Review of Selected Validation Reports

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

## 4.9 Data Completeness

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

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

***Equation A.***

$$\%\text{Completeness} = C_x \frac{100}{n}$$

Where:

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

***Equation B.***

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

Where:

V = number of measurements judged valid
n' = total number of measurements made

The overall completeness goal, as defined in the WP/FSAP (CDM 2011), for this sampling event is 90 percent for each analytical test for all project data.

A total of 224 NBZ soil samples including the field duplicates were collected and analyzed. As discussed in Section 2.8, a total of 196 locations were sampled in the NBZ. A total of three locations were not sampled due to proximity to the Golden Eagle nest (SL-093 and SL-098) and one location for shallow refusal (SL-041). Nine locations were relocated due to close proximity to a Golden Eagle Nest. Thirty-eight shallow refusals were encountered during the sampling. Of the 38 shallow refusals, 37 of these locations were sampled as surface only and one location only was not sampled for either surface or subsurface. The number of subsurface samples to be collected at each location was not pre-determined because the total depth of each boring varies depending on the local geology. The completeness goal for the actual number of samples collected compared to the number of samples planned is considered acceptable as a sample was collected from each location (depending on shallow refusal).

The completeness goal achieved for acceptable data was 99.9 percent of the number of measurements judged to be valid versus the total number of measurements made for all NBZ samples analyzed. Table 4-5 summarizes all results that were estimated or rejected.

The following NBZ individual analyte results were rejected per analyses:

- Method 8270C
  - Ten out of 10,700 SVOC results (0.09 percent)

**Table 4-5 Summary of Data Completeness Following Data Validation – NBZ**

| Analyte | Number of Analyte Detections Without Qualifiers | Number of Estimated Results | Number of Rejected Results | Number of Nondetect Results | Number of Estimated Nondetect Results | Total Analytes Detect and Nondetect | Percent of Analyte Results Judged Valid Versus Total Analyte Results Collected |
|---|---|---|---|---|---|---|---|
| Dioxins | 276 | 1,502 | | 1,840 | 20 | 3,638 | 100 |
| NDMA | 3 | | | 108 | 2 | 113 | 100 |
| Formaldehyde | | 2 | | 110 | 1 | 113 | 100 |
| Cyanide | 3 | 8 | | 99 | | 110 | 100 |
| Fluoride, Nitrate | 115 | 69 | | 174 | | 358 | 100 |
| Hexavalent Chromium | | | | 214 | | 214 | 100 |
| Mercury | 8 | 5 | | 201 | | 214 | 100 |
| Metals – 6010B | | | | | | | 100 |
| Metals – 6020 | 4,792 | 606 | | 828 | 194 | 6,420 | 100 |
| Perchlorate-314 | 1 | | | 213 | | 214 | 100 |
| Perchlorate-6850 | | | | 39 | | 39 | 100 |
| Alcohols, terphenyls | | 1 | | 584 | | 585 | 100 |
| Energetics | | | | 1,980 | | 1,980 | 100 |
| Total Petroleum Hydrocarbons, glycols | | | | 249 | | 249 | 100 |
| Total Petroleum Hydrocarbons, EFH | 314 | 117 | | 229 | | 660 | 100 |
| Total Petroleum Hydrocarbons, GRO | 3 | | | 47 | | 50 | 100 |
| PCBs/PCTs | 73 | 29 | | 2,390 | 76 | 2,568 | 100 |
| Pesticides | 224 | 74 | | 3,173 | 36 | 3,507 | 100 |
| Herbicides | 3 | | | 1,635 | 32 | 1,670 | 100 |
| Volatiles | | 1 | | 266 | 1 | 268 | 100 |
| Volatiles – 1,4 Dioxane | | | | 4 | | 4 | 100 |
| Semivolatiles | | 1 | 10 | 10,613 | 76 | 10,700 | 99.91 |
| Semivolatiles SIM | 493 | 503 | | 4,338 | 16 | 5,350 | 100 |
| **Completeness Total for All NBZ Samples Collected and Judged Valid** | | | | | | | **99.91** |

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

Sampling deviations from procedures described in the WP/FSAP (CDM 2011) are discussed in Section 2.8 of this TM. Deviations did not impact DQOs for this sampling event. The data reported and not rejected are suitable for their intended use for characterization of Area IV of SSFL. The DQIs identified in the WP/FSAP (CDM 2011) met appropriate criteria. The achievement of the completeness goals for the data indicates a sufficient amount of usable data has been generated for project decisions.

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

Over 99 percent of the data validated for NBZ, and reported in this TM, are suitable for their intended use for site characterization. Rejected sample results are not suitable for project use. The rejected analyte results do not impact achievement of the overall project objectives. The RLs reported generally met the expected limits proposed by the analytical laboratory in their subcontract agreement with CDM Smith. Some RLs were adjusted for herbicides, pesticides, and PCB/PCT results. These adjusted RLs and other RLs above project goals will be evaluated to see if resampling would be required.

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

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

# Section 5
# References


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# Appendix A
# Analytical Results Tables

## SSFL Main Qualification Definitions and Notes

**NOTE: Reporting Limits were adjusted for pesticides, herbicides, PCBs/PCT. Affected sample results have been qualified with a "Y" qualifier. Please see the main report for details.**

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

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

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

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

**S –** Laboratory applied qualifier due to improper preparation procedure.

## SSFL Specific Qualification Definitions

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

Appendix A1
Analytical Method, CAS Number and Chemical Name
Subarea NBZ

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

Appendix A1
Analytical Method, CAS Number and Chemical Name
Subarea NBZ

| | | | |
|---|---|---|---|
| 8330A | 78-11-5 | Pentaerythritol Tetranitrate | |
| 8330A | 88-72-2 | 2-Nitrotoluene | |
| 8330A | 99-08-1 | 3-Nitrotoluene | |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | |
| 8330A | 99-99-0 | 4-Nitrotoluene | |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | |
| 8330A | 98-95-3 | Nitrobenzene | |
| 8330A | 99-65-0 | m-Dinitrobenzene | |
| 8151A | 120-36-5 | Dichlorprop | |
| 8151A | 1918-00-9 | Dicamba | |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | |
| 8151A | 93-65-2 | Methylchlorophenoxypropionic acid | MCPP |
| 8151A | 93-72-1 | 2,4,5-Trichlorophenoxyacetic acid | Silvex (2,4,5-TP) |
| 8151A | 93-76-5 | 2,4,5-Trichlorophenoxyacetic Acid | 2,4,5-T |
| 8151A | 94-74-6 | 2-Methyl-4-Chlorophenoxyacetic Acid | MCPA |
| 8151A | 94-75-7 | Dichlorophenoxyacetic Acid | 2,4-D |
| 8151A | 94-82-6 | 4-(2,4-dichlorophenoxy)butanoic acid | 2,4 DB |
| 8081A | 8001-35-2 | Chlorinated Camphene | Toxaphene |
| 8081A | 1024-57-3 | Heptachlor Epoxide | |
| 8081A | 1031-07-8 | Endosulfan Sulfate | |
| 8081A | 2385-85-5 | Mirex | |
| 8081A | 309-00-2 | Aldrin | |
| 8081A | 319-84-6 | Alpha-BHC | |
| 8081A | 319-85-7 | Beta-BHC | |
| 8081A | 319-86-8 | Delta-BHC | |
| 8081A | 33213-65-9 | Endosulfan II | |
| 8081A | 50-29-3 | 4,4'-DDT | |
| 8081A | 53494-70-5 | Endrin Ketone | |
| 8081A | 57-74-9 | Chlordane | |
| 8081A | 58-89-9 | Gamma-BHC (Lindane) | |
| 8081A | 60-57-1 | Dieldrin | |
| 8081A | 72-20-8 | Endrin | |
| 8081A | 72-43-5 | Methoxychlor | |
| 8081A | 72-54-8 | 4,4'-DDD | |
| 8081A | 72-55-9 | 4,4'-DDE | |
| 8081A | 7421-93-4 | Endrin Aldehyde | |
| 8081A | 76-44-8 | Heptachlor | |
| 8081A | 959-98-8 | Endosulfan I | |
| 1613B | 1746-01-6 | 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 2,3,7,8-TCDD |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | 1,2,3,7,8,9-HxCDD |
| 1613B | 3268-87-9 | 1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin | OCDD |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | 1,2,3,4,6,7,8-HpCDD |
| 1613B | 39001-02-0 | 1,2,3,4,6,7,8,9-Octachlorodibenzofuran | OCDF |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | 1,2,3,4,7,8-HxCDD |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | 1,2,3,7,8-PeCDD |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | 2,3,7,8-TCDF |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 1,2,3,4,7,8,9-HpCDF |
| 1613B | 57117-31-4 | 2,3,4,7,8-Pentachlorodibenzofuran | 2,3,4,7,8-PeCDF |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | 1,2,3,7,8-PeCDF |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-Hexachlorodibenzofuran | 1,2,3,6,7,8-HxCDF |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | 1,2,3,6,7,8-HxCDD |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-Hexachlorodibenzofuran | 2,3,4,6,7,8-HxCDF |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 1,2,3,4,6,7,8-HpCDF |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-Hexachlorodibenzofuran | 1,2,3,4,7,8-HxCDF |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-Hexachlorodibenzofuran | 1,2,3,7,8,9-HxCDF |
| 8082 | 11096-82-5 | Aroclor 1260 | |
| 8082 | 11097-69-1 | Aroclor 1254 | |
| 8082 | 11100-14-4 | Aroclor 1268 | |
| 8082 | 11104-28-2 | Aroclor 1221 | |
| 8082 | 11126-42-4 | Aroclor 5460 | |
| 8082 | 11141-16-5 | Aroclor 1232 | |
| 8082 | 12642-23-8 | Aroclor 5442 | |

Appendix A1
Analytical Method, CAS Number and Chemical Name
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| | | | |
|---|---|---|---|
| 8082 | 12672-29-6 | Aroclor 1248 | |
| 8082 | 12674-11-2 | Aroclor 1016 | |
| 8082 | 37324-23-5 | Aroclor 1262 | |
| 8082 | 53469-21-9 | Aroclor 1242 | |
| 8082 | 63496-31-1 | Aroclor 5432 | |
| 1625C | 62-75-9 | N-Nitrosodimethylamine | |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | |
| 8270C | 98-95-3 | Nitrobenzene | |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | |
| 8270C | 87-68-3 | Hexachlorobutadiene | |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | |
| 8270C | 100-01-6 | 4-Nitroaniline | |
| 8270C | 100-02-7 | 4-Nitrophenol | |
| 8270C | 101-55-3 | 4-Bromophenyl Phenyl Ether | |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | |
| 8270C | 106-44-5 | 4-Methylphenol | |
| 8270C | 106-47-8 | 4-Chloroaniline | |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | |
| 8270C | 108-95-2 | Phenol | |
| 8270C | 111-44-4 | Bis(2-Chloroethyl) ether | |
| 8270C | 111-91-1 | Bis(2-Chloroethoxy) methane | |
| 8270C | 117-81-7 | Bis(2-Ethylhexyl) phthalate | |
| 8270C SIM | 117-81-7 | Bis(2-Ethylhexyl) phthalate | |
| 8270C | 117-84-0 | Di-N-Octyl Phthalate | |
| 8270C SIM | 117-84-0 | Di-N-Octyl Phthalate | |
| 8270C | 118-74-1 | Hexachlorobenzene | |
| 8270C SIM | 120-12-7 | Anthracene | |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | |
| 8270C | 129-00-0 | Pyrene | |
| 8270C SIM | 129-00-0 | Pyrene | |
| 8270C | 131-11-3 | Dimethylphthalate | |
| 8270C SIM | 131-11-3 | Dimethylphthalate | |
| 8270C | 132-64-9 | Dibenzofuran | |
| 8270C | 191-24-2 | Benzo(g,h,i)perylene | |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | |
| 8270C | 193-39-5 | Indeno(1,2,3-Cd)Pyrene | |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-Cd)Pyrene | |
| 8270C | 205-99-2 | Benzo(b)fluoranthene | |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | |
| 8270C | 206-44-0 | Fluoranthene | |
| 8270C SIM | 206-44-0 | Fluoranthene | |
| 8270C | 207-08-9 | Benzo(k)fluoranthene | |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | |
| 8270C SIM | 208-96-8 | Acenaphthylene | |
| 8270C | 218-01-9 | Chrysene | |
| 8270C SIM | 218-01-9 | Chrysene | |
| 8270C | 39638-32-9 | bis(2-Chloroisopropyl) ether | |
| 8270C | 50-32-8 | Benzo(a)pyrene | |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | |
| 8270C | 534-52-1 | 4,6-Dinitro-2-Methylphenol | |
| 8270C | 53-70-3 | Dibenzo(a,h)anthracene | |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | |
| 8270C | 56-55-3 | Benzo(a)anthracene | |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | |
| 8270C | 59-50-7 | 4-Chloro-3-Methylphenol | |
| 8270C | 621-64-7 | N-Nitroso-Di-N-Propylamine | |
| 8270C | 62-53-3 | Aniline | |
| 8270C | 65-85-0 | Benzoic Acid | |

Appendix A1
Analytical Method, CAS Number and Chemical Name
Subarea NBZ

| | | | |
|---|---|---|---|
| 8270C | 67-72-1 | Hexachloroethane | |
| 8270C | 7005-72-3 | 4-Chlorophenyl Phenylether | |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | |
| 8270C | 78-59-1 | Isophorone | |
| 8270C SIM | 83-32-9 | Acenaphthene | |
| 8270C | 84-66-2 | Diethylphthalate | |
| 8270C SIM | 84-66-2 | Diethylphthalate | |
| 8270C | 84-74-2 | Di-N-Butylphthalate | |
| 8270C SIM | 84-74-2 | Di-N-Butylphthalate | |
| 8270C | 85-01-8 | Phenanthrene | |
| 8270C SIM | 85-01-8 | Phenanthrene | |
| 8270C | 85-68-7 | Butylbenzylphthalate | |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | |
| 8270C SIM | 86-73-7 | Fluorene | |
| 8270C | 86-74-8 | Carbazole | |
| 8270C | 87-86-5 | Pentachlorophenol | |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | |
| 8270C | 88-74-4 | 2-Nitroaniline | |
| 8270C | 88-75-5 | 2-Nitrophenol | |
| 8270C | 90-12-0 | 1-Methylnaphthalene | |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | |
| 8270C | 91-20-3 | Naphthalene | |
| 8270C SIM | 91-20-3 | Naphthalene | |
| 8270C | 91-57-6 | 2-Methylnaphthalene | |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | |
| 8270C | 91-58-7 | 2-Chloronaphthalene | |
| 8270C | 91-94-1 | 3,3`-Dichlorobenzidine | |
| 8270C | 92-87-5 | Benzidine | |
| 8270C | 95-48-7 | 2-Methylphenol | |
| 8270C | 95-57-8 | 2-Chlorophenol | |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | |
| 8270C | 99-09-2 | 3-Nitroaniline | |
| 8270C | 100-51-6 | Benzyl Alcohol | |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | |
| 8015B | GROC5C12 | Gasoline Range Organices (C5-C12) | GRO (C5-C12) |
| 8015B | PHCC15C20 | Extractable Fuel Hydrocarbons (C15-C20) | EFH (C15-C20) |
| 8015B | PHCC21C30 | Extractable Fuel Hydrocarbons (C21-C30) | EFH (C21-C30) |
| 8015B | PHCC30C40 | Extractable Fuel Hydrocarbons (C30-C40) | EFH (C30-C40) |
| 8015B | PHCC8C11 | Extractable Fuel Hydrocarbons (C8-C11) | EFH (C8-C11) |
| 8260B | 106-46-7 | 1,4-Dichlorobenzene | |
| 8260B | 120-82-1 | 1,2,4-Trichlorobenzene | |
| 8260B | 541-73-1 | 1,3-Dichlorobenzene | |
| 8260B | 87-68-3 | Hexachlorobutadiene | |
| 8260B | 95-50-1 | 1,2-Dichlorobenzene | |
| 8260B | 99-87-6 | Isopropyltoluene | |
| 8260B | 100-41-4 | Ethylbenzene | |
| 8260B | 100-42-5 | Styrene | |
| 8260B | 10061-01-5 | cis-1,3-Dichloropropene | |
| 8260B | 10061-02-6 | trans-1,3-Dichloropropene | |
| 8260B | 103-65-1 | N-Propylbenzene | |
| 8260B | 104-51-8 | N-Butylbenzene | |
| 8260B | 106-43-4 | 4-Chlorotoluene | |
| 8260B | 106-93-4 | 1,2-Dibromoethane | |
| 8260B | 107-06-2 | 1,2-Dichloroethane | |
| 8260B | 108-10-1 | 4-Methyl-2-Pentanone | |
| 8260B | 108-67-8 | 1,3,5-Trimethylbenzene | |
| 8260B | 108-86-1 | Bromobenzene | |
| 8260B | 108-88-3 | Toluene | |
| 8260B | 108-90-7 | Chlorobenzene | |
| 8260B | 110-75-8 | 2-Chloroethyl Vinyl Ether | |
| 8260B SIM | 123-91-1 | 1,4-Dioxane | |
| 8260B | 124-48-1 | Dibromochloromethane | |

Appendix A1
Analytical Method, CAS Number and Chemical Name
Subarea NBZ

| | | | |
|---|---|---|---|
| 8260B | 127-18-4 | Tetrachloroethene | |
| 8260B | 135-98-8 | sec-Butylbenzene | |
| 8260B | 142-28-9 | 1,3-Dichloropropane | |
| 8260B | 156-59-2 | cis-1,2-Dichloroethene | |
| 8260B | 156-60-5 | trans-1,2-Dichloroethene | |
| 8260B | 1634-04-4 | Methyl tert-Butyl Ether | |
| 8260B | 179601-23-1 | m,p-Xylene | |
| 8260B | 56-23-5 | Carbon tetrachloride | |
| 8260B | 563-58-6 | 1,1-Dichloropropene | |
| 8260B | 591-78-6 | 2-Hexanone | |
| 8260B | 594-20-7 | 2,2-Dichloropropane | |
| 8260B | 630-20-6 | 1,1,1,2-Tetrachloroethane | |
| 8260B | 67-64-1 | Acetone | |
| 8260B | 67-66-3 | Chloroform | |
| 8260B | 71-43-2 | Benzene | |
| 8260B | 71-55-6 | 1,1,1-Trichloroethane | |
| 8260B | 74-83-9 | Bromomethane | |
| 8260B | 74-87-3 | Chloromethane | |
| 8260B | 74-95-3 | Dibromomethane | |
| 8260B | 74-97-5 | Bromochloromethane | |
| 8260B | 75-00-3 | Chloroethane | |
| 8260B | 75-01-4 | Vinyl Chloride | |
| 8260B | 75-09-2 | Methylene chloride | |
| 8260B | 75-25-2 | Bromoform | |
| 8260B | 75-27-4 | Bromodichloromethane | |
| 8260B | 75-34-3 | 1,1-Dichloroethane | |
| 8260B | 75-35-4 | 1,1-Dichloroethene | |
| 8260B | 75-69-4 | Trichlorofluoromethane | |
| 8260B | 75-71-8 | Dichlorodifluoromethane | |
| 8260B | 75-88-7 | 1,1,1-Trichloro-2,2,2-trifluoroethane | Freon 113a |
| 8260B | 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | Freon 113 |
| 8260B | 78-87-5 | 1,2-Dichloropropane | |
| 8260B | 78-93-3 | 2-Butanone | |
| 8260B | 79-00-5 | 1,1,2-Trichloroethane | |
| 8260B | 79-01-6 | Trichloroethene | |
| 8260B | 79-34-5 | 1,1,2,2-Tetrachloroethane | |
| 8260B | 79-38-9 | Chlorotrifluoroethene | |
| 8260B | 87-61-6 | 1,2,3-Trichlorobenzene | |
| 8260B | 95-47-6 | o-Xylene | |
| 8260B | 95-49-8 | 2-Chlorotoluene | |
| 8260B | 95-63-6 | 1,2,4-Trimethylbenzene | |
| 8260B | 96-12-8 | 1,2-Dibromo-3-chloropropane | |
| 8260B | 96-18-4 | 1,2,3-Trichloropropane | |
| 8260B | 98-06-6 | tert-Butylbenzene | |
| 8260B | 98-82-8 | Isopropylbenzene | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-012-NBZ-SB-1.0 | SL-020-NBZ-SB-3.0 | SL-039-NBZ-SB-2.5 | SL-087-NBZ-SS-0.5 |
| | | | Sample Type | N | N | N | N |
| | | | Sample Date | 04/19/2012 | 04/04/2012 | 03/27/2012 | 04/19/2012 |
| | | | SDG | 12D176 | 12D031 | 12C273 | 12D176 |
| | | | Start Depth | 1 | 3 | 2.5 | 0 |
| | | | End Depth | 1 | 3 | 2.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | |
| 8260B SIM | 123-91-1 | 1,4-Dioxane | µg/kg | 9.4 U | 11 U | 12 U | 13 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-002-NBZ-SS-0.0-0.5 | SL-002-NBZ-SB-4.0-5.0 | SL-002-NBZ-SB-7.5-8.5 | SL-003-NBZ-SS-0.0-0.5 | SL-003-NBZ-SB-4.0-5.0 | SL-005-NBZ-SB-4.0-5.0 | SL-006-NBZ-SB-3.0-4.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/13/2012 | 03/13/2012 |
| | | | SDG | 12C096 | 12C096 | 12C096 | 12C096 | 12C096 | 12C106 | 12C106 |
| | | | Start Depth | 0 | 4 | 7.5 | 0 | 4 | 4 | 3 |
| | | | End Depth | 0.5 | 5 | 8.5 | 0.5 | 5 | 5 | 4 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B | 64-17-5 | Ethanol | µg/kg | 520 U | 540 U | 540 U | 520 U | 530 U | 550 U | 530 U |
| 8015B | 67-56-1 | Methanol | µg/kg | 520 U | 540 U | 540 U | 520 U | 530 U | 550 U | 530 U |
| 8015B | 67-63-0 | 2-Propanol | µg/kg | 520 U | 540 U | 540 U | 520 U | 530 U | 550 U | 530 U |

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

Appendix A3
Alcohols-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-007-NBZ-SB-4.0-5.0 | SL-007-NBZ-SB-9.0-10.0 | SL-008-NBZ-SB-4.0-5.0 | SL-010-NBZ-SB-4.0-5.0 | SL-012-NBZ-SB-0.5-1.5 | SL-015-NBZ-SS-0.0-0.5 | SL-019-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/12/2012 | 03/12/2012 | 04/18/2012 | 03/12/2012 | 04/19/2012 | 03/13/2012 | 03/13/2012 |
| | | | SDG | 12C096 | 12C096 | 12D166 | 12C096 | 12D176 | 12C106 | 12C106 |
| | | | Start Depth | 4 | 9 | 4 | 4 | 0.5 | 0 | 0 |
| | | | End Depth | 5 | 10 | 5 | 5 | 1.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B | 64-17-5 | Ethanol | µg/kg | 540 U | 550 U | 530 U | 540 U | 600 U | 510 U | 520 U |
| 8015B | 67-56-1 | Methanol | µg/kg | 540 U | 550 U | 530 U | 540 U | 600 U | 510 U | 520 U |
| 8015B | 67-63-0 | 2-Propanol | µg/kg | 540 U | 550 U | 530 U | 540 U | 600 U | 510 U | 520 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-019-NBZ-SB-3.0-4.0 | SL-020-NBZ-SB-2.5-3.5 | SL-021-NBZ-SS-0.0-0.5 | SL-021-NBZ-SB-4.0-5.0 | SL-022-NBZ-SS-0.0-0.5 | SL-022-NBZ-SB-4.0-5.0 | SL-022-NBZ-SB-9.0-10.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/13/2012 | 04/04/2012 | 03/13/2012 | 03/13/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 |
| | | | SDG | 12C106 | 12D031 | 12C106 | 12C106 | 12C121 | 12C121 | 12C121 |
| | | | Start Depth | 3 | 2.5 | 0 | 4 | 0 | 4 | 9 |
| | | | End Depth | 4 | 3.5 | 0.5 | 5 | 0.5 | 5 | 10 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B | 64-17-5 | Ethanol | µg/kg | 530 U | 570 U | 510 U | 520 U | 520 U | 520 U | 520 U |
| 8015B | 67-56-1 | Methanol | µg/kg | 530 U | 570 U | 510 U | 520 U | 520 U | 520 U | 520 U |
| 8015B | 67-63-0 | 2-Propanol | µg/kg | 530 U | 570 U | 510 U | 520 U | 520 U | 520 U | 520 U |

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

Appendix A3
Alcohols-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-023-NBZ-SS-0.0-0.5 | SL-023-NBZ-SB-4.0-5.0 | SL-023-NBZ-SB-8.5-9.5 | SL-024-NBZ-SS-0.0-0.5 | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 |
| | | | SDG | 12C121 | 12C121 | 12C121 | 12C121 | 12D004 | 12D004 | 12D004 |
| | | | Start Depth | 0 | 4 | 8.5 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 5 | 9.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B | 64-17-5 | Ethanol | µg/kg | 520 U | 520 U | 530 U | 520 U | 540 U | 540 U | 580 U |
| 8015B | 67-56-1 | Methanol | µg/kg | 520 U | 520 U | 530 U | 520 U | 540 U | 540 U | 580 U |
| 8015B | 67-63-0 | 2-Propanol | µg/kg | 520 U | 520 U | 530 U | 520 U | 540 U | 540 U | 580 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-028-NBZ-SS-0.0-0.5 | SL-029-NBZ-SS-0.0-0.5 | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 | SL-034-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/02/2012 | 03/15/2012 | 03/14/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 |
| | | | SDG | 12D004 | 12C135 | 12C121 | 12D018 | 12D018 | 12D018 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B | 64-17-5 | Ethanol | µg/kg | 550 U | 520 U | 510 U | 540 U | 570 U | 550 U | 600 U |
| 8015B | 67-56-1 | Methanol | µg/kg | 550 U | 520 U | 510 U | 540 U | 570 U | 550 U | 600 U |
| 8015B | 67-63-0 | 2-Propanol | µg/kg | 550 U | 520 U | 510 U | 540 U | 570 U | 550 U | 600 U |

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

Appendix A3
Alcohols-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-035-NBZ-SS-0.0-0.5 | SL-035-NBZ-SB-2.0-3.0 | SL-036-NBZ-SB-4.0-5.0 | SL-036-NBZ-SB-7.5-8.5 | SL-037-NBZ-SB-3.0-4.0 | SL-039-NBZ-SB-2.0-3.0 | SL-040-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 04/03/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 |
| | | | SDG | 12D018 | 12D018 | 12C285 | 12C285 | 12C285 | 12C273 | 12C285 |
| | | | Start Depth | 0 | 2 | 4 | 7.5 | 3 | 2 | 0 |
| | | | End Depth | 0.5 | 3 | 5 | 8.5 | 4 | 3 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B | 64-17-5 | Ethanol | µg/kg | 570 U | 530 U | 570 U | 650 U | 560 U | 570 U | 560 U |
| 8015B | 67-56-1 | Methanol | µg/kg | 570 U | 530 U | 570 U | 650 U | 560 U | 570 U | 560 U |
| 8015B | 67-63-0 | 2-Propanol | µg/kg | 570 U | 530 U | 570 U | 650 U | 560 U | 570 U | 560 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | DUP-03-NBZ-QC-032812 | SL-040-NBZ-SB-2.5-3.5 | SL-042-NBZ-SS-0.0-0.5 | SL-043-NBZ-SS-0.0-0.5 | SL-044-NBZ-SS-0.0-0.5 | SL-045-NBZ-SS-0.0-0.5 | SL-045-NBZ-SB-4.0-5.0 |
| | | | Sample Type | FD | N | N | N | N | N | N |
| | | | Sample Date | 03/28/2012 | 03/28/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 | 03/26/2012 | 03/26/2012 |
| | | | SDG | 12C285 | 12C285 | 12C261 | 12C261 | 12C305 | 12C261 | 12C261 |
| | | | Start Depth | 2.5 | 2.5 | 0 | 0 | 0 | 0 | 4 |
| | | | End Depth | 3.5 | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B | 64-17-5 | Ethanol | µg/kg | 530 U | 520 U | 580 U | 560 U | 520 U | 540 U | 530 U |
| 8015B | 67-56-1 | Methanol | µg/kg | 530 U | 520 U | 580 U | 560 U | 520 U | 540 U | 530 U |
| 8015B | 67-63-0 | 2-Propanol | µg/kg | 530 U | 520 U | 580 U | 560 U | 520 U | 540 U | 530 U |

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

Appendix A3
Alcohols-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-046-NBZ-SS-0.0-0.5 | SL-046-NBZ-SB-4.0-5.0 | SL-047-NBZ-SB-4.0-5.0 | SL-048-NBZ-SS-0.0-0.5 | SL-048-NBZ-SB-4.0-5.0 | SL-049-NBZ-SB-2.0-3.0 | SL-050-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/26/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/26/2012 |
| | | | SDG | 12C261 | 12C261 | 12C254 | 12C254 | 12C254 | 12C254 | 12C261 |
| | | | Start Depth | 0 | 4 | 4 | 0 | 4 | 2 | 0 |
| | | | End Depth | 0.5 | 5 | 5 | 0.5 | 5 | 3 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B | 64-17-5 | Ethanol | µg/kg | 590 U | 530 U | 520 U | 570 U | 520 U | 520 U | 550 U |
| 8015B | 67-56-1 | Methanol | µg/kg | 590 U | 530 U | 520 U | 570 U | 520 U | 520 U | 550 U |
| 8015B | 67-63-0 | 2-Propanol | µg/kg | 590 U | 530 U | 520 U | 570 U | 520 U | 520 U | 550 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-051-NBZ-SB-1.5-2.5 | SL-052-NBZ-SS-0.0-0.5 | SL-053-NBZ-SS-0.0-0.5 | SL-053-NBZ-SB-3.5-4.5 | SL-054-NBZ-SS-0.0-0.5 | SL-055-NBZ-SS-0.0-0.5 | SL-056-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/23/2012 | 03/15/2012 | 03/15/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/15/2012 |
| | | | SDG | 12C254 | 12C135 | 12C135 | 12C135 | 12C229 | 12C229 | 12C135 |
| | | | Start Depth | 1.5 | 0 | 0 | 3.5 | 0 | 0 | 0 |
| | | | End Depth | 2.5 | 0.5 | 0.5 | 4.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B | 64-17-5 | Ethanol | µg/kg | 520 U | 510 U | 510 U | 520 U | 540 U | 550 U | 510 U |
| 8015B | 67-56-1 | Methanol | µg/kg | 520 U | 510 U | 510 U | 520 U | 540 U | 550 U | 510 U |
| 8015B | 67-63-0 | 2-Propanol | µg/kg | 520 U | 510 U | 510 U | 520 U | 540 U | 550 U | 510 U |

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

Appendix A3
Alcohols-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-056-NBZ-SB-3.0-4.0 | DUP-02-NBZ-QC-032312 | SL-057-NBZ-SS-0.0-0.5 | SL-058-NBZ-SB-4.0-5.0 | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 | SL-061-NBZ-SB-1.0-2.0 |
| | | | Sample Type | N | FD | N | N | N | N | N |
| | | | Sample Date | 03/15/2012 | 03/23/2012 | 03/23/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/22/2012 |
| | | | SDG | 12C135 | 12C254 | 12C254 | 12C135 | 12C229 | 12C229 | 12C229 |
| | | | Start Depth | 3 | 0 | 0 | 5 | 0 | 0 | 1 |
| | | | End Depth | 4 | 0.5 | 0.5 | 5 | 0.5 | 0.5 | 2 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B | 64-17-5 | Ethanol | µg/kg | 520 U | 530 U | 540 U | 530 U | 540 U | 530 U | 530 U |
| 8015B | 67-56-1 | Methanol | µg/kg | 520 U | 530 U | 540 U | 530 U | 540 U | 530 U | 530 U |
| 8015B | 67-63-0 | 2-Propanol | µg/kg | 520 U | 530 U | 540 U | 530 U | 540 U | 530 U | 530 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-062-NBZ-SB-2.5-3.5 | SL-063-NBZ-SB-0.5-1.5 | SL-064-NBZ-SB-0.5-1.5 | SL-065-NBZ-SB-1.0-2.0 | SL-066-NBZ-SB-2.0-3.0 | SL-067-NBZ-SB-1.5-2.5 | DUP-01-NBZ-QC-031612 |
| | | | Sample Type | N | N | N | N | N | N | FD |
| | | | Sample Date | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/16/2012 | 03/16/2012 |
| | | | SDG | 12C209 | 12C209 | 12C209 | 12C209 | 12C209 | 12C156 | 12C156 |
| | | | Start Depth | 2.5 | 0.5 | 0.5 | 1 | 2 | 1.5 | 2.5 |
| | | | End Depth | 3.5 | 1.5 | 1.5 | 2 | 3 | 2.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B | 64-17-5 | Ethanol | µg/kg | 520 U | 570 U | 530 U | 540 U | 520 U | 540 U | 550 U |
| 8015B | 67-56-1 | Methanol | µg/kg | 520 U | 570 U | 530 U | 540 U | 520 U | 540 U | 550 U |
| 8015B | 67-63-0 | 2-Propanol | µg/kg | 520 U | 570 U | 530 U | 540 U | 520 U | 540 U | 550 U |

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

Appendix A3
Alcohols-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-068-NBZ-SB-2.5-3.5 | SL-069-NBZ-SB-3.0-4.0 | SL-070-NBZ-SS-0.0-0.5 | SL-071-NBZ-SB-4.0-5.0 | SL-072-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-9.0-10.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/16/2012 | 03/20/2012 | 03/20/2012 | 03/19/2012 | 03/16/2012 | 03/19/2012 | 03/19/2012 |
| | | | SDG | 12C156 | 12C182 | 12C182 | 12C164 | 12C156 | 12C164 | 12C164 |
| | | | Start Depth | 2.5 | 3 | 0 | 4 | 4 | 4 | 9 |
| | | | End Depth | 3.5 | 4 | 0.5 | 5 | 5 | 5 | 10 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B | 64-17-5 | Ethanol | µg/kg | 550 U | 520 U | 570 U | 520 U | 560 U | 540 U | 550 U |
| 8015B | 67-56-1 | Methanol | µg/kg | 550 U | 520 U | 570 U | 520 U | 560 U | 540 U | 550 U |
| 8015B | 67-63-0 | 2-Propanol | µg/kg | 550 U | 520 U | 570 U | 520 U | 560 U | 540 U | 550 U |

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

| | | | | | |
|---|---|---|---|---|---|
| | | | Sample Name | SL-074-NBZ-SB-0.5-1.5 | SL-087-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N |
| | | | Sample Date | 03/19/2012 | 04/19/2012 |
| | | | SDG | 12C164 | 12D176 |
| | | | Start Depth | 0.5 | 0 |
| | | | End Depth | 1.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | |
| 8015B | 64-17-5 | Ethanol | µg/kg | 520 U | 630 U |
| 8015B | 67-56-1 | Methanol | µg/kg | 520 U | 630 U |
| 8015B | 67-63-0 | 2-Propanol | µg/kg | 520 U | 630 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-001-NBZ-SS-0.0-0.5 | SL-002-NBZ-SS-0.0-0.5 | SL-002-NBZ-SB-4.0-5.0 | SL-002-NBZ-SB-7.5-8.5 | SL-003-NBZ-SS-0.0-0.5 | SL-003-NBZ-SB-4.0-5.0 | SL-004-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/09/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 04/11/2012 |
| | | | SDG | 12D084 | 12C096 | 12C096 | 12C096 | 12C096 | 12C096 | 12D106 |
| | | | Start Depth | 0 | 0 | 4 | 7.5 | 0 | 4 | 0 |
| | | | End Depth | 0.5 | 0.5 | 5 | 8.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9014 | 57-12-5 | Cyanide | mg/kg | 0.566 U | 0.517 U | 0.541 U | 0.513 J Z | 0.522 U | 0.529 U | 0.613 U |

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

Appendix A4
Cyanide-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-005-NBZ-SB-4.0-5.0 | SL-006-NBZ-SB-3.0-4.0 | SL-007-NBZ-SB-4.0-5.0 | SL-007-NBZ-SB-9.0-10.0 | SL-008-NBZ-SB-4.0-5.0 | DUP-07-NBZ-QC-041012 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | FD |
| | | | Sample Date | 03/13/2012 | 03/13/2012 | 03/12/2012 | 03/12/2012 | 04/18/2012 | 04/10/2012 |
| | | | SDG | 12C106 | 12C106 | 12C096 | 12C096 | 12D166 | 12D092 |
| | | | Start Depth | 4 | 3 | 4 | 9 | 4 | 0 |
| | | | End Depth | 5 | 4 | 5 | 10 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 9014 | 57-12-5 | Cyanide | mg/kg | 0.553 U | 0.532 U | 0.544 U | 0.546 U | 0.528 U | 0.294 J Z |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-009-NBZ-SS-0.0-0.5 | SL-010-NBZ-SB-4.0-5.0 | SL-011-NBZ-SS-0.0-0.5 | SL-012-NBZ-SS-0.0-0.5 | SL-012-NBZ-SB-0.5-1.5 | SL-013-NBZ-SS-0.0-0.5 | SL-014-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/10/2012 | 03/12/2012 | 04/12/2012 | 04/19/2012 | 04/19/2012 | 04/16/2012 | 04/17/2012 |
| | | | SDG | 12D092 | 12C096 | 12D122 | 12D176 | 12D176 | 12D146 | 12D154 |
| | | | Start Depth | 0 | 4 | 0 | 0 | 0.5 | 0 | 0 |
| | | | End Depth | 0.5 | 5 | 0.5 | 0.5 | 1.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9014 | 57-12-5 | Cyanide | mg/kg | 0.356 J Z | 0.539 U | 0.569 U | 0.583 U | 0.598 U | 0.740 U | 0.339 J Z |

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

Appendix A4
Cyanide-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-016-NBZ-SS-0.0-0.5 | SL-017-NBZ-SS-0.0-0.5 | SL-018-NBZ-SS-0.0-0.5 | SL-019-NBZ-SB-3.0-4.0 | SL-020-NBZ-SB-2.5-3.5 | SL-021-NBZ-SB-4.0-5.0 | SL-022-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/20/2012 | 04/19/2012 | 04/20/2012 | 03/13/2012 | 04/04/2012 | 03/13/2012 | 03/14/2012 |
| | | | SDG | 12D192 | 12D176 | 12D192 | 12C106 | 12D031 | 12C106 | 12C121 |
| | | | Start Depth | 0 | 0 | 0 | 3 | 2.5 | 4 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 4 | 3.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9014 | 57-12-5 | Cyanide | mg/kg | 0.631 U | 0.711 | 0.607 U | 0.531 U | 0.566 U | 0.520 U | 0.523 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-022-NBZ-SB-4.0-5.0 | SL-022-NBZ-SB-9.0-10.0 | SL-023-NBZ-SS-0.0-0.5 | SL-023-NBZ-SB-4.0-5.0 | SL-023-NBZ-SB-8.5-9.5 | SL-024-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 |
| | | | SDG | 12C121 | 12C121 | 12C121 | 12C121 | 12C121 | 12C121 |
| | | | Start Depth | 4 | 9 | 0 | 4 | 8.5 | 0 |
| | | | End Depth | 5 | 10 | 0.5 | 5 | 9.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 9014 | 57-12-5 | Cyanide | mg/kg | 0.520 U | 0.524 U | 0.517 U | 0.517 U | 0.527 U | 0.517 U |

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

Appendix A4
Cyanide-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 | SL-028-NBZ-SS-0.0-0.5 | SL-029-NBZ-SS-0.0-0.5 | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 03/15/2012 | 03/14/2012 | 04/03/2012 |
| | | | SDG | 12D004 | 12D004 | 12D004 | 12D004 | 12C135 | 12C121 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9014 | 57-12-5 | Cyanide | mg/kg | 0.545 U | 0.538 U | 0.581 U | 0.551 U | 0.515 U | 0.511 U | 0.542 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 | SL-034-NBZ-SS-0.0-0.5 | SL-035-NBZ-SS-0.0-0.5 | SL-035-NBZ-SB-2.0-3.0 | SL-036-NBZ-SB-4.0-5.0 | SL-036-NBZ-SB-7.5-8.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 03/28/2012 | 03/28/2012 |
| | | | SDG | 12D018 | 12D018 | 12D018 | 12D018 | 12D018 | 12C285 | 12C285 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 2 | 4 | 7.5 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 3 | 5 | 8.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9014 | 57-12-5 | Cyanide | mg/kg | 0.568 U | 0.549 U | 0.598 U | 0.568 U | 0.525 U | 0.567 U | 0.654 U |

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

Appendix A4
Cyanide-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-037-NBZ-SB-3.0-4.0 | SL-038-NBZ-SS-0.0-0.5 | SL-039-NBZ-SB-2.0-3.0 | SL-040-NBZ-SS-0.0-0.5 | DUP-03-NBZ-QC-032812 | SL-040-NBZ-SB-2.5-3.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | FD | N |
| | | | Sample Date | 03/28/2012 | 03/27/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 |
| | | | SDG | 12C285 | 12C273 | 12C273 | 12C285 | 12C285 | 12C285 |
| | | | Start Depth | 3 | 0 | 2 | 0 | 2.5 | 2.5 |
| | | | End Depth | 4 | 0.5 | 3 | 0.5 | 3.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 9014 | 57-12-5 | Cyanide | mg/kg | 0.557 U | 0.603 U | 0.570 U | 0.562 U | 0.531 U | 0.524 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-042-NBZ-SS-0.0-0.5 | SL-043-NBZ-SS-0.0-0.5 | SL-044-NBZ-SS-0.0-0.5 | SL-045-NBZ-SS-0.0-0.5 | SL-045-NBZ-SB-4.0-5.0 | SL-046-NBZ-SS-0.0-0.5 | SL-046-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/26/2012 | 03/29/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 |
| | | | SDG | 12C261 | 12C261 | 12C305 | 12C261 | 12C261 | 12C261 | 12C261 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 4 | 0 | 4 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9014 | 57-12-5 | Cyanide | mg/kg | 0.582 U | 0.557 U | 0.500 U | 0.542 U | 0.526 U | 0.588 U | 0.529 U |

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

Appendix A4
Cyanide-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-047-NBZ-SB-4.0-5.0 | SL-048-NBZ-SS-0.0-0.5 | SL-048-NBZ-SB-4.0-5.0 | SL-049-NBZ-SB-2.0-3.0 | SL-050-NBZ-SS-0.0-0.5 | SL-051-NBZ-SB-1.5-2.5 | SL-052-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/26/2012 | 03/23/2012 | 03/15/2012 |
| | | | SDG | 12C254 | 12C254 | 12C254 | 12C254 | 12C261 | 12C254 | 12C135 |
| | | | Start Depth | 4 | 0 | 4 | 2 | 0 | 1.5 | 0 |
| | | | End Depth | 5 | 0.5 | 5 | 3 | 0.5 | 2.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9014 | 57-12-5 | Cyanide | mg/kg | 0.524 U | 0.744 | 0.524 U | 0.519 U | 0.546 U | 0.518 U | 0.512 U |

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

| | | | Sample Name | SL-053-NBZ-SS-0.0-0.5 | SL-053-NBZ-SB-3.5-4.5 | SL-054-NBZ-SS-0.0-0.5 | SL-055-NBZ-SS-0.0-0.5 | SL-056-NBZ-SS-0.0-0.5 | SL-056-NBZ-SB-3.0-4.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/15/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/15/2012 | 03/15/2012 |
| | | | SDG | 12C135 | 12C135 | 12C229 | 12C229 | 12C135 | 12C135 |
| | | | Start Depth | 0 | 3.5 | 0 | 0 | 0 | 3 |
| | | | End Depth | 0.5 | 4.5 | 0.5 | 0.5 | 0.5 | 4 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 9014 | 57-12-5 | Cyanide | mg/kg | 0.510 U | 0.520 U | 4.08 | 0.554 U | 0.514 U | 0.522 U |

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

Appendix A4
Cyanide-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | DUP-02-NBZ-QC-032312 | SL-057-NBZ-SS-0.0-0.5 | SL-058-NBZ-SB-4.0-5.0 | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 | SL-061-NBZ-SB-1.0-2.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | FD | N | N | N | N | N |
| | | | Sample Date | 03/23/2012 | 03/23/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/22/2012 |
| | | | SDG | 12C254 | 12C254 | 12C135 | 12C229 | 12C229 | 12C229 |
| | | | Start Depth | 0 | 0 | 5 | 0 | 0 | 1 |
| | | | End Depth | 0.5 | 0.5 | 5 | 0.5 | 0.5 | 2 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 9014 | 57-12-5 | Cyanide | mg/kg | 0.534 U | 0.539 U | 0.527 U | 0.545 U | 0.529 U | 0.525 U |

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

| | | | Sample Name | SL-062-NBZ-SB-2.5-3.5 | SL-063-NBZ-SB-0.5-1.5 | SL-064-NBZ-SB-0.5-1.5 | SL-065-NBZ-SB-1.0-2.0 | SL-066-NBZ-SB-2.0-3.0 | SL-067-NBZ-SB-1.5-2.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/16/2012 |
| | | | SDG | 12C209 | 12C209 | 12C209 | 12C209 | 12C209 | 12C156 |
| | | | Start Depth | 2.5 | 0.5 | 0.5 | 1 | 2 | 1.5 |
| | | | End Depth | 3.5 | 1.5 | 1.5 | 2 | 3 | 2.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 9014 | 57-12-5 | Cyanide | mg/kg | 0.518 U | 0.569 U | 0.525 U | 0.542 U | 0.515 U | 0.543 U |

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

Appendix A4
Cyanide-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | DUP-01-NBZ-QC-031612 | SL-068-NBZ-SB-2.5-3.5 | SL-069-NBZ-SB-3.0-4.0 | SL-071-NBZ-SB-4.0-5.0 | SL-072-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | FD | N | N | N | N | N |
| | | | Sample Date | 03/16/2012 | 03/16/2012 | 03/20/2012 | 03/19/2012 | 03/16/2012 | 03/19/2012 |
| | | | SDG | 12C156 | 12C156 | 12C182 | 12C164 | 12C156 | 12C164 |
| | | | Start Depth | 2.5 | 2.5 | 3 | 4 | 4 | 4 |
| | | | End Depth | 3.5 | 3.5 | 4 | 5 | 5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 9014 | 57-12-5 | Cyanide | mg/kg | 0.552 U | 0.549 U | 0.525 U | 0.523 U | 0.559 U | 0.539 U |

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

| | | | Sample Name | SL-073-NBZ-SB-9.0-10.0 | SL-074-NBZ-SB-0.5-1.5 | SL-075-NBZ-SS-0.0-0.5 | SL-076-NBZ-SS-0.0-0.5 | SL-077-NBZ-SS-0.0-0.5 | SL-077-NBZ-SB-2.5-3.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/19/2012 | 03/19/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 |
| | | | SDG | 12C164 | 12C164 | 12C182 | 12C182 | 12C182 | 12C182 |
| | | | Start Depth | 9 | 0.5 | 0 | 0 | 0 | 2.5 |
| | | | End Depth | 10 | 1.5 | 0.5 | 0.5 | 0.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 9014 | 57-12-5 | Cyanide | mg/kg | 0.551 U | 0.519 U | 0.548 U | 0.573 U | 0.581 U | 0.532 U |

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

Appendix A4
Cyanide-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-078-NBZ-SS-0.0-0.5 | SL-079-NBZ-SS-0.0-0.5 | SL-080-NBZ-SS-0.0-0.5 | SL-081-NBZ-SS-0.0-0.5 | SL-082-NBZ-SS-0.0-0.5 | SL-082-NBZ-SB-2.5-3.5 | SL-083-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/27/2012 | 03/30/2012 | 04/20/2012 | 04/18/2012 | 04/18/2012 | 04/18/2012 | 04/18/2012 |
| | | | SDG | 12C273 | 12C321 | 12D192 | 12D166 | 12D166 | 12D166 | 12D166 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 3.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9014 | 57-12-5 | Cyanide | mg/kg | 0.565 U | 0.581 U | 0.431 J Z | 0.335 J Z | 0.573 U | 0.569 U | 0.572 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-084-NBZ-SS-0.0-0.5 | SL-085-NBZ-SS-0.0-0.5 | SL-086-NBZ-SS-0.0-0.5 | SL-087-NBZ-SS-0.0-0.5 | SL-088-NBZ-SS-0.0-0.5 | SL-089-NBZ-SS-0.0-0.5 | SL-090-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/10/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 | 04/17/2012 | 04/20/2012 | 04/17/2012 |
| | | | SDG | 12D092 | 12D092 | 12D176 | 12D176 | 12D154 | 12D192 | 12D154 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9014 | 57-12-5 | Cyanide | mg/kg | 0.499 J Z | 0.591 U | 0.327 J Z | 0.631 U | 0.579 J Z | 0.566 U | 0.581 U |

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

Appendix A4
Cyanide-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-091-NBZ-SS-0.0-0.5 | SL-091-NBZ-SB-4.0-5.0 | DUP-05-NBZ-QC-032912 | SL-092-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | FD | N |
| | | | Sample Date | 03/29/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 |
| | | | SDG | 12C305 | 12C305 | 12C305 | 12C305 |
| | | | Start Depth | 0 | 4 | 0 | 0 |
| | | | End Depth | 0.5 | 5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | |
| 9014 | 57-12-5 | Cyanide | mg/kg | 0.500 U | 0.500 U | 0.500 U | 0.500 U |

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

| | | | | Sample Name | SL-001-NBZ-SS-0.0-0.5 | SL-002-NBZ-SS-0.0-0.5 | SL-002-NBZ-SB-4.0-5.0 | SL-002-NBZ-SB-7.5-8.5 | SL-003-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 04/09/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 |
| | | | | SDG | DX168 | DX159 | DX159 | DX159 | DX159 |
| | | | | Start Depth | 0 | 0 | 4 | 7.5 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 5 | 8.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.11 U | 1.03 U | 1.06 U | 1.09 U B | 1.04 U B |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.54 U B | 0.365 J Z | 5.32 U B | 5.44 U B | 5.21 U B |
| 1613B | 3268-87-9 | OCDD | ng/kg | 6.56 J Z | 10.1 J Z | 10.6 U B | 10.9 U B | 9.41 J Z |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 5.54 U B | 5.15 U B | 5.32 U B | 5.44 U B | 5.21 U B |
| 1613B | 39001-02-0 | OCDF | ng/kg | 11.1 U B | 0.751 J Z | 10.6 U B | 10.9 U B | 10.4 U B |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.0520 J Z | 5.15 U B | 5.32 U | 5.44 U B | 5.21 U B |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.54 U B | 5.15 U B | 5.32 U | 5.44 U B | 5.21 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 1.11 U | 0.608 J Z | 1.06 U | 1.09 U B | 1.04 U B |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.54 U B | 5.15 U B | 5.32 U B | 5.44 U B | 5.21 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.54 U B | 0.400 J Z | 5.32 U B | 5.44 U B | 5.21 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 5.54 U B | 3.84 J Z | 5.32 U B | 5.44 U B | 0.207 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.54 U B | 0.390 J Z | 5.32 U B | 5.44 U B | 5.21 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.54 U B | 0.298 J Z | 5.32 U B | 5.44 U B | 5.21 U B |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.54 U B | 5.15 U B | 5.32 U B | 5.44 U B | 5.21 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 5.54 U B | 5.15 U B | 5.32 U B | 5.44 U B | 5.21 U B |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.54 U B | 0.544 J Z | 5.32 U B | 5.44 U B | 5.21 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.54 U B | 0.132 J Z | 5.32 U | 5.44 U B | 5.21 U B |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-003-NBZ-SB-4.0-5.0 | SL-004-NBZ-SS-0.0-0.5 | SL-005-NBZ-SB-4.0-5.0 | SL-006-NBZ-SB-3.0-4.0 | SL-007-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 03/12/2012 | 04/11/2012 | 03/13/2012 | 03/13/2012 | 03/12/2012 |
| | | | | SDG | DX159 | DX168 | DX159 | DX159 | DX159 |
| | | | | Start Depth | 4 | 0 | 4 | 3 | 4 |
| | | | | End Depth | 5 | 0.5 | 5 | 4 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.04 U B | 1.19 U | 1.08 U B | 1.07 U B | 1.09 U |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.21 U B | 5.93 U B | 5.42 U B | 5.36 U B | 5.43 U B |
| 1613B | 3268-87-9 | OCDD | ng/kg | 10.4 U B | 16.4 | 10.8 U B | 10.7 U B | 10.9 U B |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 5.21 U B | 2.60 J Z | 5.42 U B | 5.36 U B | 5.43 U B |
| 1613B | 39001-02-0 | OCDF | ng/kg | 10.4 U B | 1.30 J Z | 10.8 U B | 10.7 U B | 10.9 U B |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.21 U B | 0.0858 J Z | 5.42 U B | 5.36 U B | 5.43 U |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.21 U B | 5.93 U B | 5.42 U B | 5.36 U B | 5.43 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 1.04 U B | 0.400 J Z | 1.08 U B | 1.07 U B | 1.09 U B |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.21 U B | 5.93 U B | 5.42 U B | 5.36 U B | 5.43 U |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.21 U B | 5.93 U B | 5.42 U B | 5.36 U B | 5.43 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 5.21 U B | 1.22 J Z | 5.42 U B | 5.36 U B | 5.43 U B |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.21 U B | 5.93 U B | 5.42 U B | 5.36 U B | 5.43 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.21 U B | 5.93 U B | 5.42 U B | 5.36 U B | 5.43 U B |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.21 U B | 5.93 U B | 5.42 U B | 5.36 U B | 5.43 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 5.21 U B | 5.93 U B | 5.42 U B | 5.36 U B | 5.43 U B |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.21 U B | 5.93 U B | 5.42 U B | 5.36 U B | 5.43 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.21 U B | 5.93 U B | 5.42 U B | 5.36 U B | 5.43 U B |

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

| | | | | Sample Name | SL-007-NBZ-SB-9.0-10.0 | SL-008-NBZ-SB-4.0-5.0 | DUP-07-NBZ-QC-041012 | SL-009-NBZ-SS-0.0-0.5 | SL-010-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | FD | N | N |
| | | | | Sample Date | 03/12/2012 | 04/18/2012 | 04/10/2012 | 04/10/2012 | 03/12/2012 |
| | | | | SDG | DX159 | DX170 | DX167 | DX167 | DX159 |
| | | | | Start Depth | 9 | 4 | 0 | 0 | 4 |
| | | | | End Depth | 10 | 5 | 0.5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.09 U | 0.0293 J Z | 1.14 U B | 1.13 U B | 1.04 U |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.46 U B | 5.17 U B | 0.409 J Z | 0.384 J Z | 5.22 U |
| 1613B | 3268-87-9 | OCDD | ng/kg | 10.9 U B | 10.3 U B | 62.2 | 63.9 | 10.4 U B |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 5.46 U B | 5.17 U B | 7.13 | 7.21 | 5.22 U B |
| 1613B | 39001-02-0 | OCDF | ng/kg | 10.9 U B | 10.3 U B | 2.02 J Z | 1.72 J Z | 10.4 U B |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.46 U B | 5.17 U B | 0.182 J Z | 0.218 J Z | 5.22 U B |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.46 U | 0.0308 J Z | 5.71 UJ B, FD | 0.266 J FD, Z | 5.22 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 1.09 U | 1.03 U B | 1.27 | 1.47 | 1.04 U B |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.46 U B | 5.17 U B | 0.291 J FD, Z | 5.65 UJ B, FD | 5.22 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.46 U B | 5.17 U B | 1.23 J Z | 1.52 J Z | 5.22 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 5.46 U B | 5.17 U B | 4.06 J Z | 5.76 | 5.22 U B |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.46 U B | 5.17 U | 0.620 J Z | 0.672 J Z | 5.22 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.46 U B | 5.17 U B | 0.413 J Z | 0.490 J Z | 5.22 U B |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.46 U B | 5.17 U B | 0.362 J Z | 0.364 J Z | 5.22 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 5.46 U B | 5.17 U B | 1.21 J Z | 1.24 J Z | 5.22 U B |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.46 U B | 5.17 U B | 1.61 J Z | 1.87 J Z | 5.22 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.46 U B | 5.17 U B | 0.248 J Z | 0.248 J Z | 5.22 U B |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-011-NBZ-SS-0.0-0.5 | SL-012-NBZ-SS-0.0-0.5 | SL-012-NBZ-SB-0.5-1.5 | SL-013-NBZ-SS-0.0-0.5 | SL-014-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 04/12/2012 | 04/19/2012 | 04/19/2012 | 04/16/2012 | 04/17/2012 |
| | | | | SDG | DX168 | DX170 | DX170 | DX169 | DX169 |
| | | | | Start Depth | 0 | 0 | 0.5 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 1.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.13 U B | 1.18 U | 1.18 U | 1.42 U B | 1.17 U |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.65 U B | 0.592 J Z | 5.91 U B | 0.590 J Z | 0.362 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 17.9 | 25.5 | 11.8 U B | 112 | 70 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 2.18 J Z | 3.52 J Z | 5.91 U B | 13 | 7.82 |
| 1613B | 39001-02-0 | OCDF | ng/kg | 11.3 U B | 1.19 J Z | 11.8 U B | 3.89 J Z | 3.17 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.0936 J Z | 5.88 U B | 5.91 U B | 0.271 J Z | 0.174 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.65 U B | 0.187 J Z | 0.0604 J Z | 7.09 U B | 5.84 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.131 J Z | 0.249 J Z | 1.18 U B | 0.395 J Z | 0.385 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.65 U B | 5.88 U B | 5.91 U B | 0.270 J Z | 5.84 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.65 U B | 5.88 U B | 5.91 U B | 0.883 J Z | 0.395 J Z |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 5.65 U B | 0.262 J Z | 5.91 U B | 0.744 J Z | 2.96 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.65 U B | 0.167 J Z | 0.0629 J Z | 0.351 J Z | 5.84 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.65 U B | 0.477 J Z | 5.91 U B | 0.725 J Z | 0.439 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.65 U B | 0.201 J Z | 5.91 U B | 0.394 J Z | 5.84 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 5.65 U B | 0.593 J Z | 5.91 U B | 2.16 J Z | 1.68 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.65 U B | 0.230 J Z | 5.91 U B | 0.646 J Z | 0.619 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.65 U B | 5.88 U B | 5.91 U B | 0.301 J Z | 5.84 U B |

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

| | | | | Sample Name | SL-015-NBZ-SS-0.0-0.5 | SL-016-NBZ-SS-0.0-0.5 | SL-017-NBZ-SS-0.0-0.5 | SL-018-NBZ-SS-0.0-0.5 | SL-019-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 03/13/2012 | 04/20/2012 | 04/19/2012 | 04/20/2012 | 03/13/2012 |
| | | | | SDG | DX159 | DX171 | DX171 | DX171 | DX160 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.00 U B | 0.0998 J Z | 0.0647 J Z | 0.107 J Z | 1.00 U |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.01 U B | 1.98 J Z | 2.03 J Z | 0.732 J Z | 0.261 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 20.3 | 692 | 493 | 219 | 50.5 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 2.88 J Z | 79.9 | 57.8 | 27.4 | 6.06 |
| 1613B | 39001-02-0 | OCDF | ng/kg | 0.826 J Z | 23.5 | 17.4 | 4.89 J Z | 1.90 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.01 U B | 1.21 J Z | 1.13 J Z | 0.417 J Z | 5.02 U B |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.01 U | 0.647 J Z | 0.738 J Z | 0.419 J Z | 5.02 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 1.00 U B | 0.541 J Z | 0.470 J Z | 0.364 J Z | 0.171 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.01 U B | 0.991 J Z | 0.674 J Z | 0.283 J Z | 5.02 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.01 U B | 1.73 J Z | 3.07 J Z | 1.78 J Z | 5.02 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 5.01 U B | 1.15 J Z | 1.72 J Z | 0.332 J Z | 0.165 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.01 U B | 0.625 J Z | 0.751 J Z | 0.304 J Z | 5.02 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.01 U B | 3.68 J Z | 2.74 J Z | 0.716 J Z | 0.264 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.01 U B | 0.872 J Z | 0.848 J Z | 0.314 J Z | 5.02 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 5.01 U B | 9.77 | 8.04 | 2.53 J Z | 1.09 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.01 U B | 1.13 J Z | 1.38 J Z | 0.365 J Z | 5.02 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.01 U B | 0.218 J Z | 0.211 J Z | 6.13 U B | 5.02 U B |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-019-NBZ-SB-3.0-4.0 | SL-020-NBZ-SS-0.0-0.5 | SL-020-NBZ-SB-2.5-3.5 | SL-021-NBZ-SS-0.0-0.5 | SL-021-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 03/13/2012 | 04/04/2012 | 04/04/2012 | 03/13/2012 | 03/13/2012 |
| | | | | SDG | DX160 | DX167 | DX166 | DX159 | DX159 |
| | | | | Start Depth | 3 | 0 | 2.5 | 0 | 4 |
| | | | | End Depth | 4 | 0.5 | 3.5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.05 U | 1.13 U B | 0.0544 J Z | 1.02 U | 1.01 U B |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.23 U B | 0.418 J Z | 0.439 J Z | 0.184 J Z | 5.07 U B |
| 1613B | 3268-87-9 | OCDD | ng/kg | 10.5 U B | 171 | 128 | 17.5 | 10.1 U B |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 5.23 U B | 14.8 | 11.6 | 2.43 J Z | 5.07 U B |
| 1613B | 39001-02-0 | OCDF | ng/kg | 10.5 U B | 6.17 J Z | 6.80 J Z | 1.27 J Z | 10.1 U B |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.23 U B | 0.235 J Z | 0.236 J Z | 5.11 U B | 5.07 U B |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.23 U B | 5.63 U B | 5.40 U B | 5.11 U B | 5.07 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.0267 J Z | 0.140 J Z | 1.08 U | 1.02 U B | 1.01 U |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.23 U B | 5.63 U B | 5.40 U B | 5.11 U B | 5.07 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.23 U B | 5.63 U B | 5.40 U B | 5.11 U B | 5.07 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 5.23 U B | 0.239 J Z | 5.40 U B | 5.11 U B | 5.07 U B |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.23 U B | 0.185 J Z | 5.40 U B | 5.11 U B | 5.07 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.23 U B | 0.584 J Z | 0.602 J Z | 5.11 U B | 5.07 U B |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.23 U B | 5.63 U B | 5.40 U B | 5.11 U B | 5.07 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 5.23 U B | 2.27 J Z | 2.40 J Z | 0.593 J Z | 5.07 U B |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.23 U B | 0.299 J Z | 0.301 J Z | 5.11 U B | 5.07 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.23 U B | 5.63 U B | 0.118 J Z | 5.11 U | 5.07 U B |

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

| | | | | Sample Name | SL-022-NBZ-SS-0.0-0.5 | SL-022-NBZ-SB-4.0-5.0 | SL-022-NBZ-SB-9.0-10.0 | SL-023-NBZ-SS-0.0-0.5 | SL-023-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 |
| | | | | SDG | DX160 | DX160 | DX160 | DX160 | DX160 |
| | | | | Start Depth | 0 | 4 | 9 | 0 | 4 |
| | | | | End Depth | 0.5 | 5 | 10 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.04 U | 1.02 U | 1.05 U | 1.03 U B | 1.01 U B |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.339 J Z | 5.11 U B | 5.23 U B | 1.84 J Z | 5.03 U B |
| 1613B | 3268-87-9 | OCDD | ng/kg | 81.8 | 10.2 U B | 10.5 U B | 693 | 10.1 U B |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 9.42 | 5.11 U B | 5.23 U B | 76.9 | 5.03 U B |
| 1613B | 39001-02-0 | OCDF | ng/kg | 2.27 J Z | 10.2 U B | 10.5 U B | 20.4 | 10.1 U B |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.166 J Z | 5.11 U B | 5.23 U B | 1.04 J Z | 5.03 U B |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 0.145 J Z | 5.11 U B | 5.23 U B | 0.567 J Z | 5.03 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.0958 J Z | 0.0364 J Z | 0.0249 J Z | 0.232 J Z | 0.0286 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.21 U B | 5.11 U B | 5.23 U B | 0.945 J Z | 5.03 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.21 U B | 5.11 U B | 5.23 U B | 5.13 U B | 5.03 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 0.199 J Z | 5.11 U B | 5.23 U B | 0.510 J Z | 5.03 U B |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.21 U B | 5.11 U B | 5.23 U B | 0.552 J Z | 5.03 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.383 J Z | 5.11 U B | 5.23 U B | 2.81 J Z | 5.03 U B |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.21 U B | 5.11 U B | 5.23 U B | 0.719 J Z | 5.03 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 1.21 J Z | 5.11 U B | 5.23 U B | 11.4 | 5.03 U B |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 0.247 J Z | 5.11 U B | 5.23 U B | 0.693 J Z | 5.03 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 0.0390 J Z | 5.11 U B | 5.23 U B | 5.13 U B | 5.03 U B |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-023-NBZ-SB-8.5-9.5 | SL-024-NBZ-SS-0.0-0.5 | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 03/14/2012 | 03/14/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 |
| | | | | SDG | DX160 | DX160 | DX165 | DX165 | DX165 |
| | | | | Start Depth | 8.5 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 9.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.02 U | 1.03 U B | 0.0340 J Z | 0.100 J Z | 0.106 J Z |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.12 U B | 5.15 U B | 0.327 J Z | 0.305 J Z | 0.538 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 10.2 U B | 16.1 | 17.8 | 15.4 | 128 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 5.12 U B | 2.27 J Z | 2.30 J Z | 2.36 J Z | 13.8 |
| 1613B | 39001-02-0 | OCDF | ng/kg | 10.2 U B | 10.3 U B | 0.893 J Z | 0.886 J Z | 4.36 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.12 U B | 5.15 U B | 5.46 U B | 5.21 U B | 0.319 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.12 U B | 5.15 U B | 5.46 U B | 0.252 J Z | 0.304 J Z |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.0188 J Z | 0.0276 J Z | 1.09 U B | 0.142 J Z | 0.336 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.12 U B | 5.15 U B | 5.46 U B | 5.21 U B | 0.302 J Z |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.12 U B | 5.15 U B | 5.46 U B | 5.21 U B | 0.391 J Z |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 5.12 U B | 5.15 U B | 0.200 J Z | 0.457 J Z | 0.611 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.12 U B | 5.15 U B | 5.46 U B | 0.193 J Z | 0.337 J Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.12 U B | 5.15 U B | 5.46 U B | 0.312 J Z | 0.695 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.12 U B | 5.15 U B | 5.46 U B | 5.21 U B | 0.338 J Z |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 5.12 U B | 5.15 U B | 5.46 U B | 5.21 U B | 2.08 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.12 U B | 5.15 U B | 5.46 U B | 0.255 J Z | 0.410 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.12 U B | 5.15 U B | 5.46 U B | 5.21 U B | 5.72 U B |

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

| | | | | Sample Name | SL-028-NBZ-SS-0.0-0.5 | SL-029-NBZ-SS-0.0-0.5 | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 | SL-032-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 04/02/2012 | 03/15/2012 | 03/14/2012 | 04/03/2012 | 04/03/2012 |
| | | | | SDG | DX165 | DX160 | DX160 | DX165 | DX166 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 0.0567 J Z | 1.01 U B | 1.01 U | 1.08 U | 0.0428 J Z |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.35 U B | 0.501 J Z | 0.462 J Z | 0.441 J Z | 1.72 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 25.3 | 181 | 162 | 43.7 | 19.1 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 3.20 J Z | 21.4 | 18.9 | 5.79 | 2.91 J Z |
| 1613B | 39001-02-0 | OCDF | ng/kg | 1.06 J Z | 6.03 J Z | 7.46 J Z | 2.64 J Z | 1.30 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.35 U B | 0.245 J Z | 0.247 J Z | 5.40 U B | 5.51 U B |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.35 U B | 0.197 J Z | 0.179 J Z | 5.40 U B | 0.251 J Z |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 1.07 U B | 0.396 J Z | 0.310 J Z | 0.275 J Z | 0.166 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.35 U B | 0.364 J Z | 0.375 J Z | 5.40 U B | 5.51 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.35 U B | 0.531 J Z | 0.518 J Z | 5.40 U B | 5.51 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 0.187 J Z | 0.797 J Z | 1.09 J Z | 0.536 J Z | 5.51 U B |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.35 U B | 0.312 J Z | 0.342 J Z | 0.246 J Z | 5.51 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.35 U B | 0.755 J Z | 0.772 J Z | 0.426 J Z | 1.34 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.35 U B | 0.381 J Z | 0.377 J Z | 5.40 U B | 5.51 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 5.35 U B | 3.17 J Z | 3.71 J Z | 1.18 J Z | 0.775 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.35 U B | 1.09 J Z | 0.794 J Z | 0.303 J Z | 5.51 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.35 U B | 5.05 U B | 5.05 U B | 5.40 U B | 0.305 J Z |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-033-NBZ-SS-0.0-0.5 | SL-034-NBZ-SS-0.0-0.5 | SL-035-NBZ-SS-0.0-0.5 | SL-035-NBZ-SB-2.0-3.0 | SL-036-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 03/28/2012 |
| | | | | SDG | DX165 | DX165 | DX166 | DX166 | DX164 |
| | | | | Start Depth | 0 | 0 | 0 | 2 | 4 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 3 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 0.280 J Z | 0.0657 J Z | 0.0634 J Z | 0.118 J Z | 1.13 U B |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.43 U B | 1.74 J Z | 0.481 J Z | 4.97 U B | 5.64 U B |
| 1613B | 3268-87-9 | OCDD | ng/kg | 14.9 | 38.8 | 82.3 | 9.94 U B | 11.3 U B |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 5.43 U B | 4.83 J Z | 9.72 | 4.97 U B | 5.64 U B |
| 1613B | 39001-02-0 | OCDF | ng/kg | 1.12 J Z | 2.06 J Z | 20.4 | 9.94 U B | 11.3 U B |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.43 U B | 5.96 U B | 0.157 J Z | 0.210 J Z | 5.64 U |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.43 U B | 5.96 U B | 5.51 U B | 4.97 U B | 5.64 U |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.176 J Z | 0.353 J Z | 0.165 J Z | 0.0585 J Z | 1.13 U |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.43 U B | 5.96 U B | 0.524 J Z | 4.97 U B | 5.64 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.43 U B | 5.96 U B | 5.51 U B | 4.97 U B | 5.64 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 5.43 U B | 0.448 J Z | 5.51 U B | 4.97 U B | 5.64 U B |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.43 U B | 0.339 J Z | 5.51 U B | 4.97 U B | 5.64 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.43 U B | 1.28 J Z | 0.636 J Z | 4.97 U B | 5.64 U B |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.43 U B | 0.313 J Z | 5.51 U B | 4.97 U B | 5.64 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 5.43 U B | 1.17 J Z | 3.86 J Z | 4.97 U B | 5.64 U B |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.43 U B | 0.305 J Z | 5.51 U B | 4.97 U B | 5.64 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.43 U B | 5.96 U B | 5.51 U B | 4.97 U B | 5.64 U B |

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

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-036-NBZ-SB-7.5-8.5 | SL-037-NBZ-SB-3.0-4.0 | SL-038-NBZ-SS-0.0-0.5 | SL-039-NBZ-SB-2.0-3.0 | SL-040-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N |
| | | | Sample Date | 03/28/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 | 03/28/2012 |
| | | | SDG | DX164 | DX164 | DX163 | DX164 | DX164 |
| | | | Start Depth | 7.5 | 3 | 0 | 2 | 0 |
| | | | End Depth | 8.5 | 4 | 0.5 | 3 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.26 U | 1.07 U | 0.269 J Z | 1.10 U | 1.08 U B |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 6.32 U B | 5.36 U B | 1.41 J Z | 1.19 J Z | 0.365 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 12.6 U B | 10.7 U B | 482 | 105 | 57.5 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 6.32 U B | 5.36 U B | 52.9 | 13 | 6.05 |
| 1613B | 39001-02-0 | OCDF | ng/kg | 12.6 U B | 10.7 U B | 28.2 | 12 | 2.37 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 6.32 U B | 5.36 U B | 0.722 J Z | 0.243 J Z | 5.38 U B |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 0.0415 J Z | 0.0562 J Z | 6.11 U B | 0.248 J Z | 0.198 J Z |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 1.26 U | 1.07 U | 1.52 | 0.687 J Z | 0.169 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 6.32 U B | 5.36 U B | 1.24 J Z | 0.625 J Z | 5.38 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 6.32 U B | 5.36 U B | 1.69 J Z | 0.641 J Z | 5.38 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 6.32 U B | 5.36 U B | 3.13 J Z | 1.16 J Z | 0.403 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 6.32 U B | 5.36 U B | 1.63 J Z | 0.732 J Z | 0.216 J Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 6.32 U B | 5.36 U B | 2.57 J Z | 0.970 J Z | 0.394 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 6.32 U B | 5.36 U B | 1.37 J Z | 0.477 J Z | 5.38 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 6.32 U B | 5.36 U B | 13.1 | 5.62 | 1.13 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 6.32 U B | 5.36 U B | 2.66 J Z | 1.38 J Z | 0.334 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 6.32 U B | 5.36 U B | 0.426 J Z | 0.330 J Z | 0.147 J Z |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | DUP-03-NBZ-QC-032812 | SL-040-NBZ-SB-2.5-3.5 | SL-042-NBZ-SS-0.0-0.5 | SL-043-NBZ-SS-0.0-0.5 | SL-044-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | FD | N | N | N | N |
| | | | | Sample Date | 03/28/2012 | 03/28/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 |
| | | | | SDG | DX164 | DX164 | DX163 | DX163 | DX165 |
| | | | | Start Depth | 2.5 | 2.5 | 0 | 0 | 0 |
| | | | | End Depth | 3.5 | 3.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | | 1.08 UJ FD | 1.03 UJ B, FD | 0.615 J Z | 0.0485 J Z | 2.53 |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | | 0.439 J Z | 0.367 J Z | 4.23 J Z | 0.505 J Z | 22.6 |
| 1613B | 3268-87-9 | OCDD | ng/kg | | 326 J FD | 65.3 J FD | 3290 | 28.1 | 5270 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | | 22.0 J FD | 7.47 J FD | 405 | 5.00 J Z | 657 |
| 1613B | 39001-02-0 | OCDF | ng/kg | | 12.0 J FD | 7.14 J FD, Z | 80.3 | 1.87 J Z | 537 |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | | 5.38 U B | 5.14 U B | 2.03 J Z | 5.39 U B | 5.64 |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | | 5.38 UJ FD | 0.152 J FD, Z | 5.87 U B | 5.39 U B | 5.86 |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | | 0.276 J Z | 0.197 J Z | 0.689 J Z | 1.08 U B | 12.3 |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | | 0.458 J Z | 0.432 J Z | 2.35 J Z | 5.39 U B | 10 |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | | 5.38 U B | 5.14 U B | 5.48 J Z | 0.563 J Z | 13.5 |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | | 1.14 J Z | 0.905 J Z | 4.12 J Z | 0.276 J Z | 16.9 |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | | 0.496 J Z | 0.543 J Z | 2.33 J Z | 5.39 U B | 9.44 |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | | 0.592 J Z | 0.556 J Z | 10.1 | 0.411 J Z | 68.7 |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | | 0.256 J Z | 5.14 U B | 3.89 J Z | 5.39 U B | 12.4 |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | | 4.42 J Z | 3.91 J Z | 29.8 | 0.962 J Z | 409 |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | | 0.903 J Z | 1.05 J Z | 2.22 J Z | 0.213 J Z | 11.9 |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | | 5.38 U B | 5.14 U B | 5.87 U | 0.138 J Z | 2.65 J Z |

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

| | | | | Sample Name | SL-045-NBZ-SS-0.0-0.5 | SL-045-NBZ-SB-4.0-5.0 | SL-046-NBZ-SS-0.0-0.5 | SL-046-NBZ-SB-4.0-5.0 | SL-047-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 03/26/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 | 03/23/2012 |
| | | | | SDG | DX163 | DX163 | DX163 | DX163 | DX162 |
| | | | | Start Depth | 0 | 4 | 0 | 4 | 4 |
| | | | | End Depth | 0.5 | 5 | 0.5 | 5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 0.189 J Z | 1.05 U | 0.0973 J Z | 1.05 U | 1.02 U B |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 1.33 J Z | 5.23 U B | 1.05 J Z | 5.23 U B | 5.10 U B |
| 1613B | 3268-87-9 | OCDD | ng/kg | 198 | 10.5 U B | 228 | 10.5 U B | 10.2 U B |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 27.9 | 5.23 U B | 26 | 5.23 U B | 5.10 U B |
| 1613B | 39001-02-0 | OCDF | ng/kg | 10.5 J Z | 10.5 U B | 16.9 | 10.5 U B | 10.2 U B |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.527 J Z | 5.23 U B | 0.542 J Z | 5.23 U B | 5.10 U B |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.43 U B | 5.23 U B | 5.73 U B | 5.23 U | 5.10 U |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.890 J Z | 1.05 U | 1.5 | 1.05 U B | 1.02 U |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 0.683 J Z | 5.23 U B | 0.544 J Z | 5.23 U B | 5.10 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 1.39 J Z | 5.23 U B | 1.47 J Z | 5.23 U B | 5.10 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 1.52 J Z | 5.23 U B | 5.36 J Z | 5.23 U B | 0.0473 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 1.22 J Z | 5.23 U B | 1.14 J Z | 5.23 U B | 5.10 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 2.09 J Z | 5.23 U B | 1.53 J Z | 5.23 U B | 5.10 U B |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 1.31 J Z | 5.23 U B | 1.10 J Z | 5.23 U B | 5.10 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 7.88 | 5.23 U B | 7.94 | 5.23 U B | 5.10 U B |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 1.30 J Z | 0.111 J Z | 1.42 J Z | 0.121 J Z | 5.10 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 0.494 J Z | 0.102 J Z | 0.358 J Z | 0.168 J Z | 0.0310 J Z |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-048-NBZ-SS-0.0-0.5 | SL-048-NBZ-SB-4.0-5.0 | SL-049-NBZ-SB-2.0-3.0 | SL-050-NBZ-SS-0.0-0.5 | SL-051-NBZ-SB-1.5-2.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/26/2012 | 03/23/2012 |
| | | | | SDG | DX162 | DX162 | DX162 | DX163 | DX162 |
| | | | | Start Depth | 0 | 4 | 2 | 0 | 1.5 |
| | | | | End Depth | 0.5 | 5 | 3 | 0.5 | 2.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.08 U B | 1.04 U B | 1.03 U B | 0.0532 J Z | 1.02 U |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 1.01 J Z | 5.22 U B | 0.225 J Z | 0.948 J Z | 5.12 U B |
| 1613B | 3268-87-9 | OCDD | ng/kg | 115 | 10.4 U B | 10.3 U B | 107 | 2.96 J Z |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 16.6 | 5.22 U B | 5.15 U B | 14.2 | 5.12 U B |
| 1613B | 39001-02-0 | OCDF | ng/kg | 4.78 J Z | 10.4 U B | 10.3 U B | 10.9 J Z | 10.2 U B |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.424 J Z | 5.22 U | 5.15 U B | 0.838 J Z | 5.12 U B |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 0.301 J Z | 0.0449 J Z | 0.0840 J Z | 5.49 U B | 0.120 J Z |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.906 J Z | 0.0457 J Z | 0.0445 J Z | 1.5 | 0.0807 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.40 U B | 5.22 U B | 5.15 U B | 0.373 J Z | 5.12 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 0.715 J Z | 5.22 U B | 5.15 U B | 1.51 J Z | 5.12 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 0.753 J Z | 0.0536 J Z | 0.102 J Z | 1.09 J Z | 0.162 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 0.350 J Z | 5.22 U B | 5.15 U B | 0.429 J Z | 5.12 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 1.29 J Z | 5.22 U B | 5.15 U B | 1.36 J Z | 5.12 U B |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 0.299 J Z | 5.22 U B | 5.15 U B | 5.49 U B | 5.12 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 2.28 J Z | 5.22 U B | 5.15 U B | 4.03 J Z | 5.12 U B |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 0.484 J Z | 5.22 U B | 5.15 U B | 0.831 J Z | 5.12 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 0.0955 J Z | 5.22 U | 0.0681 J Z | 0.393 J Z | 0.0746 J Z |

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

| | | | | Sample Name | SL-052-NBZ-SS-0.0-0.5 | SL-053-NBZ-SS-0.0-0.5 | SL-053-NBZ-SB-3.5-4.5 | SL-054-NBZ-SS-0.0-0.5 | SL-055-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 03/15/2012 | 03/15/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 |
| | | | | SDG | DX160 | DX161 | DX161 | DX162 | DX162 |
| | | | | Start Depth | 0 | 0 | 3.5 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 4.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 0.993 U B | 1.01 U B | 1.03 U | 1.07 U B | 1.11 U B |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 1.31 J Z | 0.721 J Z | 5.15 U B | 1.72 J Z | 0.498 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 188 | 234 | 3.98 J Z | 793 | 48.4 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 23.6 | 25.7 | 5.15 U B | 94.9 | 5.74 |
| 1613B | 39001-02-0 | OCDF | ng/kg | 16.3 | 16.6 | 10.3 U B | 21.9 | 3.14 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.380 J Z | 0.314 J Z | 5.15 U B | 0.553 J Z | 0.201 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 0.477 J Z | 0.307 J Z | 0.0470 J Z | 0.705 J Z | 0.297 J Z |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 1.2 | 1.49 | 1.03 U | 0.796 J Z | 0.386 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 0.535 J Z | 0.912 J Z | 5.15 U B | 0.818 J Z | 5.53 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 0.743 J Z | 3.22 J Z | 5.15 U B | 2.34 J Z | 0.549 J Z |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 1.31 J Z | 3.06 J Z | 5.15 U B | 2.20 J Z | 0.355 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 0.516 J Z | 1.45 J Z | 5.15 U B | 1.12 J Z | 0.274 J Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 1.27 J Z | 1.14 J Z | 5.15 U B | 1.89 J Z | 0.447 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 0.434 J Z | 0.828 J Z | 5.15 U B | 0.743 J Z | 5.53 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 6.89 | 7.52 | 5.15 U B | 8.47 | 1.67 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 0.808 J Z | 2.40 J Z | 5.15 U B | 2.06 J Z | 0.381 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 4.97 U B | 5.04 U | 5.15 U B | 5.37 U | 0.103 J Z |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-056-NBZ-SS-0.0-0.5 | SL-056-NBZ-SB-3.0-4.0 | DUP-02-NBZ-QC-032312 | SL-057-NBZ-SS-0.0-0.5 | SL-058-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | FD | N | N |
| | | | | Sample Date | 03/15/2012 | 03/15/2012 | 03/23/2012 | 03/23/2012 | 03/15/2012 |
| | | | | SDG | DX161 | DX161 | DX162 | DX162 | DX160 |
| | | | | Start Depth | 0 | 3 | 0 | 0 | 5 |
| | | | | End Depth | 0.5 | 4 | 0.5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | | 1.29 U B | 1.22 U B | 1.06 UJ B, FD | 1.10 UJ B, FD | 1.03 U B |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | | 1.25 J Z | 6.10 U B | 5.31 UJ B, FD | 0.465 J FD, Z | 5.16 U B |
| 1613B | 3268-87-9 | OCDD | ng/kg | | 610 | 2.43 J Z | 7.02 J FD, Z | 57.2 J FD | 10.3 U B |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | | 39.9 | 6.10 U B | 5.31 UJ B, FD | 8.71 J FD | 5.16 U B |
| 1613B | 39001-02-0 | OCDF | ng/kg | | 14 | 12.2 U B | 1.27 J FD, Z | 12.0 J FD | 10.3 U B |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | | 0.511 J Z | 6.10 U B | 5.31 UJ B, FD | 0.216 J FD, Z | 5.16 U B |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | | 0.432 J Z | 0.159 J Z | 0.0948 J FD, Z | 0.260 J FD, Z | 5.16 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | | 2.83 | 1.22 U B | 1.78 J FD | 10.3 J FD, Q | 0.0148 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | | 0.961 J Z | 6.10 U B | 0.492 J FD, Z | 4.26 J FD, Z | 5.16 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | | 4.70 J Z | 6.10 U B | 2.70 J FD, Z | 23.2 J FD | 5.16 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | | 4.63 J Z | 6.10 U B | 2.10 J FD, Z | 17.8 J FD | 5.16 U B |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | | 1.84 J Z | 6.10 U B | 0.882 J FD, Z | 7.24 J FD | 5.16 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | | 1.48 J Z | 6.10 U B | 5.31 UJ B, FD | 0.531 J FD, Z | 5.16 U B |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | | 1.08 J Z | 6.10 U B | 0.412 J FD, Z | 2.99 J FD, Z | 5.16 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | | 6.42 J Z | 6.10 U B | 0.836 J FD, Z | 8.06 J FD | 5.16 U B |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | | 3.41 J Z | 6.10 U B | 1.99 J FD, Z | 15.9 J FD | 5.16 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | | 6.45 U | 6.10 U B | 0.361 J FD, Z | 5.48 UJ FD | 5.16 U B |

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

| | | | | Sample Name | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 | SL-061-NBZ-SB-1.0-2.0 | SL-062-NBZ-SB-2.5-3.5 | SL-063-NBZ-SB-0.5-1.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 03/22/2012 | 03/22/2012 | 03/22/2012 | 03/21/2012 | 03/21/2012 |
| | | | | SDG | DX162 | DX162 | DX162 | DX162 | DX162 |
| | | | | Start Depth | 0 | 0 | 1 | 2.5 | 0.5 |
| | | | | End Depth | 0.5 | 0.5 | 2 | 3.5 | 1.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.07 U | 0.171 J Z | 1.04 U B | 1.03 U | 1.12 U |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.148 J Z | 1.54 J Z | 5.19 U B | 0.158 J Z | 0.155 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 9.74 J Z | 388 | 6.77 J Z | 24.3 | 25.3 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 1.45 J Z | 45.4 | 5.19 U B | 3.28 J Z | 2.84 J Z |
| 1613B | 39001-02-0 | OCDF | ng/kg | 1.08 J Z | 147 | 10.4 U B | 2.10 J Z | 1.70 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.36 U B | 0.717 J Z | 5.19 U B | 5.16 U B | 5.58 U B |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 0.109 J Z | 5.25 U B | 5.19 U | 0.0722 J Z | 0.0319 J Z |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.844 J Z | 52.6 | 0.278 J Z | 0.363 J Z | 0.277 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.36 U B | 60 | 5.19 U B | 0.451 J Z | 5.58 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 1.01 J Z | 243 | 0.697 J Z | 1.87 J Z | 5.58 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 1.12 J Z | 92.6 | 0.338 J Z | 2.49 J Z | 0.295 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 0.308 J Z | 84 | 5.19 U B | 0.591 J Z | 5.58 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.36 U B | 2.29 J Z | 5.19 U B | 5.16 U B | 5.58 U B |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.36 U B | 37.3 | 5.19 U B | 0.299 J Z | 5.58 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 0.751 J Z | 101 | 5.19 U B | 1.05 J Z | 0.940 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 0.521 J Z | 168 | 0.301 J Z | 1.49 J Z | 0.226 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 0.0721 J Z | 5.25 U | 5.19 U | 5.16 U | 5.58 U |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-064-NBZ-SB-0.5-1.5 | SL-065-NBZ-SB-1.0-2.0 | SL-066-NBZ-SB-2.0-3.0 | SL-067-NBZ-SB-1.5-2.5 | DUP-01-NBZ-QC-031612 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | FD |
| | | | | Sample Date | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/16/2012 | 03/16/2012 |
| | | | | SDG | DX162 | DX161 | DX161 | DX161 | DX161 |
| | | | | Start Depth | 0.5 | 1 | 2 | 1.5 | 2.5 |
| | | | | End Depth | 1.5 | 2 | 3 | 2.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.04 U B | 1.05 U B | 1.03 U B | 1.07 U | 1.07 U B |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.21 U B | 0.392 J Z | 5.14 U B | 5.35 U B | 5.33 U B |
| 1613B | 3268-87-9 | OCDD | ng/kg | 3.14 J Z | 8.53 J Z | 10.3 U B | 10.7 U B | 10.7 U B |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 5.21 U B | 5.26 U B | 5.14 U B | 5.35 U B | 5.33 U B |
| 1613B | 39001-02-0 | OCDF | ng/kg | 10.4 U B | 1.08 J Z | 10.3 U B | 10.7 U B | 10.7 U B |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.21 U B | 5.26 U B | 5.14 U B | 5.35 U B | 5.33 U B |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.21 U | 5.26 U B | 5.14 U B | 0.0728 J Z | 0.252 J FD, Z |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.0685 J Z | 1.05 U B | 1.03 U B | 1.07 U | 1.07 U B |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.21 U B | 5.26 U B | 5.14 U B | 5.35 U B | 5.33 UJ B, FD |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.21 U B | 0.445 J Z | 5.14 U B | 5.35 U B | 5.33 UJ B, FD |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 0.0812 J Z | 0.309 J Z | 5.14 U B | 5.35 U B | 0.283 J FD, Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.21 U B | 5.26 U B | 5.14 U B | 5.35 U B | 5.33 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.21 U B | 0.288 J Z | 5.14 U B | 5.35 U B | 5.33 U B |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.21 U B | 5.26 U B | 5.14 U B | 5.35 U B | 5.33 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 5.21 U B | 0.534 J Z | 5.14 U B | 5.35 U B | 5.33 U B |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.21 U B | 0.408 J Z | 5.14 U B | 5.35 U B | 0.210 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 0.0393 J Z | 5.26 U B | 5.14 U B | 5.35 U B | 5.33 U B |

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

| | | | | Sample Name | SL-068-NBZ-SB-2.5-3.5 | SL-069-NBZ-SB-3.0-4.0 | SL-070-NBZ-SS-0.0-0.5 | SL-071-NBZ-SB-4.0-5.0 | SL-072-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 03/16/2012 | 03/20/2012 | 03/20/2012 | 03/19/2012 | 03/16/2012 |
| | | | | SDG | DX161 | DX161 | DX161 | DX161 | DX161 |
| | | | | Start Depth | 2.5 | 3 | 0 | 4 | 4 |
| | | | | End Depth | 3.5 | 4 | 0.5 | 5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.09 U B | 1.04 U B | 1.13 U B | 1.03 U B | 1.09 U B |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.43 U B | 5.21 U B | 1.17 J Z | 5.13 U B | 0.260 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 10.9 U B | 8.68 J Z | 2820 | 10.3 U B | 10.9 U B |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 5.43 U B | 5.21 U B | 220 | 5.13 U B | 5.44 U B |
| 1613B | 39001-02-0 | OCDF | ng/kg | 10.9 U B | 10.4 U B | 518 | 10.3 U B | 10.9 U B |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.43 U B | 5.21 U B | 0.648 J Z | 5.13 U B | 0.215 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 0.148 J FD, Z | 5.21 U B | 5.67 U B | 5.13 U B | 0.348 J Z |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 1.09 U B | 1.04 U | 1.13 U B | 1.03 U B | 1.09 U B |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.43 UJ B, FD | 5.21 U B | 6.05 | 5.13 U B | 5.44 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.43 UJ B, FD | 5.21 U B | 5.67 U B | 5.13 U B | 5.44 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 5.43 UJ B, FD | 5.21 U B | 1.01 J Z | 5.13 U B | 0.428 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.43 U B | 5.21 U B | 1.33 J Z | 5.13 U B | 0.287 J Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.43 U B | 5.21 U B | 5.48 J Z | 5.13 U B | 5.44 U B |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.43 U B | 5.21 U B | 2.14 J Z | 5.13 U B | 0.229 J Z |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 5.43 U B | 5.21 U B | 119 | 5.13 U B | 5.44 U B |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.43 U B | 5.21 U B | 1.51 J Z | 5.13 U B | 0.314 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.43 U B | 5.21 U B | 0.348 J Z | 5.13 U B | 5.44 U B |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-073-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-9.0-10.0 | SL-074-NBZ-SB-0.5-1.5 | SL-075-NBZ-SS-0.0-0.5 | SL-076-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 03/19/2012 | 03/19/2012 | 03/19/2012 | 03/20/2012 | 03/20/2012 |
| | | | | SDG | DX161 | DX161 | DX161 | DX161 | DX161 |
| | | | | Start Depth | 4 | 9 | 0.5 | 0 | 0 |
| | | | | End Depth | 5 | 10 | 1.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.08 U B | 1.07 U | 1.03 U | 1.09 U B | 1.14 U B |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.41 U B | 5.33 U B | 5.13 U B | 0.329 J Z | 0.485 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 10.8 U B | 10.7 U B | 10.3 U B | 100 | 151 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 5.41 U B | 5.33 U B | 5.13 U B | 9.73 | 15 |
| 1613B | 39001-02-0 | OCDF | ng/kg | 10.8 U B | 10.7 U B | 10.3 U B | 6.08 J Z | 9.40 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.41 U B | 5.33 U | 5.13 U | 5.43 U B | 0.273 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.41 U | 5.33 U | 0.0564 J Z | 5.43 U B | 0.261 J Z |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 1.08 U | 1.07 U B | 1.03 U | 1.09 U B | 0.272 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.41 U B | 5.33 U B | 5.13 U B | 5.43 U B | 5.69 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.41 U B | 5.33 U B | 5.13 U B | 5.43 U B | 0.605 J Z |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 5.41 U B | 5.33 U B | 5.13 U B | 0.922 J Z | 1.15 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.41 U | 5.33 U B | 5.13 U | 0.224 J Z | 0.340 J Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.41 U B | 5.33 U B | 5.13 U B | 0.503 J Z | 0.727 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.41 U B | 5.33 U B | 5.13 U B | 5.43 U B | 0.299 J Z |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 5.41 U B | 5.33 U B | 5.13 U B | 2.04 J Z | 2.90 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.41 U B | 5.33 U B | 5.13 U B | 0.390 J Z | 0.544 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.41 U B | 5.33 U B | 5.13 U B | 5.43 U B | 5.69 U B |

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

| | | | | Sample Name | SL-077-NBZ-SS-0.0-0.5 | SL-077-NBZ-SB-2.5-3.5 | SL-078-NBZ-SS-0.0-0.5 | SL-079-NBZ-SS-0.0-0.5 | SL-080-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 03/20/2012 | 03/20/2012 | 03/27/2012 | 03/30/2012 | 04/20/2012 |
| | | | | SDG | DX161 | DX161 | DX163 | DX166 | DX171 |
| | | | | Start Depth | 0 | 2.5 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 3.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.15 U B | 1.06 U B | 1.08 U | 0.0712 J Z | 0.0673 J Z |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.705 J Z | 5.29 U B | 5.42 U B | 5.62 U B | 0.364 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 229 | 10.8 | 15.1 | 17.5 | 37.3 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 23.4 | 5.29 U B | 5.42 U B | 2.50 J Z | 5.65 |
| 1613B | 39001-02-0 | OCDF | ng/kg | 14.5 | 0.823 J Z | 1.19 J Z | 1.19 J Z | 3.05 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.378 J Z | 5.29 U B | 5.42 U B | 0.162 J Z | 0.124 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 0.278 J Z | 5.29 U B | 5.42 U B | 5.62 U B | 0.205 J Z |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.584 J Z | 1.06 U | 1.08 U | 0.143 J Z | 0.151 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 0.415 J Z | 5.29 U B | 5.42 U B | 5.62 U B | 0.160 J Z |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 0.960 J Z | 5.29 U B | 5.42 U B | 5.62 U B | 0.955 J Z |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 1.55 J Z | 5.29 U B | 0.243 J Z | 5.62 U B | 0.323 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 0.517 J Z | 5.29 U B | 5.42 U B | 5.62 U B | 0.194 J Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.937 J Z | 5.29 U B | 5.42 U B | 5.62 U B | 0.354 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 0.589 J Z | 5.29 U B | 5.42 U B | 5.62 U B | 0.236 J Z |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 4.71 J Z | 5.29 U B | 5.42 U B | 5.62 U B | 1.82 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 0.892 J Z | 5.29 U B | 0.276 J Z | 5.62 U B | 0.362 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.76 U B | 5.29 U | 0.128 J Z | 0.176 J Z | 5.55 U B |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-081-NBZ-SS-0.0-0.5 | SL-082-NBZ-SS-0.0-0.5 | SL-082-NBZ-SB-2.5-3.5 | SL-083-NBZ-SS-0.0-0.5 | SL-084-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 04/18/2012 | 04/18/2012 | 04/18/2012 | 04/18/2012 | 04/10/2012 |
| | | | | SDG | DX170 | DX170 | DX170 | DX170 | DX167 |
| | | | | Start Depth | 0 | 0 | 2.5 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 3.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.17 U | 1.15 U | 1.14 U | 0.0337 J Z | 1.12 U B |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.305 J Z | 0.672 J Z | 5.69 U B | 0.243 J Z | 0.612 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 34.2 | 167 | 9.90 J Z | 75.3 | 119 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 4.66 J Z | 16.7 | 5.69 U B | 6.08 | 13.5 |
| 1613B | 39001-02-0 | OCDF | ng/kg | 1.76 J Z | 3.28 J Z | 11.4 U B | 1.27 J Z | 3.34 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.194 J Z | 0.361 J Z | 5.69 U B | 5.64 U B | 0.281 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 0.173 J Z | 0.315 J Z | 0.0486 J Z | 0.0388 J Z | 0.211 J Z |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.325 J Z | 0.950 J Z | 1.14 U | 0.417 J Z | 1.26 |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.83 U B | 0.446 J Z | 5.69 U B | 0.156 J Z | 5.62 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 0.802 J Z | 0.842 J Z | 5.69 U B | 0.416 J Z | 1.42 J Z |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 0.486 J Z | 52.8 | 1.63 J Z | 9.82 | 10.7 |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 0.222 J Z | 0.571 J Z | 0.0579 J Z | 0.146 J Z | 0.693 J Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.355 J Z | 0.756 J Z | 5.69 U B | 0.313 J Z | 0.769 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 0.260 J Z | 0.505 J Z | 5.69 U | 0.196 J Z | 0.386 J Z |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 1.04 J Z | 2.29 J Z | 5.69 U B | 0.811 J Z | 2.32 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 0.378 J Z | 2.79 J Z | 0.236 J Z | 2.50 J Z | 2.07 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.83 U B | 0.351 J Z | 5.69 U B | 5.64 U B | 0.293 J Z |

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

| | | | | Sample Name | SL-085-NBZ-SS-0.0-0.5 | SL-086-NBZ-SS-0.0-0.5 | SL-087-NBZ-SS-0.0-0.5 | SL-088-NBZ-SS-0.0-0.5 | SL-089-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 04/10/2012 | 04/19/2012 | 04/19/2012 | 04/17/2012 | 04/20/2012 |
| | | | | SDG | DX168 | DX170 | DX170 | DX169 | DX171 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.18 U | 0.0744 J Z | 1.39 U | 1.25 U B | 0.0505 J Z |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 1.33 J Z | 0.485 J Z | 0.498 J Z | 0.532 J Z | 0.741 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 461 | 109 | 91.7 | 74.2 | 105 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 40.3 | 10.9 | 9.46 | 9.4 | 17.6 |
| 1613B | 39001-02-0 | OCDF | ng/kg | 16.8 | 3.87 J Z | 2.32 J Z | 4.07 J Z | 4.26 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.679 J Z | 0.252 J Z | 0.183 J Z | 0.203 J Z | 0.389 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.91 U B | 0.188 J Z | 0.236 J Z | 6.23 U B | 0.389 J Z |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.926 J Z | 0.573 J Z | 0.398 J Z | 0.695 J Z | 0.422 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 0.792 J Z | 0.244 J Z | 0.162 J Z | 6.23 U B | 0.217 J Z |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.91 U B | 0.684 J Z | 0.458 J Z | 0.486 J Z | 2.02 J Z |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 4.22 J Z | 3.30 J Z | 1.01 J Z | 2.91 J Z | 0.615 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 0.756 J Z | 0.295 J Z | 0.183 J Z | 0.306 J Z | 0.408 J Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 1.76 J Z | 0.617 J Z | 0.562 J Z | 0.619 J Z | 0.965 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 0.582 J Z | 0.305 J Z | 0.217 J Z | 0.282 J Z | 0.440 J Z |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 7.89 | 1.83 J Z | 1.11 J Z | 1.93 J Z | 2.64 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 1.20 J Z | 1.04 J Z | 0.436 J Z | 0.631 J Z | 0.647 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.91 U B | 6.04 U B | 6.97 U B | 6.23 U B | 5.60 U B |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-090-NBZ-SS-0.0-0.5 | SL-091-NBZ-SS-0.0-0.5 | SL-091-NBZ-SB-4.0-5.0 | DUP-05-NBZ-QC-032912 | SL-092-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | FD | N |
| | | | | Sample Date | 04/17/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 |
| | | | | SDG | DX170 | DX165 | DX165 | DX165 | DX165 |
| | | | | Start Depth | 0 | 0 | 4 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 0.0352 J Z | 0.263 J Z | 0.0336 J Z | 0.104 J FD, Z | 0.0537 J FD, Z |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.789 J Z | 6.46 | 6.02 U B | 2.95 J FD, Z | 0.837 J FD, Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 237 | 2340 | 62.8 | 2260 J FD | 1100 J FD |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 23.8 | 263 | 5.39 J Z | 241 J FD | 101 J FD |
| 1613B | 39001-02-0 | OCDF | ng/kg | 7.08 J Z | 60 | 1.84 J Z | 95.0 J FD | 41.4 J FD |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.407 J Z | 1.97 J Z | 6.02 U B | 1.38 J FD, Z | 0.255 J FD, Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 0.271 J Z | 1.07 J Z | 6.02 U | 0.669 J FD, Z | 5.72 UJ B, FD |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.269 J Z | 0.342 J Z | 1.20 U | 0.165 J FD, Z | 1.14 UJ FD |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 0.396 J Z | 2.51 J Z | 6.02 U B | 4.44 J FD, Z | 1.71 J FD, Z |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 0.647 J Z | 0.663 J Z | 6.02 U B | 0.414 J FD, Z | 5.72 UJ B, FD |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 0.483 J Z | 1.90 J Z | 6.02 U B | 0.646 J FD, Z | 0.228 J FD, Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 0.293 J Z | 1.21 J Z | 6.02 U | 1.20 J FD, Z | 0.451 J FD, Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 1.28 J Z | 11.5 | 6.02 U B | 8.94 J FD | 2.71 J FD, Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 0.380 J Z | 1.42 J Z | 6.02 U B | 2.20 J FD, Z | 0.890 J FD, Z |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 3.21 J Z | 25 | 6.02 U B | 38.5 J FD | 18.2 J FD |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 0.450 J Z | 1.21 J Z | 6.02 U B | 1.26 J FD, Z | 0.600 J FD, Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.87 U B | 5.96 U B | 6.02 U B | 0.425 J FD, Z | 5.72 UJ B, FD |

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

| | | | | Sample Name | SL-094-NBZ-SS-0.0-0.5 | SL-095-NBZ-SS-0.0-0.5 | SL-096-NBZ-SS-0.0-0.5 | SL-097-NBZ-SS-0.0-0.5 | SL-099-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 03/28/2012 | 03/27/2012 | 03/28/2012 | 04/04/2012 | 04/04/2012 |
| | | | | SDG | DX164 | DX163 | DX164 | DX166 | DX167 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.10 U B | 0.153 J Z | 1.13 U B | 0.0590 J Z | 1.09 U |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.495 J Z | 0.501 J Z | 0.389 J Z | 5.21 U B | 5.46 U B |
| 1613B | 3268-87-9 | OCDD | ng/kg | 18.2 | 56.3 | 23.5 | 23.6 | 10.3 J Z |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 2.75 J Z | 6.8 | 3.65 J Z | 3.71 J Z | 1.70 J Z |
| 1613B | 39001-02-0 | OCDF | ng/kg | 1.17 J Z | 3.90 J Z | 1.57 J Z | 1.30 J Z | 0.884 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.207 J Z | 5.61 U B | 5.66 U B | 5.21 U B | 0.0758 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 0.244 J Z | 5.61 U B | 0.169 J Z | 5.21 U B | 5.46 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.155 J Z | 1.12 U B | 0.281 J Z | 0.241 J Z | 0.192 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.48 U B | 0.302 J Z | 5.66 U B | 5.21 U B | 5.46 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 0.339 J Z | 5.61 U B | 5.66 U B | 0.658 J Z | 0.304 J Z |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 0.317 J Z | 0.405 J Z | 0.395 J Z | 5.21 U B | 0.251 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 0.208 J Z | 5.61 U B | 0.206 J Z | 5.21 U B | 0.145 J Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.356 J Z | 0.532 J Z | 0.305 J Z | 5.21 U B | 5.46 U B |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.48 U B | 5.61 U B | 5.66 U B | 5.21 U B | 5.46 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 0.624 J Z | 1.63 J Z | 0.852 J Z | 0.718 J Z | 5.46 U B |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 0.278 J Z | 0.327 J Z | 0.251 J Z | 5.21 U B | 5.46 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 0.312 J Z | 0.191 J Z | 5.66 U B | 5.21 U | 5.46 U B |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-100-NBZ-SS-0.0-0.5 | SL-101-NBZ-SS-0.0-0.5 | SL-102-NBZ-SS-0.0-0.5 | SL-103-NBZ-SS-0.0-0.5 | SL-104-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 04/04/2012 | 03/29/2012 | 03/27/2012 | 03/29/2012 | 04/04/2012 |
| | | | | SDG | DX167 | DX166 | DX164 | DX166 | DX167 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.04 U B | 0.0736 J Z | 1.10 U | 0.0931 J Z | 1.04 U B |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.18 U B | 0.468 J Z | 0.343 J Z | 5.62 U B | 0.275 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 4.09 J Z | 39.7 | 26.4 | 17.4 | 22.9 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 5.18 U B | 4.67 J Z | 2.11 J Z | 2.91 J Z | 3.24 J Z |
| 1613B | 39001-02-0 | OCDF | ng/kg | 10.4 U B | 3.93 J Z | 0.844 J Z | 1.09 J Z | 0.914 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.0280 J Z | 0.190 J Z | 5.51 U B | 5.62 U B | 0.0851 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.18 U B | 0.252 J Z | 0.0370 J Z | 5.62 U B | 5.20 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.0853 J Z | 0.342 J Z | 0.101 J Z | 0.235 J Z | 0.265 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.18 U B | 5.48 U B | 5.51 U B | 5.62 U B | 5.20 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.18 U B | 0.720 J Z | 5.51 U B | 5.62 U B | 5.20 U |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 5.18 U B | 5.48 U B | 5.51 U B | 5.62 U B | 0.263 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.18 U B | 5.48 U B | 5.51 U B | 5.62 U B | 0.130 J Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.18 U B | 5.48 U B | 0.358 J Z | 5.62 U B | 0.259 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.18 U B | 5.48 U B | 5.51 U B | 5.62 U B | 5.20 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 5.18 U B | 1.33 J Z | 0.432 J Z | 5.62 U B | 0.549 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.18 U B | 0.303 J Z | 5.51 U B | 5.62 U B | 0.187 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.18 U B | 5.48 U B | 5.51 U B | 5.62 U B | 5.20 U B |

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

| | | | | Sample Name | SL-105-NBZ-SS-0.0-0.5 | SL-107-NBZ-SS-0.0-0.5 | SL-108-NBZ-SS-0.0-0.5 | SL-109-NBZ-SS-0.0-0.5 | SL-110-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 03/21/2012 | 04/02/2012 | 04/03/2012 | 03/27/2012 | 04/04/2012 |
| | | | | SDG | DX162 | DX165 | DX165 | DX164 | DX167 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.09 U | 0.0376 J Z | 0.0463 J Z | 1.13 U | 1.07 U B |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.43 U B | 0.312 J Z | 5.29 U B | 0.569 J Z | 0.258 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 14.4 | 49.9 | 10.6 U B | 682 | 32.8 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 1.87 J Z | 3.98 J Z | 5.29 U B | 36 | 4.12 J Z |
| 1613B | 39001-02-0 | OCDF | ng/kg | 1.08 J Z | 1.93 J Z | 10.6 U B | 44.1 | 1.63 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.43 U B | 5.37 U B | 5.29 U B | 0.186 J Z | 0.103 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 0.0686 J Z | 5.37 U B | 5.29 U | 0.114 J Z | 5.37 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.239 J Z | 0.271 J Z | 1.06 U B | 0.152 J Z | 0.361 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.43 U B | 5.37 U B | 5.29 U B | 0.604 J Z | 5.37 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 0.517 J Z | 5.37 U B | 5.29 U B | 5.64 U B | 5.37 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 0.361 J Z | 0.464 J Z | 5.29 U B | 0.549 J Z | 0.334 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.43 U B | 0.216 J Z | 5.29 U B | 0.230 J Z | 0.187 J Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.43 U B | 5.37 U B | 5.29 U B | 1.51 J Z | 0.285 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.43 U B | 0.278 J Z | 5.29 U | 0.294 J Z | 0.216 J Z |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 0.591 J Z | 1.04 J Z | 5.29 U B | 10.5 | 0.909 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 0.247 J Z | 0.293 J Z | 5.29 U B | 0.325 J Z | 0.295 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 0.0500 J Z | 5.37 U B | 5.29 U B | 0.253 J Z | 5.37 U B |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-111-NBZ-SS-0.0-0.5 | SL-112-NBZ-SS-0.0-0.5 | SL-113-NBZ-SS-0.0-0.5 | SL-114-NBZ-SS-0.0-0.5 | SL-115-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/04/2012 | 04/03/2012 |
| | | | | SDG | DX165 | DX165 | DX165 | DX167 | DX166 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.25 U | 0.0445 J Z | 1.08 U | 1.06 U | 0.101 J Z |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.883 J Z | 5.33 U B | 0.277 J Z | 5.30 U B | 5.49 U B |
| 1613B | 3268-87-9 | OCDD | ng/kg | 46 | 11.7 | 9.20 J Z | 12.2 | 22 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 6.47 | 5.33 U B | 5.38 U B | 5.30 U B | 2.69 J Z |
| 1613B | 39001-02-0 | OCDF | ng/kg | 3.57 J Z | 10.7 U B | 10.8 U B | 10.6 U B | 1.66 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.207 J Z | 5.33 U B | 5.38 U B | 0.0554 J Z | 0.158 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 6.24 U B | 5.33 U B | 5.38 U B | 5.30 U B | 5.49 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.596 J Z | 1.07 U B | 1.08 U B | 0.0724 J Z | 0.145 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 6.24 U B | 5.33 U B | 5.38 U B | 5.30 U B | 5.49 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 0.673 J Z | 5.33 U B | 5.38 U B | 5.30 U B | 5.49 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 0.744 J Z | 0.168 J Z | 0.170 J Z | 5.30 U B | 5.49 U B |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 0.424 J Z | 5.33 U B | 5.38 U B | 5.30 U B | 5.49 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.758 J Z | 5.33 U B | 5.38 U B | 5.30 U B | 5.49 U B |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 0.569 J Z | 5.33 U B | 5.38 U B | 5.30 U B | 5.49 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 1.87 J Z | 5.33 U B | 5.38 U B | 5.30 U B | 0.791 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 0.558 J Z | 5.33 U B | 5.38 U B | 5.30 U B | 5.49 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 6.24 U B | 5.33 U B | 5.38 U B | 5.30 U B | 5.49 U B |

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

| | | | | Sample Name | SL-116-NBZ-SS-0.0-0.5 | DUP-04-NBZ-QC-032912 | SL-118-NBZ-SS-0.0-0.5 | SL-119-NBZ-SS-0.0-0.5 | SL-120-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | FD | N | N | N |
| | | | | Sample Date | 03/22/2012 | 03/29/2012 | 03/29/2012 | 03/27/2012 | 04/04/2012 |
| | | | | SDG | DX162 | DX166 | DX166 | DX163 | DX167 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.11 U | 0.0737 J FD, Z | 0.0407 J FD, Z | 0.0762 J Z | 1.08 U B |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 1.45 J Z | 5.38 U B | 0.372 J Z | 5.73 U B | 0.555 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 12.5 | 17.3 | 21.9 | 6.85 J Z | 25.6 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 2.01 J Z | 2.60 J Z | 2.70 J Z | 5.73 U B | 3.36 J Z |
| 1613B | 39001-02-0 | OCDF | ng/kg | 1.18 J Z | 1.13 J Z | 1.15 J Z | 11.5 U B | 1.28 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.56 U B | 0.313 J FD, Z | 5.47 UJ B, FD | 5.73 U B | 0.110 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 0.207 J Z | 5.38 U B | 5.47 U B | 5.73 U B | 0.176 J Z |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.137 J Z | 0.148 J FD, Z | 0.269 J FD, Z | 1.15 U B | 0.115 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.56 U B | 5.38 UJ B, FD | 5.47 UJ B, FD | 5.73 U B | 5.41 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.56 U B | 5.38 U B | 5.47 U B | 5.73 U B | 5.41 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 0.251 J Z | 5.38 U B | 0.487 J Z | 5.73 U B | 0.262 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.56 U B | 5.38 UJ B, FD | 5.47 UJ B, FD | 5.73 U B | 0.162 J Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.932 J Z | 5.38 U B | 5.47 U B | 5.73 U B | 0.494 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.56 U B | 5.38 U B | 5.47 U B | 5.73 U B | 5.41 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 0.579 J Z | 5.38 U B | 0.718 J Z | 5.73 U B | 0.677 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.56 U B | 5.38 UJ B, FD | 0.331 J FD, Z | 0.134 J Z | 0.195 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 0.294 J Z | 5.38 UJ FD | 0.200 J FD, Z | 0.0804 J Z | 5.41 U B |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-121-NBZ-SS-0.0-0.5 | SL-122-NBZ-SS-0.0-0.5 | SL-123-NBZ-SS-0.0-0.5 | SL-124-NBZ-SS-0.0-0.5 | SL-126-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 03/30/2012 | 04/03/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 |
| | | | | SDG | DX166 | DX165 | DX163 | DX163 | DX163 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 0.111 J Z | 0.0305 J Z | 0.0802 J Z | 0.118 J Z | 1.20 U |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.38 U B | 5.69 U B | 0.589 J Z | 6.49 U B | 6.01 U B |
| 1613B | 3268-87-9 | OCDD | ng/kg | 5.42 J Z | 13.3 | 55 | 50.9 | 37.6 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 5.38 U B | 2.24 J Z | 4.90 J Z | 6.26 J Z | 5.63 J Z |
| 1613B | 39001-02-0 | OCDF | ng/kg | 0.657 J Z | 1.11 J Z | 2.69 J Z | 5.42 J Z | 2.98 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.38 U B | 5.69 U B | 5.87 U B | 6.49 U B | 6.01 U B |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.38 U | 5.69 U B | 5.87 U B | 6.49 U B | 6.01 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.140 J Z | 0.148 J Z | 1.17 U B | 1.30 U B | 0.364 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.38 U B | 5.69 U B | 0.229 J Z | 0.250 J Z | 0.451 J Z |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.38 U B | 5.69 U B | 0.727 J Z | 0.424 J Z | 1.04 J Z |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 5.38 U B | 0.317 J Z | 0.508 J Z | 0.256 J Z | 0.462 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.38 U B | 5.69 U B | 5.87 U B | 6.49 U B | 0.348 J Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.38 U B | 5.69 U B | 0.515 J Z | 0.458 J Z | 0.400 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.38 U B | 5.69 U B | 5.87 U B | 6.49 U B | 6.01 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 5.38 U B | 5.69 U B | 0.983 J Z | 2.04 J Z | 1.43 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.38 U B | 5.69 U B | 0.384 J Z | 0.265 J Z | 0.454 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.38 U B | 5.69 U B | 0.305 J Z | 0.141 J Z | 0.340 J Z |

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

| | | | | Sample Name | SL-127-NBZ-SS-0.0-0.5 | SL-129-NBZ-SS-0.0-0.5 | SL-130-NBZ-SS-0.0-0.5 | SL-131-NBZ-SS-0.0-0.5 | SL-133-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 04/03/2012 | 03/27/2012 | 03/27/2012 | 03/29/2012 | 03/26/2012 |
| | | | | SDG | DX166 | DX164 | DX163 | DX166 | DX163 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.06 U | 1.21 U B | 0.111 J Z | 0.0628 J Z | 0.0592 J Z |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.31 U B | 5.38 J Z | 5.80 U B | 5.25 U B | 5.76 U B |
| 1613B | 3268-87-9 | OCDD | ng/kg | 4.98 J Z | 1800 | 10.2 J Z | 4.85 J Z | 24.5 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 5.31 U B | 108 | 5.80 U B | 5.25 U B | 3.60 J Z |
| 1613B | 39001-02-0 | OCDF | ng/kg | 10.6 U B | 29 | 1.16 J Z | 10.5 U B | 1.39 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.31 U B | 1.21 J Z | 5.80 U B | 5.25 U B | 5.76 U B |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.31 U | 0.730 J Z | 5.80 U B | 5.25 U B | 5.76 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.0889 J Z | 0.909 J Z | 1.16 U B | 0.102 J Z | 0.353 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.31 U B | 0.665 J Z | 5.80 U B | 5.25 U B | 5.76 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.31 U B | 1.14 J Z | 0.534 J Z | 5.25 U B | 0.682 J Z |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 5.31 U B | 2.03 J Z | 0.313 J Z | 5.25 U B | 0.381 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.31 U B | 0.745 J Z | 5.80 U B | 5.25 U B | 0.325 J Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.31 U B | 11.7 | 5.80 U B | 5.25 U B | 0.388 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.31 U B | 0.955 J Z | 5.80 U B | 5.25 U B | 5.76 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 5.31 U B | 11.8 | 0.561 J Z | 5.25 U B | 0.755 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.31 U B | 1.43 J Z | 0.266 J Z | 5.25 U B | 0.313 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.31 U B | 0.465 J Z | 0.125 J Z | 5.25 U B | 0.0951 J Z |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-134-NBZ-SS-0.0-0.5 | SL-135-NBZ-SS-0.0-0.5 | SL-136-NBZ-SS-0.0-0.5 | SL-138-NBZ-SS-0.0-0.5 | SL-139-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 03/30/2012 | 03/28/2012 | 03/28/2012 | 04/02/2012 | 03/28/2012 |
| | | | | SDG | DX166 | DX164 | DX164 | DX165 | DX164 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.06 U | 1.13 U B | 1.08 U B | 0.0353 J Z | 1.18 U B |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.31 U B | 5.65 U B | 5.40 U B | 5.59 U B | 0.533 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 30.6 | 12.7 | 5.97 J Z | 5.12 J Z | 68.7 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 4.16 J Z | 1.66 J Z | 5.40 U B | 5.59 U B | 5.84 J Z |
| 1613B | 39001-02-0 | OCDF | ng/kg | 1.86 J Z | 0.843 J Z | 10.8 U B | 11.2 U B | 2.29 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.155 J Z | 5.65 U B | 5.40 U B | 5.59 U B | 0.211 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.31 U B | 0.0977 J Z | 0.119 J Z | 5.59 U B | 0.231 J Z |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.208 J Z | 0.0951 J Z | 0.139 J Z | 0.135 J Z | 0.615 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.31 U B | 5.65 U B | 5.40 U B | 5.59 U B | 5.91 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 0.953 J Z | 5.65 U | 0.333 J Z | 5.59 U B | 0.590 J Z |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 5.31 U B | 0.241 J Z | 5.40 U B | 0.129 J Z | 1.02 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.31 U B | 5.65 U B | 5.40 U B | 5.59 U B | 0.362 J Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.31 U B | 5.65 U B | 5.40 U B | 5.59 U B | 0.520 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.31 U B | 5.65 U B | 5.40 U B | 5.59 U B | 0.338 J Z |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 1.01 J Z | 0.438 J Z | 5.40 U B | 5.59 U B | 1.18 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.31 U B | 5.65 U B | 5.40 U B | 5.59 U B | 0.390 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.31 U | 5.65 U B | 5.40 U B | 5.59 U B | 5.91 U B |

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

| | | | | Sample Name | SL-140-NBZ-SS-0.0-0.5 | SL-141-NBZ-SS-0.0-0.5 | SL-143-NBZ-SS-0.0-0.5 | SL-144-NBZ-SS-0.0-0.5 | SL-145-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 04/03/2012 | 03/28/2012 | 03/28/2012 | 04/12/2012 | 04/11/2012 |
| | | | | SDG | DX166 | DX164 | DX164 | DX169 | DX168 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 0.0389 J Z | 1.12 U B | 1.05 U B | 1.13 U | 1.26 U |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.56 U B | 5.62 U B | 5.24 U B | 0.297 J Z | 6.29 U B |
| 1613B | 3268-87-9 | OCDD | ng/kg | 27 | 12.4 | 6.73 J Z | 4.92 J Z | 9.67 J Z |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 3.40 J Z | 2.12 J Z | 5.24 U B | 5.64 U B | 6.29 U B |
| 1613B | 39001-02-0 | OCDF | ng/kg | 2.09 J Z | 1.00 J Z | 10.5 U B | 11.3 U B | 12.6 U B |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.56 U B | 5.62 U B | 5.24 U B | 5.64 U B | 0.0785 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.56 U B | 0.0734 J Z | 0.0367 J Z | 5.64 U B | 6.29 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.216 J Z | 0.179 J Z | 0.0511 J Z | 1.13 U B | 0.280 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.56 U B | 5.62 U B | 5.24 U B | 5.64 U B | 6.29 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 0.798 J Z | 5.62 U B | 5.24 U B | 5.64 U B | 6.29 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 5.56 U B | 0.238 J Z | 5.24 U B | 0.234 J Z | 6.29 U B |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.56 U B | 5.62 U B | 5.24 U B | 5.64 U B | 6.29 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.56 U B | 5.62 U B | 5.24 U B | 5.64 U B | 6.29 U B |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.56 U B | 5.62 U B | 5.24 U B | 5.64 U B | 6.29 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 1.03 J Z | 0.532 J Z | 5.24 U B | 5.64 U B | 6.29 U B |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 0.336 J Z | 5.62 U B | 5.24 U B | 5.64 U B | 6.29 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.56 U B | 5.62 U B | 5.24 U B | 0.297 J Z | 6.29 U |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-146-NBZ-SS-0.0-0.5 | SL-147-NBZ-SS-0.0-0.5 | SL-148-NBZ-SS-0.0-0.5 | SL-149-NBZ-SS-0.0-0.5 | SL-150-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N |
| | | | Sample Date | 04/18/2012 | 04/17/2012 | 04/11/2012 | 04/05/2012 | 04/19/2012 |
| | | | SDG | DX170 | DX170 | DX168 | DX167 | DX171 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 0.0440 J Z | 0.0413 J Z | 1.18 U B | 1.10 U | 1.12 U |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.242 J Z | 5.76 U B | 5.89 U B | 0.483 J Z | 3.53 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 34.3 | 14.3 | 4.63 J Z | 11.9 | 98.5 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 4.61 J Z | 2.21 J Z | 5.89 U B | 2.06 J Z | 14.8 |
| 1613B | 39001-02-0 | OCDF | ng/kg | 1.88 J Z | 0.865 J Z | 11.8 U B | 11.0 U B | 4.10 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.66 U B | 5.76 U B | 0.101 J Z | 0.0627 J Z | 0.290 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 0.108 J Z | 0.0655 J Z | 5.89 U B | 5.48 U B | 0.680 J Z |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.284 J Z | 0.158 J Z | 0.111 J Z | 0.118 J Z | 0.238 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.66 U B | 5.76 U B | 5.89 U B | 5.48 U B | 0.228 J Z |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 0.571 J Z | 5.76 U B | 5.89 U B | 5.48 U B | 1.24 J Z |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 0.292 J Z | 0.357 J Z | 5.89 U B | 5.48 U B | 0.568 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 0.176 J Z | 0.0950 J Z | 5.89 U B | 0.113 J Z | 0.422 J Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.66 U B | 5.76 U B | 5.89 U B | 0.389 J Z | 2.63 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 0.231 J Z | 5.76 U B | 5.89 U B | 5.48 U B | 0.381 J Z |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 1.03 J Z | 0.480 J Z | 5.89 U B | 5.48 U B | 2.08 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 0.248 J Z | 5.76 U B | 5.89 U B | 5.48 U B | 0.444 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.66 U B | 5.76 U B | 5.89 U B | 5.48 U B | 0.505 J Z |

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

| | | | | Sample Name | SL-151-NBZ-SS-0.0-0.5 | SL-152-NBZ-SS-0.0-0.5 | SL-154-NBZ-SS-0.0-0.5 | SL-155-NBZ-SS-0.0-0.5 | SL-156-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 04/09/2012 | 04/12/2012 | 04/11/2012 | 04/04/2012 | 04/17/2012 |
| | | | | SDG | DX168 | DX169 | DX168 | DX167 | DX169 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.10 U B | 1.15 U B | 1.17 U B | 1.07 U B | 1.23 U B |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.49 U B | 0.291 J Z | 1.70 J Z | 0.563 J Z | 6.15 U B |
| 1613B | 3268-87-9 | OCDD | ng/kg | 7.59 J Z | 24.2 | 22.9 | 15.9 | 20.9 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 5.49 U B | 3.82 J Z | 3.63 J Z | 2.01 J Z | 3.20 J Z |
| 1613B | 39001-02-0 | OCDF | ng/kg | 11.0 U B | 1.83 J Z | 1.78 J Z | 0.906 J Z | 1.47 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.0583 J Z | 0.169 J Z | 0.139 J Z | 0.106 J Z | 6.15 U B |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.49 U B | 5.74 U B | 5.83 U B | 0.245 J Z | 6.15 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.123 J Z | 0.394 J Z | 0.269 J Z | 0.162 J Z | 0.254 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.49 U B | 5.74 U B | 5.83 U B | 5.37 U B | 6.15 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.49 U B | 1.30 J Z | 5.83 U B | 0.358 J Z | 0.762 J Z |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 5.49 U B | 0.565 J Z | 0.640 J Z | 0.354 J Z | 0.326 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.49 U B | 0.334 J Z | 0.340 J Z | 0.182 J Z | 6.15 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.49 U B | 5.74 U B | 1.37 J Z | 0.413 J Z | 6.15 U B |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.49 U B | 0.500 J Z | 5.83 U B | 5.37 U B | 6.15 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 5.49 U B | 1.24 J Z | 0.951 J Z | 5.37 U B | 0.849 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.49 U B | 5.74 U B | 5.83 U B | 0.219 J Z | 6.15 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.49 U B | 5.74 U B | 0.769 J Z | 0.217 J Z | 6.15 U B |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-157-NBZ-SS-0.0-0.5 | SL-158-NBZ-SS-0.0-0.5 | SL-159-NBZ-SS-0.0-0.5 | DUP-10-NBZ-QC-041612 | SL-160-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | FD | N |
| | | | | Sample Date | 04/09/2012 | 04/12/2012 | 04/16/2012 | 04/16/2012 | 04/16/2012 |
| | | | | SDG | DX168 | DX170 | DX169 | DX170 | DX169 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.07 U | 0.0457 J Z | 1.14 U B | 1.12 U | 1.09 U |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.37 U B | 0.402 J Z | 0.409 J Z | 0.247 J Z | 5.47 U B |
| 1613B | 3268-87-9 | OCDD | ng/kg | 22.3 | 12.3 | 25.4 | 10.7 J Z | 12.9 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 3.30 J Z | 1.65 J Z | 3.60 J Z | 1.97 J Z | 1.94 J Z |
| 1613B | 39001-02-0 | OCDF | ng/kg | 1.27 J Z | 0.633 J Z | 1.44 J Z | 0.826 J Z | 0.711 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.0951 J Z | 5.68 U B | 5.69 U B | 5.61 U B | 5.47 U B |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.37 U B | 0.0519 J Z | 5.69 U B | 0.108 J Z | 5.47 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.338 J Z | 1.14 U B | 0.179 J Z | 0.208 J Z | 1.09 U B |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.37 U B | 5.68 U B | 5.69 U B | 5.61 U B | 5.47 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.37 U B | 5.68 U B | 0.529 J Z | 0.605 J Z | 5.47 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 5.37 U B | 0.118 J Z | 0.168 J Z | 0.253 J Z | 0.139 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.37 U B | 0.112 J Z | 5.69 U B | 0.159 J Z | 5.47 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.37 U B | 5.68 U B | 5.69 U B | 5.61 U B | 5.47 U B |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.37 U B | 5.68 U B | 0.293 J Z | 0.225 J Z | 5.47 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 0.818 J Z | 0.305 J Z | 0.860 J Z | 0.492 J Z | 0.474 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.37 U B | 5.68 U B | 5.69 U B | 0.238 J Z | 5.47 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.37 U B | 5.68 U B | 5.69 U B | 5.61 U B | 5.47 U B |

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

| | | | | Sample Name | SL-161-NBZ-SS-0.0-0.5 | SL-162-NBZ-SS-0.0-0.5 | SL-163-NBZ-SS-0.0-0.5 | SL-164-NBZ-SS-0.0-0.5 | SL-165-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 04/17/2012 | 04/17/2012 | 04/11/2012 | 04/16/2012 | 04/05/2012 |
| | | | | SDG | DX169 | DX169 | DX168 | DX169 | DX167 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.12 U B | 1.07 U B | 1.15 U B | 1.17 U B | 1.08 U B |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.60 U B | 0.308 J Z | 5.75 U B | 1.44 J Z | 0.331 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 20.7 | 32.1 | 11.5 U B | 15.9 | 17.5 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 3.21 J Z | 4.72 J Z | 5.75 U B | 2.13 J Z | 2.40 J Z |
| 1613B | 39001-02-0 | OCDF | ng/kg | 1.10 J Z | 1.55 J Z | 11.5 U B | 0.857 J Z | 0.938 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.60 U B | 0.165 J Z | 0.0648 J Z | 5.84 U B | 0.0794 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.60 U B | 5.33 U B | 5.75 U B | 5.84 U B | 5.38 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.220 J Z | 0.230 J Z | 0.0407 J Z | 1.17 U B | 0.0660 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.60 U B | 5.33 U B | 5.75 U B | 5.84 U B | 5.38 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 0.521 J Z | 0.849 J Z | 5.75 U B | 5.84 U B | 5.38 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 0.226 J Z | 0.230 J Z | 5.75 U B | 0.235 J Z | 5.38 U B |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.60 U B | 5.33 U B | 5.75 U B | 5.84 U B | 5.38 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.60 U B | 5.33 U B | 5.75 U B | 0.958 J Z | 0.244 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.60 U B | 5.33 U B | 5.75 U B | 5.84 U B | 5.38 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 0.734 J Z | 0.949 J Z | 5.75 U B | 0.550 J Z | 5.38 U B |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.60 U B | 5.33 U B | 5.75 U B | 5.84 U B | 5.38 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.60 U B | 5.33 U | 5.75 U B | 5.84 U B | 5.38 U B |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-166-NBZ-SS-0.0-0.5 | SL-167-NBZ-SS-0.0-0.5 | SL-168-NBZ-SS-0.0-0.5 | SL-169-NBZ-SS-0.0-0.5 | SL-170-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 04/17/2012 | 04/09/2012 | 04/11/2012 | 04/03/2012 | 04/20/2012 |
| | | | | SDG | DX169 | DX168 | DX168 | DX166 | DX171 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.14 U B | 1.04 U | 1.09 U | 1.11 U | 0.0458 J Z |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.379 J Z | 1.65 J Z | 5.47 U B | 0.323 J Z | 0.265 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 36.3 | 17.5 | 8.61 J Z | 35.1 | 22.2 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 5.30 J Z | 2.77 J Z | 5.47 U B | 4.29 J Z | 3.01 J Z |
| 1613B | 39001-02-0 | OCDF | ng/kg | 2.10 J Z | 10.4 U B | 10.9 U B | 1.66 J Z | 1.31 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.209 J Z | 0.107 J Z | 0.0576 J Z | 5.55 U B | 0.105 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.70 U B | 5.20 U B | 5.47 U B | 5.55 U B | 5.42 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.299 J Z | 0.114 J Z | 0.0816 J Z | 0.151 J Z | 0.111 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.70 U B | 5.20 U B | 5.47 U B | 5.55 U B | 5.42 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 1.18 J Z | 5.20 U B | 5.47 U | 5.55 U B | 0.910 J Z |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 0.404 J Z | 5.20 U B | 5.47 U B | 5.55 U B | 0.364 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 0.267 J Z | 0.274 J Z | 5.47 U B | 5.55 U B | 0.161 J Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.70 U B | 1.35 J Z | 5.47 U B | 5.55 U B | 0.358 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 0.314 J Z | 5.20 U B | 5.47 U B | 5.55 U B | 0.197 J Z |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 1.21 J Z | 5.20 U B | 5.47 U B | 0.751 J Z | 0.801 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.70 U B | 5.20 U B | 5.47 U B | 5.55 U B | 0.283 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.70 U B | 5.20 U B | 5.47 U | 5.55 U B | 0.149 J Z |

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

| | | | | Sample Name | SL-171-NBZ-SS-0.0-0.5 | SL-172-NBZ-SS-0.0-0.5 | DUP-08-NBZ-QC-041612 | SL-173-NBZ-SS-0.0-0.5 | SL-174-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | FD | N | N |
| | | | | Sample Date | 04/20/2012 | 04/12/2012 | 04/16/2012 | 04/16/2012 | 04/09/2012 |
| | | | | SDG | DX171 | DX170 | DX169 | DX169 | DX168 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 0.0275 J Z | 1.13 U | 1.17 U B | 1.20 U B | 1.07 U |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.420 J Z | 5.64 U B | 0.635 J Z | 0.717 J Z | 5.34 U B |
| 1613B | 3268-87-9 | OCDD | ng/kg | 59.4 | 23.5 | 18.7 | 22.3 | 8.96 J Z |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 9.63 | 3.36 J Z | 2.89 J Z | 3.96 J Z | 5.34 U B |
| 1613B | 39001-02-0 | OCDF | ng/kg | 2.26 J Z | 1.21 J Z | 1.35 J Z | 1.36 J Z | 10.7 U B |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.142 J Z | 5.64 U B | 0.164 J FD, Z | 0.289 J FD, Z | 0.0604 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.47 U B | 0.101 J Z | 0.313 J Z | 0.415 J Z | 5.34 U |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.226 J Z | 0.149 J Z | 0.202 J Z | 0.277 J Z | 0.156 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.47 U B | 5.64 U B | 5.85 U B | 5.98 U B | 5.34 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 0.463 J Z | 0.462 J Z | 0.659 J Z | 0.817 J Z | 5.34 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 0.234 J Z | 0.203 J Z | 0.368 J FD, Z | 0.617 J FD, Z | 5.34 U B |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 0.204 J Z | 0.112 J Z | 0.267 J Z | 0.426 J Z | 5.34 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.542 J Z | 5.64 U B | 0.466 J Z | 0.629 J Z | 5.34 U B |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 0.238 J Z | 5.64 U B | 5.85 U B | 0.371 J Z | 5.34 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 1.21 J Z | 0.651 J Z | 0.802 J Z | 0.926 J Z | 5.34 U B |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 0.261 J Z | 5.64 U B | 5.85 U B | 0.405 J Z | 5.34 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 0.101 J Z | 5.64 U | 5.85 U B | 5.98 U B | 5.34 U B |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-175-NBZ-SS-0.0-0.5 | SL-176-NBZ-SS-0.0-0.5 | SL-177-NBZ-SS-0.0-0.5 | SL-178-NBZ-SS-0.0-0.5 | SL-179-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 04/05/2012 | 04/11/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 |
| | | | | SDG | DX167 | DX168 | DX168 | DX171 | DX171 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.18 U B | 1.15 U B | 1.05 U | 0.103 J Z | 0.0374 J Z |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.846 J Z | 5.73 U B | 5.24 U B | 0.258 J Z | 0.359 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 28.7 | 11.5 U B | 13.3 | 27.6 | 34.4 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 3.89 J Z | 5.73 U B | 1.88 J Z | 4.07 J Z | 6.43 |
| 1613B | 39001-02-0 | OCDF | ng/kg | 1.58 J Z | 11.5 U B | 10.5 U B | 1.68 J Z | 1.48 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.136 J Z | 0.0579 J Z | 0.0716 J Z | 0.165 J Z | 0.158 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 0.206 J Z | 5.73 U B | 5.24 U B | 0.261 J Z | 5.59 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 1.18 U | 0.0373 J Z | 0.235 J Z | 0.374 J Z | 0.258 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.92 U B | 5.73 U B | 5.24 U B | 0.143 J Z | 5.59 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.92 U B | 5.73 U B | 5.24 U B | 1.44 J Z | 0.907 J Z |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 0.174 J Z | 5.73 U B | 5.24 U B | 0.834 J Z | 0.345 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 0.202 J Z | 5.73 U B | 5.24 U B | 0.279 J Z | 5.59 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.720 J Z | 5.73 U B | 5.24 U B | 0.348 J Z | 0.327 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.92 U B | 5.73 U B | 5.24 U B | 0.229 J Z | 0.231 J Z |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 0.871 J Z | 5.73 U B | 5.24 U B | 0.845 J Z | 0.917 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 0.216 J Z | 5.73 U B | 5.24 U B | 0.398 J Z | 0.323 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.92 U B | 5.73 U B | 5.24 U B | 0.125 J Z | 5.59 U B |

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

| | | | | Sample Name | SL-180-NBZ-SS-0.0-0.5 | SL-181-NBZ-SS-0.0-0.5 | SL-182-NBZ-SS-0.0-0.5 | SL-183-NBZ-SS-0.0-0.5 | SL-184-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 04/13/2012 | 04/04/2012 | 04/11/2012 | 04/13/2012 | 04/19/2012 |
| | | | | SDG | DX170 | DX167 | DX168 | DX170 | DX171 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.21 U | 1.09 U B | 1.15 U B | 1.19 U | 0.0254 J Z |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.318 J Z | 5.44 U B | 0.800 J Z | 5.95 U B | 0.242 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 39.4 | 4.75 J Z | 295 | 21.7 | 21.7 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 5.42 J Z | 5.44 U B | 25.4 | 2.91 J Z | 3.74 J Z |
| 1613B | 39001-02-0 | OCDF | ng/kg | 1.98 J Z | 10.9 U B | 12.4 | 1.15 J Z | 1.33 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.152 J Z | 0.0980 J Z | 0.515 J Z | 5.95 U B | 0.119 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 0.137 J Z | 5.44 U B | 5.75 U B | 0.0519 J Z | 5.63 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.300 J Z | 0.0901 J Z | 1.01 J Z | 0.161 J Z | 0.149 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 6.07 U B | 5.44 U B | 5.75 U B | 5.95 U B | 5.63 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 0.784 J Z | 5.44 U B | 5.75 U B | 0.452 J Z | 1.18 J Z |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 0.317 J Z | 0.178 J Z | 3.49 J Z | 0.248 J Z | 0.231 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 0.200 J Z | 0.106 J Z | 0.635 J Z | 0.0757 J Z | 0.134 J Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.352 J Z | 5.44 U B | 1.24 J Z | 5.95 U B | 0.268 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 0.271 J Z | 5.44 U B | 0.457 J Z | 0.174 J Z | 0.177 J Z |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 1.03 J Z | 5.44 U B | 5.59 J Z | 0.586 J Z | 0.762 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 0.296 J Z | 5.44 U B | 1.00 J Z | 5.95 U B | 0.206 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 6.07 U | 5.44 U B | 5.75 U B | 5.95 U B | 5.63 U B |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-185-NBZ-SS-0.0-0.5 | SL-186-NBZ-SS-0.0-0.5 | SL-187-NBZ-SS-0.0-0.5 | SL-188-NBZ-SS-0.0-0.5 | SL-189-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 04/09/2012 | 04/10/2012 | 04/04/2012 | 04/10/2012 | 04/18/2012 |
| | | | | SDG | DX168 | DX167 | DX167 | DX168 | DX170 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.10 U | 1.07 U B | 1.09 U B | 1.05 U | 0.0312 J Z |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.48 U B | 5.34 U B | 5.45 U B | 0.430 J Z | 0.337 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 19.8 | 11.7 | 20.5 | 22.3 | 7.11 J Z |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 5.48 U B | 1.92 J Z | 2.34 J Z | 2.92 J Z | 5.72 U B |
| 1613B | 39001-02-0 | OCDF | ng/kg | 11.0 U B | 10.7 U B | 1.67 J Z | 10.5 U B | 0.593 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.0934 J Z | 0.0668 J Z | 0.0559 J Z | 0.0885 J Z | 5.72 U B |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.48 U B | 5.34 U B | 5.45 U B | 5.26 U B | 0.0741 J Z |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.141 J Z | 0.183 J Z | 0.0813 J Z | 0.290 J Z | 1.14 U B |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.48 U B | 5.34 U B | 5.45 U B | 5.26 U B | 5.72 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.48 U B | 5.34 U B | 5.45 U B | 5.26 U B | 5.72 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 5.48 U B | 5.34 U B | 0.214 J Z | 5.26 U B | 0.169 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 5.48 U B | 5.34 U B | 0.103 J Z | 5.26 U B | 0.0740 J Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.48 U B | 5.34 U B | 0.238 J Z | 5.26 U B | 5.72 U B |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.48 U B | 5.34 U B | 5.45 U B | 5.26 U B | 5.72 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 5.48 U B | 5.34 U B | 0.582 J Z | 5.26 U B | 5.72 U B |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 5.48 U B | 0.191 J Z | 5.45 U B | 5.26 U B | 5.72 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.48 U B | 5.34 U B | 5.45 U B | 5.26 U B | 5.72 U B |

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

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-190-NBZ-SS-0.0-0.5 | DUP-06-NBZ-QC-040912 | SL-191-NBZ-SS-0.0-0.5 | DUP-09-NBZ-QC-041912 | SL-193-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | FD | N | FD | N |
| | | | Sample Date | 04/05/2012 | 04/09/2012 | 04/09/2012 | 04/19/2012 | 04/19/2012 |
| | | | SDG | DX167 | DX168 | DX168 | DX171 | DX171 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.02 U B | 1.06 U B | 1.09 U B | 0.0624 J FD, Z | 0.0297 J FD, Z |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.08 U B | 0.676 J FD, Z | 0.353 J FD, Z | 0.213 J Z | 0.202 J Z |
| 1613B | 3268-87-9 | OCDD | ng/kg | 19 | 12.9 J FD | 7.61 J FD, Z | 12.4 | 17.2 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 2.51 J Z | 2.13 J Z | 5.44 U B | 1.86 J Z | 2.44 J Z |
| 1613B | 39001-02-0 | OCDF | ng/kg | 0.821 J Z | 1.37 J FD, Z | 10.9 UJ B, FD | 0.809 J Z | 0.843 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.0889 J Z | 0.112 J Z | 0.102 J Z | 0.149 J FD, Z | 0.0890 J FD, Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.08 U B | 5.30 U B | 5.44 U B | 0.196 J Z | 5.53 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.242 J Z | 0.248 J Z | 0.168 J Z | 0.139 J Z | 0.190 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.08 U B | 5.30 U B | 5.44 U B | 5.46 UJ B, FD | 5.53 UJ B, FD |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.08 U B | 5.30 U B | 5.44 U B | 0.761 J Z | 0.905 J Z |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 5.08 U B | 0.607 J Z | 0.456 J Z | 0.317 J Z | 0.298 J Z |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 0.123 J Z | 0.655 J FD, Z | 5.44 UJ B, FD | 0.198 J Z | 0.150 J Z |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.220 J Z | 0.741 J FD, Z | 5.44 UJ B, FD | 0.241 J Z | 0.163 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 5.08 U B | 5.30 U B | 5.44 U B | 0.168 J Z | 0.190 J Z |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 5.08 U B | 5.30 UJ B, FD | 5.44 UJ B, FD | 0.441 J Z | 0.444 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 0.196 J Z | 5.30 U B | 5.44 U B | 0.239 J Z | 0.197 J Z |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.08 U | 5.30 U B | 5.44 U B | 0.143 J FD, Z | 5.53 UJ B, FD |

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

Appendix A5
Dioxins-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-194-NBZ-SS-0.0-0.5 | SL-195-NBZ-SS-0.0-0.5 | SL-196-NBZ-SS-0.0-0.5 | SL-197-NBZ-SS-0.0-0.5 | SL-198-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 04/02/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 | 04/03/2012 |
| | | | | SDG | DX165 | DX163 | DX163 | DX166 | DX166 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 1.12 U | 1.12 U | 0.0857 J Z | 1.15 U | 1.04 U |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.516 J Z | 5.59 U B | 6.01 U B | 0.399 J Z | 5.21 U B |
| 1613B | 3268-87-9 | OCDD | ng/kg | 179 | 17.9 | 39.2 | 54.3 | 5.91 J Z |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 12.7 | 2.49 J Z | 5.62 J Z | 6.18 | 5.21 U B |
| 1613B | 39001-02-0 | OCDF | ng/kg | 5.43 J Z | 1.26 J Z | 2.72 J Z | 2.79 J Z | 10.4 U B |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 5.62 U B | 5.59 U B | 6.01 U B | 0.263 J Z | 5.21 U B |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 0.272 J Z | 5.59 U B | 6.01 U B | 0.266 J Z | 5.21 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.376 J Z | 0.307 J Z | 1.20 U B | 0.508 J Z | 0.0715 J Z |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.62 U B | 5.59 U B | 0.230 J Z | 5.73 U B | 5.21 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 5.62 U B | 5.59 U B | 0.674 J Z | 1.33 J Z | 5.21 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 2.42 J Z | 5.59 U B | 0.468 J Z | 0.852 J Z | 5.21 U B |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 0.348 J Z | 5.59 U B | 6.01 U B | 5.73 U B | 5.21 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.659 J Z | 5.59 U B | 0.463 J Z | 5.73 U B | 5.21 U B |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 0.330 J Z | 5.59 U B | 6.01 U B | 5.73 U B | 5.21 U B |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 1.96 J Z | 0.660 J Z | 1.25 J Z | 1.36 J Z | 5.21 U B |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 0.536 J Z | 0.138 J Z | 0.366 J Z | 0.519 J Z | 5.21 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.62 U B | 0.0988 J Z | 0.179 J Z | 0.242 J Z | 5.21 U B |

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-199-NBZ-SS-0.0-0.5 | SL-200-NBZ-SS-0.0-0.5 | SL-201-NBZ-SS-0.0-0.5 | SL-202-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N |
| | | | Sample Date | 04/23/2012 | 04/23/2012 | 04/23/2012 | 04/20/2012 |
| | | | SDG | DX171 | DX171 | DX171 | DX171 |
| | | | Start Depth | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | |
| 1613B | 1746-01-6 | 2,3,7,8-TCDD | ng/kg | 0.0617 J Z | 0.0360 J Z | 0.154 J Z | 0.0276 J Z |
| 1613B | 19408-74-3 | 1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.311 J Z | 0.345 J Z | 3.00 J Z | 5.23 U B |
| 1613B | 3268-87-9 | OCDD | ng/kg | 7.82 J Z | 12.9 | 2780 | 17 |
| 1613B | 35822-46-9 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin | ng/kg | 1.48 J Z | 1.88 J Z | 134 | 2.32 J Z |
| 1613B | 39001-02-0 | OCDF | ng/kg | 0.778 J Z | 0.833 J Z | 60.7 | 1.05 J Z |
| 1613B | 39227-28-6 | 1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.0782 J Z | 0.0848 J Z | 1.69 J Z | 0.0842 J Z |
| 1613B | 40321-76-4 | 1,2,3,7,8-Pentachlorodibenzo-p-Dioxin | ng/kg | 5.27 U B | 5.44 U B | 0.849 J Z | 5.23 U B |
| 1613B | 51207-31-9 | 2,3,7,8-Tetrachlorodibenzofuran | ng/kg | 0.268 J Z | 1.09 U B | 0.382 J Z | 1.05 U B |
| 1613B | 55673-89-7 | 1,2,3,4,7,8,9-HPCDF | ng/kg | 5.27 U B | 5.44 U B | 1.10 J Z | 5.23 U B |
| 1613B | 57117-31-4 | 2,3,4,7,8-PECDF | ng/kg | 0.838 J Z | 0.458 J Z | 1.14 J Z | 5.23 U B |
| 1613B | 57117-41-6 | 1,2,3,7,8-Pentachlorodibenzofuran | ng/kg | 0.350 J Z | 5.44 U B | 7.99 | 5.23 U B |
| 1613B | 57117-44-9 | 1,2,3,6,7,8-HXCDF | ng/kg | 0.172 J Z | 5.44 U B | 1.13 J Z | 5.23 U B |
| 1613B | 57653-85-7 | 1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin | ng/kg | 0.231 J Z | 0.320 J Z | 9.29 | 0.159 J Z |
| 1613B | 60851-34-5 | 2,3,4,6,7,8-HXCDF | ng/kg | 0.197 J Z | 0.128 J Z | 1.14 J Z | 0.133 J Z |
| 1613B | 67562-39-4 | 1,2,3,4,6,7,8-HPCDF | ng/kg | 0.422 J Z | 0.484 J Z | 19 | 0.512 J Z |
| 1613B | 70648-26-9 | 1,2,3,4,7,8-HXCDF | ng/kg | 0.283 J Z | 5.44 U B | 3.18 J Z | 5.23 U B |
| 1613B | 72918-21-9 | 1,2,3,7,8,9-HXCDF | ng/kg | 5.27 U B | 5.44 U B | 0.722 J Z | 5.23 U B |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-001-NBZ-SS-0.0-0.5 | SL-002-NBZ-SS-0.0-0.5 | SL-002-NBZ-SB-4.0-5.0 | SL-002-NBZ-SB-7.5-8.5 | SL-003-NBZ-SS-0.0-0.5 | SL-003-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/09/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 |
| | | | SDG | 12D084 | 12C096 | 12C096 | 12C096 | 12C096 | 12C096 |
| | | | Start Depth | 0 | 0 | 4 | 7.5 | 0 | 4 |
| | | | End Depth | 0.5 | 0.5 | 5 | 8.5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8330A | 118-96-7 | 2,4,6-Trinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 121-82-4 | RDX | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 19406-51-0 | 4-Amino-2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 2691-41-0 | HMX | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 35572-78-2 | 2-Amino-4,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 479-45-8 | Tetryl | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 59229-75-3 | 2,6-Diamino-4-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 6629-29-4 | 2,4-Diamino-6-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 88-72-2 | 2-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 98-95-3 | Nitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 99-08-1 | 3-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 99-65-0 | M-Dinitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 99-99-0 | 4-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8332 | 55-63-0 | Nitroglycerin | µg/kg | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U |
| 8332 | 78-11-5 | PETN | µg/kg | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U |

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

Appendix A6
Energetics-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-004-NBZ-SS-0.0-0.5 | SL-005-NBZ-SB-4.0-5.0 | SL-006-NBZ-SB-3.0-4.0 | SL-007-NBZ-SB-4.0-5.0 | SL-007-NBZ-SB-9.0-10.0 | SL-008-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/11/2012 | 03/13/2012 | 03/13/2012 | 03/12/2012 | 03/12/2012 | 04/18/2012 |
| | | | SDG | 12D106 | 12C106 | 12C106 | 12C096 | 12C096 | 12D166 |
| | | | Start Depth | 0 | 4 | 3 | 4 | 9 | 4 |
| | | | End Depth | 0.5 | 5 | 4 | 5 | 10 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8330A | 118-96-7 | 2,4,6-Trinitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 100 U | 100 U |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 100 U | 100 U |
| 8330A | 121-82-4 | RDX | µg/kg | 100 U | 100 U | 99 U | 100 U | 100 U | 100 U |
| 8330A | 19406-51-0 | 4-Amino-2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 100 U | 100 U |
| 8330A | 2691-41-0 | HMX | µg/kg | 100 U | 100 U | 99 U | 100 U | 100 U | 100 U |
| 8330A | 35572-78-2 | 2-Amino-4,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 100 U | 100 U |
| 8330A | 479-45-8 | Tetryl | µg/kg | 100 U | 100 U | 99 U | 100 U | 100 U | 100 U |
| 8330A | 59229-75-3 | 2,6-Diamino-4-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 100 U | 100 U |
| 8330A | 6629-29-4 | 2,4-Diamino-6-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 88-72-2 | 2-Nitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 100 U | 100 U |
| 8330A | 98-95-3 | Nitrobenzene | µg/kg | 100 U | 100 U | 99 U | 100 U | 100 U | 100 U |
| 8330A | 99-08-1 | 3-Nitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 100 U | 100 U |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | µg/kg | 100 U | 100 U | 99 U | 100 U | 100 U | 100 U |
| 8330A | 99-65-0 | M-Dinitrobenzene | µg/kg | 100 U | 100 U | 99 U | 100 U | 100 U | 100 U |
| 8330A | 99-99-0 | 4-Nitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 100 U | 100 U |
| 8332 | 55-63-0 | Nitroglycerin | µg/kg | 1000 U | 1000 U | 990 U | 1000 U | 1000 U | 1000 U |
| 8332 | 78-11-5 | PETN | µg/kg | 1000 U | 1000 U | 990 U | 1000 U | 1000 U | 1000 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | DUP-07-NBZ-QC-041012 | SL-009-NBZ-SS-0.0-0.5 | SL-010-NBZ-SB-4.0-5.0 | SL-011-NBZ-SS-0.0-0.5 | SL-012-NBZ-SS-0.0-0.5 | SL-012-NBZ-SB-0.5-1.5 |
| | | | Sample Type | FD | N | N | N | N | N |
| | | | Sample Date | 04/10/2012 | 04/10/2012 | 03/12/2012 | 04/12/2012 | 04/19/2012 | 04/19/2012 |
| | | | SDG | 12D092 | 12D092 | 12C096 | 12D122 | 12D176 | 12D176 |
| | | | Start Depth | 0 | 0 | 4 | 0 | 0 | 0.5 |
| | | | End Depth | 0.5 | 0.5 | 5 | 0.5 | 0.5 | 1.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8330A | 118-96-7 | 2,4,6-Trinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 121-82-4 | RDX | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 19406-51-0 | 4-Amino-2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 2691-41-0 | HMX | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 35572-78-2 | 2-Amino-4,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 479-45-8 | Tetryl | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 59229-75-3 | 2,6-Diamino-4-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 6629-29-4 | 2,4-Diamino-6-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 88-72-2 | 2-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 98-95-3 | Nitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 99-08-1 | 3-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 99-65-0 | M-Dinitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 99-99-0 | 4-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U |
| 8332 | 55-63-0 | Nitroglycerin | µg/kg | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U |
| 8332 | 78-11-5 | PETN | µg/kg | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U |

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

Appendix A6
Energetics-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-013-NBZ-SS-0.0-0.5 | SL-014-NBZ-SS-0.0-0.5 | SL-016-NBZ-SS-0.0-0.5 | SL-017-NBZ-SS-0.0-0.5 | SL-018-NBZ-SS-0.0-0.5 | SL-019-NBZ-SB-3.0-4.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 04/16/2012 | 04/17/2012 | 04/20/2012 | 04/19/2012 | 04/20/2012 | 03/13/2012 |
| | | | | SDG | 12D146 | 12D154 | 12D192 | 12D176 | 12D192 | 12C106 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 3 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 4 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8330A | 118-96-7 | 2,4,6-Trinitrotoluene | µg/kg | 99 U | 99 U | 99 U | 100 U | 100 U | 99 U |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 99 U | 99 U | 99 U | 100 U | 100 U | 99 U |
| 8330A | 121-82-4 | RDX | µg/kg | 99 U | 99 U | 99 U | 100 U | 100 U | 99 U |
| 8330A | 19406-51-0 | 4-Amino-2,6-Dinitrotoluene | µg/kg | 99 U | 99 U | 99 U | 100 U | 100 U | 99 U |
| 8330A | 2691-41-0 | HMX | µg/kg | 99 U | 99 U | 99 U | 100 U | 100 U | 99 U |
| 8330A | 35572-78-2 | 2-Amino-4,6-Dinitrotoluene | µg/kg | 99 U | 99 U | 99 U | 100 U | 100 U | 99 U |
| 8330A | 479-45-8 | Tetryl | µg/kg | 99 U | 99 U | 99 U | 100 U | 100 U | 99 U |
| 8330A | 59229-75-3 | 2,6-Diamino-4-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 99 U | 99 U | 99 U | 100 U | 100 U | 99 U |
| 8330A | 6629-29-4 | 2,4-Diamino-6-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 88-72-2 | 2-Nitrotoluene | µg/kg | 99 U | 99 U | 99 U | 100 U | 100 U | 99 U |
| 8330A | 98-95-3 | Nitrobenzene | µg/kg | 99 U | 99 U | 99 U | 100 U | 100 U | 99 U |
| 8330A | 99-08-1 | 3-Nitrotoluene | µg/kg | 99 U | 99 U | 99 U | 100 U | 100 U | 99 U |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | µg/kg | 99 U | 99 U | 99 U | 100 U | 100 U | 99 U |
| 8330A | 99-65-0 | M-Dinitrobenzene | µg/kg | 99 U | 99 U | 99 U | 100 U | 100 U | 99 U |
| 8330A | 99-99-0 | 4-Nitrotoluene | µg/kg | 99 U | 99 U | 99 U | 100 U | 100 U | 99 U |
| 8332 | 55-63-0 | Nitroglycerin | µg/kg | 990 U | 990 U | 990 U | 1000 U | 1000 U | 990 U |
| 8332 | 78-11-5 | PETN | µg/kg | 990 U | 990 U | 990 U | 1000 U | 1000 U | 990 U |

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

| | | | | Sample Name | SL-020-NBZ-SB-2.5-3.5 | SL-021-NBZ-SB-4.0-5.0 | SL-022-NBZ-SS-0.0-0.5 | SL-022-NBZ-SB-4.0-5.0 | SL-022-NBZ-SB-9.0-10.0 | SL-023-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 04/04/2012 | 03/13/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 |
| | | | | SDG | 12D031 | 12C106 | 12C121 | 12C121 | 12C121 | 12C121 |
| | | | | Start Depth | 2.5 | 4 | 0 | 4 | 9 | 0 |
| | | | | End Depth | 3.5 | 5 | 0.5 | 5 | 10 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8330A | 118-96-7 | 2,4,6-Trinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 99 U | 99 U | 99 U |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 99 U | 99 U | 99 U |
| 8330A | 121-82-4 | RDX | µg/kg | 100 U | 100 U | 100 U | 99 U | 99 U | 99 U |
| 8330A | 19406-51-0 | 4-Amino-2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 99 U | 99 U | 99 U |
| 8330A | 2691-41-0 | HMX | µg/kg | 100 U | 100 U | 100 U | 99 U | 99 U | 99 U |
| 8330A | 35572-78-2 | 2-Amino-4,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 99 U | 99 U | 99 U |
| 8330A | 479-45-8 | Tetryl | µg/kg | 100 U | 100 U | 100 U | 99 U | 99 U | 99 U |
| 8330A | 59229-75-3 | 2,6-Diamino-4-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 99 U | 99 U | 99 U |
| 8330A | 6629-29-4 | 2,4-Diamino-6-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 88-72-2 | 2-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 99 U | 99 U | 99 U |
| 8330A | 98-95-3 | Nitrobenzene | µg/kg | 100 U | 100 U | 100 U | 99 U | 99 U | 99 U |
| 8330A | 99-08-1 | 3-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 99 U | 99 U | 99 U |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | µg/kg | 100 U | 100 U | 100 U | 99 U | 99 U | 99 U |
| 8330A | 99-65-0 | M-Dinitrobenzene | µg/kg | 100 U | 100 U | 100 U | 99 U | 99 U | 99 U |
| 8330A | 99-99-0 | 4-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 99 U | 99 U | 99 U |
| 8332 | 55-63-0 | Nitroglycerin | µg/kg | 1000 U | 1000 U | 1000 U | 990 U | 990 U | 990 U |
| 8332 | 78-11-5 | PETN | µg/kg | 1000 U | 1000 U | 1000 U | 990 U | 990 U | 990 U |

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

Appendix A6
Energetics-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-023-NBZ-SB-4.0-5.0 | SL-023-NBZ-SB-8.5-9.5 | SL-024-NBZ-SS-0.0-0.5 | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/14/2012 | 03/14/2012 | 03/14/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 |
| | | | | SDG | 12C121 | 12C121 | 12C121 | 12D004 | 12D004 | 12D004 |
| | | | | Start Depth | 4 | 8.5 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 5 | 9.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8330A | 118-96-7 | 2,4,6-Trinitrotoluene | µg/kg | 99 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 99 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 121-82-4 | RDX | µg/kg | 99 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 19406-51-0 | 4-Amino-2,6-Dinitrotoluene | µg/kg | 99 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 2691-41-0 | HMX | µg/kg | 99 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 35572-78-2 | 2-Amino-4,6-Dinitrotoluene | µg/kg | 99 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 479-45-8 | Tetryl | µg/kg | 99 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 59229-75-3 | 2,6-Diamino-4-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 99 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 6629-29-4 | 2,4-Diamino-6-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 88-72-2 | 2-Nitrotoluene | µg/kg | 99 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 98-95-3 | Nitrobenzene | µg/kg | 99 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-08-1 | 3-Nitrotoluene | µg/kg | 99 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | µg/kg | 99 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-65-0 | M-Dinitrobenzene | µg/kg | 99 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-99-0 | 4-Nitrotoluene | µg/kg | 99 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8332 | 55-63-0 | Nitroglycerin | µg/kg | 990 U | 1000 U | 1000 U | 1000 U | 1000 U | 990 U |
| 8332 | 78-11-5 | PETN | µg/kg | 990 U | 1000 U | 1000 U | 1000 U | 1000 U | 990 U |

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

| | | | | Sample Name | SL-028-NBZ-SS-0.0-0.5 | SL-029-NBZ-SS-0.0-0.5 | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 04/02/2012 | 03/15/2012 | 03/14/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 |
| | | | | SDG | 12D004 | 12C135 | 12C121 | 12D018 | 12D018 | 12D018 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8330A | 118-96-7 | 2,4,6-Trinitrotoluene | µg/kg | 99 U | 100 U | 100 U | 100 U | 99 U | 99 U |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 99 U | 100 U | 100 U | 100 U | 99 U | 99 U |
| 8330A | 121-82-4 | RDX | µg/kg | 99 U | 100 U | 100 U | 100 U | 99 U | 99 U |
| 8330A | 19406-51-0 | 4-Amino-2,6-Dinitrotoluene | µg/kg | 99 U | 100 U | 100 U | 100 U | 99 U | 99 U |
| 8330A | 2691-41-0 | HMX | µg/kg | 99 U | 100 U | 100 U | 100 U | 99 U | 99 U |
| 8330A | 35572-78-2 | 2-Amino-4,6-Dinitrotoluene | µg/kg | 99 U | 100 U | 100 U | 100 U | 99 U | 99 U |
| 8330A | 479-45-8 | Tetryl | µg/kg | 99 U | 100 U | 100 U | 100 U | 99 U | 99 U |
| 8330A | 59229-75-3 | 2,6-Diamino-4-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 99 U | 100 U | 100 U | 100 U | 99 U | 99 U |
| 8330A | 6629-29-4 | 2,4-Diamino-6-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 88-72-2 | 2-Nitrotoluene | µg/kg | 99 U | 100 U | 100 U | 100 U | 99 U | 99 U |
| 8330A | 98-95-3 | Nitrobenzene | µg/kg | 99 U | 100 U | 100 U | 100 U | 99 U | 99 U |
| 8330A | 99-08-1 | 3-Nitrotoluene | µg/kg | 99 U | 100 U | 100 U | 100 U | 99 U | 99 U |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | µg/kg | 99 U | 100 U | 100 U | 100 U | 99 U | 99 U |
| 8330A | 99-65-0 | M-Dinitrobenzene | µg/kg | 99 U | 100 U | 100 U | 100 U | 99 U | 99 U |
| 8330A | 99-99-0 | 4-Nitrotoluene | µg/kg | 99 U | 100 U | 100 U | 100 U | 99 U | 99 U |
| 8332 | 55-63-0 | Nitroglycerin | µg/kg | 990 U | 1000 U | 1000 U | 1000 U | 990 U | 990 U |
| 8332 | 78-11-5 | PETN | µg/kg | 990 U | 1000 U | 1000 U | 1000 U | 990 U | 990 U |

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

Appendix A6
Energetics-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-034-NBZ-SS-0.0-0.5 | SL-035-NBZ-SS-0.0-0.5 | SL-035-NBZ-SB-2.0-3.0 | SL-036-NBZ-SB-4.0-5.0 | SL-036-NBZ-SB-7.5-8.5 | SL-037-NBZ-SB-3.0-4.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 04/03/2012 | 04/03/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 |
| | | | SDG | 12D018 | 12D018 | 12D018 | 12C285 | 12C285 | 12C285 |
| | | | Start Depth | 0 | 0 | 2 | 4 | 7.5 | 3 |
| | | | End Depth | 0.5 | 0.5 | 3 | 5 | 8.5 | 4 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8330A | 118-96-7 | 2,4,6-Trinitrotoluene | µg/kg | 100 U | 99 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 100 U | 99 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 121-82-4 | RDX | µg/kg | 100 U | 99 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 19406-51-0 | 4-Amino-2,6-Dinitrotoluene | µg/kg | 100 U | 99 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 2691-41-0 | HMX | µg/kg | 100 U | 99 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 35572-78-2 | 2-Amino-4,6-Dinitrotoluene | µg/kg | 100 U | 99 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 479-45-8 | Tetryl | µg/kg | 100 U | 99 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 59229-75-3 | 2,6-Diamino-4-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 100 U | 99 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 6629-29-4 | 2,4-Diamino-6-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 88-72-2 | 2-Nitrotoluene | µg/kg | 100 U | 99 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 98-95-3 | Nitrobenzene | µg/kg | 100 U | 99 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 99-08-1 | 3-Nitrotoluene | µg/kg | 100 U | 99 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | µg/kg | 100 U | 99 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 99-65-0 | M-Dinitrobenzene | µg/kg | 100 U | 99 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 99-99-0 | 4-Nitrotoluene | µg/kg | 100 U | 99 U | 100 U | 99 U | 100 U | 99 U |
| 8332 | 55-63-0 | Nitroglycerin | µg/kg | 1000 U | 990 U | 1000 U | 990 U | 1000 U | 990 U |
| 8332 | 78-11-5 | PETN | µg/kg | 1000 U | 990 U | 1000 U | 990 U | 1000 U | 990 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-038-NBZ-SS-0.0-0.5 | SL-039-NBZ-SB-2.0-3.0 | SL-040-NBZ-SS-0.0-0.5 | DUP-03-NBZ-QC-032812 | SL-040-NBZ-SB-2.5-3.5 | SL-042-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | FD | N | N |
| | | | Sample Date | 03/27/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/26/2012 |
| | | | SDG | 12C273 | 12C273 | 12C285 | 12C285 | 12C285 | 12C261 |
| | | | Start Depth | 0 | 2 | 0 | 2.5 | 2.5 | 0 |
| | | | End Depth | 0.5 | 3 | 0.5 | 3.5 | 3.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8330A | 118-96-7 | 2,4,6-Trinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 121-82-4 | RDX | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 19406-51-0 | 4-Amino-2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 2691-41-0 | HMX | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 35572-78-2 | 2-Amino-4,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 479-45-8 | Tetryl | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 59229-75-3 | 2,6-Diamino-4-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 6629-29-4 | 2,4-Diamino-6-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 88-72-2 | 2-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 98-95-3 | Nitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-08-1 | 3-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-65-0 | M-Dinitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-99-0 | 4-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8332 | 55-63-0 | Nitroglycerin | µg/kg | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | 990 U |
| 8332 | 78-11-5 | PETN | µg/kg | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | 990 U |

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

Appendix A6
Energetics-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-043-NBZ-SS-0.0-0.5 | SL-044-NBZ-SS-0.0-0.5 | SL-045-NBZ-SS-0.0-0.5 | SL-045-NBZ-SB-4.0-5.0 | SL-046-NBZ-SS-0.0-0.5 | SL-046-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/29/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 |
| | | | SDG | 12C261 | 12C305 | 12C261 | 12C261 | 12C261 | 12C261 |
| | | | Start Depth | 0 | 0 | 0 | 4 | 0 | 4 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8330A | 118-96-7 | 2,4,6-Trinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 121-82-4 | RDX | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 19406-51-0 | 4-Amino-2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 2691-41-0 | HMX | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 35572-78-2 | 2-Amino-4,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 479-45-8 | Tetryl | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 59229-75-3 | 2,6-Diamino-4-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 6629-29-4 | 2,4-Diamino-6-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 88-72-2 | 2-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 98-95-3 | Nitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-08-1 | 3-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-65-0 | M-Dinitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-99-0 | 4-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8332 | 55-63-0 | Nitroglycerin | µg/kg | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | 990 U |
| 8332 | 78-11-5 | PETN | µg/kg | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | 990 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-047-NBZ-SB-4.0-5.0 | SL-048-NBZ-SS-0.0-0.5 | SL-048-NBZ-SB-4.0-5.0 | SL-049-NBZ-SB-2.0-3.0 | SL-050-NBZ-SS-0.0-0.5 | SL-051-NBZ-SB-1.5-2.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/26/2012 | 03/23/2012 |
| | | | SDG | 12C254 | 12C254 | 12C254 | 12C254 | 12C261 | 12C254 |
| | | | Start Depth | 4 | 0 | 4 | 2 | 0 | 1.5 |
| | | | End Depth | 5 | 0.5 | 5 | 3 | 0.5 | 2.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8330A | 118-96-7 | 2,4,6-Trinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 121-82-4 | RDX | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 19406-51-0 | 4-Amino-2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 2691-41-0 | HMX | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 35572-78-2 | 2-Amino-4,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 479-45-8 | Tetryl | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 59229-75-3 | 2,6-Diamino-4-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 6629-29-4 | 2,4-Diamino-6-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 88-72-2 | 2-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 98-95-3 | Nitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-08-1 | 3-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-65-0 | M-Dinitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-99-0 | 4-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8332 | 55-63-0 | Nitroglycerin | µg/kg | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | 990 U |
| 8332 | 78-11-5 | PETN | µg/kg | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | 990 U |

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

Appendix A6
Energetics-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-052-NBZ-SS-0.0-0.5 | SL-053-NBZ-SS-0.0-0.5 | SL-053-NBZ-SB-3.5-4.5 | SL-054-NBZ-SS-0.0-0.5 | SL-055-NBZ-SS-0.0-0.5 | SL-056-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/15/2012 | 03/15/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/15/2012 |
| | | | SDG | 12C135 | 12C135 | 12C135 | 12C229 | 12C229 | 12C135 |
| | | | Start Depth | 0 | 0 | 3.5 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 4.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8330A | 118-96-7 | 2,4,6-Trinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 121-82-4 | RDX | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 19406-51-0 | 4-Amino-2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 2691-41-0 | HMX | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 35572-78-2 | 2-Amino-4,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 479-45-8 | Tetryl | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 59229-75-3 | 2,6-Diamino-4-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 6629-29-4 | 2,4-Diamino-6-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 88-72-2 | 2-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 98-95-3 | Nitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-08-1 | 3-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-65-0 | M-Dinitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-99-0 | 4-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 100 U | 99 U |
| 8332 | 55-63-0 | Nitroglycerin | µg/kg | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | 990 U |
| 8332 | 78-11-5 | PETN | µg/kg | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | 990 U |

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

| | | | | Sample Name | SL-056-NBZ-SB-3.0-4.0 | DUP-02-NBZ-QC-032312 | SL-057-NBZ-SS-0.0-0.5 | SL-058-NBZ-SB-4.0-5.0 | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | FD | N | N | N | N |
| | | | | Sample Date | 03/15/2012 | 03/23/2012 | 03/23/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 |
| | | | | SDG | 12C135 | 12C254 | 12C254 | 12C135 | 12C229 | 12C229 |
| | | | | Start Depth | 3 | 0 | 0 | 5 | 0 | 0 |
| | | | | End Depth | 4 | 0.5 | 0.5 | 5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8330A | 118-96-7 | 2,4,6-Trinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 99 U | 100 U |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 99 U | 100 U |
| 8330A | 121-82-4 | RDX | µg/kg | 100 U | 100 U | 100 U | 100 U | 99 U | 100 U |
| 8330A | 19406-51-0 | 4-Amino-2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 99 U | 100 U |
| 8330A | 2691-41-0 | HMX | µg/kg | 100 U | 100 U | 100 U | 100 U | 99 U | 100 U |
| 8330A | 35572-78-2 | 2-Amino-4,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 99 U | 100 U |
| 8330A | 479-45-8 | Tetryl | µg/kg | 100 U | 100 U | 100 U | 100 U | 99 U | 100 U |
| 8330A | 59229-75-3 | 2,6-Diamino-4-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 99 U | 100 U |
| 8330A | 6629-29-4 | 2,4-Diamino-6-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 88-72-2 | 2-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 99 U | 100 U |
| 8330A | 98-95-3 | Nitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 99 U | 100 U |
| 8330A | 99-08-1 | 3-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 99 U | 100 U |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 99 U | 100 U |
| 8330A | 99-65-0 | M-Dinitrobenzene | µg/kg | 100 U | 100 U | 100 U | 100 U | 99 U | 100 U |
| 8330A | 99-99-0 | 4-Nitrotoluene | µg/kg | 100 U | 100 U | 100 U | 100 U | 99 U | 100 U |
| 8332 | 55-63-0 | Nitroglycerin | µg/kg | 1000 U | 1000 U | 1000 U | 1000 U | 990 U | 1000 U |
| 8332 | 78-11-5 | PETN | µg/kg | 1000 U | 1000 U | 1000 U | 1000 U | 990 U | 1000 U |

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

Appendix A6
Energetics-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-061-NBZ-SB-1.0-2.0 | SL-062-NBZ-SB-2.5-3.5 | SL-063-NBZ-SB-0.5-1.5 | SL-064-NBZ-SB-0.5-1.5 | SL-065-NBZ-SB-1.0-2.0 | SL-066-NBZ-SB-2.0-3.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/22/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 |
| | | | | SDG | 12C229 | 12C209 | 12C209 | 12C209 | 12C209 | 12C209 |
| | | | | Start Depth | 1 | 2.5 | 0.5 | 0.5 | 1 | 2 |
| | | | | End Depth | 2 | 3.5 | 1.5 | 1.5 | 2 | 3 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8330A | 118-96-7 | 2,4,6-Trinitrotoluene | µg/kg | 99 U | 100 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 99 U | 100 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 121-82-4 | RDX | µg/kg | 99 U | 100 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 19406-51-0 | 4-Amino-2,6-Dinitrotoluene | µg/kg | 99 U | 100 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 2691-41-0 | HMX | µg/kg | 99 U | 100 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 35572-78-2 | 2-Amino-4,6-Dinitrotoluene | µg/kg | 99 U | 100 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 479-45-8 | Tetryl | µg/kg | 99 U | 100 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 59229-75-3 | 2,6-Diamino-4-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 99 U | 100 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 6629-29-4 | 2,4-Diamino-6-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 88-72-2 | 2-Nitrotoluene | µg/kg | 99 U | 100 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 98-95-3 | Nitrobenzene | µg/kg | 99 U | 100 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 99-08-1 | 3-Nitrotoluene | µg/kg | 99 U | 100 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | µg/kg | 99 U | 100 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 99-65-0 | M-Dinitrobenzene | µg/kg | 99 U | 100 U | 100 U | 99 U | 100 U | 99 U |
| 8330A | 99-99-0 | 4-Nitrotoluene | µg/kg | 99 U | 100 U | 100 U | 99 U | 100 U | 99 U |
| 8332 | 55-63-0 | Nitroglycerin | µg/kg | 990 U | 1000 U | 1000 U | 990 U | 1000 U | 990 U |
| 8332 | 78-11-5 | PETN | µg/kg | 990 U | 1000 U | 1000 U | 990 U | 1000 U | 990 U |

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

| | | | | Sample Name | SL-067-NBZ-SB-1.5-2.5 | DUP-01-NBZ-QC-031612 | SL-068-NBZ-SB-2.5-3.5 | SL-069-NBZ-SB-3.0-4.0 | SL-071-NBZ-SB-4.0-5.0 | SL-072-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | FD | N | N | N | N |
| | | | | Sample Date | 03/16/2012 | 03/16/2012 | 03/16/2012 | 03/20/2012 | 03/19/2012 | 03/16/2012 |
| | | | | SDG | 12C156 | 12C156 | 12C156 | 12C182 | 12C164 | 12C156 |
| | | | | Start Depth | 1.5 | 2.5 | 2.5 | 3 | 4 | 4 |
| | | | | End Depth | 2.5 | 3.5 | 3.5 | 4 | 5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8330A | 118-96-7 | 2,4,6-Trinitrotoluene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 121-82-4 | RDX | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 19406-51-0 | 4-Amino-2,6-Dinitrotoluene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 2691-41-0 | HMX | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 35572-78-2 | 2-Amino-4,6-Dinitrotoluene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 479-45-8 | Tetryl | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 59229-75-3 | 2,6-Diamino-4-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 6629-29-4 | 2,4-Diamino-6-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 88-72-2 | 2-Nitrotoluene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 98-95-3 | Nitrobenzene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 99-08-1 | 3-Nitrotoluene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 99-65-0 | M-Dinitrobenzene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 100 U |
| 8330A | 99-99-0 | 4-Nitrotoluene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 100 U |
| 8332 | 55-63-0 | Nitroglycerin | µg/kg | 1000 U | 990 U | 1000 U | 1000 U | 1000 U | 1000 U |
| 8332 | 78-11-5 | PETN | µg/kg | 1000 U | 990 U | 1000 U | 1000 U | 1000 U | 1000 U |

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

Appendix A6
Energetics-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-073-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-9.0-10.0 | SL-074-NBZ-SB-0.5-1.5 | SL-075-NBZ-SS-0.0-0.5 | SL-076-NBZ-SS-0.0-0.5 | SL-077-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/19/2012 | 03/19/2012 | 03/19/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 |
| | | | | SDG | 12C164 | 12C164 | 12C164 | 12C182 | 12C182 | 12C182 |
| | | | | Start Depth | 4 | 9 | 0.5 | 0 | 0 | 0 |
| | | | | End Depth | 5 | 10 | 1.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8330A | 118-96-7 | 2,4,6-Trinitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 121-82-4 | RDX | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 19406-51-0 | 4-Amino-2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 2691-41-0 | HMX | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 35572-78-2 | 2-Amino-4,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 479-45-8 | Tetryl | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 59229-75-3 | 2,6-Diamino-4-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 6629-29-4 | 2,4-Diamino-6-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 88-72-2 | 2-Nitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 98-95-3 | Nitrobenzene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 99-08-1 | 3-Nitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 99-65-0 | M-Dinitrobenzene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 99-99-0 | 4-Nitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8332 | 55-63-0 | Nitroglycerin | µg/kg | 1000 U | 1000 U | 990 U | 1000 U | 990 U | 990 U |
| 8332 | 78-11-5 | PETN | µg/kg | 1000 U | 1000 U | 990 U | 1000 U | 990 U | 990 U |

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

| | | | | Sample Name | SL-077-NBZ-SB-2.5-3.5 | SL-078-NBZ-SS-0.0-0.5 | SL-079-NBZ-SS-0.0-0.5 | SL-080-NBZ-SS-0.0-0.5 | SL-081-NBZ-SS-0.0-0.5 | SL-082-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/20/2012 | 03/27/2012 | 03/30/2012 | 04/20/2012 | 04/18/2012 | 04/18/2012 |
| | | | | SDG | 12C182 | 12C273 | 12C321 | 12D192 | 12D166 | 12D166 |
| | | | | Start Depth | 2.5 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8330A | 118-96-7 | 2,4,6-Trinitrotoluene | µg/kg | | 100 U | 100 U | 99 U | 100 U | 99 U | 100 U |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | | 100 U | 100 U | 99 U | 100 U | 99 U | 100 U |
| 8330A | 121-82-4 | RDX | µg/kg | | 100 U | 100 U | 99 U | 100 U | 99 U | 100 U |
| 8330A | 19406-51-0 | 4-Amino-2,6-Dinitrotoluene | µg/kg | | 100 U | 100 U | 99 U | 100 U | 99 U | 100 U |
| 8330A | 2691-41-0 | HMX | µg/kg | | 100 U | 100 U | 99 U | 100 U | 99 U | 100 U |
| 8330A | 35572-78-2 | 2-Amino-4,6-Dinitrotoluene | µg/kg | | 100 U | 100 U | 99 U | 100 U | 99 U | 100 U |
| 8330A | 479-45-8 | Tetryl | µg/kg | | 100 U | 100 U | 99 U | 100 U | 99 U | 100 U |
| 8330A | 59229-75-3 | 2,6-Diamino-4-nitrotoluene | µg/kg | | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | | 100 U | 100 U | 99 U | 100 U | 99 U | 100 U |
| 8330A | 6629-29-4 | 2,4-Diamino-6-nitrotoluene | µg/kg | | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 88-72-2 | 2-Nitrotoluene | µg/kg | | 100 U | 100 U | 99 U | 100 U | 99 U | 100 U |
| 8330A | 98-95-3 | Nitrobenzene | µg/kg | | 100 U | 100 U | 99 U | 100 U | 99 U | 100 U |
| 8330A | 99-08-1 | 3-Nitrotoluene | µg/kg | | 100 U | 100 U | 99 U | 100 U | 99 U | 100 U |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | µg/kg | | 100 U | 100 U | 99 U | 100 U | 99 U | 100 U |
| 8330A | 99-65-0 | M-Dinitrobenzene | µg/kg | | 100 U | 100 U | 99 U | 100 U | 99 U | 100 U |
| 8330A | 99-99-0 | 4-Nitrotoluene | µg/kg | | 100 U | 100 U | 99 U | 100 U | 99 U | 100 U |
| 8332 | 55-63-0 | Nitroglycerin | µg/kg | | 1000 U | 1000 U | 990 U | 1000 U | 990 U | 1000 U |
| 8332 | 78-11-5 | PETN | µg/kg | | 1000 U | 1000 U | 990 U | 1000 U | 990 U | 1000 U |

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

Appendix A6
Energetics-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-082-NBZ-SB-2.5-3.5 | SL-083-NBZ-SS-0.0-0.5 | SL-084-NBZ-SS-0.0-0.5 | SL-085-NBZ-SS-0.0-0.5 | SL-086-NBZ-SS-0.0-0.5 | SL-087-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/18/2012 | 04/18/2012 | 04/10/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 |
| | | | SDG | 12D166 | 12D166 | 12D092 | 12D092 | 12D176 | 12D176 |
| | | | Start Depth | 2.5 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8330A | 118-96-7 | 2,4,6-Trinitrotoluene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 121-82-4 | RDX | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 19406-51-0 | 4-Amino-2,6-Dinitrotoluene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 2691-41-0 | HMX | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 35572-78-2 | 2-Amino-4,6-Dinitrotoluene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 479-45-8 | Tetryl | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 59229-75-3 | 2,6-Diamino-4-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 6629-29-4 | 2,4-Diamino-6-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 88-72-2 | 2-Nitrotoluene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 98-95-3 | Nitrobenzene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-08-1 | 3-Nitrotoluene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-65-0 | M-Dinitrobenzene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 99 U |
| 8330A | 99-99-0 | 4-Nitrotoluene | µg/kg | 100 U | 99 U | 100 U | 100 U | 100 U | 99 U |
| 8332 | 55-63-0 | Nitroglycerin | µg/kg | 1000 U | 990 U | 1000 U | 1000 U | 1000 U | 990 U |
| 8332 | 78-11-5 | PETN | µg/kg | 1000 U | 990 U | 1000 U | 1000 U | 1000 U | 990 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-088-NBZ-SS-0.0-0.5 | SL-089-NBZ-SS-0.0-0.5 | SL-090-NBZ-SS-0.0-0.5 | SL-091-NBZ-SS-0.0-0.5 | SL-091-NBZ-SB-4.0-5.0 | DUP-05-NBZ-QC-032912 |
| | | | Sample Type | N | N | N | N | N | FD |
| | | | Sample Date | 04/17/2012 | 04/20/2012 | 04/17/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 |
| | | | SDG | 12D154 | 12D192 | 12D154 | 12C305 | 12C305 | 12C305 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 4 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8330A | 118-96-7 | 2,4,6-Trinitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 121-82-4 | RDX | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 19406-51-0 | 4-Amino-2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 2691-41-0 | HMX | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 35572-78-2 | 2-Amino-4,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 479-45-8 | Tetryl | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 59229-75-3 | 2,6-Diamino-4-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 6629-29-4 | 2,4-Diamino-6-nitrotoluene | µg/kg | 200 U | 200 U | 200 U | 200 U | 200 U | 200 U |
| 8330A | 88-72-2 | 2-Nitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 98-95-3 | Nitrobenzene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 99-08-1 | 3-Nitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 99-65-0 | M-Dinitrobenzene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8330A | 99-99-0 | 4-Nitrotoluene | µg/kg | 100 U | 100 U | 99 U | 100 U | 99 U | 99 U |
| 8332 | 55-63-0 | Nitroglycerin | µg/kg | 1000 U | 1000 U | 990 U | 1000 U | 990 U | 990 U |
| 8332 | 78-11-5 | PETN | µg/kg | 1000 U | 1000 U | 990 U | 1000 U | 990 U | 990 U |

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

Appendix A6
Energetics-Validated Data
NBZ - Phases 1 and 2

| | | | | |
|---|---|---|---|---|
| | | | Sample Name | SL-092-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N |
| | | | Sample Date | 03/29/2012 |
| | | | SDG | 12C305 |
| | | | Start Depth | 0 |
| | | | End Depth | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | |
| 8330A | 118-96-7 | 2,4,6-Trinitrotoluene | µg/kg | 100 U |
| 8330A | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 100 U |
| 8330A | 121-82-4 | RDX | µg/kg | 100 U |
| 8330A | 19406-51-0 | 4-Amino-2,6-Dinitrotoluene | µg/kg | 100 U |
| 8330A | 2691-41-0 | HMX | µg/kg | 100 U |
| 8330A | 35572-78-2 | 2-Amino-4,6-Dinitrotoluene | µg/kg | 100 U |
| 8330A | 479-45-8 | Tetryl | µg/kg | 100 U |
| 8330A | 59229-75-3 | 2,6-Diamino-4-nitrotoluene | µg/kg | 200 U |
| 8330A | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 100 U |
| 8330A | 6629-29-4 | 2,4-Diamino-6-nitrotoluene | µg/kg | 200 U |
| 8330A | 88-72-2 | 2-Nitrotoluene | µg/kg | 100 U |
| 8330A | 98-95-3 | Nitrobenzene | µg/kg | 100 U |
| 8330A | 99-08-1 | 3-Nitrotoluene | µg/kg | 100 U |
| 8330A | 99-35-4 | 1,3,5-Trinitrobenzene | µg/kg | 100 U |
| 8330A | 99-65-0 | M-Dinitrobenzene | µg/kg | 100 U |
| 8330A | 99-99-0 | 4-Nitrotoluene | µg/kg | 100 U |
| 8332 | 55-63-0 | Nitroglycerin | µg/kg | 1000 U |
| 8332 | 78-11-5 | PETN | µg/kg | 1000 U |

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

| | | | Sample Name | SL-001-NBZ-SS-0.0-0.5 | SL-002-NBZ-SS-0.0-0.5 | SL-002-NBZ-SB-4.0-5.0 | SL-002-NBZ-SB-7.5-8.5 | SL-003-NBZ-SS-0.0-0.5 | SL-003-NBZ-SB-4.0-5.0 | SL-004-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/09/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 04/11/2012 |
| | | | SDG | 12D084 | 12C096 | 12C096 | 12C096 | 12C096 | 12C096 | 12D106 |
| | | | Start Depth | 0 | 0 | 4 | 7.5 | 0 | 4 | 0 |
| | | | End Depth | 0.5 | 0.5 | 5 | 8.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.4 | 0.871 J Z | 1.41 | 1.7 | 1.18 | 0.847 J Z | 0.650 J Z |

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

Appendix A7
Fluoride-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-005-NBZ-SB-4.0-5.0 | SL-006-NBZ-SB-3.0-4.0 | SL-007-NBZ-SB-4.0-5.0 | SL-007-NBZ-SB-9.0-10.0 | SL-008-NBZ-SB-4.0-5.0 | DUP-07-NBZ-QC-041012 |
| | | | Sample Type | N | N | N | N | N | FD |
| | | | Sample Date | 03/13/2012 | 03/13/2012 | 03/12/2012 | 03/12/2012 | 04/18/2012 | 04/10/2012 |
| | | | SDG | 12C106 | 12C106 | 12C096 | 12C096 | 12D166 | 12D092 |
| | | | Start Depth | 4 | 3 | 4 | 9 | 4 | 0 |
| | | | End Depth | 5 | 4 | 5 | 10 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.04 J Z | 0.693 J Z | 0.756 J Z | 1.28 | 1.06 U | 0.742 J Z |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-009-NBZ-SS-0.0-0.5 | SL-010-NBZ-SB-4.0-5.0 | SL-011-NBZ-SS-0.0-0.5 | SL-012-NBZ-SS-0.0-0.5 | SL-012-NBZ-SB-0.5-1.5 | SL-013-NBZ-SS-0.0-0.5 | SL-014-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/10/2012 | 03/12/2012 | 04/12/2012 | 04/19/2012 | 04/19/2012 | 04/16/2012 | 04/17/2012 |
| | | | SDG | 12D092 | 12C096 | 12D122 | 12D176 | 12D176 | 12D146 | 12D154 |
| | | | Start Depth | 0 | 4 | 0 | 0 | 0.5 | 0 | 0 |
| | | | End Depth | 0.5 | 5 | 0.5 | 0.5 | 1.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 0.788 J Z | 1.08 | 1.14 U | 1.17 U | 1.00 J Z | 0.829 J Z | 1.25 U |

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

Appendix A7
Fluoride-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-015-NBZ-SS-0.0-0.5 | SL-016-NBZ-SS-0.0-0.5 | SL-017-NBZ-SS-0.0-0.5 | SL-018-NBZ-SS-0.0-0.5 | SL-019-NBZ-SS-0.0-0.5 | SL-019-NBZ-SB-3.0-4.0 | SL-020-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/13/2012 | 04/20/2012 | 04/19/2012 | 04/20/2012 | 03/13/2012 | 03/13/2012 | 04/04/2012 |
| | | | SDG | 12C106 | 12D192 | 12D176 | 12D192 | 12C106 | 12C106 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 4 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.02 U | 1.82 | 1.24 J Z | 0.811 J Z | 0.599 J Z | 1.32 | 1.11 U |

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

| | | | Sample Name | SL-020-NBZ-SB-2.5-3.5 | SL-021-NBZ-SS-0.0-0.5 | SL-021-NBZ-SB-4.0-5.0 | SL-022-NBZ-SS-0.0-0.5 | SL-022-NBZ-SB-4.0-5.0 | SL-022-NBZ-SB-9.0-10.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/04/2012 | 03/13/2012 | 03/13/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 |
| | | | SDG | 12D031 | 12C106 | 12C106 | 12C121 | 12C121 | 12C121 |
| | | | Start Depth | 2.5 | 0 | 4 | 0 | 4 | 9 |
| | | | End Depth | 3.5 | 0.5 | 5 | 0.5 | 5 | 10 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.07 J Z | 0.674 J Z | 1.12 | 1.05 U | 1.11 | 2.09 |

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

Appendix A7
Fluoride-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-023-NBZ-SS-0.0-0.5 | SL-023-NBZ-SB-4.0-5.0 | SL-023-NBZ-SB-8.5-9.5 | SL-024-NBZ-SS-0.0-0.5 | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 |
| | | | SDG | 12C121 | 12C121 | 12C121 | 12C121 | 12D004 | 12D004 | 12D004 |
| | | | Start Depth | 0 | 4 | 8.5 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 5 | 9.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.03 U | 1.22 | 1.22 | 1.03 U | 1.09 U | 1.08 U | 1.16 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-028-NBZ-SS-0.0-0.5 | SL-029-NBZ-SS-0.0-0.5 | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 | SL-034-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/02/2012 | 03/15/2012 | 03/14/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 |
| | | | SDG | 12D004 | 12C135 | 12C121 | 12D018 | 12D018 | 12D018 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.10 U | 1.03 U | 1.02 U | 1.08 U | 1.14 U | 1.10 U | 1.20 U |

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

Appendix A7
Fluoride-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-035-NBZ-SS-0.0-0.5 | SL-035-NBZ-SB-2.0-3.0 | SL-036-NBZ-SB-4.0-5.0 | SL-036-NBZ-SB-7.5-8.5 | SL-037-NBZ-SB-3.0-4.0 | SL-038-NBZ-SS-0.0-0.5 | SL-039-NBZ-SB-2.0-3.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 04/03/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 |
| | | | SDG | 12D018 | 12D018 | 12C285 | 12C285 | 12C285 | 12C273 | 12C273 |
| | | | Start Depth | 0 | 2 | 4 | 7.5 | 3 | 0 | 2 |
| | | | End Depth | 0.5 | 3 | 5 | 8.5 | 4 | 0.5 | 3 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.14 U | 1.05 U | 6.18 | 2.65 | 10.1 | 0.860 J Z | 1.4 |

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

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-040-NBZ-SS-0.0-0.5 | DUP-03-NBZ-QC-032812 | SL-040-NBZ-SB-2.5-3.5 | SL-042-NBZ-SS-0.0-0.5 | SL-043-NBZ-SS-0.0-0.5 | SL-044-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | FD | N | N | N | N |
| | | | Sample Date | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 |
| | | | SDG | 12C285 | 12C285 | 12C285 | 12C261 | 12C261 | 12C305 |
| | | | Start Depth | 0 | 2.5 | 2.5 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 3.5 | 3.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.12 U | 1.32 | 1.52 | 1.16 U | 1.11 U | 0.769 J Z |

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

Appendix A7
Fluoride-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-045-NBZ-SS-0.0-0.5 | SL-045-NBZ-SB-4.0-5.0 | SL-046-NBZ-SS-0.0-0.5 | SL-046-NBZ-SB-4.0-5.0 | SL-047-NBZ-SB-4.0-5.0 | SL-048-NBZ-SS-0.0-0.5 | SL-048-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 |
| | | | SDG | 12C261 | 12C261 | 12C261 | 12C261 | 12C254 | 12C254 | 12C254 |
| | | | Start Depth | 0 | 4 | 0 | 4 | 4 | 0 | 4 |
| | | | End Depth | 0.5 | 5 | 0.5 | 5 | 5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.08 U | 3.34 | 1.18 U | 1.77 | 0.789 J Z | 0.818 J Z | 0.925 J Z |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-049-NBZ-SB-2.0-3.0 | SL-050-NBZ-SS-0.0-0.5 | SL-051-NBZ-SB-1.5-2.5 | SL-052-NBZ-SS-0.0-0.5 | SL-053-NBZ-SS-0.0-0.5 | SL-053-NBZ-SB-3.5-4.5 | SL-054-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/23/2012 | 03/26/2012 | 03/23/2012 | 03/15/2012 | 03/15/2012 | 03/15/2012 | 03/22/2012 |
| | | | SDG | 12C254 | 12C261 | 12C254 | 12C135 | 12C135 | 12C135 | 12C229 |
| | | | Start Depth | 2 | 0 | 1.5 | 0 | 0 | 3.5 | 0 |
| | | | End Depth | 3 | 0.5 | 2.5 | 0.5 | 0.5 | 4.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 0.597 J Z | 1.09 U | 1.04 U | 1.02 U | 0.549 J Z | 0.598 J Z | 1.09 U |

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

Appendix A7
Fluoride-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-055-NBZ-SS-0.0-0.5 | SL-056-NBZ-SS-0.0-0.5 | SL-056-NBZ-SB-3.0-4.0 | DUP-02-NBZ-QC-032312 | SL-057-NBZ-SS-0.0-0.5 | SL-058-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | FD | N | N |
| | | | Sample Date | 03/22/2012 | 03/15/2012 | 03/15/2012 | 03/23/2012 | 03/23/2012 | 03/15/2012 |
| | | | SDG | 12C229 | 12C135 | 12C135 | 12C254 | 12C254 | 12C135 |
| | | | Start Depth | 0 | 0 | 3 | 0 | 0 | 5 |
| | | | End Depth | 0.5 | 0.5 | 4 | 0.5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.11 U | 1.03 U | 0.799 J Z | 0.637 J Z | 0.652 J Z | 1.03 J Z |

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

| | | | Sample Name | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 | SL-061-NBZ-SB-1.0-2.0 | SL-062-NBZ-SB-2.5-3.5 | SL-063-NBZ-SB-0.5-1.5 | SL-064-NBZ-SB-0.5-1.5 | SL-065-NBZ-SB-1.0-2.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/22/2012 | 03/22/2012 | 03/22/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 |
| | | | SDG | 12C229 | 12C229 | 12C229 | 12C209 | 12C209 | 12C209 | 12C209 |
| | | | Start Depth | 0 | 0 | 1 | 2.5 | 0.5 | 0.5 | 1 |
| | | | End Depth | 0.5 | 0.5 | 2 | 3.5 | 1.5 | 1.5 | 2 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.09 U | 1.06 U | 0.584 J Z | 0.705 J Z | 1.14 U | 0.577 J Z | 1.08 U |

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

Appendix A7
Fluoride-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-066-NBZ-SB-2.0-3.0 | SL-067-NBZ-SB-1.5-2.5 | DUP-01-NBZ-QC-031612 | SL-068-NBZ-SB-2.5-3.5 | SL-069-NBZ-SB-3.0-4.0 | SL-070-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | FD | N | N | N |
| | | | Sample Date | 03/21/2012 | 03/16/2012 | 03/16/2012 | 03/16/2012 | 03/20/2012 | 03/20/2012 |
| | | | SDG | 12C209 | 12C156 | 12C156 | 12C156 | 12C182 | 12C182 |
| | | | Start Depth | 2 | 1.5 | 2.5 | 2.5 | 3 | 0 |
| | | | End Depth | 3 | 2.5 | 3.5 | 3.5 | 4 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.03 U | 0.944 J Z | 0.857 J Z | 0.847 J Z | 1.4 | 1.61 |

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

| | | | Sample Name | SL-071-NBZ-SB-4.0-5.0 | SL-072-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-9.0-10.0 | SL-074-NBZ-SB-0.5-1.5 | SL-075-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/19/2012 | 03/16/2012 | 03/19/2012 | 03/19/2012 | 03/19/2012 | 03/20/2012 |
| | | | SDG | 12C164 | 12C156 | 12C164 | 12C164 | 12C164 | 12C182 |
| | | | Start Depth | 4 | 4 | 4 | 9 | 0.5 | 0 |
| | | | End Depth | 5 | 5 | 5 | 10 | 1.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.53 | 0.572 J Z | 1.32 | 2.2 | 1.04 U | 0.597 J Z |

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

Appendix A7
Fluoride-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-076-NBZ-SS-0.0-0.5 | SL-077-NBZ-SS-0.0-0.5 | SL-077-NBZ-SB-2.5-3.5 | SL-078-NBZ-SS-0.0-0.5 | SL-079-NBZ-SS-0.0-0.5 | SL-080-NBZ-SS-0.0-0.5 | SL-081-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/27/2012 | 03/30/2012 | 04/20/2012 | 04/18/2012 |
| | | | SDG | 12C182 | 12C182 | 12C182 | 12C273 | 12C321 | 12D192 | 12D166 |
| | | | Start Depth | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.13 J Z | 0.882 J Z | 2.49 | 1.13 U | 1.16 U | 1.16 U | 1.19 U |

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

| | | | Sample Name | SL-082-NBZ-SS-0.0-0.5 | SL-082-NBZ-SB-2.5-3.5 | SL-083-NBZ-SS-0.0-0.5 | SL-084-NBZ-SS-0.0-0.5 | SL-085-NBZ-SS-0.0-0.5 | SL-086-NBZ-SS-0.0-0.5 | SL-087-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/18/2012 | 04/18/2012 | 04/18/2012 | 04/10/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 |
| | | | SDG | 12D166 | 12D166 | 12D166 | 12D092 | 12D092 | 12D176 | 12D176 |
| | | | Start Depth | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 0.831 J Z | 1.26 | 0.692 J Z | 1.17 U | 0.965 J Z | 1.03 J Z | 1.26 U |

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

Appendix A7
Fluoride-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-088-NBZ-SS-0.0-0.5 | SL-089-NBZ-SS-0.0-0.5 | SL-090-NBZ-SS-0.0-0.5 | SL-091-NBZ-SS-0.0-0.5 | SL-091-NBZ-SB-4.0-5.0 | DUP-05-NBZ-QC-032912 |
| | | | Sample Type | N | N | N | N | N | FD |
| | | | Sample Date | 04/17/2012 | 04/20/2012 | 04/17/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 |
| | | | SDG | 12D154 | 12D192 | 12D154 | 12C305 | 12C305 | 12C305 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 4 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.31 U | 1.13 U | 1.3 | 0.529 J Z | 4.5 | 1.00 U |

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

| | | | Sample Name | SL-092-NBZ-SS-0.0-0.5 | SL-094-NBZ-SS-0.0-0.5 | SL-095-NBZ-SS-0.0-0.5 | SL-096-NBZ-SS-0.0-0.5 | SL-097-NBZ-SS-0.0-0.5 | SL-099-NBZ-SS-0.0-0.5 | SL-100-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/29/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 | 04/04/2012 | 04/04/2012 | 04/04/2012 |
| | | | SDG | 12C305 | 12C285 | 12C273 | 12C285 | 12D031 | 12D031 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.00 U | 1.15 U | 1.14 U | 1.16 U | 1.07 U | 1.09 U | 1.08 U |

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

Appendix A7
Fluoride-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-101-NBZ-SS-0.0-0.5 | SL-102-NBZ-SS-0.0-0.5 | SL-103-NBZ-SS-0.0-0.5 | SL-104-NBZ-SS-0.0-0.5 | SL-105-NBZ-SS-0.0-0.5 | SL-107-NBZ-SS-0.0-0.5 | SL-108-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/29/2012 | 03/27/2012 | 03/29/2012 | 04/04/2012 | 03/21/2012 | 04/02/2012 | 04/03/2012 |
| | | | SDG | 12C305 | 12C273 | 12C305 | 12D031 | 12C209 | 12D004 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.00 U | 1.16 U | 1.00 U | 1.08 U | 0.707 J Z | 1.14 U | 1.06 U |

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

| | | | Sample Name | SL-109-NBZ-SS-0.0-0.5 | SL-110-NBZ-SS-0.0-0.5 | SL-111-NBZ-SS-0.0-0.5 | SL-112-NBZ-SS-0.0-0.5 | SL-113-NBZ-SS-0.0-0.5 | SL-114-NBZ-SS-0.0-0.5 | SL-115-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/27/2012 | 04/04/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/04/2012 | 04/03/2012 |
| | | | SDG | 12C273 | 12D031 | 12D004 | 12D004 | 12D004 | 12D031 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.61 | 1.08 U | 1.26 U | 1.10 U | 1.09 U | 1.09 U | 1.14 U |

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

Appendix A7
Fluoride-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-116-NBZ-SS-0.0-0.5 | DUP-04-NBZ-QC-032912 | SL-118-NBZ-SS-0.0-0.5 | SL-119-NBZ-SS-0.0-0.5 | SL-120-NBZ-SS-0.0-0.5 | SL-121-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | FD | N | N | N | N |
| | | | Sample Date | 03/22/2012 | 03/29/2012 | 03/29/2012 | 03/27/2012 | 04/04/2012 | 03/30/2012 |
| | | | SDG | 12C229 | 12C305 | 12C305 | 12C273 | 12D031 | 12C321 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.12 U | 1.00 U | 1.00 U | 1.12 U | 1.08 U | 1.08 U |

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

| | | | Sample Name | SL-122-NBZ-SS-0.0-0.5 | SL-123-NBZ-SS-0.0-0.5 | SL-124-NBZ-SS-0.0-0.5 | SL-126-NBZ-SS-0.0-0.5 | SL-127-NBZ-SS-0.0-0.5 | SL-129-NBZ-SS-0.0-0.5 | SL-130-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 | 04/03/2012 | 03/27/2012 | 03/27/2012 |
| | | | SDG | 12D018 | 12C261 | 12C261 | 12C261 | 12D018 | 12C273 | 12C273 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.14 U | 1.18 U | 1.34 U | 1.20 U | 1.06 U | 1.25 U | 1.19 U |

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

Appendix A7
Fluoride-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-131-NBZ-SS-0.0-0.5 | SL-133-NBZ-SS-0.0-0.5 | SL-134-NBZ-SS-0.0-0.5 | SL-135-NBZ-SS-0.0-0.5 | SL-136-NBZ-SS-0.0-0.5 | SL-138-NBZ-SS-0.0-0.5 | SL-139-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/29/2012 | 03/26/2012 | 03/30/2012 | 03/28/2012 | 03/28/2012 | 04/02/2012 | 03/28/2012 |
| | | | SDG | 12C305 | 12C261 | 12C321 | 12C285 | 12C285 | 12D004 | 12C285 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.00 U | 1.16 U | 1.10 U | 1.15 U | 1.11 U | 1.13 U | 0.635 J Z |

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

| | | | Sample Name | SL-140-NBZ-SS-0.0-0.5 | SL-141-NBZ-SS-0.0-0.5 | SL-143-NBZ-SS-0.0-0.5 | SL-144-NBZ-SS-0.0-0.5 | SL-145-NBZ-SS-0.0-0.5 | SL-146-NBZ-SS-0.0-0.5 | SL-147-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 03/28/2012 | 03/28/2012 | 04/12/2012 | 04/11/2012 | 04/18/2012 | 04/17/2012 |
| | | | SDG | 12D018 | 12C285 | 12C285 | 12D122 | 12D106 | 12D166 | 12D154 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.16 U | 1.12 U | 1.08 U | 1.49 | 1.27 U | 1.15 U | 0.660 J Z |

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

Appendix A7
Fluoride-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-148-NBZ-SS-0.0-0.5 | SL-149-NBZ-SS-0.0-0.5 | SL-150-NBZ-SS-0.0-0.5 | SL-151-NBZ-SS-0.0-0.5 | SL-152-NBZ-SS-0.0-0.5 | SL-154-NBZ-SS-0.0-0.5 | SL-155-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/11/2012 | 04/05/2012 | 04/19/2012 | 04/09/2012 | 04/12/2012 | 04/11/2012 | 04/04/2012 |
| | | | SDG | 12D106 | 12D048 | 12D176 | 12D084 | 12D122 | 12D106 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.73 | 1.10 U | 1.13 U | 0.697 J Z | 1.19 U | 1.34 U | 0.550 J Z |

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

| | | | Sample Name | SL-156-NBZ-SS-0.0-0.5 | SL-157-NBZ-SS-0.0-0.5 | SL-158-NBZ-SS-0.0-0.5 | SL-159-NBZ-SS-0.0-0.5 | DUP-10-NBZ-QC-041612 | SL-160-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | FD | N |
| | | | Sample Date | 04/17/2012 | 04/09/2012 | 04/12/2012 | 04/16/2012 | 04/16/2012 | 04/16/2012 |
| | | | SDG | 12D154 | 12D084 | 12D122 | 12D146 | 12D166 | 12D146 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.21 U | 1.10 U | 0.652 J Z | 1.14 U | 1.12 U | 1.12 U |

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

Appendix A7
Fluoride-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-161-NBZ-SS-0.0-0.5 | SL-162-NBZ-SS-0.0-0.5 | SL-163-NBZ-SS-0.0-0.5 | SL-164-NBZ-SS-0.0-0.5 | SL-165-NBZ-SS-0.0-0.5 | SL-166-NBZ-SS-0.0-0.5 | SL-167-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/17/2012 | 04/17/2012 | 04/11/2012 | 04/16/2012 | 04/05/2012 | 04/17/2012 | 04/09/2012 |
| | | | SDG | 12D154 | 12D154 | 12D106 | 12D146 | 12D048 | 12D154 | 12D084 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.12 U | 1.10 U | 4.89 | 1.19 U | 1.11 U | 1.16 U | 1.07 U |

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

| | | | Sample Name | SL-168-NBZ-SS-0.0-0.5 | SL-169-NBZ-SS-0.0-0.5 | SL-170-NBZ-SS-0.0-0.5 | SL-171-NBZ-SS-0.0-0.5 | SL-172-NBZ-SS-0.0-0.5 | DUP-08-NBZ-QC-041612 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | FD |
| | | | Sample Date | 04/11/2012 | 04/03/2012 | 04/20/2012 | 04/20/2012 | 04/12/2012 | 04/16/2012 |
| | | | SDG | 12D106 | 12D018 | 12D192 | 12D192 | 12D122 | 12D146 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.12 U | 1.11 U | 1.10 U | 1.09 U | 1.12 U | 1.19 U |

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

Appendix A7
Fluoride-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-173-NBZ-SS-0.0-0.5 | SL-174-NBZ-SS-0.0-0.5 | SL-175-NBZ-SS-0.0-0.5 | SL-176-NBZ-SS-0.0-0.5 | SL-177-NBZ-SS-0.0-0.5 | SL-178-NBZ-SS-0.0-0.5 | SL-179-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/16/2012 | 04/09/2012 | 04/05/2012 | 04/11/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 |
| | | | SDG | 12D146 | 12D084 | 12D048 | 12D106 | 12D092 | 12D176 | 12D176 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.21 U | 1.09 U | 1.17 U | 2.58 | 1.06 U | 1.12 U | 1.12 U |

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

| | | | Sample Name | SL-180-NBZ-SS-0.0-0.5 | SL-181-NBZ-SS-0.0-0.5 | SL-182-NBZ-SS-0.0-0.5 | SL-183-NBZ-SS-0.0-0.5 | SL-184-NBZ-SS-0.0-0.5 | SL-185-NBZ-SS-0.0-0.5 | SL-186-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/13/2012 | 04/04/2012 | 04/11/2012 | 04/13/2012 | 04/19/2012 | 04/09/2012 | 04/10/2012 |
| | | | SDG | 12D135 | 12D031 | 12D106 | 12D135 | 12D176 | 12D084 | 12D092 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.25 U | 0.565 J Z | 1.17 U | 1.20 U | 1.14 U | 1.11 U | 1.08 U |

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

Appendix A7
Fluoride-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-187-NBZ-SS-0.0-0.5 | SL-188-NBZ-SS-0.0-0.5 | SL-189-NBZ-SS-0.0-0.5 | SL-190-NBZ-SS-0.0-0.5 | DUP-06-NBZ-QC-040912 | SL-191-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | FD | N |
| | | | Sample Date | 04/04/2012 | 04/10/2012 | 04/18/2012 | 04/05/2012 | 04/09/2012 | 04/09/2012 |
| | | | SDG | 12D031 | 12D092 | 12D166 | 12D048 | 12D084 | 12D084 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.09 U | 1.08 U | 1.15 U | 1.05 U | 1.49 | 1.5 |

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

| | | | Sample Name | DUP-09-NBZ-QC-041912 | SL-193-NBZ-SS-0.0-0.5 | SL-194-NBZ-SS-0.0-0.5 | SL-195-NBZ-SS-0.0-0.5 | SL-196-NBZ-SS-0.0-0.5 | SL-197-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | FD | N | N | N | N | N |
| | | | Sample Date | 04/19/2012 | 04/19/2012 | 04/02/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 |
| | | | SDG | 12D176 | 12D176 | 12D004 | 12C261 | 12C261 | 12C305 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.12 U | 1.12 U | 1.12 U | 1.13 U | 1.21 U | 0.570 J Z |

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

Appendix A7
Fluoride-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-198-NBZ-SS-0.0-0.5 | SL-199-NBZ-SS-0.0-0.5 | SL-200-NBZ-SS-0.0-0.5 | SL-201-NBZ-SS-0.0-0.5 | SL-202-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 04/23/2012 | 04/23/2012 | 04/23/2012 | 04/20/2012 |
| | | | SDG | 12D018 | 12D197 | 12D197 | 12D197 | 12D192 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | |
| 300 | 16984-48-8 | Fluoride | mg/kg | 1.08 U | 1.08 U | 1.10 U | 1.18 U | 1.08 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-001-NBZ-SS-0.0-0.5 | SL-002-NBZ-SS-0.0-0.5 | SL-002-NBZ-SB-4.0-5.0 | SL-002-NBZ-SB-7.5-8.5 | SL-003-NBZ-SS-0.0-0.5 | SL-003-NBZ-SB-4.0-5.0 | SL-005-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/09/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/13/2012 |
| | | | SDG | DE308 | DE296 | DE296 | DE296 | DE296 | DE296 | DE296 |
| | | | Start Depth | 0 | 0 | 4 | 7.5 | 0 | 4 | 4 |
| | | | End Depth | 0.5 | 0.5 | 5 | 8.5 | 0.5 | 5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8315A | 50-00-0 | Formaldehyde | µg/kg | 1700 U | 1600 U | 1600 U | 1600 U | 1600 U | 1600 U | 1700 U |

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

Appendix A8
Formaldehyde-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-006-NBZ-SB-3.0-4.0 | SL-007-NBZ-SB-4.0-5.0 | SL-007-NBZ-SB-9.0-10.0 | SL-008-NBZ-SB-4.0-5.0 | DUP-07-NBZ-QC-041012 | SL-009-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | FD | N |
| | | | Sample Date | 03/13/2012 | 03/12/2012 | 03/12/2012 | 04/18/2012 | 04/10/2012 | 04/10/2012 |
| | | | SDG | DE296 | DE296 | DE296 | DE311 | DE308 | DE308 |
| | | | Start Depth | 3 | 4 | 9 | 4 | 0 | 0 |
| | | | End Depth | 4 | 5 | 10 | 5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8315A | 50-00-0 | Formaldehyde | µg/kg | 1600 U | 1600 U | 1600 U | 1600 U | 1700 U | 1700 UJ Z |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-010-NBZ-SB-4.0-5.0 | SL-011-NBZ-SS-0.0-0.5 | SL-012-NBZ-SS-0.0-0.5 | SL-012-NBZ-SB-0.5-1.5 | SL-013-NBZ-SS-0.0-0.5 | SL-014-NBZ-SS-0.0-0.5 | SL-015-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/12/2012 | 04/12/2012 | 04/19/2012 | 04/19/2012 | 04/16/2012 | 04/17/2012 | 03/13/2012 |
| | | | SDG | DE296 | DE309 | DE312 | DE312 | DE310 | DE310 | DE296 |
| | | | Start Depth | 4 | 0 | 0 | 0.5 | 0 | 0 | 0 |
| | | | End Depth | 5 | 0.5 | 0.5 | 1.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8315A | 50-00-0 | Formaldehyde | µg/kg | 1600 U | 1700 U | 1800 U | 1800 U | 2200 U | 1800 U | 1500 U |

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

Appendix A8
Formaldehyde-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-016-NBZ-SS-0.0-0.5 | SL-017-NBZ-SS-0.0-0.5 | SL-018-NBZ-SS-0.0-0.5 | SL-019-NBZ-SS-0.0-0.5 | SL-019-NBZ-SB-3.0-4.0 | SL-020-NBZ-SS-0.0-0.5 | SL-020-NBZ-SB-2.5-3.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/20/2012 | 04/19/2012 | 04/20/2012 | 03/13/2012 | 03/13/2012 | 04/04/2012 | 04/04/2012 |
| | | | SDG | DE313 | DE313 | DE313 | DE297 | DE297 | DE307 | DE306 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 3 | 0 | 2.5 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 4 | 0.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8315A | 50-00-0 | Formaldehyde | µg/kg | 1900 U | 2200 U | 1900 U | 1500 U | 1600 U | 1700 U | 1700 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-021-NBZ-SS-0.0-0.5 | SL-021-NBZ-SB-4.0-5.0 | SL-022-NBZ-SS-0.0-0.5 | SL-022-NBZ-SB-4.0-5.0 | SL-022-NBZ-SB-9.0-10.0 | SL-023-NBZ-SS-0.0-0.5 | SL-023-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/13/2012 | 03/13/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 |
| | | | SDG | DE296 | DE296 | DE297 | DE297 | DE297 | DE297 | DE297 |
| | | | Start Depth | 0 | 4 | 0 | 4 | 9 | 0 | 4 |
| | | | End Depth | 0.5 | 5 | 0.5 | 5 | 10 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8315A | 50-00-0 | Formaldehyde | µg/kg | 740 J Z | 1500 U | 1500 U | 1500 U | 1600 U | 1500 U | 1500 U |

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

Appendix A8
Formaldehyde-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-023-NBZ-SB-8.5-9.5 | SL-024-NBZ-SS-0.0-0.5 | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 | SL-028-NBZ-SS-0.0-0.5 | SL-029-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 03/14/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 03/15/2012 |
| | | | SDG | DE297 | DE297 | DE306 | DE306 | DE306 | DE306 | DE297 |
| | | | Start Depth | 8.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 9.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8315A | 50-00-0 | Formaldehyde | µg/kg | 1600 U | 1500 U | 1600 U | 1600 U | 1800 U | 1700 U | 1500 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 | SL-034-NBZ-SS-0.0-0.5 | SL-035-NBZ-SS-0.0-0.5 | SL-035-NBZ-SB-2.0-3.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 |
| | | | SDG | DE297 | DE306 | DE306 | DE306 | DE306 | DE306 | DE306 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 3 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8315A | 50-00-0 | Formaldehyde | µg/kg | 1500 U | 1600 U | 1700 U | 1600 U | 1800 U | 1700 U | 1600 U |

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

Appendix A8
Formaldehyde-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-036-NBZ-SB-4.0-5.0 | SL-036-NBZ-SB-7.5-8.5 | SL-037-NBZ-SB-3.0-4.0 | SL-038-NBZ-SS-0.0-0.5 | SL-039-NBZ-SB-2.0-3.0 | SL-040-NBZ-SS-0.0-0.5 | DUP-03-NBZ-QC-032812 |
| | | | Sample Type | N | N | N | N | N | N | FD |
| | | | Sample Date | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 |
| | | | SDG | DE303 | DE303 | DE303 | DE302 | DE303 | DE303 | DE303 |
| | | | Start Depth | 4 | 7.5 | 3 | 0 | 2 | 0 | 2.5 |
| | | | End Depth | 5 | 8.5 | 4 | 0.5 | 3 | 0.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8315A | 50-00-0 | Formaldehyde | µg/kg | 1700 U | 1900 U | 3400 U | 1900 U | 1700 U | 1700 U | 1600 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-040-NBZ-SB-2.5-3.5 | SL-042-NBZ-SS-0.0-0.5 | SL-043-NBZ-SS-0.0-0.5 | SL-044-NBZ-SS-0.0-0.5 | SL-045-NBZ-SS-0.0-0.5 | SL-045-NBZ-SB-4.0-5.0 | SL-046-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/28/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 |
| | | | SDG | DE303 | DE302 | DE302 | DE304 | DE302 | DE302 | DE302 |
| | | | Start Depth | 2.5 | 0 | 0 | 0 | 0 | 4 | 0 |
| | | | End Depth | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8315A | 50-00-0 | Formaldehyde | µg/kg | 1600 U | 1800 U | 1600 U | 1200 J Z | 1700 U | 1600 U | 1800 U |

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

Appendix A8
Formaldehyde-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-046-NBZ-SB-4.0-5.0 | SL-047-NBZ-SB-4.0-5.0 | SL-048-NBZ-SS-0.0-0.5 | SL-048-NBZ-SB-4.0-5.0 | SL-049-NBZ-SB-2.0-3.0 | SL-050-NBZ-SS-0.0-0.5 | SL-051-NBZ-SB-1.5-2.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/26/2012 | 03/23/2012 |
| | | | SDG | DE302 | DE301 | DE301 | DE301 | DE301 | DE302 | DE301 |
| | | | Start Depth | 4 | 4 | 0 | 4 | 2 | 0 | 1.5 |
| | | | End Depth | 5 | 5 | 0.5 | 5 | 3 | 0.5 | 2.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8315A | 50-00-0 | Formaldehyde | µg/kg | 1600 U | 1600 U | 1700 U | 1600 U | 1500 U | 1700 U | 1600 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-052-NBZ-SS-0.0-0.5 | SL-053-NBZ-SS-0.0-0.5 | SL-053-NBZ-SB-3.5-4.5 | SL-054-NBZ-SS-0.0-0.5 | SL-055-NBZ-SS-0.0-0.5 | SL-056-NBZ-SS-0.0-0.5 | SL-056-NBZ-SB-3.0-4.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/15/2012 | 03/15/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/15/2012 | 03/15/2012 |
| | | | SDG | DE297 | DE298 | DE298 | DE300 | DE300 | DE298 | DE298 |
| | | | Start Depth | 0 | 0 | 3.5 | 0 | 0 | 0 | 3 |
| | | | End Depth | 0.5 | 0.5 | 4.5 | 0.5 | 0.5 | 0.5 | 4 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8315A | 50-00-0 | Formaldehyde | µg/kg | 1500 U | 1500 U | 1600 U | 1600 U | 1700 U | 2000 U | 1900 U |

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

Appendix A8
Formaldehyde-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | DUP-02-NBZ-QC-032312 | SL-057-NBZ-SS-0.0-0.5 | SL-058-NBZ-SS-0.0-0.5 | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 | SL-061-NBZ-SB-1.0-2.0 | SL-062-NBZ-SB-2.5-3.5 |
| | | | Sample Type | FD | N | N | N | N | N | N |
| | | | Sample Date | 03/23/2012 | 03/23/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/22/2012 | 03/21/2012 |
| | | | SDG | DE301 | DE301 | DE297 | DE300 | DE300 | DE300 | DE300 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 1 | 2.5 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8315A | 50-00-0 | Formaldehyde | µg/kg | 1600 U | 1700 U | 1600 U | 1600 U | 1600 U | 1600 U | 1600 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-063-NBZ-SB-0.5-1.5 | SL-064-NBZ-SB-0.5-1.5 | SL-065-NBZ-SB-1.0-2.0 | SL-066-NBZ-SB-2.0-3.0 | SL-067-NBZ-SB-1.5-2.5 | DUP-01-NBZ-QC-031612 | SL-068-NBZ-SB-2.5-3.5 |
| | | | Sample Type | N | N | N | N | N | FD | N |
| | | | Sample Date | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/16/2012 | 03/16/2012 | 03/16/2012 |
| | | | SDG | DE300 | DE300 | DE299 | DE299 | DE298 | DE298 | DE298 |
| | | | Start Depth | 0.5 | 0.5 | 1 | 2 | 1.5 | 2.5 | 2.5 |
| | | | End Depth | 1.5 | 1.5 | 2 | 3 | 2.5 | 3.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8315A | 50-00-0 | Formaldehyde | µg/kg | 1700 U | 1600 U | 1600 U | 1500 U | 1600 U B | 1600 U | 1600 U |

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

Appendix A8
Formaldehyde-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-069-NBZ-SB-3.0-4.0 | SL-070-NBZ-SS-0.0-0.5 | SL-071-NBZ-SB-4.0-5.0 | SL-072-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-9.0-10.0 | SL-074-NBZ-SB-0.5-1.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/20/2012 | 03/20/2012 | 03/19/2012 | 03/16/2012 | 03/19/2012 | 03/19/2012 | 03/19/2012 |
| | | | SDG | DE299 | DE299 | DE299 | DE298 | DE299 | DE299 | DE299 |
| | | | Start Depth | 3 | 0 | 4 | 4 | 4 | 9 | 0.5 |
| | | | End Depth | 4 | 0.5 | 5 | 5 | 5 | 10 | 1.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8315A | 50-00-0 | Formaldehyde | µg/kg | 1600 U | 1700 U | 1600 U | 1600 U | 1600 U | 1600 U | 1600 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-075-NBZ-SS-0.0-0.5 | SL-076-NBZ-SS-0.0-0.5 | SL-077-NBZ-SS-0.0-0.5 | SL-077-NBZ-SB-2.5-3.5 | SL-078-NBZ-SS-0.0-0.5 | SL-079-NBZ-SS-0.0-0.5 | SL-080-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/27/2012 | 03/30/2012 | 04/20/2012 |
| | | | SDG | DE299 | DE299 | DE299 | DE299 | DE302 | DE305 | DE313 |
| | | | Start Depth | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 3.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8315A | 50-00-0 | Formaldehyde | µg/kg | 1600 U | 1700 U | 1700 U | 1600 U | 1700 U | 1700 U | 1700 U |

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

Appendix A8
Formaldehyde-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-081-NBZ-SS-0.0-0.5 | SL-082-NBZ-SS-0.0-0.5 | SL-082-NBZ-SB-2.5-3.5 | SL-083-NBZ-SS-0.0-0.5 | SL-085-NBZ-SS-0.0-0.5 | SL-086-NBZ-SS-0.0-0.5 | SL-087-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/18/2012 | 04/18/2012 | 04/18/2012 | 04/18/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 |
| | | | SDG | DE311 | DE311 | DE311 | DE311 | DE309 | DE312 | DE312 |
| | | | Start Depth | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8315A | 50-00-0 | Formaldehyde | µg/kg | 1800 U | 1700 U | 1700 U | 1700 U | 1800 U | 1800 U | 2100 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-088-NBZ-SS-0.0-0.5 | SL-089-NBZ-SS-0.0-0.5 | SL-090-NBZ-SS-0.0-0.5 | SL-091-NBZ-SS-0.0-0.5 | SL-091-NBZ-SB-4.0-5.0 | DUP-05-NBZ-QC-032912 | SL-092-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | FD | N |
| | | | Sample Date | 04/17/2012 | 04/20/2012 | 04/17/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 |
| | | | SDG | DE310 | DE313 | DE311 | DE304 | DE304 | DE304 | DE304 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 4 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8315A | 50-00-0 | Formaldehyde | µg/kg | 1900 U | 1700 U | 1800 U | 180000 U | 1800 U | 190000 U | 180000 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-002-NBZ-SS-0.0-0.5 | SL-002-NBZ-SB-4.0-5.0 | SL-002-NBZ-SB-7.5-8.5 | SL-003-NBZ-SS-0.0-0.5 | SL-003-NBZ-SB-4.0-5.0 | SL-005-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/13/2012 |
| | | | SDG | 12C096 | 12C096 | 12C096 | 12C096 | 12C096 | 12C106 |
| | | | Start Depth | 0 | 4 | 7.5 | 0 | 4 | 4 |
| | | | End Depth | 0.5 | 5 | 8.5 | 0.5 | 5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015M | 107-21-1 | Ethylene Glycol | mg/kg | 10 U | 11 U | 11 U | 10 U | 11 U | 11 U |
| 8015M | 111-46-6 | Diethylene Glycol | mg/kg | 15 U | 16 U | 16 U | 16 U | 16 U | 17 U |
| 8015M | 57-55-6 | Propylene Glycol | mg/kg | 10 U | 11 U | 11 U | 10 U | 11 U | 11 U |

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

Appendix A9
Glycols-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-006-NBZ-SB-3.0-4.0 | SL-007-NBZ-SB-4.0-5.0 | SL-007-NBZ-SB-9.0-10.0 | SL-008-NBZ-SB-4.0-5.0 | SL-010-NBZ-SB-4.0-5.0 | SL-012-NBZ-SB-0.5-1.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/13/2012 | 03/12/2012 | 03/12/2012 | 04/18/2012 | 03/12/2012 | 04/19/2012 |
| | | | SDG | 12C106 | 12C096 | 12C096 | 12D166 | 12C096 | 12D176 |
| | | | Start Depth | 3 | 4 | 9 | 4 | 4 | 0.5 |
| | | | End Depth | 4 | 5 | 10 | 5 | 5 | 1.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015M | 107-21-1 | Ethylene Glycol | mg/kg | 11 U | 11 U | 11 U | 11 U | 11 U | 12 U |
| 8015M | 111-46-6 | Diethylene Glycol | mg/kg | 16 U | 16 U | 16 U | 16 U | 16 U | 18 U |
| 8015M | 57-55-6 | Propylene Glycol | mg/kg | 11 U | 11 U | 11 U | 11 U | 11 U | 12 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-015-NBZ-SS-0.0-0.5 | SL-019-NBZ-SS-0.0-0.5 | SL-019-NBZ-SB-3.0-4.0 | SL-020-NBZ-SB-2.5-3.5 | SL-021-NBZ-SS-0.0-0.5 | SL-021-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/13/2012 | 03/13/2012 | 03/13/2012 | 04/04/2012 | 03/13/2012 | 03/13/2012 |
| | | | SDG | 12C106 | 12C106 | 12C106 | 12D031 | 12C106 | 12C106 |
| | | | Start Depth | 0 | 0 | 3 | 2.5 | 0 | 4 |
| | | | End Depth | 0.5 | 0.5 | 4 | 3.5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015M | 107-21-1 | Ethylene Glycol | mg/kg | 10 U | 10 U | 11 U | 11 U | 10 U | 10 U |
| 8015M | 111-46-6 | Diethylene Glycol | mg/kg | 15 U | 15 U | 16 U | 17 U | 15 U | 16 U |
| 8015M | 57-55-6 | Propylene Glycol | mg/kg | 10 U | 10 U | 11 U | 11 U | 10 U | 10 U |

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

Appendix A9
Glycols-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-022-NBZ-SS-0.0-0.5 | SL-022-NBZ-SB-4.0-5.0 | SL-022-NBZ-SB-9.0-10.0 | SL-023-NBZ-SS-0.0-0.5 | SL-023-NBZ-SB-4.0-5.0 | SL-023-NBZ-SB-8.5-9.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 |
| | | | SDG | 12C121 | 12C121 | 12C121 | 12C121 | 12C121 | 12C121 |
| | | | Start Depth | 0 | 4 | 9 | 0 | 4 | 8.5 |
| | | | End Depth | 0.5 | 5 | 10 | 0.5 | 5 | 9.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015M | 107-21-1 | Ethylene Glycol | mg/kg | 10 U | 10 U | 10 U | 10 U | 10 U | 11 U |
| 8015M | 111-46-6 | Diethylene Glycol | mg/kg | 16 U | 16 U | 16 U | 16 U | 16 U | 16 U |
| 8015M | 57-55-6 | Propylene Glycol | mg/kg | 10 U | 10 U | 10 U | 10 U | 10 U | 11 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-024-NBZ-SS-0.0-0.5 | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 | SL-028-NBZ-SS-0.0-0.5 | SL-029-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 03/15/2012 |
| | | | SDG | 12C121 | 12D004 | 12D004 | 12D004 | 12D004 | 12C135 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015M | 107-21-1 | Ethylene Glycol | mg/kg | 10 U | 11 U | 11 U | 12 U | 11 U | 10 U |
| 8015M | 111-46-6 | Diethylene Glycol | mg/kg | 15 U | 16 U | 16 U | 17 U | 17 U | 15 U |
| 8015M | 57-55-6 | Propylene Glycol | mg/kg | 10 U | 11 U | 11 U | 12 U | 11 U | 10 U |

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

Appendix A9
Glycols-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 | SL-034-NBZ-SS-0.0-0.5 | SL-035-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 |
| | | | SDG | 12C121 | 12D018 | 12D018 | 12D018 | 12D018 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015M | 107-21-1 | Ethylene Glycol | mg/kg | 10 U | 11 U | 11 U | 11 U | 12 U | 11 U |
| 8015M | 111-46-6 | Diethylene Glycol | mg/kg | 15 U | 16 U | 17 U | 16 U | 18 U | 17 U |
| 8015M | 57-55-6 | Propylene Glycol | mg/kg | 10 U | 11 U | 11 U | 11 U | 12 U | 11 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-035-NBZ-SB-2.0-3.0 | SL-036-NBZ-SB-4.0-5.0 | SL-036-NBZ-SB-7.5-8.5 | SL-037-NBZ-SB-3.0-4.0 | SL-039-NBZ-SB-2.0-3.0 | SL-040-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 |
| | | | SDG | 12D018 | 12C285 | 12C285 | 12C285 | 12C273 | 12C285 |
| | | | Start Depth | 2 | 4 | 7.5 | 3 | 2 | 0 |
| | | | End Depth | 3 | 5 | 8.5 | 4 | 3 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015M | 107-21-1 | Ethylene Glycol | mg/kg | 11 U | 11 U | 13 U | 11 U | 11 U | 11 U |
| 8015M | 111-46-6 | Diethylene Glycol | mg/kg | 16 U | 17 U | 20 U | 17 U | 17 U | 17 U |
| 8015M | 57-55-6 | Propylene Glycol | mg/kg | 11 U | 11 U | 13 U | 11 U | 11 U | 11 U |

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

Appendix A9
Glycols-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | DUP-03-NBZ-QC-032812 | SL-040-NBZ-SB-2.5-3.5 | SL-042-NBZ-SS-0.0-0.5 | SL-043-NBZ-SS-0.0-0.5 | SL-044-NBZ-SS-0.0-0.5 | SL-045-NBZ-SS-0.0-0.5 |
| | | | Sample Type | FD | N | N | N | N | N |
| | | | Sample Date | 03/28/2012 | 03/28/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 | 03/26/2012 |
| | | | SDG | 12C285 | 12C285 | 12C261 | 12C261 | 12C305 | 12C261 |
| | | | Start Depth | 2.5 | 2.5 | 0 | 0 | 0 | 0 |
| | | | End Depth | 3.5 | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015M | 107-21-1 | Ethylene Glycol | mg/kg | 11 U | 10 U | 12 U | 11 U | 10 U | 11 U |
| 8015M | 111-46-6 | Diethylene Glycol | mg/kg | 16 U | 16 U | 17 U | 17 U | 16 U | 16 U |
| 8015M | 57-55-6 | Propylene Glycol | mg/kg | 11 U | 10 U | 12 U | 11 U | 10 U | 11 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-045-NBZ-SB-4.0-5.0 | SL-046-NBZ-SS-0.0-0.5 | SL-046-NBZ-SB-4.0-5.0 | SL-047-NBZ-SB-4.0-5.0 | SL-048-NBZ-SS-0.0-0.5 | SL-048-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/26/2012 | 03/26/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 |
| | | | SDG | 12C261 | 12C261 | 12C261 | 12C254 | 12C254 | 12C254 |
| | | | Start Depth | 4 | 0 | 4 | 4 | 0 | 4 |
| | | | End Depth | 5 | 0.5 | 5 | 5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015M | 107-21-1 | Ethylene Glycol | mg/kg | 11 U | 12 U | 11 U | 10 U | 11 U | 10 U |
| 8015M | 111-46-6 | Diethylene Glycol | mg/kg | 16 U | 18 U | 16 U | 16 U | 17 U | 16 U |
| 8015M | 57-55-6 | Propylene Glycol | mg/kg | 11 U | 12 U | 11 U | 10 U | 11 U | 10 U |

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

Appendix A9
Glycols-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-049-NBZ-SB-2.0-3.0 | SL-050-NBZ-SS-0.0-0.5 | SL-051-NBZ-SB-1.5-2.5 | SL-052-NBZ-SS-0.0-0.5 | SL-053-NBZ-SS-0.0-0.5 | SL-053-NBZ-SB-3.5-4.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/23/2012 | 03/26/2012 | 03/23/2012 | 03/15/2012 | 03/15/2012 | 03/15/2012 |
| | | | SDG | 12C254 | 12C261 | 12C254 | 12C135 | 12C135 | 12C135 |
| | | | Start Depth | 2 | 0 | 1.5 | 0 | 0 | 3.5 |
| | | | End Depth | 3 | 0.5 | 2.5 | 0.5 | 0.5 | 4.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015M | 107-21-1 | Ethylene Glycol | mg/kg | 10 U | 11 U | 10 U | 10 U | 10 U | 10 U |
| 8015M | 111-46-6 | Diethylene Glycol | mg/kg | 16 U | 16 U | 16 U | 15 U | 15 U | 16 U |
| 8015M | 57-55-6 | Propylene Glycol | mg/kg | 10 U | 11 U | 10 U | 10 U | 10 U | 10 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-054-NBZ-SS-0.0-0.5 | SL-055-NBZ-SS-0.0-0.5 | SL-056-NBZ-SS-0.0-0.5 | SL-056-NBZ-SB-3.0-4.0 | DUP-02-NBZ-QC-032312 | SL-057-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | FD | N |
| | | | Sample Date | 03/22/2012 | 03/22/2012 | 03/15/2012 | 03/15/2012 | 03/23/2012 | 03/23/2012 |
| | | | SDG | 12C229 | 12C229 | 12C135 | 12C135 | 12C254 | 12C254 |
| | | | Start Depth | 0 | 0 | 0 | 3 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 4 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015M | 107-21-1 | Ethylene Glycol | mg/kg | 11 U | 11 U | 10 U | 10 U | 11 U | 11 U |
| 8015M | 111-46-6 | Diethylene Glycol | mg/kg | 16 U | 17 U | 15 U | 16 U | 16 U | 16 U |
| 8015M | 57-55-6 | Propylene Glycol | mg/kg | 11 U | 11 U | 10 U | 10 U | 11 U | 11 U |

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

Appendix A9
Glycols-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-058-NBZ-SB-4.0-5.0 | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 | SL-061-NBZ-SB-1.0-2.0 | SL-062-NBZ-SB-2.5-3.5 | SL-063-NBZ-SB-0.5-1.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/22/2012 | 03/21/2012 | 03/21/2012 |
| | | | SDG | 12C135 | 12C229 | 12C229 | 12C229 | 12C209 | 12C209 |
| | | | Start Depth | 5 | 0 | 0 | 1 | 2.5 | 0.5 |
| | | | End Depth | 5 | 0.5 | 0.5 | 2 | 3.5 | 1.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015M | 107-21-1 | Ethylene Glycol | mg/kg | 11 U | 11 U | 11 U | 11 U | 10 U | 11 U |
| 8015M | 111-46-6 | Diethylene Glycol | mg/kg | 16 U | 16 U | 16 U | 16 U | 16 U | 17 U |
| 8015M | 57-55-6 | Propylene Glycol | mg/kg | 11 U | 11 U | 11 U | 11 U | 10 U | 11 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-064-NBZ-SB-0.5-1.5 | SL-065-NBZ-SB-1.0-2.0 | SL-066-NBZ-SB-2.0-3.0 | SL-067-NBZ-SB-1.5-2.5 | DUP-01-NBZ-QC-031612 | SL-068-NBZ-SB-2.5-3.5 |
| | | | Sample Type | N | N | N | N | FD | N |
| | | | Sample Date | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/16/2012 | 03/16/2012 | 03/16/2012 |
| | | | SDG | 12C209 | 12C209 | 12C209 | 12C156 | 12C156 | 12C156 |
| | | | Start Depth | 0.5 | 1 | 2 | 1.5 | 2.5 | 2.5 |
| | | | End Depth | 1.5 | 2 | 3 | 2.5 | 3.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015M | 107-21-1 | Ethylene Glycol | mg/kg | 11 U | 11 U | 10 U | 11 U | 11 U | 11 U |
| 8015M | 111-46-6 | Diethylene Glycol | mg/kg | 16 U | 16 U | 15 U | 16 U | 17 U | 16 U |
| 8015M | 57-55-6 | Propylene Glycol | mg/kg | 11 U | 11 U | 10 U | 11 U | 11 U | 11 U |

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

Appendix A9
Glycols-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-069-NBZ-SB-3.0-4.0 | SL-070-NBZ-SS-0.0-0.5 | SL-071-NBZ-SB-4.0-5.0 | SL-072-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-9.0-10.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/20/2012 | 03/20/2012 | 03/19/2012 | 03/16/2012 | 03/19/2012 | 03/19/2012 |
| | | | SDG | 12C182 | 12C182 | 12C164 | 12C156 | 12C164 | 12C164 |
| | | | Start Depth | 3 | 0 | 4 | 4 | 4 | 9 |
| | | | End Depth | 4 | 0.5 | 5 | 5 | 5 | 10 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015M | 107-21-1 | Ethylene Glycol | mg/kg | 10 U | 11 U | 10 U | 11 U | 11 U | 11 U |
| 8015M | 111-46-6 | Diethylene Glycol | mg/kg | 16 U | 17 U | 16 U | 17 U | 16 U | 17 U |
| 8015M | 57-55-6 | Propylene Glycol | mg/kg | 10 U | 11 U | 10 U | 11 U | 11 U | 11 U |

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

| | | | | | |
|---|---|---|---|---|---|
| | | | Sample Name | SL-074-NBZ-SB-0.5-1.5 | SL-087-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N |
| | | | Sample Date | 03/19/2012 | 04/19/2012 |
| | | | SDG | 12C164 | 12D176 |
| | | | Start Depth | 0.5 | 0 |
| | | | End Depth | 1.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | |
| 8015M | 107-21-1 | Ethylene Glycol | mg/kg | 10 U | 13 U |
| 8015M | 111-46-6 | Diethylene Glycol | mg/kg | 16 U | 19 U |
| 8015M | 57-55-6 | Propylene Glycol | mg/kg | 10 U | 13 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-001-NBZ-SS-0.0-0.5 | SL-002-NBZ-SS-0.0-0.5 | SL-003-NBZ-SS-0.0-0.5 | SL-004-NBZ-SS-0.0-0.5 | DUP-07-NBZ-QC-041012 | SL-009-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | FD | N |
| | | | Sample Date | 04/09/2012 | 03/12/2012 | 03/12/2012 | 04/11/2012 | 04/10/2012 | 04/10/2012 |
| | | | SDG | 12D084 | 12C096 | 12C096 | 12D106 | 12D092 | 12D092 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.4 UY | 5 UY | 5 UY | 5.8 UY | 5.6 UY | 5.6 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.8 UY | 2.4 UY | 2.6 UY | 3 UY | 2.8 UY | 2.8 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 20 UY | 18.6 UY | 18.8 UY | 22 UY | 20 UY | 20 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.8 UY | 3.6 UY | 3.6 UY | 4.2 UY | 4 UY | 4 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 560 UY | 520 UY | 520 UY | 620 UY | 580 UY | 580 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.38 UY | 0.36 UY | 0.36 UY | 0.42 UY | 0.4 UY | 0.4 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.38 UY | 0.36 UY | 0.36 UY | 0.42 UY | 0.4 UY | 0.4 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 560 UY | 520 UY | 520 UY | 620 UY | 580 UY | 580 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8.2 UY | 7.4 UY | 7.6 UY | 8.8 UY | 8.2 UY | 8.4 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.8 UY | 3.6 UY | 3.6 UY | 4.2 UY | 4 UY | 4 UY |

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

Appendix A10
Herbicides-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-011-NBZ-SS-0.0-0.5 | SL-012-NBZ-SS-0.0-0.5 | SL-013-NBZ-SS-0.0-0.5 | SL-014-NBZ-SS-0.0-0.5 | SL-015-NBZ-SS-0.0-0.5 | SL-016-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/12/2012 | 04/19/2012 | 04/16/2012 | 04/17/2012 | 03/13/2012 | 04/20/2012 |
| | | | SDG | 12D122 | 12D176 | 12D146 | 12D154 | 12C106 | 12D192 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.4 UY | 5.6 UY | 7.2 UY | 6 UY | 4.8 UY | 6 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.8 UY | 2.8 UY | 3.6 UY | 3 UY | 2.4 UY | 3 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 20 UY | 22 UY | 26 UY | 22 UY | 18.2 UY | 22 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.8 UY | 4 UY | 5 UY | 4.2 UY | 3.4 UY | 4.2 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 560 UY | 580 UY | 740 UY | 620 UY | 500 UY | 640 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.38 UY | 0.4 UY | 0.5 UY | 0.42 UY | 0.34 UY | 0.42 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.38 UY | 0.4 UY | 0.5 UY | 0.42 UY | 0.34 UY | 0.42 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 560 UY | 580 UY | 740 UY | 620 UY | 500 UY | 640 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8.2 UY | 8.4 UY | 10.6 UY | 9 UY | 7.4 UY | 9 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.8 UY | 4 UY | 5 UY | 4.2 UY | 3.4 UY | 4.2 UY |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-017-NBZ-SS-0.0-0.5 | SL-018-NBZ-SS-0.0-0.5 | SL-019-NBZ-SS-0.0-0.5 | SL-020-NBZ-SS-0.0-0.5 | SL-020-NBZ-SB-2.5-3.5 | SL-021-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/19/2012 | 04/20/2012 | 03/13/2012 | 04/04/2012 | 04/04/2012 | 03/13/2012 |
| | | | SDG | 12D176 | 12D192 | 12C106 | 12D031 | 12D031 | 12C106 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 2.5 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 3.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 6.8 UY | 5.8 UY | 5 UY | 5.4 UY | 5.4 UY | 5 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 3.4 UY | 3 UY | 2.4 UY | 2.6 UY | 2.8 UY | 2.4 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 26 UY | 22 UY | 18.6 UY | 20 UY | 20 UY | 18.4 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 4.8 UY | 4.2 UY | 3.6 UY | 3.8 UJY C | 3.8 UJY C | 3.4 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 720 UY | 600 UY | 520 UY | 560 UY | 560 UY | 520 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.48 UY | 0.42 UY | 0.36 UY | 0.38 UY | 0.38 UY | 0.34 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.48 UY | 0.42 UY | 0.36 UY | 0.38 UJY C | 0.38 UJY C | 0.34 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 720 UY | 600 UY | 520 UY | 560 UY | 560 UY | 520 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 10.2 UY | 8.8 UY | 7.4 UY | 8 UY | 8.2 UY | 18 |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 4.8 UY | 4.2 UY | 3.6 UY | 3.8 UY | 3.8 UY | 3.4 UY |

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

Appendix A10
Herbicides-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-022-NBZ-SS-0.0-0.5 | SL-023-NBZ-SS-0.0-0.5 | SL-024-NBZ-SS-0.0-0.5 | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 03/14/2012 | 03/14/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 |
| | | | SDG | 12C121 | 12C121 | 12C121 | 12D004 | 12D004 | 12D004 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5 UY | 5 UY | 5 UY | 5.2 UY | 5.2 UY | 5.6 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.6 UY | 2.4 UY | 2.4 UY | 2.6 UY | 2.6 UY | 2.8 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 18.8 UY | 18.6 UY | 18.6 UY | 19.6 UY | 19.4 UY | 20 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.6 UY | 3.6 UY | 3.6 UY | 3.8 UY | 3.6 UY | 4 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 520 UY | 520 UY | 520 UY | 540 UY | 540 UY | 580 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.36 UY | 0.36 UY | 0.36 UY | 0.38 UY | 0.36 UY | 0.4 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.36 UY | 0.36 UY | 0.36 UY | 0.38 UY | 0.36 UY | 0.4 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 520 UY | 520 UY | 520 UY | 540 UY | 540 UY | 580 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 7.6 UY | 7.4 UY | 7.4 UY | 7.8 UY | 7.8 UY | 8.4 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.6 UY | 3.6 UY | 3.6 UY | 3.8 UY | 3.6 UY | 4 UY |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-028-NBZ-SS-0.0-0.5 | SL-029-NBZ-SS-0.0-0.5 | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/02/2012 | 03/15/2012 | 03/14/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 |
| | | | SDG | 12D004 | 12C135 | 12C121 | 12D018 | 12D018 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.2 UY | 5 UY | 5 UY | 5.2 UY | 5.4 UY | 5.2 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.6 UY | 2.4 UY | 2.4 UY | 2.6 UY | 2.8 UY | 2.6 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 19.8 UY | 18.6 UY | 18.4 UY | 19.6 UY | 20 UY | 19.8 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.8 UY | 3.6 UY | 3.4 UY | 3.6 UY | 3.8 UY | 3.8 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 560 UY | 520 UY | 520 UY | 540 UY | 560 UY | 540 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.38 UY | 0.36 UY | 0.34 UY | 0.36 UY | 0.38 UY | 0.38 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.38 UY | 0.36 UY | 0.34 UY | 0.36 UY | 0.38 UY | 0.38 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 560 UY | 520 UY | 520 UY | 540 UY | 560 UY | 540 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8 UY | 7.4 UY | 7.4 UY | 7.8 UY | 8.2 UY | 8 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.8 UY | 3.6 UY | 3.4 UY | 3.6 UY | 3.8 UY | 3.8 UY |

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

Appendix A10
Herbicides-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-034-NBZ-SS-0.0-0.5 | SL-035-NBZ-SS-0.0-0.5 | SL-038-NBZ-SS-0.0-0.5 | SL-040-NBZ-SS-0.0-0.5 | SL-042-NBZ-SS-0.0-0.5 | SL-043-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 04/03/2012 | 03/27/2012 | 03/28/2012 | 03/26/2012 | 03/26/2012 |
| | | | SDG | 12D018 | 12D018 | 12C273 | 12C285 | 12C261 | 12C261 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.8 UY | 5.4 UY | 116 UY | 26 UY | 28 UY | 5.4 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.8 UY | 2.8 UY | 58 UY | 13.4 UY | 14 UY | 2.6 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 22 UY | 20 UY | 440 UY | 102 UY | 104 UY | 20 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 4 UY | 3.8 UY | 82 UY | 19.2 UY | 19.8 UY | 3.8 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 600 UY | 560 UY | 12000 UY | 2800 UY | 3000 UY | 560 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.4 UY | 0.38 UY | 8.2 UY | 1.92 UY | 1.98 UY | 0.38 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.4 UY | 0.38 UY | 8.2 UY | 1.92 UY | 1.98 UY | 0.38 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 600 UY | 560 UY | 12000 UY | 2800 UY | 3000 UY | 560 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8.6 UY | 8.2 UY | 174 UY | 40 UY | 42 UY | 8 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 4 UY | 3.8 UY | 82 UY | 19.2 UY | 19.8 UY | 3.8 UY |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-044-NBZ-SS-0.0-0.5 | SL-045-NBZ-SS-0.0-0.5 | SL-046-NBZ-SS-0.0-0.5 | SL-048-NBZ-SS-0.0-0.5 | SL-050-NBZ-SS-0.0-0.5 | SL-052-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/29/2012 | 03/26/2012 | 03/26/2012 | 03/23/2012 | 03/26/2012 | 03/15/2012 |
| | | | SDG | 12C305 | 12C261 | 12C261 | 12C254 | 12C261 | 12C135 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 24 UY | 26 UY | 5.6 UY | 5.4 UY | 26 UY | 5 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 12.4 UY | 13 UY | 2.8 UY | 2.8 UY | 13.2 UY | 2.4 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 94 UY | 98 UY | 22 UY | 20 UY | 98 UY | 18.4 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 17.6 UY | 18.4 UY | 4 UY | 3.8 UJY C | 18.6 UY | 3.4 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 2600 UY | 2800 UY | 580 UY | 560 UJY C | 2800 UY | 520 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 10 | 1.84 UY | 0.4 UY | 0.38 UY | 1.86 UY | 0.34 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 1.76 UY | 1.84 UY | 0.4 UY | 0.38 UY | 1.86 UY | 0.34 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 2600 UY | 2800 UY | 580 UY | 560 UY | 2800 UY | 520 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 38 UY | 40 UY | 8.4 UY | 8.2 UY | 40 UY | 7.4 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 17.6 UY | 18.4 UY | 4 UY | 3.8 UJY C | 18.6 UY | 3.4 UY |

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

Appendix A10
Herbicides-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-053-NBZ-SS-0.0-0.5 | SL-054-NBZ-SS-0.0-0.5 | SL-055-NBZ-SS-0.0-0.5 | SL-056-NBZ-SS-0.0-0.5 | DUP-02-NBZ-QC-032312 | SL-057-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | FD | N |
| | | | Sample Date | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/15/2012 | 03/23/2012 | 03/23/2012 |
| | | | SDG | 12C135 | 12C229 | 12C229 | 12C135 | 12C254 | 12C254 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 4.8 UY | 5.2 UY | 5.4 UY | 5 UY | 5.2 UY | 5.2 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.4 UY | 2.6 UY | 2.6 UY | 2.4 UJY Q | 2.6 UY | 2.6 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 18.4 UY | 19.6 UY | 20 UY | 18.4 UY | 19.2 UY | 19.4 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.4 UY | 3.6 UY | 3.8 UY | 3.4 UY | 3.6 UY | 3.6 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 500 UY | 540 UY | 560 UY | 520 UY | 540 UY | 540 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.34 UY | 0.36 UY | 0.38 UY | 0.34 UY | 0.36 UY | 0.36 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.34 UY | 0.36 UY | 0.38 UY | 0.34 UY | 0.36 UY | 0.36 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 500 UY | 540 UY | 560 UY | 520 UY | 540 UY | 540 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 7.4 UY | 7.8 UY | 8 UY | 7.4 UY | 7.6 UY | 7.8 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.4 UY | 3.6 UY | 3.8 UY | 3.4 UY | 3.6 UY | 3.6 UJY Q |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 | SL-070-NBZ-SS-0.0-0.5 | SL-075-NBZ-SS-0.0-0.5 | SL-076-NBZ-SS-0.0-0.5 | SL-077-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/22/2012 | 03/22/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 |
| | | | SDG | 12C229 | 12C229 | 12C182 | 12C182 | 12C182 | 12C182 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.2 UY | 5 UY | 5.4 UY | 5.2 UY | 5.4 UY | 5.6 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.6 UY | 2.6 UY | 2.8 UY | 2.6 UY | 2.8 UY | 2.8 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 19.6 UY | 19 UY | 20 UY | 19.8 UY | 20 UY | 20 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.8 UY | 3.6 UY | 3.8 UY | 3.8 UY | 3.8 UY | 4 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 540 UY | 520 UY | 580 UY | 540 UY | 580 UY | 580 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.38 UY | 0.36 UY | 0.38 UY | 0.38 UY | 0.38 UY | 0.4 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.38 UY | 0.36 UY | 0.38 UY | 0.38 UY | 0.38 UY | 0.4 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 540 UY | 520 UY | 580 UY | 540 UY | 580 UY | 580 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 7.8 UY | 7.6 UY | 8.2 UY | 7.8 UY | 8.2 UY | 8.4 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.8 UY | 3.6 UY | 3.8 UY | 3.8 UY | 3.8 UY | 4 UY |

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

Appendix A10
Herbicides-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-078-NBZ-SS-0.0-0.5 | SL-079-NBZ-SS-0.0-0.5 | SL-080-NBZ-SS-0.0-0.5 | SL-081-NBZ-SS-0.0-0.5 | SL-082-NBZ-SS-0.0-0.5 | SL-082-NBZ-SB-2.5-3.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/27/2012 | 03/30/2012 | 04/20/2012 | 04/18/2012 | 04/18/2012 | 04/18/2012 |
| | | | SDG | 12C273 | 12C321 | 12D192 | 12D166 | 12D166 | 12D166 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 2.5 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.4 UY | 5.6 UY | 5.6 UY | 5.8 UY | 5.6 UY | 5.4 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.8 UY | 2.8 UY | 2.8 UY | 2.8 UY | 2.8 UY | 2.8 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 20 UY | 20 UY | 20 UY | 22 UY | 20 UY | 20 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.8 UY | 4 UY | 4 UY | 4 UY | 3.8 UY | 3.8 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 560 UY | 580 UY | 580 UY | 600 UY | 580 UY | 560 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.38 UY | 0.4 UY | 0.4 UY | 0.4 UY | 0.38 UY | 0.38 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.38 UY | 0.4 UY | 0.4 UY | 0.4 UY | 0.38 UY | 0.38 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 560 UY | 580 UY | 580 UY | 600 UY | 580 UY | 560 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8.2 UY | 8.4 UY | 8.4 UY | 8.6 UY | 8.2 UY | 8.2 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.8 UY | 4 UY | 4 UY | 4 UY | 3.8 UY | 3.8 UY |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-083-NBZ-SS-0.0-0.5 | SL-084-NBZ-SS-0.0-0.5 | SL-085-NBZ-SS-0.0-0.5 | SL-086-NBZ-SS-0.0-0.5 | SL-087-NBZ-SS-0.0-0.5 | SL-088-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/18/2012 | 04/10/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 | 04/17/2012 |
| | | | SDG | 12D166 | 12D092 | 12D092 | 12D176 | 12D176 | 12D154 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.4 UY | 5.6 UY | 5.6 UY | 6.2 UY | 6 UY | 6.2 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.8 UY | 2.8 UY | 2.8 UY | 3.2 UY | 3 UY | 3.2 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 20 UY | 22 UY | 22 UY | 24 UY | 22 UY | 24 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.8 UY | 4 UY | 4 UY | 4.4 UY | 4.2 UY | 4.4 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 580 UY | 580 UY | 600 UY | 640 UY | 640 UY | 660 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.38 UY | 0.4 UY | 0.4 UY | 0.44 UY | 0.42 UY | 0.44 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.38 UY | 0.4 UY | 0.4 UY | 0.44 UY | 0.42 UY | 0.44 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 580 UY | 580 UY | 600 UY | 640 UY | 640 UY | 660 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8.2 UY | 8.4 UY | 8.6 UY | 9.4 UY | 9 UY | 9.4 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.8 UY | 4 UY | 4 UY | 4.4 UY | 4.2 UY | 4.4 UY |

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

Appendix A10
Herbicides-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-089-NBZ-SS-0.0-0.5 | SL-090-NBZ-SS-0.0-0.5 | SL-091-NBZ-SS-0.0-0.5 | DUP-05-NBZ-QC-032912 | SL-092-NBZ-SS-0.0-0.5 | SL-094-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | FD | N | N |
| | | | Sample Date | 04/20/2012 | 04/17/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 | 03/28/2012 |
| | | | SDG | 12D192 | 12D154 | 12C305 | 12C305 | 12C305 | 12C285 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.4 UY | 5.6 UY | 5.8 UY | 5.8 UY | 5.6 UY | 5.6 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.8 UY | 2.8 UY | 3 UY | 2.8 UY | 2.8 UJY Q | 2.8 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 20 UY | 20 UY | 22 UY | 22 UY | 22 UY | 20 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.8 UY | 4 UY | 4.2 UY | 4 UY | 4 UY | 4 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 560 UY | 580 UY | 600 UY | 600 UY | 580 UY | 580 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.38 UY | 0.4 UY | 0.42 UY | 0.4 UY | 0.4 UY | 0.4 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.38 UY | 0.4 UY | 0.42 UY | 0.4 UY | 0.4 UY | 0.4 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 560 UY | 580 UY | 600 UY | 600 UY | 580 UY | 580 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8.2 UY | 8.4 UY | 8.8 UY | 8.6 UY | 8.4 UY | 8.2 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.8 UY | 4 UY | 4.2 UY | 4 UY | 4 UY | 4 UY |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-095-NBZ-SS-0.0-0.5 | SL-096-NBZ-SS-0.0-0.5 | SL-097-NBZ-SS-0.0-0.5 | SL-099-NBZ-SS-0.0-0.5 | SL-100-NBZ-SS-0.0-0.5 | SL-101-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/27/2012 | 03/28/2012 | 04/04/2012 | 04/04/2012 | 04/04/2012 | 03/29/2012 |
| | | | SDG | 12C273 | 12C285 | 12D031 | 12D031 | 12D031 | 12C305 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.4 UY | 5.6 UY | 5.2 UY | 5.2 UY | 5.2 UY | 5.4 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.8 UY | 2.8 UY | 2.6 UY | 2.6 UY | 2.6 UY | 2.8 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 20 UY | 20 UY | 19.2 UY | 19.6 UY | 19.6 UY | 20 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.8 UY | 4 UY | 3.6 UJY C | 3.8 UJY C | 3.6 UJY C | 3.8 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 560 UY | 580 UY | 540 UY | 540 UY | 540 UY | 580 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.38 UY | 0.4 UY | 0.36 UY | 0.38 UY | 0.36 UY | 0.38 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.38 UY | 0.4 UY | 0.36 UJY C | 0.38 UJY C | 0.36 UJY C | 0.38 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 560 UY | 580 UY | 540 UY | 540 UY | 540 UY | 580 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8.2 UY | 8.4 UY | 7.8 UY | 7.8 UY | 7.8 UY | 8.2 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.8 UY | 4 UY | 3.6 UY | 3.8 UY | 3.6 UY | 3.8 UY |

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

Appendix A10
Herbicides-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-102-NBZ-SS-0.0-0.5 | SL-103-NBZ-SS-0.0-0.5 | SL-104-NBZ-SS-0.0-0.5 | SL-105-NBZ-SS-0.0-0.5 | SL-107-NBZ-SS-0.0-0.5 | SL-108-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/27/2012 | 03/29/2012 | 04/04/2012 | 03/21/2012 | 04/02/2012 | 04/03/2012 |
| | | | SDG | 12C273 | 12C305 | 12D031 | 12C209 | 12D004 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.6 UY | 5.6 UY | 5.2 UY | 5.4 UY | 5.4 UY | 5 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.8 UY | 2.8 UY | 2.6 UY | 2.6 UY | 2.8 UY | 2.6 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 20 UY | 20 UY | 19.4 UY | 20 UY | 20 UY | 19 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 4 UY | 3.8 UY | 3.6 UJY C | 3.8 UY | 3.8 UY | 3.6 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 580 UY | 580 UY | 540 UY | 560 UY | 560 UY | 540 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.4 UY | 0.38 UY | 0.36 UY | 0.38 UY | 0.38 UY | 0.36 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.4 UY | 0.38 UY | 0.36 UJY C | 0.38 UY | 0.38 UY | 0.36 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 580 UY | 580 UY | 540 UY | 560 UY | 560 UY | 540 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8.4 UY | 8.2 UY | 7.8 UY | 8 UY | 8.2 UY | 7.6 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 4 UY | 3.8 UY | 3.6 UY | 3.8 UY | 3.8 UY | 3.6 UY |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-109-NBZ-SS-0.0-0.5 | SL-110-NBZ-SS-0.0-0.5 | SL-111-NBZ-SS-0.0-0.5 | SL-112-NBZ-SS-0.0-0.5 | SL-113-NBZ-SS-0.0-0.5 | SL-114-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/27/2012 | 04/04/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/04/2012 |
| | | | SDG | 12C273 | 12D031 | 12D004 | 12D004 | 12D004 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.6 UY | 5.2 UY | 6 UY | 5.2 UY | 5.2 UY | 5.2 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.8 UY | 2.6 UY | 3 UY | 2.6 UY | 2.6 UY | 2.6 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 20 UY | 19.4 UY | 22 UY | 19.8 UY | 19.6 UY | 19.6 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.8 UY | 3.6 UJY C | 4.2 UY | 3.8 UY | 3.8 UY | 3.8 UJY C |
| 8151A | 93-65-2 | MCPP | µg/kg | 580 UY | 540 UY | 640 UY | 560 UY | 540 UY | 540 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.38 UY | 0.36 UY | 0.42 UY | 0.38 UY | 0.38 UY | 0.38 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.38 UY | 0.36 UJY C | 0.42 UY | 0.38 UY | 0.38 UY | 0.38 UJY C |
| 8151A | 94-74-6 | MCPA | µg/kg | 580 UY | 540 UY | 640 UY | 560 UY | 540 UY | 540 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8.2 UY | 7.8 UY | 9 UY | 8 UY | 7.8 UY | 7.8 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.8 UY | 3.6 UY | 4.2 UY | 3.8 UY | 3.8 UY | 3.8 UY |

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

Appendix A10
Herbicides-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-115-NBZ-SS-0.0-0.5 | SL-116-NBZ-SS-0.0-0.5 | DUP-04-NBZ-QC-032912 | SL-118-NBZ-SS-0.0-0.5 | SL-119-NBZ-SS-0.0-0.5 | SL-120-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | FD | N | N | N |
| | | | Sample Date | 04/03/2012 | 03/22/2012 | 03/29/2012 | 03/29/2012 | 03/27/2012 | 04/04/2012 |
| | | | SDG | 12D018 | 12C229 | 12C305 | 12C305 | 12C273 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.4 UY | 5.4 UY | 5.2 UY | 5.2 UY | 5.4 UY | 5.2 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.8 UY | 2.6 UY | 2.6 UY | 2.6 UJY Q | 2.6 UY | 2.6 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 20 UY | 20 UY | 19.8 UY | 19.8 UY | 20 UY | 19.4 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.8 UY | 3.8 UY | 3.8 UY | 3.8 UY | 3.8 UY | 3.6 UJY C |
| 8151A | 93-65-2 | MCPP | µg/kg | 580 UY | 560 UY | 540 UY | 540 UY | 560 UY | 540 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.38 UY | 0.38 UY | 0.38 UY | 0.38 UY | 0.38 UY | 0.36 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.38 UY | 0.38 UY | 0.38 UY | 0.38 UY | 0.38 UY | 0.36 UJY C |
| 8151A | 94-74-6 | MCPA | µg/kg | 580 UY | 560 UY | 540 UY | 540 UY | 560 UY | 540 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8.2 UY | 8 UY | 7.8 UY | 8 UY | 8 UY | 7.8 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.8 UY | 3.8 UY | 3.8 UY | 3.8 UY | 3.8 UY | 3.6 UY |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-121-NBZ-SS-0.0-0.5 | SL-122-NBZ-SS-0.0-0.5 | SL-123-NBZ-SS-0.0-0.5 | SL-124-NBZ-SS-0.0-0.5 | SL-126-NBZ-SS-0.0-0.5 | SL-127-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/30/2012 | 04/03/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 | 04/03/2012 |
| | | | SDG | 12C321 | 12D018 | 12C261 | 12C261 | 12C261 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.2 UY | 5.4 UY | 5.6 UY | 6.4 UY | 5.8 UY | 5 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.6 UY | 2.8 UY | 2.8 UY | 3.2 UY | 2.8 UY | 2.6 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 19.6 UY | 20 UY | 22 UY | 24 UY | 22 UY | 19.2 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.6 UY | 3.8 UY | 4 UY | 4.6 UY | 4 UY | 3.6 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 540 UY | 560 UY | 580 UY | 680 UY | 600 UY | 540 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.36 UY | 0.38 UY | 0.4 UY | 0.46 UY | 0.4 UY | 0.36 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.36 UY | 0.38 UY | 0.4 UY | 0.46 UY | 0.4 UY | 0.36 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 540 UY | 560 UY | 580 UY | 680 UY | 600 UY | 540 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 7.8 UY | 8.2 UY | 8.4 UY | 9.6 UY | 8.6 UY | 7.6 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.6 UY | 3.8 UY | 4 UY | 4.6 UY | 4 UY | 3.6 UY |

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

Appendix A10
Herbicides-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-129-NBZ-SS-0.0-0.5 | SL-130-NBZ-SS-0.0-0.5 | SL-131-NBZ-SS-0.0-0.5 | SL-133-NBZ-SS-0.0-0.5 | SL-134-NBZ-SS-0.0-0.5 | SL-135-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/27/2012 | 03/27/2012 | 03/29/2012 | 03/26/2012 | 03/30/2012 | 03/28/2012 |
| | | | SDG | 12C273 | 12C273 | 12C305 | 12C261 | 12C321 | 12C285 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 6 UY | 5.8 UY | 5.2 UY | 5.6 UY | 5.2 UY | 5.6 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 3 UY | 2.8 UY | 2.6 UY | 2.8 UY | 2.6 UY | 2.8 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 22 UY | 22 UY | 19.4 UY | 20 UY | 19.8 UY | 20 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 4.2 UY | 4 UY | 3.6 UY | 4 UY | 3.8 UY | 3.8 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 620 UY | 600 UY | 540 UY | 580 UY | 540 UY | 580 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 1.2 | 0.4 UY | 0.36 UY | 0.4 UY | 0.38 UY | 0.38 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.42 UY | 0.4 UY | 0.36 UY | 0.4 UY | 0.38 UY | 0.38 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 620 UY | 600 UY | 540 UY | 580 UY | 540 UY | 580 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 9 UY | 8.6 UY | 7.8 UY | 8.4 UY | 7.8 UY | 8.2 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 4.2 UY | 4 UY | 3.6 UY | 4 UY | 3.8 UY | 3.8 UY |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-136-NBZ-SS-0.0-0.5 | SL-138-NBZ-SS-0.0-0.5 | SL-139-NBZ-SS-0.0-0.5 | SL-140-NBZ-SS-0.0-0.5 | SL-141-NBZ-SS-0.0-0.5 | SL-143-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/28/2012 | 04/02/2012 | 03/28/2012 | 04/03/2012 | 03/28/2012 | 03/28/2012 |
| | | | SDG | 12C285 | 12D004 | 12C285 | 12D018 | 12C285 | 12C285 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.4 UY | 5.4 UY | 5.8 UY | 5.6 UY | 5.4 UY | 5.2 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.6 UY | 2.8 UY | 2.8 UY | 2.8 UY | 2.6 UY | 2.6 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 20 UY | 20 UY | 22 UY | 20 UY | 20 UY | 19.6 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.8 UY | 3.8 UY | 4 UY | 4 UY | 3.8 UY | 3.6 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 560 UY | 560 UY | 600 UY | 580 UY | 560 UY | 540 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.38 UY | 0.38 UY | 0.4 UY | 0.4 UY | 0.38 UY | 0.36 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.38 UY | 0.38 UY | 0.4 UY | 0.4 UY | 0.38 UY | 0.36 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 560 UY | 560 UY | 600 UY | 580 UY | 560 UY | 540 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8 UY | 8.2 UY | 8.6 UY | 8.4 UY | 8 UY | 7.8 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.8 UY | 3.8 UY | 4 UY | 4 UY | 3.8 UY | 3.6 UY |

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

Appendix A10
Herbicides-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-144-NBZ-SS-0.0-0.5 | SL-145-NBZ-SS-0.0-0.5 | SL-146-NBZ-SS-0.0-0.5 | SL-147-NBZ-SS-0.0-0.5 | SL-148-NBZ-SS-0.0-0.5 | SL-149-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/12/2012 | 04/11/2012 | 04/18/2012 | 04/17/2012 | 04/11/2012 | 04/05/2012 |
| | | | SDG | 12D122 | 12D106 | 12D166 | 12D154 | 12D106 | 12D048 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.6 UY | 6 UY | 5.6 UY | 5.6 UY | 5.8 UY | 5.2 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.8 UY | 3 UY | 2.8 UY | 2.8 UY | 3 UY | 2.6 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 20 UY | 22 UY | 20 UY | 20 UY | 22 UY | 19.8 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 4 UY | 4.4 UY | 4 UY | 4 UY | 4.2 UY | 3.8 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 580 UY | 640 UY | 580 UY | 580 UY | 620 UY | 540 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.4 UY | 0.44 UY | 0.4 UY | 0.4 UY | 0.42 UY | 0.38 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.4 UY | 0.44 UY | 0.4 UY | 0.4 UY | 0.42 UY | 0.38 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 580 UY | 640 UY | 580 UY | 580 UY | 620 UY | 540 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8.2 UY | 9.2 UY | 8.2 UY | 8.4 UY | 8.8 UY | 7.8 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 4 UY | 4.4 UY | 4 UY | 4 UY | 4.2 UY | 3.8 UY |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-150-NBZ-SS-0.0-0.5 | SL-151-NBZ-SS-0.0-0.5 | SL-152-NBZ-SS-0.0-0.5 | SL-154-NBZ-SS-0.0-0.5 | SL-155-NBZ-SS-0.0-0.5 | SL-156-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/19/2012 | 04/09/2012 | 04/12/2012 | 04/11/2012 | 04/04/2012 | 04/17/2012 |
| | | | SDG | 12D176 | 12D084 | 12D122 | 12D106 | 12D031 | 12D154 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.4 UY | 5.4 UY | 5.8 UY | 6.4 UY | 5.2 UY | 5.8 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.8 UY | 2.6 UY | 2.8 UY | 3.2 UY | 2.6 UY | 2.8 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 20 UY | 19.8 UY | 22 UY | 24 UY | 19.6 UY | 22 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.8 UY | 3.8 UY | 4 UY | 4.6 UY | 3.6 UJY C | 4.2 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 560 UY | 560 UY | 600 UY | 660 UY | 540 UY | 600 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.38 UY | 0.38 UY | 0.4 UY | 0.46 UY | 0.36 UY | 0.42 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.38 UY | 0.38 UY | 0.4 UY | 0.46 UY | 0.36 UJY C | 0.42 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 560 UY | 560 UY | 600 UY | 660 UY | 540 UY | 600 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8.2 UY | 8 UY | 8.6 UY | 9.6 UY | 7.8 UY | 8.6 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.8 UY | 3.8 UY | 4 UY | 4.6 UY | 3.6 UY | 4.2 UY |

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

Appendix A10
Herbicides-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-157-NBZ-SS-0.0-0.5 | SL-158-NBZ-SS-0.0-0.5 | SL-159-NBZ-SS-0.0-0.5 | DUP-10-NBZ-QC-041612 | SL-160-NBZ-SS-0.0-0.5 | SL-161-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | FD | N | N |
| | | | Sample Date | 04/09/2012 | 04/12/2012 | 04/16/2012 | 04/16/2012 | 04/16/2012 | 04/17/2012 |
| | | | SDG | 12D084 | 12D122 | 12D146 | 12D166 | 12D146 | 12D154 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.2 UY | 5.6 UY | 5.4 UY | 5.4 UY | 5.4 UY | 5.4 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.6 UY | 2.8 UY | 2.8 UY | 2.6 UY | 2.6 UY | 2.6 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 19.8 UY | 20 UY | 20 UY | 20 UY | 20 UY | 20 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.8 UY | 4 UY | 3.8 UY | 3.8 UY | 3.8 UY | 3.8 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 560 UY | 580 UY | 580 UY | 560 UY | 560 UY | 560 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.38 UY | 0.4 UY | 0.38 UY | 0.38 UY | 0.38 UY | 0.38 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.38 UY | 0.4 UY | 0.38 UY | 0.38 UY | 0.38 UY | 0.38 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 560 UY | 580 UY | 580 UY | 560 UY | 560 UY | 560 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8 UY | 8.2 UY | 8.2 UY | 8 UY | 8 UY | 8 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.8 UY | 4 UY | 3.8 UY | 3.8 UY | 3.8 UY | 3.8 UY |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-162-NBZ-SS-0.0-0.5 | SL-163-NBZ-SS-0.0-0.5 | SL-164-NBZ-SS-0.0-0.5 | SL-165-NBZ-SS-0.0-0.5 | SL-166-NBZ-SS-0.0-0.5 | SL-167-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/17/2012 | 04/11/2012 | 04/16/2012 | 04/05/2012 | 04/17/2012 | 04/09/2012 |
| | | | SDG | 12D154 | 12D106 | 12D146 | 12D048 | 12D154 | 12D084 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.2 UY | 5.6 UY | 5.8 UY | 5.4 UY | 5.6 UY | 5.2 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.6 UY | 2.8 UY | 2.8 UY | 2.6 UY | 2.8 UY | 2.6 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 19.8 UY | 22 UY | 22 UY | 20 UY | 20 UY | 19.2 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.8 UY | 4 UY | 4 UY | 3.8 UY | 4 UY | 3.6 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 540 UY | 600 UY | 600 UY | 560 UY | 580 UY | 540 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.38 UY | 0.4 UY | 0.4 UY | 0.38 UY | 0.4 UY | 0.36 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.38 UY | 0.4 UY | 0.4 UY | 0.38 UY | 0.4 UY | 0.36 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 540 UY | 600 UY | 600 UY | 560 UY | 580 UY | 540 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8 UY | 8.6 UY | 8.6 UY | 8 UY | 8.4 UY | 7.6 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.8 UY | 4 UY | 4 UY | 3.8 UY | 4 UY | 3.6 UY |

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

Appendix A10
Herbicides-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-168-NBZ-SS-0.0-0.5 | SL-169-NBZ-SS-0.0-0.5 | SL-170-NBZ-SS-0.0-0.5 | SL-171-NBZ-SS-0.0-0.5 | SL-172-NBZ-SS-0.0-0.5 | DUP-08-NBZ-QC-041612 |
| | | | Sample Type | N | N | N | N | N | FD |
| | | | Sample Date | 04/11/2012 | 04/03/2012 | 04/20/2012 | 04/20/2012 | 04/12/2012 | 04/16/2012 |
| | | | SDG | 12D106 | 12D018 | 12D192 | 12D192 | 12D122 | 12D146 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.4 UY | 5.4 UY | 5.2 UY | 5.2 UY | 5.4 UY | 5.8 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.6 UY | 2.6 UY | 2.6 UY | 2.6 UY | 2.6 UY | 2.8 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 20 UY | 20 UY | 19.8 UY | 19.6 UY | 20 UY | 22 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.8 UY | 3.8 UY | 3.8 UY | 3.8 UY | 3.8 UY | 4 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 560 UY | 560 UY | 540 UY | 540 UY | 560 UY | 600 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.38 UY | 0.38 UY | 0.38 UY | 0.38 UY | 0.38 UY | 0.4 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.38 UY | 0.38 UY | 0.38 UY | 0.38 UY | 0.38 UY | 0.4 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 560 UY | 560 UY | 540 UY | 540 UY | 560 UY | 600 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8 UY | 8 UY | 7.8 UY | 7.8 UY | 8 UY | 8.6 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.8 UY | 3.8 UY | 3.8 UY | 3.8 UY | 3.8 UY | 4 UY |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-173-NBZ-SS-0.0-0.5 | SL-174-NBZ-SS-0.0-0.5 | SL-175-NBZ-SS-0.0-0.5 | SL-176-NBZ-SS-0.0-0.5 | SL-177-NBZ-SS-0.0-0.5 | SL-178-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/16/2012 | 04/09/2012 | 04/05/2012 | 04/11/2012 | 04/10/2012 | 04/19/2012 |
| | | | SDG | 12D146 | 12D084 | 12D048 | 12D106 | 12D092 | 12D176 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.8 UY | 5.2 UY | 5.6 UY | 5.6 UY | 5 UY | 5.4 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 3 UY | 2.6 UY | 2.8 UY | 2.8 UY | 2.6 UY | 2.6 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 22 UY | 19.6 UY | 22 UY | 22 UY | 19 UY | 20 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 4.2 UY | 3.8 UY | 4 UY | 4 UY | 3.6 UY | 3.8 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 600 UY | 540 UY | 580 UY | 580 UY | 520 UY | 560 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.42 UY | 0.38 UY | 0.4 UY | 0.4 UY | 0.36 UY | 0.38 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.42 UY | 0.38 UY | 0.4 UY | 0.4 UY | 0.36 UY | 0.38 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 600 UY | 540 UY | 580 UY | 580 UY | 520 UY | 560 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8.8 UY | 7.8 UY | 8.4 UY | 8.4 UY | 7.6 UY | 8 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 4.2 UY | 3.8 UY | 4 UY | 4 UY | 3.6 UY | 3.8 UY |

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

Appendix A10
Herbicides-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-179-NBZ-SS-0.0-0.5 | SL-180-NBZ-SS-0.0-0.5 | SL-181-NBZ-SS-0.0-0.5 | SL-182-NBZ-SS-0.0-0.5 | SL-183-NBZ-SS-0.0-0.5 | SL-184-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/19/2012 | 04/13/2012 | 04/04/2012 | 04/11/2012 | 04/13/2012 | 04/19/2012 |
| | | | SDG | 12D176 | 12D135 | 12D031 | 12D106 | 12D135 | 12D176 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.4 UY | 6 UY | 5.2 UY | 5.6 UY | 5.8 UY | 5.4 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.6 UY | 3 UY | 2.6 UY | 2.8 UY | 2.8 UY | 2.8 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 20 UY | 22 UY | 19.8 UY | 22 UY | 22 UY | 20 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.8 UY | 4.2 UY | 3.8 UJY C | 4 UY | 4 UY | 3.8 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 560 UY | 620 UY | 540 UY | 580 UY | 600 UY | 560 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.38 UY | 0.42 UY | 0.38 UY | 0.4 UY | 0.4 UY | 0.38 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.38 UY | 0.42 UY | 0.38 UJY C | 0.4 UY | 0.4 UY | 0.38 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 560 UY | 620 UY | 540 UY | 580 UY | 600 UY | 560 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8 UY | 9 UY | 7.8 UY | 8.4 UY | 8.6 UY | 8.2 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.8 UY | 4.2 UY | 3.8 UY | 4 UY | 4 UY | 3.8 UY |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-185-NBZ-SS-0.0-0.5 | SL-186-NBZ-SS-0.0-0.5 | SL-187-NBZ-SS-0.0-0.5 | SL-188-NBZ-SS-0.0-0.5 | SL-189-NBZ-SS-0.0-0.5 | SL-190-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/09/2012 | 04/10/2012 | 04/04/2012 | 04/10/2012 | 04/18/2012 | 04/05/2012 |
| | | | SDG | 12D084 | 12D092 | 12D031 | 12D092 | 12D166 | 12D048 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.4 UY | 5.2 UY | 5.2 UY | 5.2 UY | 5.4 UY | 5 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.6 UY | 2.6 UY | 2.6 UY | 2.6 UY | 2.8 UY | 2.6 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 20 UY | 19.4 UY | 19.6 UY | 19.4 UY | 20 UY | 19 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.8 UY | 3.6 UY | 3.8 UJY C | 3.6 UY | 3.8 UY | 3.6 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 560 UY | 540 UY | 540 UY | 540 UY | 580 UY | 520 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.38 UY | 0.36 UY | 0.38 UY | 0.36 UY | 0.38 UY | 0.36 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.38 UY | 0.36 UY | 0.38 UJY C | 0.36 UY | 0.38 UY | 0.36 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 560 UY | 540 UY | 540 UY | 540 UY | 580 UY | 520 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8 UY | 7.8 UY | 7.8 UY | 7.8 UY | 8.2 UY | 7.6 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.8 UY | 3.6 UY | 3.8 UY | 3.6 UY | 3.8 UY | 3.6 UY |

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

Appendix A10
Herbicides-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | DUP-06-NBZ-QC-040912 | SL-191-NBZ-SS-0.0-0.5 | DUP-09-NBZ-QC-041912 | SL-193-NBZ-SS-0.0-0.5 | SL-194-NBZ-SS-0.0-0.5 | SL-195-NBZ-SS-0.0-0.5 |
| | | | Sample Type | FD | N | FD | N | N | N |
| | | | Sample Date | 04/09/2012 | 04/09/2012 | 04/19/2012 | 04/19/2012 | 04/02/2012 | 03/26/2012 |
| | | | SDG | 12D084 | 12D084 | 12D176 | 12D176 | 12D004 | 12C261 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.2 UY | 5.2 UY | 5.4 UY | 5.4 UY | 5.4 UY | 5.4 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.6 UY | 2.6 UY | 2.6 UY | 2.6 UY | 2.6 UJY Q | 2.8 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 19.4 UY | 19.6 UY | 20 UY | 20 UY | 20 UY | 20 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.6 UY | 3.8 UY | 3.8 UY | 3.8 UY | 3.8 UY | 3.8 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 540 UY | 540 UY | 560 UY | 560 UY | 560 UY | 560 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.36 UY | 0.38 UY | 0.38 UY | 0.38 UY | 0.38 UY | 0.38 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.36 UY | 0.38 UY | 0.38 UY | 0.38 UY | 0.38 UY | 0.38 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 540 UY | 540 UY | 560 UY | 560 UY | 560 UY | 560 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 7.8 UY | 7.8 UY | 8 UY | 8 UY | 8 UY | 8.2 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.6 UY | 3.8 UY | 3.8 UY | 3.8 UY | 3.8 UY | 3.8 UY |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-196-NBZ-SS-0.0-0.5 | SL-197-NBZ-SS-0.0-0.5 | SL-198-NBZ-SS-0.0-0.5 | SL-199-NBZ-SS-0.0-0.5 | SL-200-NBZ-SS-0.0-0.5 | SL-201-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/29/2012 | 04/03/2012 | 04/23/2012 | 04/23/2012 | 04/23/2012 |
| | | | SDG | 12C261 | 12C305 | 12D018 | 12D197 | 12D197 | 12D197 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.8 UY | 5.6 UY | 5.2 UY | 5.2 UY | 5.2 UY | 5.6 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 3 UY | 2.8 UY | 2.6 UY | 2.6 UY | 2.6 UY | 2.8 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 22 UY | 20 UY | 19.4 UY | 19.6 UY | 19.8 UY | 22 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 4.2 UY | 4 UY | 3.6 UY | 3.6 UY | 3.8 UY | 4 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 600 UY | 580 UY | 540 UY | 540 UY | 540 UY | 580 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.42 UY | 0.4 UY | 0.36 UY | 0.36 UY | 0.38 UY | 0.4 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.42 UY | 0.4 UY | 0.36 UY | 0.36 UY | 0.38 UY | 0.4 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 600 UY | 580 UY | 540 UY | 540 UY | 540 UY | 580 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 8.8 UY | 8.4 UY | 7.8 UY | 7.8 UY | 7.8 UY | 8.4 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 4.2 UY | 4 UY | 3.6 UY | 3.6 UY | 3.8 UY | 4 UY |

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

Appendix A10
Herbicides-Validated Data
NBZ - Phases 1 and 2

| | | | | |
|---|---|---|---|---|
| | | | Sample Name | SL-202-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N |
| | | | Sample Date | 04/20/2012 |
| | | | SDG | 12D192 |
| | | | Start Depth | 0 |
| | | | End Depth | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | |
| 8151A | 120-36-5 | Dichlorprop | µg/kg | 5.2 UY |
| 8151A | 1918-00-9 | Dicamba | µg/kg | 2.6 UY |
| 8151A | 75-99-0 | 2,2-Dichlor-Propionic Acid | µg/kg | 19.4 UY |
| 8151A | 88-85-7 | Dinitrobutyl Phenol | µg/kg | 3.6 UY |
| 8151A | 93-65-2 | MCPP | µg/kg | 540 UY |
| 8151A | 93-72-1 | Silvex (2,4,5-TP) | µg/kg | 0.36 UY |
| 8151A | 93-76-5 | 2,4,5-T | µg/kg | 0.36 UY |
| 8151A | 94-74-6 | MCPA | µg/kg | 540 UY |
| 8151A | 94-75-7 | 2,4-D | µg/kg | 7.8 UY |
| 8151A | 94-82-6 | 2,4-DB | µg/kg | 3.6 UY |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-001-NBZ-SS-0.0-0.5 | SL-002-NBZ-SS-0.0-0.5 | SL-002-NBZ-SB-4.0-5.0 | SL-002-NBZ-SB-7.5-8.5 | SL-003-NBZ-SS-0.0-0.5 | SL-003-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/09/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 |
| | | | SDG | 12D084 | 12C096 | 12C096 | 12C096 | 12C096 | 12C096 |
| | | | Start Depth | 0 | 0 | 4 | 7.5 | 0 | 4 |
| | | | End Depth | 0.5 | 0.5 | 5 | 8.5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.13 U | 1.03 U | 1.08 U | 1.08 U | 1.04 U | 1.06 U |

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

Appendix A11
Hexavalent Chromium-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-004-NBZ-SS-0.0-0.5 | SL-005-NBZ-SB-4.0-5.0 | SL-006-NBZ-SB-3.0-4.0 | SL-007-NBZ-SB-4.0-5.0 | SL-007-NBZ-SB-9.0-10.0 | SL-008-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/11/2012 | 03/13/2012 | 03/13/2012 | 03/12/2012 | 03/12/2012 | 04/18/2012 |
| | | | SDG | 12D106 | 12C106 | 12C106 | 12C096 | 12C096 | 12D166 |
| | | | Start Depth | 0 | 4 | 3 | 4 | 9 | 4 |
| | | | End Depth | 0.5 | 5 | 4 | 5 | 10 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.23 U | 1.11 U | 1.06 U | 1.09 U | 1.09 U | 1.06 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | DUP-07-NBZ-QC-041012 | SL-009-NBZ-SS-0.0-0.5 | SL-010-NBZ-SB-4.0-5.0 | SL-011-NBZ-SS-0.0-0.5 | SL-012-NBZ-SS-0.0-0.5 | SL-012-NBZ-SB-0.5-1.5 |
| | | | Sample Type | FD | N | N | N | N | N |
| | | | Sample Date | 04/10/2012 | 04/10/2012 | 03/12/2012 | 04/12/2012 | 04/19/2012 | 04/19/2012 |
| | | | SDG | 12D092 | 12D092 | 12C096 | 12D122 | 12D176 | 12D176 |
| | | | Start Depth | 0 | 0 | 4 | 0 | 0 | 0.5 |
| | | | End Depth | 0.5 | 0.5 | 5 | 0.5 | 0.5 | 1.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.15 U | 1.16 U | 1.08 U | 1.14 U | 1.17 U | 1.20 U |

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

Appendix A11
Hexavalent Chromium-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-013-NBZ-SS-0.0-0.5 | SL-014-NBZ-SS-0.0-0.5 | SL-015-NBZ-SS-0.0-0.5 | SL-016-NBZ-SS-0.0-0.5 | SL-017-NBZ-SS-0.0-0.5 | SL-018-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/16/2012 | 04/17/2012 | 03/13/2012 | 04/20/2012 | 04/19/2012 | 04/20/2012 |
| | | | SDG | 12D146 | 12D154 | 12C106 | 12D192 | 12D176 | 12D192 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.48 U | 1.25 U | 1.02 U | 1.26 U | 1.42 U | 1.21 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-019-NBZ-SS-0.0-0.5 | SL-019-NBZ-SB-3.0-4.0 | SL-020-NBZ-SS-0.0-0.5 | SL-020-NBZ-SB-2.5-3.5 | SL-021-NBZ-SS-0.0-0.5 | SL-021-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/13/2012 | 03/13/2012 | 04/04/2012 | 04/04/2012 | 03/13/2012 | 03/13/2012 |
| | | | SDG | 12C106 | 12C106 | 12D031 | 12D031 | 12C106 | 12C106 |
| | | | Start Depth | 0 | 3 | 0 | 2.5 | 0 | 4 |
| | | | End Depth | 0.5 | 4 | 0.5 | 3.5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.03 U | 1.06 U | 1.11 U | 1.13 U | 1.03 U | 1.04 U |

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

Appendix A11
Hexavalent Chromium-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-022-NBZ-SS-0.0-0.5 | SL-022-NBZ-SB-4.0-5.0 | SL-022-NBZ-SB-9.0-10.0 | SL-023-NBZ-SS-0.0-0.5 | SL-023-NBZ-SB-4.0-5.0 | SL-023-NBZ-SB-8.5-9.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 |
| | | | SDG | 12C121 | 12C121 | 12C121 | 12C121 | 12C121 | 12C121 |
| | | | Start Depth | 0 | 4 | 9 | 0 | 4 | 8.5 |
| | | | End Depth | 0.5 | 5 | 10 | 0.5 | 5 | 9.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.05 U | 1.04 U | 1.05 U | 1.03 U | 1.03 U | 1.05 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-024-NBZ-SS-0.0-0.5 | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 | SL-028-NBZ-SS-0.0-0.5 | SL-029-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 03/15/2012 |
| | | | SDG | 12C121 | 12D004 | 12D004 | 12D004 | 12D004 | 12C135 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.03 U | 1.09 U | 1.08 U | 1.16 U | 1.10 U | 1.03 U |

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

Appendix A11
Hexavalent Chromium-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 | SL-034-NBZ-SS-0.0-0.5 | SL-035-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 |
| | | | SDG | 12C121 | 12D018 | 12D018 | 12D018 | 12D018 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.02 U | 1.08 U | 1.14 U | 1.10 U | 1.20 U | 1.14 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-035-NBZ-SB-2.0-3.0 | SL-036-NBZ-SB-4.0-5.0 | SL-036-NBZ-SB-7.5-8.5 | SL-037-NBZ-SB-3.0-4.0 | SL-038-NBZ-SS-0.0-0.5 | SL-039-NBZ-SB-2.0-3.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 |
| | | | SDG | 12D018 | 12C285 | 12C285 | 12C285 | 12C273 | 12C273 |
| | | | Start Depth | 2 | 4 | 7.5 | 3 | 0 | 2 |
| | | | End Depth | 3 | 5 | 8.5 | 4 | 0.5 | 3 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.05 U | 1.13 U | 1.31 U | 1.11 U | 1.21 U | 1.14 U |

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

Appendix A11
Hexavalent Chromium-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-040-NBZ-SS-0.0-0.5 | DUP-03-NBZ-QC-032812 | SL-040-NBZ-SB-2.5-3.5 | SL-042-NBZ-SS-0.0-0.5 | SL-043-NBZ-SS-0.0-0.5 | SL-044-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | FD | N | N | N | N |
| | | | Sample Date | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 |
| | | | SDG | 12C285 | 12C285 | 12C285 | 12C261 | 12C261 | 12C305 |
| | | | Start Depth | 0 | 2.5 | 2.5 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 3.5 | 3.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.12 U | 1.06 U | 1.05 U | 1.16 U | 1.11 U | 1.04 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-045-NBZ-SS-0.0-0.5 | SL-045-NBZ-SB-4.0-5.0 | SL-046-NBZ-SS-0.0-0.5 | SL-046-NBZ-SB-4.0-5.0 | SL-047-NBZ-SB-4.0-5.0 | SL-048-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 | 03/23/2012 | 03/23/2012 |
| | | | SDG | 12C261 | 12C261 | 12C261 | 12C261 | 12C254 | 12C254 |
| | | | Start Depth | 0 | 4 | 0 | 4 | 4 | 0 |
| | | | End Depth | 0.5 | 5 | 0.5 | 5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.08 U | 1.05 U | 1.18 U | 1.06 U | 1.05 U | 1.13 U |

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

Appendix A11
Hexavalent Chromium-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-048-NBZ-SB-4.0-5.0 | SL-049-NBZ-SB-2.0-3.0 | SL-050-NBZ-SS-0.0-0.5 | SL-051-NBZ-SB-1.5-2.5 | SL-052-NBZ-SS-0.0-0.5 | SL-053-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/23/2012 | 03/23/2012 | 03/26/2012 | 03/23/2012 | 03/15/2012 | 03/15/2012 |
| | | | SDG | 12C254 | 12C254 | 12C261 | 12C254 | 12C135 | 12C135 |
| | | | Start Depth | 4 | 2 | 0 | 1.5 | 0 | 0 |
| | | | End Depth | 5 | 3 | 0.5 | 2.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.05 U | 1.04 U | 1.09 U | 1.04 U | 1.02 U | 1.02 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-053-NBZ-SB-3.5-4.5 | SL-054-NBZ-SS-0.0-0.5 | SL-055-NBZ-SS-0.0-0.5 | SL-056-NBZ-SS-0.0-0.5 | SL-056-NBZ-SB-3.0-4.0 | DUP-02-NBZ-QC-032312 |
| | | | Sample Type | N | N | N | N | N | FD |
| | | | Sample Date | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/15/2012 | 03/15/2012 | 03/23/2012 |
| | | | SDG | 12C135 | 12C229 | 12C229 | 12C135 | 12C135 | 12C254 |
| | | | Start Depth | 3.5 | 0 | 0 | 0 | 3 | 0 |
| | | | End Depth | 4.5 | 0.5 | 0.5 | 0.5 | 4 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.04 U | 1.09 U | 1.11 U | 1.03 U | 1.04 U | 1.07 U |

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

Appendix A11
Hexavalent Chromium-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-057-NBZ-SS-0.0-0.5 | SL-058-NBZ-SB-4.0-5.0 | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 | SL-061-NBZ-SB-1.0-2.0 | SL-062-NBZ-SB-2.5-3.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/23/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/22/2012 | 03/21/2012 |
| | | | SDG | 12C254 | 12C135 | 12C229 | 12C229 | 12C229 | 12C209 |
| | | | Start Depth | 0 | 5 | 0 | 0 | 1 | 2.5 |
| | | | End Depth | 0.5 | 5 | 0.5 | 0.5 | 2 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.08 U | 1.05 U | 1.09 U | 1.06 U | 1.05 U | 1.04 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-063-NBZ-SB-0.5-1.5 | SL-064-NBZ-SB-0.5-1.5 | SL-065-NBZ-SB-1.0-2.0 | SL-066-NBZ-SB-2.0-3.0 | SL-067-NBZ-SB-1.5-2.5 | DUP-01-NBZ-QC-031612 |
| | | | Sample Type | N | N | N | N | N | FD |
| | | | Sample Date | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/16/2012 | 03/16/2012 |
| | | | SDG | 12C209 | 12C209 | 12C209 | 12C209 | 12C156 | 12C156 |
| | | | Start Depth | 0.5 | 0.5 | 1 | 2 | 1.5 | 2.5 |
| | | | End Depth | 1.5 | 1.5 | 2 | 3 | 2.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.14 U | 1.05 U | 1.08 U | 1.03 U | 1.09 U | 1.10 U |

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

Appendix A11
Hexavalent Chromium-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-068-NBZ-SB-2.5-3.5 | SL-069-NBZ-SB-3.0-4.0 | SL-070-NBZ-SS-0.0-0.5 | SL-071-NBZ-SB-4.0-5.0 | SL-072-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/16/2012 | 03/20/2012 | 03/20/2012 | 03/19/2012 | 03/16/2012 | 03/19/2012 |
| | | | SDG | 12C156 | 12C182 | 12C182 | 12C164 | 12C156 | 12C164 |
| | | | Start Depth | 2.5 | 3 | 0 | 4 | 4 | 4 |
| | | | End Depth | 3.5 | 4 | 0.5 | 5 | 5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.10 U | 1.05 U | 1.14 U | 1.05 U | 1.12 U | 1.08 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-073-NBZ-SB-9.0-10.0 | SL-074-NBZ-SB-0.5-1.5 | SL-075-NBZ-SS-0.0-0.5 | SL-076-NBZ-SS-0.0-0.5 | SL-077-NBZ-SS-0.0-0.5 | SL-077-NBZ-SB-2.5-3.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/19/2012 | 03/19/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 |
| | | | SDG | 12C164 | 12C164 | 12C182 | 12C182 | 12C182 | 12C182 |
| | | | Start Depth | 9 | 0.5 | 0 | 0 | 0 | 2.5 |
| | | | End Depth | 10 | 1.5 | 0.5 | 0.5 | 0.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.10 U | 1.04 U | 1.10 U | 1.15 U | 1.16 U | 1.06 U |

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

Appendix A11
Hexavalent Chromium-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-078-NBZ-SS-0.0-0.5 | SL-079-NBZ-SS-0.0-0.5 | SL-080-NBZ-SS-0.0-0.5 | SL-081-NBZ-SS-0.0-0.5 | SL-082-NBZ-SS-0.0-0.5 | SL-082-NBZ-SB-2.5-3.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/27/2012 | 03/30/2012 | 04/20/2012 | 04/18/2012 | 04/18/2012 | 04/18/2012 |
| | | | SDG | 12C273 | 12C321 | 12D192 | 12D166 | 12D166 | 12D166 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 2.5 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.13 U | 1.16 U | 1.16 U | 1.19 U | 1.15 U | 1.14 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-083-NBZ-SS-0.0-0.5 | SL-084-NBZ-SS-0.0-0.5 | SL-085-NBZ-SS-0.0-0.5 | SL-086-NBZ-SS-0.0-0.5 | SL-087-NBZ-SS-0.0-0.5 | SL-088-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/18/2012 | 04/10/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 | 04/17/2012 |
| | | | SDG | 12D166 | 12D092 | 12D092 | 12D176 | 12D176 | 12D154 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.14 U | 1.17 U | 1.18 U | 1.29 U | 1.26 U | 1.31 U |

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

Appendix A11
Hexavalent Chromium-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-089-NBZ-SS-0.0-0.5 | SL-090-NBZ-SS-0.0-0.5 | SL-091-NBZ-SS-0.0-0.5 | SL-091-NBZ-SB-4.0-5.0 | DUP-05-NBZ-QC-032912 | SL-092-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | FD | N |
| | | | Sample Date | 04/20/2012 | 04/17/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 |
| | | | SDG | 12D192 | 12D154 | 12C305 | 12C305 | 12C305 | 12C305 |
| | | | Start Depth | 0 | 0 | 0 | 4 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.13 U | 1.16 U | 1.22 U | 1.23 U | 1.19 U | 1.17 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-094-NBZ-SS-0.0-0.5 | SL-095-NBZ-SS-0.0-0.5 | SL-096-NBZ-SS-0.0-0.5 | SL-097-NBZ-SS-0.0-0.5 | SL-099-NBZ-SS-0.0-0.5 | SL-100-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/28/2012 | 03/27/2012 | 03/28/2012 | 04/04/2012 | 04/04/2012 | 04/04/2012 |
| | | | SDG | 12C285 | 12C273 | 12C285 | 12D031 | 12D031 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.15 U | 1.14 U | 1.16 U | 1.07 U | 1.09 U | 1.08 U |

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

Appendix A11
Hexavalent Chromium-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-101-NBZ-SS-0.0-0.5 | SL-102-NBZ-SS-0.0-0.5 | SL-103-NBZ-SS-0.0-0.5 | SL-104-NBZ-SS-0.0-0.5 | SL-105-NBZ-SS-0.0-0.5 | SL-107-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/29/2012 | 03/27/2012 | 03/29/2012 | 04/04/2012 | 03/21/2012 | 04/02/2012 |
| | | | SDG | 12C305 | 12C273 | 12C305 | 12D031 | 12C209 | 12D004 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.14 U | 1.16 U | 1.15 U | 1.08 U | 1.11 U | 1.14 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-108-NBZ-SS-0.0-0.5 | SL-109-NBZ-SS-0.0-0.5 | SL-110-NBZ-SS-0.0-0.5 | SL-111-NBZ-SS-0.0-0.5 | SL-112-NBZ-SS-0.0-0.5 | SL-113-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 03/27/2012 | 04/04/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 |
| | | | SDG | 12D018 | 12C273 | 12D031 | 12D004 | 12D004 | 12D004 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.06 U | 1.15 U | 1.08 U | 1.26 U | 1.10 U | 1.09 U |

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

Appendix A11
Hexavalent Chromium-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-114-NBZ-SS-0.0-0.5 | SL-115-NBZ-SS-0.0-0.5 | SL-116-NBZ-SS-0.0-0.5 | DUP-04-NBZ-QC-032912 | SL-118-NBZ-SS-0.0-0.5 | SL-119-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | FD | N | N |
| | | | Sample Date | 04/04/2012 | 04/03/2012 | 03/22/2012 | 03/29/2012 | 03/29/2012 | 03/27/2012 |
| | | | SDG | 12D031 | 12D018 | 12C229 | 12C305 | 12C305 | 12C273 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.09 U | 1.14 U | 1.12 U | 1.10 U | 1.10 U | 1.12 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-120-NBZ-SS-0.0-0.5 | SL-121-NBZ-SS-0.0-0.5 | SL-122-NBZ-SS-0.0-0.5 | SL-123-NBZ-SS-0.0-0.5 | SL-124-NBZ-SS-0.0-0.5 | SL-126-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/04/2012 | 03/30/2012 | 04/03/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 |
| | | | SDG | 12D031 | 12C321 | 12D018 | 12C261 | 12C261 | 12C261 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.08 U | 1.08 U | 1.14 U | 1.18 U | 1.34 U | 1.20 U |

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

Appendix A11
Hexavalent Chromium-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-127-NBZ-SS-0.0-0.5 | SL-129-NBZ-SS-0.0-0.5 | SL-130-NBZ-SS-0.0-0.5 | SL-131-NBZ-SS-0.0-0.5 | SL-133-NBZ-SS-0.0-0.5 | SL-134-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 03/27/2012 | 03/27/2012 | 03/29/2012 | 03/26/2012 | 03/30/2012 |
| | | | SDG | 12D018 | 12C273 | 12C273 | 12C305 | 12C261 | 12C321 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.06 U | 1.25 U | 1.19 U | 1.08 U | 1.16 U | 1.10 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-135-NBZ-SS-0.0-0.5 | SL-136-NBZ-SS-0.0-0.5 | SL-138-NBZ-SS-0.0-0.5 | SL-139-NBZ-SS-0.0-0.5 | SL-140-NBZ-SS-0.0-0.5 | SL-141-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/28/2012 | 03/28/2012 | 04/02/2012 | 03/28/2012 | 04/03/2012 | 03/28/2012 |
| | | | SDG | 12C285 | 12C285 | 12D004 | 12C285 | 12D018 | 12C285 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.15 U | 1.11 U | 1.13 U | 1.19 U | 1.16 U | 1.12 U |

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

Appendix A11
Hexavalent Chromium-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-143-NBZ-SS-0.0-0.5 | SL-144-NBZ-SS-0.0-0.5 | SL-145-NBZ-SS-0.0-0.5 | SL-146-NBZ-SS-0.0-0.5 | SL-147-NBZ-SS-0.0-0.5 | SL-148-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/28/2012 | 04/12/2012 | 04/11/2012 | 04/18/2012 | 04/17/2012 | 04/11/2012 |
| | | | SDG | 12C285 | 12D122 | 12D106 | 12D166 | 12D154 | 12D106 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.08 U | 1.15 U | 1.27 U | 1.15 U | 1.15 U | 1.22 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-149-NBZ-SS-0.0-0.5 | SL-150-NBZ-SS-0.0-0.5 | SL-151-NBZ-SS-0.0-0.5 | SL-152-NBZ-SS-0.0-0.5 | SL-154-NBZ-SS-0.0-0.5 | SL-155-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/05/2012 | 04/19/2012 | 04/09/2012 | 04/12/2012 | 04/11/2012 | 04/04/2012 |
| | | | SDG | 12D048 | 12D176 | 12D084 | 12D122 | 12D106 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.10 U | 1.13 U | 1.10 U | 1.19 U | 1.34 U | 1.09 U |

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

Appendix A11
Hexavalent Chromium-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-156-NBZ-SS-0.0-0.5 | SL-157-NBZ-SS-0.0-0.5 | SL-158-NBZ-SS-0.0-0.5 | SL-159-NBZ-SS-0.0-0.5 | DUP-10-NBZ-QC-041612 | SL-160-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | FD | N |
| | | | Sample Date | 04/17/2012 | 04/09/2012 | 04/12/2012 | 04/16/2012 | 04/16/2012 | 04/16/2012 |
| | | | SDG | 12D154 | 12D084 | 12D122 | 12D146 | 12D166 | 12D146 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.21 U | 1.10 U | 1.15 U | 1.14 U | 1.12 U | 1.12 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-161-NBZ-SS-0.0-0.5 | SL-162-NBZ-SS-0.0-0.5 | SL-163-NBZ-SS-0.0-0.5 | SL-164-NBZ-SS-0.0-0.5 | SL-165-NBZ-SS-0.0-0.5 | SL-166-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/17/2012 | 04/17/2012 | 04/11/2012 | 04/16/2012 | 04/05/2012 | 04/17/2012 |
| | | | SDG | 12D154 | 12D154 | 12D106 | 12D146 | 12D048 | 12D154 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.12 U | 1.10 U | 1.18 U | 1.19 U | 1.11 U | 1.16 U |

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

Appendix A11
Hexavalent Chromium-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-167-NBZ-SS-0.0-0.5 | SL-168-NBZ-SS-0.0-0.5 | SL-169-NBZ-SS-0.0-0.5 | SL-170-NBZ-SS-0.0-0.5 | SL-171-NBZ-SS-0.0-0.5 | SL-172-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/09/2012 | 04/11/2012 | 04/03/2012 | 04/20/2012 | 04/20/2012 | 04/12/2012 |
| | | | SDG | 12D084 | 12D106 | 12D018 | 12D192 | 12D192 | 12D122 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.07 U | 1.12 U | 1.11 U | 1.10 U | 1.09 U | 1.12 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | DUP-08-NBZ-QC-041612 | SL-173-NBZ-SS-0.0-0.5 | SL-174-NBZ-SS-0.0-0.5 | SL-175-NBZ-SS-0.0-0.5 | SL-176-NBZ-SS-0.0-0.5 | SL-177-NBZ-SS-0.0-0.5 |
| | | | Sample Type | FD | N | N | N | N | N |
| | | | Sample Date | 04/16/2012 | 04/16/2012 | 04/09/2012 | 04/05/2012 | 04/11/2012 | 04/10/2012 |
| | | | SDG | 12D146 | 12D146 | 12D084 | 12D048 | 12D106 | 12D092 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.19 U | 1.21 U | 1.09 U | 1.17 U | 1.17 U | 1.06 U |

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

Appendix A11
Hexavalent Chromium-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-178-NBZ-SS-0.0-0.5 | SL-179-NBZ-SS-0.0-0.5 | SL-180-NBZ-SS-0.0-0.5 | SL-181-NBZ-SS-0.0-0.5 | SL-182-NBZ-SS-0.0-0.5 | SL-183-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/19/2012 | 04/19/2012 | 04/13/2012 | 04/04/2012 | 04/11/2012 | 04/13/2012 |
| | | | SDG | 12D176 | 12D176 | 12D135 | 12D031 | 12D106 | 12D135 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.12 U | 1.12 U | 1.25 U | 1.10 U | 1.17 U | 1.20 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-184-NBZ-SS-0.0-0.5 | SL-185-NBZ-SS-0.0-0.5 | SL-186-NBZ-SS-0.0-0.5 | SL-187-NBZ-SS-0.0-0.5 | SL-188-NBZ-SS-0.0-0.5 | SL-189-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/19/2012 | 04/09/2012 | 04/10/2012 | 04/04/2012 | 04/10/2012 | 04/18/2012 |
| | | | SDG | 12D176 | 12D084 | 12D092 | 12D031 | 12D092 | 12D166 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.14 U | 1.11 U | 1.08 U | 1.09 U | 1.08 U | 1.15 U |

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

Appendix A11
Hexavalent Chromium-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-190-NBZ-SS-0.0-0.5 | DUP-06-NBZ-QC-040912 | SL-191-NBZ-SS-0.0-0.5 | DUP-09-NBZ-QC-041912 | SL-193-NBZ-SS-0.0-0.5 | SL-194-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | FD | N | FD | N | N |
| | | | Sample Date | 04/05/2012 | 04/09/2012 | 04/09/2012 | 04/19/2012 | 04/19/2012 | 04/02/2012 |
| | | | SDG | 12D048 | 12D084 | 12D084 | 12D176 | 12D176 | 12D004 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.05 U | 1.08 U | 1.09 U | 1.12 U | 1.12 U | 1.12 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-195-NBZ-SS-0.0-0.5 | SL-196-NBZ-SS-0.0-0.5 | SL-197-NBZ-SS-0.0-0.5 | SL-198-NBZ-SS-0.0-0.5 | SL-199-NBZ-SS-0.0-0.5 | SL-200-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/26/2012 | 03/29/2012 | 04/03/2012 | 04/23/2012 | 04/23/2012 |
| | | | SDG | 12C261 | 12C261 | 12C305 | 12D018 | 12D197 | 12D197 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.13 U | 1.21 U | 1.16 U | 1.08 U | 1.08 U | 1.10 U |

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

Appendix A11
Hexavalent Chromium-Validated Data
NBZ - Phases 1 and 2

| | | | | | |
|---|---|---|---|---|---|
| | | | Sample Name | SL-201-NBZ-SS-0.0-0.5 | SL-202-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N |
| | | | Sample Date | 04/23/2012 | 04/20/2012 |
| | | | SDG | 12D197 | 12D192 |
| | | | Start Depth | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | |
| 7199 | 18540-29-9 | Chromium (Hexavalent Compounds) | mg/kg | 1.18 U | 1.08 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-001-NBZ-SS-0.0-0.5 | SL-002-NBZ-SS-0.0-0.5 | SL-002-NBZ-SB-4.0-5.0 | SL-002-NBZ-SB-7.5-8.5 | SL-003-NBZ-SS-0.0-0.5 | SL-003-NBZ-SB-4.0-5.0 | SL-004-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/09/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 04/11/2012 |
| | | | SDG | 12D084 | 12C096 | 12C096 | 12C096 | 12C096 | 12C096 | 12D106 |
| | | | Start Depth | 0 | 0 | 4 | 7.5 | 0 | 4 | 0 |
| | | | End Depth | 0.5 | 0.5 | 5 | 8.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.111 U | 0.103 U | 0.108 U | 0.108 U | 0.103 U | 0.105 U | 0.122 U |

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

Appendix A12
Mercury-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-005-NBZ-SB-4.0-5.0 | SL-006-NBZ-SB-3.0-4.0 | SL-007-NBZ-SB-4.0-5.0 | SL-007-NBZ-SB-9.0-10.0 | SL-008-NBZ-SB-4.0-5.0 | DUP-07-NBZ-QC-041012 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | FD |
| | | | Sample Date | 03/13/2012 | 03/13/2012 | 03/12/2012 | 03/12/2012 | 04/18/2012 | 04/10/2012 |
| | | | SDG | 12C106 | 12C106 | 12C096 | 12C096 | 12D166 | 12D092 |
| | | | Start Depth | 4 | 3 | 4 | 9 | 4 | 0 |
| | | | End Depth | 5 | 4 | 5 | 10 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.111 U | 0.106 U | 0.108 U | 0.108 U | 0.105 U | 0.102 J Z |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-009-NBZ-SS-0.0-0.5 | SL-010-NBZ-SB-4.0-5.0 | SL-011-NBZ-SS-0.0-0.5 | SL-012-NBZ-SS-0.0-0.5 | SL-012-NBZ-SB-0.5-1.5 | SL-013-NBZ-SS-0.0-0.5 | SL-014-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/10/2012 | 03/12/2012 | 04/12/2012 | 04/19/2012 | 04/19/2012 | 04/16/2012 | 04/17/2012 |
| | | | SDG | 12D092 | 12C096 | 12D122 | 12D176 | 12D176 | 12D146 | 12D154 |
| | | | Start Depth | 0 | 4 | 0 | 0 | 0.5 | 0 | 0 |
| | | | End Depth | 0.5 | 5 | 0.5 | 0.5 | 1.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.0631 J Z | 0.108 U | 0.114 U | 0.116 U | 0.120 U | 0.149 U | 0.0676 J Z |

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

Appendix A12
Mercury-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-015-NBZ-SS-0.0-0.5 | SL-016-NBZ-SS-0.0-0.5 | SL-017-NBZ-SS-0.0-0.5 | SL-018-NBZ-SS-0.0-0.5 | SL-019-NBZ-SS-0.0-0.5 | SL-019-NBZ-SB-3.0-4.0 | SL-020-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/13/2012 | 04/20/2012 | 04/19/2012 | 04/20/2012 | 03/13/2012 | 03/13/2012 | 04/04/2012 |
| | | | SDG | 12C106 | 12D192 | 12D176 | 12D192 | 12C106 | 12C106 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 4 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.101 U | 0.126 U | 0.0803 J Z | 0.121 U | 0.103 U | 0.105 U | 0.111 U |

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

| | | | Sample Name | SL-020-NBZ-SB-2.5-3.5 | SL-021-NBZ-SS-0.0-0.5 | SL-021-NBZ-SB-4.0-5.0 | SL-022-NBZ-SS-0.0-0.5 | SL-022-NBZ-SB-4.0-5.0 | SL-022-NBZ-SB-9.0-10.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/04/2012 | 03/13/2012 | 03/13/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 |
| | | | SDG | 12D031 | 12C106 | 12C106 | 12C121 | 12C121 | 12C121 |
| | | | Start Depth | 2.5 | 0 | 4 | 0 | 4 | 9 |
| | | | End Depth | 3.5 | 0.5 | 5 | 0.5 | 5 | 10 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.113 U | 0.102 U | 0.104 U | 0.104 U | 0.104 U | 0.105 U |

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

Appendix A12
Mercury-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-023-NBZ-SS-0.0-0.5 | SL-023-NBZ-SB-4.0-5.0 | SL-023-NBZ-SB-8.5-9.5 | SL-024-NBZ-SS-0.0-0.5 | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 |
| | | | SDG | 12C121 | 12C121 | 12C121 | 12C121 | 12D004 | 12D004 | 12D004 |
| | | | Start Depth | 0 | 4 | 8.5 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 5 | 9.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.102 U | 0.103 U | 0.104 U | 0.102 U | 0.108 U | 0.107 U | 0.116 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-028-NBZ-SS-0.0-0.5 | SL-029-NBZ-SS-0.0-0.5 | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 | SL-034-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/02/2012 | 03/15/2012 | 03/14/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 |
| | | | SDG | 12D004 | 12C135 | 12C121 | 12D018 | 12D018 | 12D018 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.109 U | 0.103 U | 0.101 U | 0.108 U | 0.113 U | 0.110 U | 0.118 U |

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

Appendix A12
Mercury-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-035-NBZ-SS-0.0-0.5 | SL-035-NBZ-SB-2.0-3.0 | SL-036-NBZ-SB-4.0-5.0 | SL-036-NBZ-SB-7.5-8.5 | SL-037-NBZ-SB-3.0-4.0 | SL-038-NBZ-SS-0.0-0.5 | SL-039-NBZ-SB-2.0-3.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 04/03/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 |
| | | | SDG | 12D018 | 12D018 | 12C285 | 12C285 | 12C285 | 12C273 | 12C273 |
| | | | Start Depth | 0 | 2 | 4 | 7.5 | 3 | 0 | 2 |
| | | | End Depth | 0.5 | 3 | 5 | 8.5 | 4 | 0.5 | 3 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.114 U | 0.105 U | 0.113 U | 0.129 U | 0.111 U | 0.121 U | 0.114 U |

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

| | | | Sample Name | SL-040-NBZ-SS-0.0-0.5 | DUP-03-NBZ-QC-032812 | SL-040-NBZ-SB-2.5-3.5 | SL-042-NBZ-SS-0.0-0.5 | SL-043-NBZ-SS-0.0-0.5 | SL-044-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | FD | N | N | N | N |
| | | | Sample Date | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 |
| | | | SDG | 12C285 | 12C285 | 12C285 | 12C261 | 12C261 | 12C305 |
| | | | Start Depth | 0 | 2.5 | 2.5 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 3.5 | 3.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.112 U | 0.106 U | 0.104 U | 2.21 | 0.111 U | 24.3 |

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

Appendix A12
Mercury-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-045-NBZ-SS-0.0-0.5 | SL-045-NBZ-SB-4.0-5.0 | SL-046-NBZ-SS-0.0-0.5 | SL-046-NBZ-SB-4.0-5.0 | SL-047-NBZ-SB-4.0-5.0 | SL-048-NBZ-SS-0.0-0.5 | SL-048-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 |
| | | | SDG | 12C261 | 12C261 | 12C261 | 12C261 | 12C254 | 12C254 | 12C254 |
| | | | Start Depth | 0 | 4 | 0 | 4 | 4 | 0 | 4 |
| | | | End Depth | 0.5 | 5 | 0.5 | 5 | 5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 3.58 | 0.104 U | 0.357 | 0.105 U | 0.105 U | 0.24 | 0.105 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-049-NBZ-SB-2.0-3.0 | SL-050-NBZ-SS-0.0-0.5 | SL-051-NBZ-SB-1.5-2.5 | SL-052-NBZ-SS-0.0-0.5 | SL-053-NBZ-SS-0.0-0.5 | SL-053-NBZ-SB-3.5-4.5 | SL-054-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/23/2012 | 03/26/2012 | 03/23/2012 | 03/15/2012 | 03/15/2012 | 03/15/2012 | 03/22/2012 |
| | | | SDG | 12C254 | 12C261 | 12C254 | 12C135 | 12C135 | 12C135 | 12C229 |
| | | | Start Depth | 2 | 0 | 1.5 | 0 | 0 | 3.5 | 0 |
| | | | End Depth | 3 | 0.5 | 2.5 | 0.5 | 0.5 | 4.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.103 U | 0.109 U | 0.102 U | 0.102 U | 0.101 U | 0.104 U | 0.107 U |

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

Appendix A12
Mercury-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-055-NBZ-SS-0.0-0.5 | SL-056-NBZ-SS-0.0-0.5 | SL-056-NBZ-SB-3.0-4.0 | DUP-02-NBZ-QC-032312 | SL-057-NBZ-SS-0.0-0.5 | SL-058-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | FD | N | N |
| | | | Sample Date | 03/22/2012 | 03/15/2012 | 03/15/2012 | 03/23/2012 | 03/23/2012 | 03/15/2012 |
| | | | SDG | 12C229 | 12C135 | 12C135 | 12C254 | 12C254 | 12C135 |
| | | | Start Depth | 0 | 0 | 3 | 0 | 0 | 5 |
| | | | End Depth | 0.5 | 0.5 | 4 | 0.5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.109 U | 0.103 U | 0.104 U | 0.106 U | 0.107 U | 0.105 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 | SL-061-NBZ-SB-1.0-2.0 | SL-062-NBZ-SB-2.5-3.5 | SL-063-NBZ-SB-0.5-1.5 | SL-064-NBZ-SB-0.5-1.5 | SL-065-NBZ-SB-1.0-2.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/22/2012 | 03/22/2012 | 03/22/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 |
| | | | SDG | 12C229 | 12C229 | 12C229 | 12C209 | 12C209 | 12C209 | 12C209 |
| | | | Start Depth | 0 | 0 | 1 | 2.5 | 0.5 | 0.5 | 1 |
| | | | End Depth | 0.5 | 0.5 | 2 | 3.5 | 1.5 | 1.5 | 2 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.107 U | 0.108 U | 0.107 U | 0.103 U | 0.112 U | 0.104 U | 0.109 U |

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

Appendix A12
Mercury-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-066-NBZ-SB-2.0-3.0 | SL-067-NBZ-SB-1.5-2.5 | DUP-01-NBZ-QC-031612 | SL-068-NBZ-SB-2.5-3.5 | SL-069-NBZ-SB-3.0-4.0 | SL-070-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | FD | N | N | N |
| | | | Sample Date | 03/21/2012 | 03/16/2012 | 03/16/2012 | 03/16/2012 | 03/20/2012 | 03/20/2012 |
| | | | SDG | 12C209 | 12C156 | 12C156 | 12C156 | 12C182 | 12C182 |
| | | | Start Depth | 2 | 1.5 | 2.5 | 2.5 | 3 | 0 |
| | | | End Depth | 3 | 2.5 | 3.5 | 3.5 | 4 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.102 U | 0.108 U | 0.109 U | 0.110 U | 0.105 U | 0.114 U |

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

| | | | Sample Name | SL-071-NBZ-SB-4.0-5.0 | SL-072-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-9.0-10.0 | SL-074-NBZ-SB-0.5-1.5 | SL-075-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/19/2012 | 03/16/2012 | 03/19/2012 | 03/19/2012 | 03/19/2012 | 03/20/2012 |
| | | | SDG | 12C164 | 12C156 | 12C164 | 12C164 | 12C164 | 12C182 |
| | | | Start Depth | 4 | 4 | 4 | 9 | 0.5 | 0 |
| | | | End Depth | 5 | 5 | 5 | 10 | 1.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.103 U | 0.111 U | 0.108 U | 0.110 U | 0.105 U | 0.109 U |

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

Appendix A12
Mercury-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-076-NBZ-SS-0.0-0.5 | SL-077-NBZ-SS-0.0-0.5 | SL-077-NBZ-SB-2.5-3.5 | SL-078-NBZ-SS-0.0-0.5 | SL-079-NBZ-SS-0.0-0.5 | SL-080-NBZ-SS-0.0-0.5 | SL-081-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/27/2012 | 03/30/2012 | 04/20/2012 | 04/18/2012 |
| | | | SDG | 12C182 | 12C182 | 12C182 | 12C273 | 12C321 | 12D192 | 12D166 |
| | | | Start Depth | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.114 U | 0.116 U | 0.105 U | 0.113 U | 0.115 U | 0.115 U | 0.119 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-082-NBZ-SS-0.0-0.5 | SL-082-NBZ-SB-2.5-3.5 | SL-083-NBZ-SS-0.0-0.5 | SL-084-NBZ-SS-0.0-0.5 | SL-085-NBZ-SS-0.0-0.5 | SL-086-NBZ-SS-0.0-0.5 | SL-087-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/18/2012 | 04/18/2012 | 04/18/2012 | 04/10/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 |
| | | | SDG | 12D166 | 12D166 | 12D166 | 12D092 | 12D092 | 12D176 | 12D176 |
| | | | Start Depth | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.233 | 0.115 U | 0.0992 J Z | 0.0584 J Z | 0.532 | 0.228 | 0.126 U |

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

Appendix A12
Mercury-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-088-NBZ-SS-0.0-0.5 | SL-089-NBZ-SS-0.0-0.5 | SL-090-NBZ-SS-0.0-0.5 | SL-091-NBZ-SS-0.0-0.5 | SL-091-NBZ-SB-4.0-5.0 | DUP-05-NBZ-QC-032912 |
| | | | Sample Type | N | N | N | N | N | FD |
| | | | Sample Date | 04/17/2012 | 04/20/2012 | 04/17/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 |
| | | | SDG | 12D154 | 12D192 | 12D154 | 12C305 | 12C305 | 12C305 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 4 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.131 U | 0.111 U | 0.116 U | 0.121 U | 0.123 U | 0.119 U |

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

| | | | Sample Name | SL-092-NBZ-SS-0.0-0.5 | SL-094-NBZ-SS-0.0-0.5 | SL-095-NBZ-SS-0.0-0.5 | SL-096-NBZ-SS-0.0-0.5 | SL-097-NBZ-SS-0.0-0.5 | SL-099-NBZ-SS-0.0-0.5 | SL-100-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/29/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 | 04/04/2012 | 04/04/2012 | 04/04/2012 |
| | | | SDG | 12C305 | 12C285 | 12C273 | 12C285 | 12D031 | 12D031 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.117 U | 0.114 U | 0.113 U | 0.114 U | 0.106 U | 0.108 U | 0.108 U |

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

Appendix A12
Mercury-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-101-NBZ-SS-0.0-0.5 | SL-102-NBZ-SS-0.0-0.5 | SL-103-NBZ-SS-0.0-0.5 | SL-104-NBZ-SS-0.0-0.5 | SL-105-NBZ-SS-0.0-0.5 | SL-107-NBZ-SS-0.0-0.5 | SL-108-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/29/2012 | 03/27/2012 | 03/29/2012 | 04/04/2012 | 03/21/2012 | 04/02/2012 | 04/03/2012 |
| | | | SDG | 12C305 | 12C273 | 12C305 | 12D031 | 12C209 | 12D004 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.114 U | 0.117 U | 0.116 U | 0.108 U | 0.112 U | 0.113 U | 0.106 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-109-NBZ-SS-0.0-0.5 | SL-110-NBZ-SS-0.0-0.5 | SL-111-NBZ-SS-0.0-0.5 | SL-112-NBZ-SS-0.0-0.5 | SL-113-NBZ-SS-0.0-0.5 | SL-114-NBZ-SS-0.0-0.5 | SL-115-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/27/2012 | 04/04/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/04/2012 | 04/03/2012 |
| | | | SDG | 12C273 | 12D031 | 12D004 | 12D004 | 12D004 | 12D031 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.113 U | 0.107 U | 0.125 U | 0.109 U | 0.109 U | 0.109 U | 0.113 U |

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

Appendix A12
Mercury-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-116-NBZ-SS-0.0-0.5 | DUP-04-NBZ-QC-032912 | SL-118-NBZ-SS-0.0-0.5 | SL-119-NBZ-SS-0.0-0.5 | SL-120-NBZ-SS-0.0-0.5 | SL-121-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | FD | N | N | N | N |
| | | | Sample Date | 03/22/2012 | 03/29/2012 | 03/29/2012 | 03/27/2012 | 04/04/2012 | 03/30/2012 |
| | | | SDG | 12C229 | 12C305 | 12C305 | 12C273 | 12D031 | 12C321 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.112 U | 0.108 U | 0.110 U | 0.112 U | 0.108 U | 0.108 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-122-NBZ-SS-0.0-0.5 | SL-123-NBZ-SS-0.0-0.5 | SL-124-NBZ-SS-0.0-0.5 | SL-126-NBZ-SS-0.0-0.5 | SL-127-NBZ-SS-0.0-0.5 | SL-129-NBZ-SS-0.0-0.5 | SL-130-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 | 04/03/2012 | 03/27/2012 | 03/27/2012 |
| | | | SDG | 12D018 | 12C261 | 12C261 | 12C261 | 12D018 | 12C273 | 12C273 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.113 U | 0.116 U | 0.133 U | 0.120 U | 0.105 U | 0.126 U | 0.118 U |

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

Appendix A12
Mercury-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-131-NBZ-SS-0.0-0.5 | SL-133-NBZ-SS-0.0-0.5 | SL-134-NBZ-SS-0.0-0.5 | SL-135-NBZ-SS-0.0-0.5 | SL-136-NBZ-SS-0.0-0.5 | SL-138-NBZ-SS-0.0-0.5 | SL-139-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/29/2012 | 03/26/2012 | 03/30/2012 | 03/28/2012 | 03/28/2012 | 04/02/2012 | 03/28/2012 |
| | | | SDG | 12C305 | 12C261 | 12C321 | 12C285 | 12C285 | 12D004 | 12C285 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.107 U | 0.117 U | 0.109 U | 0.114 U | 0.111 U | 0.113 U | 0.118 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-140-NBZ-SS-0.0-0.5 | SL-141-NBZ-SS-0.0-0.5 | SL-143-NBZ-SS-0.0-0.5 | SL-144-NBZ-SS-0.0-0.5 | SL-145-NBZ-SS-0.0-0.5 | SL-146-NBZ-SS-0.0-0.5 | SL-147-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 03/28/2012 | 03/28/2012 | 04/12/2012 | 04/11/2012 | 04/18/2012 | 04/17/2012 |
| | | | SDG | 12D018 | 12C285 | 12C285 | 12D122 | 12D106 | 12D166 | 12D154 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.115 U | 0.113 U | 0.107 U | 0.114 U | 0.127 U | 0.115 U | 0.114 U |

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

Appendix A12
Mercury-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-148-NBZ-SS-0.0-0.5 | SL-149-NBZ-SS-0.0-0.5 | SL-150-NBZ-SS-0.0-0.5 | SL-151-NBZ-SS-0.0-0.5 | SL-152-NBZ-SS-0.0-0.5 | SL-154-NBZ-SS-0.0-0.5 | SL-155-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/11/2012 | 04/05/2012 | 04/19/2012 | 04/09/2012 | 04/12/2012 | 04/11/2012 | 04/04/2012 |
| | | | SDG | 12D106 | 12D048 | 12D176 | 12D084 | 12D122 | 12D106 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.123 U | 0.109 U | 0.112 U | 0.110 U | 0.120 U | 0.133 U | 0.109 U |

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

| | | | Sample Name | SL-156-NBZ-SS-0.0-0.5 | SL-157-NBZ-SS-0.0-0.5 | SL-158-NBZ-SS-0.0-0.5 | SL-159-NBZ-SS-0.0-0.5 | DUP-10-NBZ-QC-041612 | SL-160-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | FD | N |
| | | | Sample Date | 04/17/2012 | 04/09/2012 | 04/12/2012 | 04/16/2012 | 04/16/2012 | 04/16/2012 |
| | | | SDG | 12D154 | 12D084 | 12D122 | 12D146 | 12D166 | 12D146 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.121 U | 0.111 U | 0.115 U | 0.113 U | 0.112 U | 0.111 U |

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

Appendix A12
Mercury-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-161-NBZ-SS-0.0-0.5 | SL-162-NBZ-SS-0.0-0.5 | SL-163-NBZ-SS-0.0-0.5 | SL-164-NBZ-SS-0.0-0.5 | SL-165-NBZ-SS-0.0-0.5 | SL-166-NBZ-SS-0.0-0.5 | SL-167-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/17/2012 | 04/17/2012 | 04/11/2012 | 04/16/2012 | 04/05/2012 | 04/17/2012 | 04/09/2012 |
| | | | SDG | 12D154 | 12D154 | 12D106 | 12D146 | 12D048 | 12D154 | 12D084 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.111 U | 0.108 U | 0.118 U | 0.119 U | 0.109 U | 0.114 U | 0.106 U |

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

| | | | Sample Name | SL-168-NBZ-SS-0.0-0.5 | SL-169-NBZ-SS-0.0-0.5 | SL-170-NBZ-SS-0.0-0.5 | SL-171-NBZ-SS-0.0-0.5 | SL-172-NBZ-SS-0.0-0.5 | DUP-08-NBZ-QC-041612 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | FD |
| | | | Sample Date | 04/11/2012 | 04/03/2012 | 04/20/2012 | 04/20/2012 | 04/12/2012 | 04/16/2012 |
| | | | SDG | 12D106 | 12D018 | 12D192 | 12D192 | 12D122 | 12D146 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.112 U | 0.110 U | 0.110 U | 0.109 U | 0.112 U | 0.118 U |

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

Appendix A12
Mercury-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-173-NBZ-SS-0.0-0.5 | SL-174-NBZ-SS-0.0-0.5 | SL-175-NBZ-SS-0.0-0.5 | SL-176-NBZ-SS-0.0-0.5 | SL-177-NBZ-SS-0.0-0.5 | SL-178-NBZ-SS-0.0-0.5 | SL-179-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/16/2012 | 04/09/2012 | 04/05/2012 | 04/11/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 |
| | | | SDG | 12D146 | 12D084 | 12D048 | 12D106 | 12D092 | 12D176 | 12D176 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.120 U | 0.109 U | 0.116 U | 0.117 U | 0.106 U | 0.111 U | 0.112 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-180-NBZ-SS-0.0-0.5 | SL-181-NBZ-SS-0.0-0.5 | SL-182-NBZ-SS-0.0-0.5 | SL-183-NBZ-SS-0.0-0.5 | SL-184-NBZ-SS-0.0-0.5 | SL-185-NBZ-SS-0.0-0.5 | SL-186-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/13/2012 | 04/04/2012 | 04/11/2012 | 04/13/2012 | 04/19/2012 | 04/09/2012 | 04/10/2012 |
| | | | SDG | 12D135 | 12D031 | 12D106 | 12D135 | 12D176 | 12D084 | 12D092 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.124 U | 0.109 U | 0.116 U | 0.120 U | 0.113 U | 0.110 U | 0.107 U |

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

Appendix A12
Mercury-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-187-NBZ-SS-0.0-0.5 | SL-188-NBZ-SS-0.0-0.5 | SL-189-NBZ-SS-0.0-0.5 | SL-190-NBZ-SS-0.0-0.5 | DUP-06-NBZ-QC-040912 | SL-191-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | FD | N |
| | | | Sample Date | 04/04/2012 | 04/10/2012 | 04/18/2012 | 04/05/2012 | 04/09/2012 | 04/09/2012 |
| | | | SDG | 12D031 | 12D092 | 12D166 | 12D048 | 12D084 | 12D084 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.108 U | 0.107 U | 0.114 U | 0.104 U | 0.109 U | 0.109 U |

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

| | | | Sample Name | DUP-09-NBZ-QC-041912 | SL-193-NBZ-SS-0.0-0.5 | SL-194-NBZ-SS-0.0-0.5 | SL-195-NBZ-SS-0.0-0.5 | SL-196-NBZ-SS-0.0-0.5 | SL-197-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | FD | N | N | N | N | N |
| | | | Sample Date | 04/19/2012 | 04/19/2012 | 04/02/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 |
| | | | SDG | 12D176 | 12D176 | 12D004 | 12C261 | 12C261 | 12C305 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.113 U | 0.112 U | 0.112 U | 0.112 U | 0.121 U | 0.115 U |

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

Appendix A12
Mercury-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-198-NBZ-SS-0.0-0.5 | SL-199-NBZ-SS-0.0-0.5 | SL-200-NBZ-SS-0.0-0.5 | SL-201-NBZ-SS-0.0-0.5 | SL-202-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 04/23/2012 | 04/23/2012 | 04/23/2012 | 04/20/2012 |
| | | | SDG | 12D018 | 12D197 | 12D197 | 12D197 | 12D192 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | |
| 7471A | 7439-97-6 | Mercury | mg/kg | 0.108 U | 0.107 U | 0.109 U | 0.118 U | 0.107 U |

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

| | | | | Sample Name | SL-001-NBZ-SS-0.0-0.5 | SL-002-NBZ-SS-0.0-0.5 | SL-002-NBZ-SB-4.0-5.0 | SL-002-NBZ-SB-7.5-8.5 | SL-003-NBZ-SS-0.0-0.5 | SL-003-NBZ-SB-4.0-5.0 | SL-004-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/09/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 04/11/2012 |
| | | | | SDG | 12D084 | 12C096 | 12C096 | 12C096 | 12C096 | 12C096 | 12D106 |
| | | | | Start Depth | 0 | 0 | 4 | 7.5 | 0 | 4 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 5 | 8.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | | 15000 | 12900 | 14200 | 8440 | 15400 | 13600 | 10600 |
| 6020 | 7439-89-6 | Iron | mg/kg | | 25500 | 22200 | 19900 | 15600 | 29000 | 27400 | 17300 |
| 6020 | 7439-92-1 | Lead | mg/kg | | 8.4 | 10 | 5.29 | 3.59 | 12.9 | 9.91 | 8.22 |
| 6020 | 7439-93-2 | Lithium | mg/kg | | 32.2 | 28.9 | 23 | 22.1 | 44.6 | 41.1 | 25.5 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | | 6780 | 4850 | 4050 | 2810 | 6650 | 5590 | 4110 |
| 6020 | 7439-96-5 | Manganese | mg/kg | | 300 | 302 | 247 | 1870 | 326 | 373 | 261 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | | 0.45 | 0.45 | 0.473 | 0.495 | 0.542 | 0.439 | 0.383 |
| 6020 | 7440-02-0 | Nickel | mg/kg | | 12.8 | 11.8 | 9.46 | 5.03 | 17.8 | 16.3 | 7.97 |
| 6020 | 7440-09-07 | Potassium | mg/kg | | 4030 | 3420 | 1660 | 1700 | 4060 | 2930 | 3460 |
| 6020 | 7440-22-4 | Silver | mg/kg | | 0.113 U | 0.0943 U | 0.0559 J Z | 0.108 U | 0.118 | 0.118 | 0.121 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | | 81.7 J Z | 65.6 J Z | 56.3 J Z | 108 U | 74.4 J Z | 65.0 J Z | 121 U |
| 6020 | 7440-24-6 | Strontium | mg/kg | | 45.8 | 15.1 | 18.8 | 11.2 | 24.7 | 23.9 | 14.1 |
| 6020 | 7440-28-0 | Thallium | mg/kg | | 0.319 | 0.288 | 0.267 | 0.23 | 0.404 | 0.411 | 0.244 |
| 6020 | 7440-31-5 | Tin | mg/kg | | 11.3 U | 9.43 U | 10.6 U | 10.8 U | 9.85 U | 10.4 U | 12.1 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | | 973 | 818 | 922 | 791 | 903 | 825 | 852 |
| 6020 | 7440-36-0 | Antimony | mg/kg | | 0.208 J Z | 0.262 J Q | 0.139 J Q, Z | 0.113 J Q, Z | 0.293 J Q | 0.256 J Q | 0.174 J Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | | 5.79 | 6.31 | 4.64 | 3.43 | 8.62 | 7.45 | 3.7 |
| 6020 | 7440-39-3 | Barium | mg/kg | | 80.7 | 90.1 | 84.6 | 70.5 | 107 | 89.7 | 79.9 J Q |
| 6020 | 7440-41-7 | Beryllium | mg/kg | | 0.56 | 0.546 | 0.594 | 0.362 | 0.823 | 0.69 | 0.397 |
| 6020 | 7440-42-8 | Boron | mg/kg | | 4.79 J Z | 2.85 J Z | 5.28 U | 5.38 U | 4.28 J Z | 5.18 U | 6.04 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | | 0.222 | 0.224 | 0.15 | 0.253 | 0.268 | 0.288 | 0.215 |
| 6020 | 7440-47-3 | Chromium | mg/kg | | 19.6 | 16 | 14.1 | 7.35 | 24.4 | 21.3 | 11.3 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | | 7.89 | 6.78 | 5.14 | 4.24 | 8.56 | 8.39 | 4.45 |
| 6020 | 7440-50-8 | Copper | mg/kg | | 13.1 | 9.88 | 5.91 | 3.37 | 17.5 | 14.5 | 6.43 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | | 42.3 | 32.4 | 29.7 | 19.4 | 44.9 | 40.3 | 25.6 |
| 6020 | 7440-66-6 | Zinc | mg/kg | | 75.3 | 65.5 | 49.4 | 39.7 | 93.8 | 82.3 | 57.3 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | | 5.66 UJ Q | 4.72 UJ Q | 5.28 UJ Q | 5.38 UJ Q | 3.09 J Q, Z | 5.18 UJ Q | 6.04 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | | 8780 | 4880 | 2400 | 1380 | 7780 | 13900 | 3030 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | | 561 | 495 | 123 | 164 | 594 | 573 | 513 |
| 6020 | 7782-49-2 | Selenium | mg/kg | | 0.314 J Z | 0.265 J Z | 0.422 U | 0.430 U | 0.268 J Z | 0.414 U | 0.483 U |

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

Appendix A13
Metals-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-005-NBZ-SB-4.0-5.0 | SL-006-NBZ-SB-3.0-4.0 | SL-007-NBZ-SB-4.0-5.0 | SL-007-NBZ-SB-9.0-10.0 | SL-008-NBZ-SB-4.0-5.0 | DUP-07-NBZ-QC-041012 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | FD |
| | | | | Sample Date | 03/13/2012 | 03/13/2012 | 03/12/2012 | 03/12/2012 | 04/18/2012 | 04/10/2012 |
| | | | | SDG | 12C106 | 12C106 | 12C096 | 12C096 | 12D166 | 12D092 |
| | | | | Start Depth | 4 | 3 | 4 | 9 | 4 | 0 |
| | | | | End Depth | 5 | 4 | 5 | 10 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 18900 | 8170 | 14300 | 13200 | 19700 | 9530 |
| 6020 | 7439-89-6 | Iron | mg/kg | 19900 | 16400 | 18200 | 17800 | 19700 | 16000 |
| 6020 | 7439-92-1 | Lead | mg/kg | 6.68 | 3.2 | 4.95 | 4.47 | 6.28 | 8.84 |
| 6020 | 7439-93-2 | Lithium | mg/kg | 26.3 | 21.4 | 24.5 | 21.9 | 25.4 | 22.1 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 4370 | 3610 | 4600 | 4060 | 4590 | 4150 |
| 6020 | 7439-96-5 | Manganese | mg/kg | 213 | 176 | 237 | 245 | 235 | 263 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 0.686 | 0.242 | 0.669 | 0.573 | 0.751 | 0.388 |
| 6020 | 7440-02-0 | Nickel | mg/kg | 11.3 | 5.67 | 9.82 | 8.34 | 11.4 | 8.73 |
| 6020 | 7440-09-07 | Potassium | mg/kg | 1800 | 2210 | 2370 | 1940 | 1760 | 3530 |
| 6020 | 7440-22-4 | Silver | mg/kg | 0.0616 J Z | 0.105 U | 0.105 U | 0.108 U | 0.0587 J Z | 0.0909 J Z |
| 6020 | 7440-23-5 | Sodium | mg/kg | 53.5 J Z | 105 U | 64.5 J Z | 56.8 J Z | 71.8 J Z | 69.5 J Z |
| 6020 | 7440-24-6 | Strontium | mg/kg | 16.2 | 7.53 | 15.9 | 14.7 | 17.8 | 16.9 |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.259 | 0.195 | 0.257 | 0.227 | 0.253 | 0.214 |
| 6020 | 7440-31-5 | Tin | mg/kg | 10.5 U | 10.5 U | 10.5 U | 10.8 U | 10.6 U | 11.5 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | 862 | 735 | 934 | 855 | 1060 | 806 |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.132 J Q, Z | 0.210 UJ Q | 0.119 J Q, Z | 0.118 J Q, Z | 0.125 J Z | 0.164 J Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 7.8 | 4.16 | 7.2 | 6.88 | 26.7 | 14.4 |
| 6020 | 7440-39-3 | Barium | mg/kg | 105 | 42.1 | 108 | 74.4 | 99.1 | 89.7 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.742 | 0.316 | 0.553 | 0.522 | 0.809 | 0.347 |
| 6020 | 7440-42-8 | Boron | mg/kg | 5.27 U | 5.24 U | 5.23 U | 5.40 U | 5.28 U | 5.74 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.153 | 0.0836 J Z | 0.169 | 0.17 | 0.131 | 0.251 |
| 6020 | 7440-47-3 | Chromium | mg/kg | 16.5 | 10.1 | 15.2 | 13.6 | 17.3 | 12.3 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 4.6 | 3.59 | 5.25 | 4.25 | 5.42 | 4.33 |
| 6020 | 7440-50-8 | Copper | mg/kg | 7.65 | 3.54 | 7.13 | 5.91 | 7.65 | 7.33 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 32.8 | 23.9 | 30.9 | 27.6 | 37.2 | 25.7 |
| 6020 | 7440-66-6 | Zinc | mg/kg | 47.4 | 42 | 49.2 | 44.3 | 48.2 | 61.5 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 5.27 UJ Q | 5.24 UJ Q | 5.23 UJ Q | 5.40 UJ Q | 5.28 U | 5.74 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | 2130 | 1880 | 2470 | 2050 | 1990 | 3190 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 288 | 441 | 397 | 306 | 200 | 488 |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.421 U | 0.419 U | 0.419 U | 0.432 U | 0.422 U | 0.459 U |

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

| | | | | Sample Name | SL-009-NBZ-SS-0.0-0.5 | SL-010-NBZ-SB-4.0-5.0 | SL-011-NBZ-SS-0.0-0.5 | SL-012-NBZ-SS-0.0-0.5 | SL-012-NBZ-SB-0.5-1.5 | SL-013-NBZ-SS-0.0-0.5 | SL-014-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/10/2012 | 03/12/2012 | 04/12/2012 | 04/19/2012 | 04/19/2012 | 04/16/2012 | 04/17/2012 |
| | | | | SDG | 12D092 | 12C096 | 12D122 | 12D176 | 12D176 | 12D146 | 12D154 |
| | | | | Start Depth | 0 | 4 | 0 | 0 | 0.5 | 0 | 0 |
| | | | | End Depth | 0.5 | 5 | 0.5 | 0.5 | 1.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 10500 | 14100 | 10100 | 17200 | 12300 | 9530 J Q | 9010 J Q |
| 6020 | 7439-89-6 | Iron | mg/kg | 17100 | 21600 | 16800 | 29100 | 19100 | 15700 | 15700 |
| 6020 | 7439-92-1 | Lead | mg/kg | 9.42 | 5.5 | 8.42 | 17.3 | 5.23 | 10.7 | 9.89 |
| 6020 | 7439-93-2 | Lithium | mg/kg | 23.6 | 28 | 24.7 | 39.9 | 22.7 | 18.6 | 19 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 4660 | 4960 | 4120 | 6700 | 4420 | 3860 | 3810 |
| 6020 | 7439-96-5 | Manganese | mg/kg | 285 | 397 | 245 | 582 | 168 | 222 | 234 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 0.389 | 0.636 | 0.311 | 0.743 | 0.37 | 0.392 | 0.328 |
| 6020 | 7440-02-0 | Nickel | mg/kg | 9.51 | 11.8 | 7.49 | 13.1 | 7.72 | 8.27 | 7.37 |
| 6020 | 7440-09-07 | Potassium | mg/kg | 3920 | 2450 | 3130 | 5850 | 2740 | 2820 J Q | 3130 J Q |
| 6020 | 7440-22-4 | Silver | mg/kg | 0.0901 J Z | 0.0648 J Z | 0.109 U | 0.112 U | 0.114 U | 0.147 U | 0.124 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | 70.0 J Z | 62.0 J Z | 109 U | 123 | 92.2 J Z | 98.0 J Z | 78.6 J Z |
| 6020 | 7440-24-6 | Strontium | mg/kg | 17 | 15.4 | 12.9 | 29.3 | 16.3 | 25.6 | 14.8 |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.229 | 0.264 | 0.206 | 0.374 | 0.254 | 0.192 | 0.205 |
| 6020 | 7440-31-5 | Tin | mg/kg | 11.6 U | 10.7 U | 10.9 U | 11.2 U | 11.4 U | 14.7 U | 12.4 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | 878 | 992 | 761 | 1460 | 923 | 788 | 812 |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.186 J Z | 0.127 J Q, Z | 0.140 J Z | 0.267 J Q | 0.228 UJ Q | 0.224 J Q, Z | 0.158 J Q, Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 16.2 | 27 | 5 | 7.31 | 4.21 | 3.1 | 9.17 |
| 6020 | 7440-39-3 | Barium | mg/kg | 96.8 | 90.3 | 69.4 J Q | 150 | 72.5 | 80.4 J Q | 71.1 J Q |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.39 | 0.624 | 0.34 | 0.647 | 0.436 | 0.379 | 0.32 |
| 6020 | 7440-42-8 | Boron | mg/kg | 5.79 U | 5.37 U | 5.47 U | 3.33 J Z | 5.69 U | 3.78 J Z | 6.21 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.257 | 0.27 | 0.188 | 0.378 | 0.128 | 0.232 | 0.151 |
| 6020 | 7440-47-3 | Chromium | mg/kg | 13.1 | 18.9 | 10.9 | 19.9 | 14.9 | 12 | 11.1 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 4.65 | 8.55 | 4.21 | 10.1 | 3.71 | 4.32 | 4.04 |
| 6020 | 7440-50-8 | Copper | mg/kg | 7.92 | 7.61 | 5.31 | 9.99 | 5.14 | 7.3 | 5.91 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 27.8 | 36.1 | 23.9 | 43.6 | 29.2 | 24.9 | 23.8 |
| 6020 | 7440-66-6 | Zinc | mg/kg | 66.9 | 49.6 | 50 | 92.7 | 48.1 | 56.1 | 49.8 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 5.79 UJ Q | 5.37 UJ Q | 5.47 UJ Q | 5.58 UJ Q | 5.69 UJ Q | 7.36 UJ Q | 6.21 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | 3250 | 2670 | 2350 | 4270 | 2090 | 4690 | 2970 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 550 | 353 | 409 | 669 | 348 | 375 J Q | 337 J Q |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.463 U | 0.429 U | 0.438 U | 0.263 J Z | 0.456 U | 0.589 U | 0.497 U |

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

Appendix A13
Metals-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-015-NBZ-SS-0.0-0.5 | SL-016-NBZ-SS-0.0-0.5 | SL-017-NBZ-SS-0.0-0.5 | SL-018-NBZ-SS-0.0-0.5 | SL-019-NBZ-SS-0.0-0.5 | SL-019-NBZ-SB-3.0-4.0 | SL-020-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 03/13/2012 | 04/20/2012 | 04/19/2012 | 04/20/2012 | 03/13/2012 | 03/13/2012 | 04/04/2012 |
| | | | | SDG | 12C106 | 12D192 | 12D176 | 12D192 | 12C106 | 12C106 | 12D031 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 4 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 10100 | 9960 | 9990 | 7630 | 8660 | 9600 | 7630 |
| 6020 | 7439-89-6 | Iron | mg/kg | 20400 | 18400 | 18300 | 15800 | 18100 | 20100 | 13200 |
| 6020 | 7439-92-1 | Lead | mg/kg | 6.19 | 15.7 J Q | 16.8 | 10.5 J Q | 8.3 | 3.81 | 5.82 |
| 6020 | 7439-93-2 | Lithium | mg/kg | 26.9 | 25.4 | 24.1 | 18.7 | 21.4 | 31.6 | 17.3 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 5710 | 5400 | 6510 | 4140 | 4900 | 6170 | 3190 |
| 6020 | 7439-96-5 | Manganese | mg/kg | 255 | 302 | 370 | 258 | 270 | 265 | 202 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 0.297 | 0.487 | 0.717 | 0.439 | 0.378 | 0.366 | 0.327 |
| 6020 | 7440-02-0 | Nickel | mg/kg | 10.3 | 11 | 11.9 | 8.38 | 9.5 | 10 | 6.18 |
| 6020 | 7440-09-07 | Potassium | mg/kg | 2650 | 3190 | 3540 | 2520 | 2940 | 2240 | 3050 |
| 6020 | 7440-22-4 | Silver | mg/kg | 0.0945 U | 0.0730 J Z | 0.0954 J Z | 0.192 | 0.0988 U | 0.0973 U | 0.108 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | 94.5 U | 107 J Z | 124 J Z | 69.3 J Z | 98.8 U | 73.5 J Z | 108 U |
| 6020 | 7440-24-6 | Strontium | mg/kg | 11.6 | 20.7 | 41.2 | 11.8 | 7.79 | 15.1 | 12.3 |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.249 | 0.222 | 0.222 | 0.173 | 0.208 | 0.203 | 0.164 |
| 6020 | 7440-31-5 | Tin | mg/kg | 9.45 U | 12.4 U | 13.7 U | 11.8 U | 9.88 U | 9.73 U | 10.8 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | 974 | 904 | 905 | 804 | 841 | 982 | 690 |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.160 J Q, Z | 0.252 J Q | 0.330 J Q | 0.240 J Q | 0.168 J Q, Z | 0.143 J Q, Z | 0.157 J Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 3.68 | 3.78 | 3.46 | 2.91 | 3.41 | 4.42 | 3.59 |
| 6020 | 7440-39-3 | Barium | mg/kg | 57.7 | 93.3 J Q | 106 | 69.5 J Q | 56.7 | 73.6 | 64.6 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.421 | 0.427 | 0.427 | 0.331 | 0.37 | 0.439 | 0.291 |
| 6020 | 7440-42-8 | Boron | mg/kg | 4.73 U | 8.01 | 22.8 | 3.46 J Z | 4.94 U | 4.87 U | 5.38 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.151 | 0.235 | 0.284 | 0.197 | 0.153 | 0.137 | 0.156 |
| 6020 | 7440-47-3 | Chromium | mg/kg | 15.5 | 16.2 | 15.8 | 11.9 | 13.9 | 15.8 | 8.7 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 5.15 | 5.33 | 5.4 | 4.52 | 4.81 | 5.58 | 3.41 |
| 6020 | 7440-50-8 | Copper | mg/kg | 7.15 | 8.47 | 10.6 | 7.83 | 6.89 | 7.61 | 5.06 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 37 | 32.8 | 34.5 | 27.1 | 29.6 | 34.2 | 20.3 |
| 6020 | 7440-66-6 | Zinc | mg/kg | 51.9 | 63.1 | 68.8 | 55.9 | 44.8 | 55.1 | 49.6 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 4.73 UJ Q | 6.21 UJ Q | 6.87 UJ Q | 5.92 UJ Q | 4.94 UJ Q | 4.87 UJ Q | 5.38 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | 3230 | 7980 | 13400 | 4700 | 3500 | 8610 | 2300 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 438 | 415 | 532 | 379 | 309 | 463 | 362 |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.378 U | 0.497 U | 0.288 J Z | 0.474 U | 0.395 U | 0.389 U | 0.430 U |

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

| | | | | Sample Name | SL-020-NBZ-SB-2.5-3.5 | SL-021-NBZ-SS-0.0-0.5 | SL-021-NBZ-SB-4.0-5.0 | SL-022-NBZ-SS-0.0-0.5 | SL-022-NBZ-SB-4.0-5.0 | SL-022-NBZ-SB-9.0-10.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 04/04/2012 | 03/13/2012 | 03/13/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 |
| | | | | SDG | 12D031 | 12C106 | 12C106 | 12C121 | 12C121 | 12C121 |
| | | | | Start Depth | 2.5 | 0 | 4 | 0 | 4 | 9 |
| | | | | End Depth | 3.5 | 0.5 | 5 | 0.5 | 5 | 10 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 12300 | 10600 | 12000 | 8650 | 8740 | 11600 |
| 6020 | 7439-89-6 | Iron | mg/kg | 20700 | 19700 | 20100 | 16500 | 17700 | 18500 |
| 6020 | 7439-92-1 | Lead | mg/kg | 5.47 | 5.04 | 4.13 | 5.96 | 3.17 | 4.24 |
| 6020 | 7439-93-2 | Lithium | mg/kg | 27.8 | 20.7 | 21.7 | 22.7 | 27.1 | 19.3 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 5040 | 4120 | 4810 | 4250 | 3770 | 4210 |
| 6020 | 7439-96-5 | Manganese | mg/kg | 309 | 286 | 257 | 225 J E | 251 J E | 282 J E |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 0.501 | 0.537 | 0.46 | 0.324 | 0.306 | 0.459 |
| 6020 | 7440-02-0 | Nickel | mg/kg | 11.1 | 10.8 | 9.36 | 8.35 | 6.17 | 8.38 |
| 6020 | 7440-09-07 | Potassium | mg/kg | 3390 | 3910 | 2860 | 3370 | 3010 | 2990 |
| 6020 | 7440-22-4 | Silver | mg/kg | 0.112 U | 0.0969 U | 0.0977 U | 0.0983 U | 0.103 U | 0.103 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | 70.4 J Z | 50.0 J Z | 71.1 J Z | 58.6 J Z | 78.4 J Z | 82.9 J Z |
| 6020 | 7440-24-6 | Strontium | mg/kg | 16.9 | 12.7 | 13.1 | 15.6 | 11.6 | 11.9 |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.244 | 0.236 | 0.239 | 0.219 | 0.225 | 0.231 |
| 6020 | 7440-31-5 | Tin | mg/kg | 11.2 U | 9.69 U | 9.77 U | 9.83 U | 10.3 U | 10.3 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | 964 | 833 | 1030 | 827 | 948 | 948 |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.171 J Z | 0.191 J Q, Z | 0.164 J Q, Z | 0.180 J Z | 0.121 J Z | 0.184 J Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 6.83 | 4.35 | 4.35 | 3.17 | 2.32 | 3.93 |
| 6020 | 7440-39-3 | Barium | mg/kg | 83.1 | 73.4 | 70 | 81.1 J Q | 73.1 J Q | 62.8 J Q |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.559 | 0.482 | 0.497 | 0.368 | 0.369 | 0.526 |
| 6020 | 7440-42-8 | Boron | mg/kg | 5.61 U | 4.85 U | 4.89 U | 3.12 J Z | 5.14 U | 5.16 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.234 | 0.2 | 0.111 | 0.142 | 0.112 | 0.11 |
| 6020 | 7440-47-3 | Chromium | mg/kg | 16.3 | 15.5 | 15.9 | 13.4 | 10.2 | 14.4 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 5.5 | 5.27 | 5.32 | 4.21 | 3.92 | 5.21 |
| 6020 | 7440-50-8 | Copper | mg/kg | 8.45 | 7.71 | 6.25 | 7.58 | 4.62 | 5.44 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 33.6 | 32.7 | 35.5 | 26.2 | 23.5 | 30.4 |
| 6020 | 7440-66-6 | Zinc | mg/kg | 58.7 | 44.8 | 44.2 | 52.6 | 56.2 | 42.5 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 5.61 UJ Q | 4.85 UJ Q | 4.89 UJ Q | 4.92 UJ Q | 5.14 UJ Q | 5.16 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | 2930 | 1790 | 1600 | 4030 | 2400 | 1700 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 448 | 372 | 142 | 416 | 309 | 186 |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.242 J Z | 0.388 U | 0.391 U | 0.393 U | 0.411 U | 0.413 U |

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

Appendix A13
Metals-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-023-NBZ-SS-0.0-0.5 | SL-023-NBZ-SB-4.0-5.0 | SL-023-NBZ-SB-8.5-9.5 | SL-024-NBZ-SS-0.0-0.5 | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 |
| | | | | SDG | 12C121 | 12C121 | 12C121 | 12C121 | 12D004 | 12D004 | 12D004 |
| | | | | Start Depth | 0 | 4 | 8.5 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 5 | 9.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | | 9860 | 8910 | 11100 | 8400 | 10200 J Q | 10300 J Q | 10100 J Q |
| 6020 | 7439-89-6 | Iron | mg/kg | | 18600 | 17600 | 20500 | 18500 | 20000 | 20000 | 15900 |
| 6020 | 7439-92-1 | Lead | mg/kg | | 8.64 | 3.21 | 4.62 | 3.95 | 5.69 | 5.5 | 12.7 |
| 6020 | 7439-93-2 | Lithium | mg/kg | | 25.5 | 25.8 | 21.8 | 13.5 | 19.3 | 17.3 | 17.7 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | | 4440 | 4090 | 4450 | 4600 | 4970 | 4540 | 3380 |
| 6020 | 7439-96-5 | Manganese | mg/kg | | 264 J E | 240 J E | 230 J E | 257 J E | 350 | 261 | 280 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | | 0.361 | 0.296 | 0.649 | 0.434 | 0.579 | 0.359 | 0.53 |
| 6020 | 7440-02-0 | Nickel | mg/kg | | 8.39 | 7.26 | 8.26 | 8.38 | 9.8 | 7.74 | 8.71 |
| 6020 | 7440-09-07 | Potassium | mg/kg | | 4140 | 2790 | 1490 | 1910 | 2270 | 1950 | 3210 |
| 6020 | 7440-22-4 | Silver | mg/kg | | 0.0593 J Z | 0.0962 U | 0.104 U | 0.0966 U | 0.105 U | 0.102 U | 0.113 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | | 68.8 J Z | 70.3 J Z | 72.3 J Z | 149 | 78.0 J Z | 54.4 J Z | 113 U |
| 6020 | 7440-24-6 | Strontium | mg/kg | | 12.1 | 11.2 | 18.4 | 14.3 | 15.2 | 13.7 | 23.8 |
| 6020 | 7440-28-0 | Thallium | mg/kg | | 0.281 | 0.231 | 0.253 | 0.208 | 0.224 | 0.227 | 0.209 |
| 6020 | 7440-31-5 | Tin | mg/kg | | 10.1 U | 9.62 U | 10.4 U | 9.66 U | 10.5 U | 10.2 U | 11.3 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | | 1070 | 940 | 1010 | 866 | 984 | 912 | 733 |
| 6020 | 7440-36-0 | Antimony | mg/kg | | 0.179 J Z | 0.137 J Z | 0.162 J Z | 0.218 | 0.226 | 0.194 J Z | 0.182 J Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | | 3 | 2.71 | 4.08 | 3.31 | 4.15 | 4.66 | 9.94 |
| 6020 | 7440-39-3 | Barium | mg/kg | | 90.5 J Q | 73.7 J Q | 69.0 J Q | 60.9 J Q | 74.4 J Q | 61.0 J Q | 98.2 J Q |
| 6020 | 7440-41-7 | Beryllium | mg/kg | | 0.433 | 0.388 | 0.566 | 0.402 | 0.495 | 0.384 | 0.451 |
| 6020 | 7440-42-8 | Boron | mg/kg | | 5.06 U | 4.81 U | 5.20 U | 4.83 U | 5.26 U | 5.12 U | 5.65 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | | 0.214 | 0.103 | 0.0979 J Z | 0.0991 | 0.148 | 0.104 | 0.227 |
| 6020 | 7440-47-3 | Chromium | mg/kg | | 12.8 | 11.4 | 16.6 | 15.8 | 16.6 | 14.8 | 12 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | | 4.8 | 4.19 | 5.29 | 5.56 | 6.03 | 5.32 | 4.35 |
| 6020 | 7440-50-8 | Copper | mg/kg | | 6.78 | 4.81 | 5.37 | 6.77 | 6.8 | 6.95 | 7.21 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | | 27.4 | 25.6 | 33.4 | 31.3 | 35.1 | 32.5 | 24.5 |
| 6020 | 7440-66-6 | Zinc | mg/kg | | 74.4 | 51.4 | 43.8 | 44.7 | 47.2 | 45 | 49.3 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | | 5.06 UJ Q | 4.81 UJ Q | 5.20 UJ Q | 4.83 UJ Q | 5.26 UJ Q | 5.12 UJ Q | 5.65 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | | 2730 | 3000 | 2520 | 2720 | 2780 | 2360 | 2900 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | | 404 | 310 | 108 | 311 | 286 | 223 | 306 |
| 6020 | 7782-49-2 | Selenium | mg/kg | | 0.405 U | 0.385 U | 0.416 U | 0.481 | 0.284 J Z | 0.205 J Z | 0.452 U |

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

| | | | | Sample Name | SL-028-NBZ-SS-0.0-0.5 | SL-029-NBZ-SS-0.0-0.5 | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 | SL-034-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/02/2012 | 03/15/2012 | 03/14/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 |
| | | | | SDG | 12D004 | 12C135 | 12C121 | 12D018 | 12D018 | 12D018 | 12D018 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | | 8960 J Q | 10100 | 9910 | 9650 J Q | 10500 J Q | 10400 J Q | 9960 J Q |
| 6020 | 7439-89-6 | Iron | mg/kg | | 16300 | 21100 | 31900 | 17300 | 17600 | 16600 | 17200 |
| 6020 | 7439-92-1 | Lead | mg/kg | | 4.36 | 16.1 | 14.7 | 10.9 | 9.34 | 8.16 | 12.7 |
| 6020 | 7439-93-2 | Lithium | mg/kg | | 18.3 | 20.6 | 21.2 | 24 | 23.3 | 28.4 | 23.3 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | | 3340 | 3980 | 4450 | 4040 | 3550 | 3520 | 3630 |
| 6020 | 7439-96-5 | Manganese | mg/kg | | 288 | 245 J E | 256 J E | 251 | 253 | 253 | 269 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | | 0.404 | 0.5 | 0.911 | 0.33 | 0.449 | 0.346 | 0.352 |
| 6020 | 7440-02-0 | Nickel | mg/kg | | 7.64 | 9.98 | 13.1 | 7.77 | 7.24 | 6.74 | 6.83 |
| 6020 | 7440-09-07 | Potassium | mg/kg | | 3310 | 3000 | 2940 | 3370 | 3280 | 2770 | 3420 |
| 6020 | 7440-22-4 | Silver | mg/kg | | 0.107 U | 0.0554 J Z | 0.0616 J Z | 0.108 U | 0.112 U | 0.106 U | 0.117 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | | 107 U | 81.6 J Z | 107 | 108 U | 112 U | 106 U | 117 U |
| 6020 | 7440-24-6 | Strontium | mg/kg | | 16 | 16.2 | 13.8 | 11.9 | 15.5 | 15.5 | 15.9 |
| 6020 | 7440-28-0 | Thallium | mg/kg | | 0.209 | 0.225 | 0.217 | 0.224 | 0.216 | 0.211 | 0.213 |
| 6020 | 7440-31-5 | Tin | mg/kg | | 10.7 U | 10.1 U | 9.83 U | 10.8 U | 11.2 U | 10.6 U | 11.7 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | | 728 | 793 | 790 | 922 | 907 | 872 | 869 |
| 6020 | 7440-36-0 | Antimony | mg/kg | | 0.113 J Z | 0.247 | 0.548 | 0.151 J Z | 0.155 J Z | 0.116 J Z | 0.158 J Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | | 6.72 | 9.24 | 11.9 | 11.4 | 3.24 | 3.63 | 2.87 |
| 6020 | 7440-39-3 | Barium | mg/kg | | 86.6 J Q | 84.9 J Q | 77.6 J Q | 72.8 | 78.9 | 67.9 | 80.8 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | | 0.376 | 0.474 | 0.477 | 0.409 | 0.407 | 0.451 | 0.381 |
| 6020 | 7440-42-8 | Boron | mg/kg | | 5.35 U | 5.06 U | 4.91 U | 5.40 U | 5.60 U | 5.30 U | 5.86 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | | 0.21 | 0.224 | 0.348 | 0.193 | 0.217 | 0.221 | 0.207 |
| 6020 | 7440-47-3 | Chromium | mg/kg | | 11.1 | 13.8 | 18.1 | 12 | 11.2 | 9.87 | 10.2 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | | 4.32 | 6.27 | 10.3 | 4.28 | 4.19 | 4.12 | 4.08 |
| 6020 | 7440-50-8 | Copper | mg/kg | | 5.62 | 9.3 | 19.2 | 5.6 | 5.55 | 5.12 | 5.56 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | | 23.1 | 32.7 | 42.5 | 24.7 | 25.6 | 22.7 | 23.9 |
| 6020 | 7440-66-6 | Zinc | mg/kg | | 43.4 | 57.2 | 66.3 | 51.9 | 52.8 | 48.4 | 55.7 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | | 5.35 UJ Q | 5.06 UJ Q | 4.91 UJ Q | 5.40 UJ Q | 5.60 UJ Q | 5.30 UJ Q | 5.86 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | | 1770 | 3170 | 4020 | 2110 | 2040 | 2380 | 2430 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | | 312 | 342 | 695 | 343 | 332 | 285 | 410 |
| 6020 | 7782-49-2 | Selenium | mg/kg | | 0.428 U | 0.405 U | 0.393 U | 0.432 U | 0.448 U | 0.424 U | 0.469 U |

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

Appendix A13
Metals-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-035-NBZ-SS-0.0-0.5 | SL-035-NBZ-SB-2.0-3.0 | SL-036-NBZ-SB-4.0-5.0 | SL-036-NBZ-SB-7.5-8.5 | SL-037-NBZ-SB-3.0-4.0 | SL-038-NBZ-SS-0.0-0.5 | SL-039-NBZ-SB-2.0-3.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/03/2012 | 04/03/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 |
| | | | | SDG | 12D018 | 12D018 | 12C285 | 12C285 | 12C285 | 12C273 | 12C273 |
| | | | | Start Depth | 0 | 2 | 4 | 7.5 | 3 | 0 | 2 |
| | | | | End Depth | 0.5 | 3 | 5 | 8.5 | 4 | 0.5 | 3 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 10900 J Q | 14400 J Q | 11400 J Q | 12400 J Q | 12900 J Q | 11400 | 11700 |
| 6020 | 7439-89-6 | Iron | mg/kg | 16500 | 18100 | 21100 | 21600 | 17600 | 17200 | 18400 |
| 6020 | 7439-92-1 | Lead | mg/kg | 8.53 | 4.22 | 4.02 | 3.62 | 3.96 | 23.6 | 10.3 |
| 6020 | 7439-93-2 | Lithium | mg/kg | 19.3 | 21.4 | 17.8 | 22.9 | 18.4 | 21.6 | 20.9 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 3560 | 3580 | 3230 | 3700 | 3380 | 4230 | 4310 |
| 6020 | 7439-96-5 | Manganese | mg/kg | 250 | 182 | 81.4 | 111 | 75 | 268 | 221 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 0.438 | 0.436 | 0.478 | 0.486 | 0.194 | 0.769 | 0.506 |
| 6020 | 7440-02-0 | Nickel | mg/kg | 7.46 | 7.03 | 6.02 | 7.28 | 5.86 | 9.85 | 8.3 |
| 6020 | 7440-09-07 | Potassium | mg/kg | 3610 | 2290 | 725 | 1890 | 943 | 2730 | 2690 |
| 6020 | 7440-22-4 | Silver | mg/kg | 0.111 U | 0.105 U | 0.112 U | 0.0648 J Z | 0.0589 J Z | 0.168 | 0.0590 J Z |
| 6020 | 7440-23-5 | Sodium | mg/kg | 111 U | 57.8 J Z | 208 | 170 | 618 | 88.4 J Z | 97.8 J Z |
| 6020 | 7440-24-6 | Strontium | mg/kg | 20.8 | 13.9 | 18.1 | 15.8 | 13.1 | 16.4 | 15 |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.217 | 0.234 | 0.152 | 0.271 | 0.199 | 0.223 | 0.252 |
| 6020 | 7440-31-5 | Tin | mg/kg | 11.1 U | 10.5 U | 11.2 U | 12.8 U | 10.8 U | 11.6 U | 11.4 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | 834 | 873 | 783 | 1050 | 715 | 834 | 880 |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.139 J Z | 0.209 U | 0.223 U | 0.255 U | 0.216 U | 0.434 J Q | 0.184 J Q, Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 8.4 | 7.23 | 2.87 | 1.71 | 2.17 | 4.14 | 4.79 |
| 6020 | 7440-39-3 | Barium | mg/kg | 76.2 | 71.3 | 40.3 | 59.6 | 38.1 | 69.5 | 66.6 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.447 | 0.655 | 0.377 | 0.434 | 0.486 | 0.426 | 0.515 |
| 6020 | 7440-42-8 | Boron | mg/kg | 5.54 U | 5.23 U | 5.58 U | 6.39 U | 2.85 J Z | 5.67 J Z | 5.10 J Z |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.194 | 0.105 | 0.0667 J Z | 0.0731 J Z | 0.108 U | 0.423 | 0.229 |
| 6020 | 7440-47-3 | Chromium | mg/kg | 12 | 11.2 | 13.8 | 14.3 | 14.8 | 14.8 | 14.6 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 4.14 | 4.41 | 2.24 | 2.65 | 2.78 | 5.67 | 4.95 |
| 6020 | 7440-50-8 | Copper | mg/kg | 5.64 | 3.99 | 1.81 | 4.25 | 1.91 | 10.2 | 8.24 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 25.4 | 27.7 | 27.4 | 29.7 | 23.3 | 29.3 | 31.1 |
| 6020 | 7440-66-6 | Zinc | mg/kg | 45.5 | 42.5 | 30.4 | 48 | 26.2 | 74.2 | 60.7 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 5.54 UJ Q | 5.23 UJ Q | 5.58 UJ Q | 6.39 UJ Q | 5.41 UJ Q | 5.80 U | 5.70 U |
| 6020 | 7440-70-2 | Calcium | mg/kg | 2890 | 1650 | 2310 | 2060 | 1410 | 3020 | 2650 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 284 | 141 | 50.1 | 157 | 44.3 | 309 | 292 |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.443 U | 0.418 U | 0.447 U | 0.511 U | 0.433 U | 0.266 J Z | 0.341 J Z |

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

| | | | | Sample Name | SL-040-NBZ-SS-0.0-0.5 | DUP-03-NBZ-QC-032812 | SL-040-NBZ-SB-2.5-3.5 | SL-042-NBZ-SS-0.0-0.5 | SL-043-NBZ-SS-0.0-0.5 | SL-044-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | FD | N | N | N | N |
| | | | | Sample Date | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 |
| | | | | SDG | 12C285 | 12C285 | 12C285 | 12C261 | 12C261 | 12C305 |
| | | | | Start Depth | 0 | 2.5 | 2.5 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 3.5 | 3.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | | 8830 J Q | 8650 J Q | 9610 J Q | 7840 | 8470 | 11800 |
| 6020 | 7439-89-6 | Iron | mg/kg | | 17600 | 17400 | 18000 | 16500 | 17900 | 22700 |
| 6020 | 7439-92-1 | Lead | mg/kg | | 5.63 | 7.45 | 8.02 | 121 | 7.22 | 200 |
| 6020 | 7439-93-2 | Lithium | mg/kg | | 19.6 | 19.3 | 22.6 | 14.7 | 20.6 | 20.6 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | | 3650 | 3710 | 3870 | 3130 | 3970 | 4070 |
| 6020 | 7439-96-5 | Manganese | mg/kg | | 223 | 225 | 252 | 266 | 223 | 387 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | | 0.345 | 0.424 | 0.464 | 1.11 | 0.383 | 2.78 |
| 6020 | 7440-02-0 | Nickel | mg/kg | | 6.45 | 7.47 | 7.63 | 61.4 | 8.18 | 26.2 |
| 6020 | 7440-09-07 | Potassium | mg/kg | | 3190 | 2550 | 2830 | 3520 | 2550 | 2870 |
| 6020 | 7440-22-4 | Silver | mg/kg | | 0.109 U | 0.0639 J FD, Z | 0.104 UJ FD | 0.0653 J Z | 0.0712 J Z | 2.28 |
| 6020 | 7440-23-5 | Sodium | mg/kg | | 109 U | 61.2 J Z | 68.4 J Z | 59.3 J Z | 110 U | 88.1 J Z |
| 6020 | 7440-24-6 | Strontium | mg/kg | | 12.5 | 13.1 | 12.1 | 17.6 | 11.2 | 16.7 |
| 6020 | 7440-28-0 | Thallium | mg/kg | | 0.227 | 0.222 | 0.247 | 0.189 | 0.215 | 0.203 |
| 6020 | 7440-31-5 | Tin | mg/kg | | 10.9 U | 10.4 U | 10.4 U | 11.6 U | 11.0 U | 6.86 J Z |
| 6020 | 7440-32-6 | Titanium | mg/kg | | 848 | 776 | 882 | 736 | 818 | 919 |
| 6020 | 7440-36-0 | Antimony | mg/kg | | 0.146 J Z | 0.213 | 0.193 J Z | 1.43 | 0.197 J Z | 8.25 J Q |
| 6020 | 7440-38-2 | Arsenic | mg/kg | | 3.99 | 3.93 | 4.03 | 3.5 | 4.43 | 4.15 |
| 6020 | 7440-39-3 | Barium | mg/kg | | 63.7 | 63.5 | 60.3 | 91.2 | 55.2 | 90.2 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | | 0.406 | 0.395 | 0.454 | 0.418 | 0.372 | 0.453 |
| 6020 | 7440-42-8 | Boron | mg/kg | | 5.46 U | 5.19 UJ FD | 2.71 J FD, Z | 3.61 J Z | 5.52 U | 4.80 J Z |
| 6020 | 7440-43-9 | Cadmium | mg/kg | | 0.14 | 0.202 | 0.178 | 0.767 | 0.138 | 3.41 |
| 6020 | 7440-47-3 | Chromium | mg/kg | | 11.6 | 13.1 | 13.2 | 35.2 | 14.1 | 34.7 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | | 4.14 | 4.16 | 4.74 | 5.32 | 4.5 | 6.47 |
| 6020 | 7440-50-8 | Copper | mg/kg | | 5.37 | 5.56 | 5.47 | 10.3 | 6.1 | 1740 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | | 25.4 | 26.9 | 27.6 | 28.1 | 30.1 | 33.1 |
| 6020 | 7440-66-6 | Zinc | mg/kg | | 50.7 | 55.4 | 59.4 | 125 | 45 | 1060 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | | 5.46 UJ Q | 5.19 UJ Q | 5.18 UJ Q | 5.82 UJ Q | 5.52 UJ Q | 5.13 U |
| 6020 | 7440-70-2 | Calcium | mg/kg | | 2320 | 2860 | 2560 | 2950 | 1810 | 3700 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | | 309 | 284 | 289 | 331 | 208 | 360 |
| 6020 | 7782-49-2 | Selenium | mg/kg | | 0.437 U | 0.508 J FD | 0.415 UJ FD | 0.466 U | 0.336 J Z | 0.227 J Z |

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

Appendix A13
Metals-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-045-NBZ-SS-0.0-0.5 | SL-045-NBZ-SB-4.0-5.0 | SL-046-NBZ-SS-0.0-0.5 | SL-046-NBZ-SB-4.0-5.0 | SL-047-NBZ-SB-4.0-5.0 | SL-048-NBZ-SS-0.0-0.5 | SL-048-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 03/26/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 |
| | | | | SDG | 12C261 | 12C261 | 12C261 | 12C261 | 12C254 | 12C254 | 12C254 |
| | | | | Start Depth | 0 | 4 | 0 | 4 | 4 | 0 | 4 |
| | | | | End Depth | 0.5 | 5 | 0.5 | 5 | 5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | | 9860 | 11200 | 8620 | 11800 | 10900 | 9310 | 14100 |
| 6020 | 7439-89-6 | Iron | mg/kg | | 16900 | 20000 | 18200 | 22200 | 17100 J E | 16000 J E | 18500 J E |
| 6020 | 7439-92-1 | Lead | mg/kg | | 13.4 | 4.7 | 12.9 | 5.84 | 4.1 | 13.1 | 4.75 |
| 6020 | 7439-93-2 | Lithium | mg/kg | | 17.2 | 25 | 18.5 | 25.7 | 21.6 | 16.2 | 22 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | | 3520 | 4340 | 3790 | 4400 | 4100 | 4170 | 4370 |
| 6020 | 7439-96-5 | Manganese | mg/kg | | 212 | 256 | 290 | 267 | 265 | 264 | 154 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | | 0.929 | 2.35 | 0.705 | 0.975 | 0.508 | 0.786 | 0.924 |
| 6020 | 7440-02-0 | Nickel | mg/kg | | 10.5 | 10.2 | 9.77 | 8.78 | 8.19 | 9.07 | 7.96 |
| 6020 | 7440-09-07 | Potassium | mg/kg | | 3080 | 2030 | 3530 | 1850 | 2550 | 3840 | 1550 |
| 6020 | 7440-22-4 | Silver | mg/kg | | 1.68 | 0.0631 J Z | 0.393 | 0.104 U | 0.0537 J Z | 0.478 | 0.102 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | | 64.6 J Z | 86.0 J Z | 115 U | 208 | 58.6 J Z | 86.3 J Z | 67.8 J Z |
| 6020 | 7440-24-6 | Strontium | mg/kg | | 16.3 | 12.8 | 18.7 | 10.7 | 11.6 | 47.7 | 11.5 |
| 6020 | 7440-28-0 | Thallium | mg/kg | | 0.217 | 0.271 | 0.227 | 0.264 | 0.232 | 0.201 | 0.244 |
| 6020 | 7440-31-5 | Tin | mg/kg | | 10.6 U | 10.1 U | 11.5 U | 10.4 U | 10.1 U | 11.1 U | 10.2 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | | 826 | 889 | 797 | 952 | 796 | 768 | 959 |
| 6020 | 7440-36-0 | Antimony | mg/kg | | 0.358 | 0.163 J Z | 0.255 | 0.154 J Z | 0.137 J Z | 0.311 | 0.149 J Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | | 5.11 | 4.69 | 3.99 | 5.18 | 3.69 | 3.85 | 4.18 |
| 6020 | 7440-39-3 | Barium | mg/kg | | 72.2 | 64.8 | 88.3 | 53.2 | 76 | 111 | 55.3 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | | 0.474 | 0.601 | 0.445 | 0.61 | 0.477 | 0.424 | 0.58 |
| 6020 | 7440-42-8 | Boron | mg/kg | | 5.29 U | 5.06 U | 5.74 U | 2.87 J Z | 5.04 U | 10.7 | 5.08 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | | 0.604 | 0.143 | 0.395 | 0.116 | 0.149 | 0.438 | 0.0998 J Z |
| 6020 | 7440-47-3 | Chromium | mg/kg | | 16.1 | 15.7 | 15.1 | 17.8 | 13.1 | 13 | 15.1 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | | 4.23 | 5.07 | 4.48 | 6.56 | 4.56 | 4.12 | 3.92 |
| 6020 | 7440-50-8 | Copper | mg/kg | | 9.13 | 6.15 | 8.22 | 5.27 | 5.43 | 9.79 | 3.91 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | | 25.5 | 33.3 | 28.6 | 35.8 | 27.5 | 26 | 34.3 |
| 6020 | 7440-66-6 | Zinc | mg/kg | | 71.2 | 46.7 | 65.2 | 42.6 | 45.3 | 78.2 | 38.8 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | | 5.29 UJ Q | 5.06 UJ Q | 5.74 UJ Q | 5.21 UJ Q | 5.04 UJ Q | 5.56 UJ Q | 5.08 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | | 1840 | 1400 | 2540 | 1110 | 1790 | 8360 | 1320 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | | 255 | 171 | 379 | 169 | 253 | 823 | 156 |
| 6020 | 7782-49-2 | Selenium | mg/kg | | 0.423 U | 0.262 J Z | 0.459 U | 0.447 | 0.403 U | 0.444 U | 0.301 J Z |

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

| | | Sample Name | SL-049-NBZ-SB-2.0-3.0 | SL-050-NBZ-SS-0.0-0.5 | SL-051-NBZ-SB-1.5-2.5 | SL-052-NBZ-SS-0.0-0.5 | SL-053-NBZ-SS-0.0-0.5 | SL-053-NBZ-SB-3.5-4.5 | SL-054-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | Sample Type | N | N | N | N | N | N | N |
| | | Sample Date | 03/23/2012 | 03/26/2012 | 03/23/2012 | 03/15/2012 | 03/15/2012 | 03/15/2012 | 03/22/2012 |
| | | SDG | 12C254 | 12C261 | 12C254 | 12C135 | 12C135 | 12C135 | 12C229 |
| | | Start Depth | 2 | 0 | 1.5 | 0 | 0 | 3.5 | 0 |
| | | End Depth | 3 | 0.5 | 2.5 | 0.5 | 0.5 | 4.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 11200 | 8400 | 14800 | 6650 | 7430 | 14500 | 5700 |
| 6020 | 7439-89-6 | Iron | mg/kg | 16200 J E | 16800 | 22200 J E | 11600 | 14900 | 22700 | 14100 J E |
| 6020 | 7439-92-1 | Lead | mg/kg | 3.81 | 9.73 | 6.18 | 14.6 | 15.4 | 5.12 | 17.8 |
| 6020 | 7439-93-2 | Lithium | mg/kg | 22.6 | 17.5 | 27.1 | 13.8 | 15.6 | 34.4 | 10.1 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 3780 | 3490 | 4320 | 6700 | 6000 | 6240 | 9200 |
| 6020 | 7439-96-5 | Manganese | mg/kg | 194 | 245 | 193 | 214 J E | 221 J E | 282 J E | 182 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 0.597 | 0.567 | 0.755 | 0.359 | 0.443 | 0.658 | 0.566 |
| 6020 | 7440-02-0 | Nickel | mg/kg | 7.23 | 9.49 | 9.9 | 7.15 | 11.7 | 12.3 | 10.3 |
| 6020 | 7440-09-07 | Potassium | mg/kg | 1920 | 3340 | 2380 | 2250 | 2820 | 3110 | 2310 |
| 6020 | 7440-22-4 | Silver | mg/kg | 0.101 U | 0.0844 J Z | 0.0964 U | 0.0999 U | 0.0739 J Z | 0.102 U | 0.106 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | 61.2 J Z | 106 U | 81.6 J Z | 54.7 J Z | 49.2 J Z | 77.2 J Z | 106 U |
| 6020 | 7440-24-6 | Strontium | mg/kg | 9.94 | 17.3 | 6.89 | 209 | 176 | 16 | 283 |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.211 | 0.237 | 0.358 | 0.159 | 0.176 | 0.268 | 0.116 |
| 6020 | 7440-31-5 | Tin | mg/kg | 10.1 U | 10.6 U | 9.64 U | 9.99 U | 9.50 U | 10.2 U | 10.6 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | 819 | 756 | 1070 | 565 | 662 | 1140 | 542 |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.141 J Z | 0.174 J Z | 0.211 | 0.817 | 0.67 | 0.205 | 0.768 |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 3.91 | 5.25 | 6.5 | 5.14 | 4.36 | 4.34 | 5.72 |
| 6020 | 7440-39-3 | Barium | mg/kg | 52.2 | 80.7 | 47.1 | 63.8 J Q | 77.6 J Q | 80.2 J Q | 83.5 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.496 | 0.439 | 0.594 | 0.35 | 0.376 | 0.601 | 0.242 |
| 6020 | 7440-42-8 | Boron | mg/kg | 5.06 U | 5.30 U | 4.82 U | 4.11 J Z | 2.60 J Z | 5.12 U | 5.30 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.105 | 0.316 | 0.109 | 0.453 | 0.648 | 0.0896 J Z | 0.462 |
| 6020 | 7440-47-3 | Chromium | mg/kg | 12.5 | 13.4 | 15.5 | 11.3 | 16.1 | 21.7 | 31.6 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 4.15 | 4.5 | 5.43 | 3.31 | 4.06 | 6.69 | 4.35 |
| 6020 | 7440-50-8 | Copper | mg/kg | 4.01 | 7.34 | 7 | 5.87 | 9.58 | 8.55 | 8.75 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 28.3 | 28.6 | 31.1 | 18.2 | 24.6 | 44.2 | 20.2 |
| 6020 | 7440-66-6 | Zinc | mg/kg | 38.1 | 109 | 51.5 | 53.1 | 101 | 54.1 | 56 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 5.06 UJ Q | 5.30 UJ Q | 4.82 UJ Q | 4.99 UJ Q | 4.75 UJ Q | 5.12 UJ Q | 5.30 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | 1230 | 2350 | 755 | 113000 | 92600 | 2430 | 157000 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 185 | 304 | 116 | 276 | 350 | 337 | 381 |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.258 J Z | 0.424 U | 0.423 | 0.400 U | 0.380 U | 0.323 J Z | 0.424 U |

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

Appendix A13
Metals-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-055-NBZ-SS-0.0-0.5 | SL-056-NBZ-SS-0.0-0.5 | SL-056-NBZ-SB-3.0-4.0 | DUP-02-NBZ-QC-032312 | SL-057-NBZ-SS-0.0-0.5 | SL-058-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | FD | N | N |
| | | | | Sample Date | 03/22/2012 | 03/15/2012 | 03/15/2012 | 03/23/2012 | 03/23/2012 | 03/15/2012 |
| | | | | SDG | 12C229 | 12C135 | 12C135 | 12C254 | 12C254 | 12C135 |
| | | | | Start Depth | 0 | 0 | 3 | 0 | 0 | 5 |
| | | | | End Depth | 0.5 | 0.5 | 4 | 0.5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 10300 | 9670 | 13000 | 12400 | 12100 | 13400 | |
| 6020 | 7439-89-6 | Iron | mg/kg | 19600 J E | 22200 | 20700 | 19200 J E | 20100 J E | 19600 | |
| 6020 | 7439-92-1 | Lead | mg/kg | 9.28 | 39.4 | 6.24 | 6.74 | 9.74 | 5.5 | |
| 6020 | 7439-93-2 | Lithium | mg/kg | 23 | 19.9 | 24.1 | 29.9 | 28.8 | 24.3 | |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 4980 | 4210 | 4280 | 5560 | 5370 | 4210 | |
| 6020 | 7439-96-5 | Manganese | mg/kg | 302 | 337 J E | 315 J E | 266 | 280 | 190 J E | |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 0.435 | 0.752 | 0.719 | 0.708 | 0.84 | 0.679 | |
| 6020 | 7440-02-0 | Nickel | mg/kg | 10.5 | 13.8 | 9.88 | 11.4 | 11.8 | 10.3 | |
| 6020 | 7440-09-07 | Potassium | mg/kg | 3740 | 3640 | 2810 | 3410 | 3570 | 2010 | |
| 6020 | 7440-22-4 | Silver | mg/kg | 0.0567 J Z | 0.0963 J Z | 0.0511 J Z | 0.105 U | 0.104 U | 0.0667 J Z | |
| 6020 | 7440-23-5 | Sodium | mg/kg | 55.1 J Z | 54.1 J Z | 65.3 J Z | 54.5 J Z | 57.9 J Z | 69.1 J Z | |
| 6020 | 7440-24-6 | Strontium | mg/kg | 14 | 31.8 | 14.9 | 13.1 | 13.8 | 15.1 | |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.221 | 0.226 | 0.248 | 0.232 | 0.236 | 0.253 | |
| 6020 | 7440-31-5 | Tin | mg/kg | 10.9 U | 10.2 U | 10.1 U | 10.5 U | 10.4 U | 10.5 U | |
| 6020 | 7440-32-6 | Titanium | mg/kg | 973 | 828 | 921 | 937 | 954 | 876 | |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.198 J Z | 0.562 | 0.225 | 0.325 | 0.387 | 0.154 J Z | |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 2.94 | 5.12 | 4.14 | 3.82 | 4.19 | 5.5 | |
| 6020 | 7440-39-3 | Barium | mg/kg | 88.3 | 107 J Q | 79.7 J Q | 84.1 | 92.4 | 82.5 J Q | |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.43 | 0.506 | 0.722 | 0.474 | 0.488 | 0.66 | |
| 6020 | 7440-42-8 | Boron | mg/kg | 5.43 U | 3.44 J Z | 5.07 U | 5.24 U | 5.19 U | 5.26 U | |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.207 | 0.439 | 0.153 | 0.188 | 0.226 | 0.105 | |
| 6020 | 7440-47-3 | Chromium | mg/kg | 16.9 | 21.9 | 16.2 | 18.1 | 19.4 | 18.1 | |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 5.55 | 5.88 | 6.49 | 5.13 | 5.29 | 4.11 | |
| 6020 | 7440-50-8 | Copper | mg/kg | 7.8 | 12.6 | 6.41 | 7.48 | 8.03 | 7.17 | |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 35.5 | 33.4 | 36.1 | 35.5 | 36.1 | 31.7 | |
| 6020 | 7440-66-6 | Zinc | mg/kg | 56.3 | 62.9 | 47.1 | 51 | 53.5 | 47.1 | |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 5.43 UJ Q | 5.09 UJ Q | 5.07 UJ Q | 5.24 UJ Q | 5.19 UJ Q | 5.26 UJ Q | |
| 6020 | 7440-70-2 | Calcium | mg/kg | 3030 | 11100 | 2240 | 2350 | 2450 | 1780 | |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 464 | 453 | 268 | 379 | 399 | 215 | |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.434 U | 0.407 U | 0.405 U | 0.419 U | 0.415 U | 0.421 U | |

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

| | | | | Sample Name | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 | SL-061-NBZ-SB-1.0-2.0 | SL-062-NBZ-SB-2.5-3.5 | SL-063-NBZ-SB-0.5-1.5 | SL-064-NBZ-SB-0.5-1.5 | SL-065-NBZ-SB-1.0-2.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 03/22/2012 | 03/22/2012 | 03/22/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 |
| | | | | SDG | 12C229 | 12C229 | 12C229 | 12C209 | 12C209 | 12C209 | 12C209 |
| | | | | Start Depth | 0 | 0 | 1 | 2.5 | 0.5 | 0.5 | 1 |
| | | | | End Depth | 0.5 | 0.5 | 2 | 3.5 | 1.5 | 1.5 | 2 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 11200 | 9400 | 10400 | 10100 | 10000 | 10100 | 10100 |
| 6020 | 7439-89-6 | Iron | mg/kg | 19500 J E | 24200 J E | 19000 J E | 18900 | 19000 | 19200 | 18700 |
| 6020 | 7439-92-1 | Lead | mg/kg | 6.59 | 38 | 7.13 | 15.6 | 8.51 | 3.79 | 5.47 |
| 6020 | 7439-93-2 | Lithium | mg/kg | 26 | 20.4 | 23 | 22.8 | 24.2 | 26.6 | 22.6 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 5510 | 5560 | 5010 | 4870 | 4950 | 4840 | 4870 |
| 6020 | 7439-96-5 | Manganese | mg/kg | 286 | 291 | 291 | 284 | 266 | 748 | 309 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 0.359 | 1.58 | 0.474 | 0.458 | 0.465 | 0.363 | 0.455 |
| 6020 | 7440-02-0 | Nickel | mg/kg | 10.1 | 15.8 | 10.9 | 11 | 8.88 | 10.9 | 10.5 |
| 6020 | 7440-09-07 | Potassium | mg/kg | 3570 | 3600 | 3590 | 3410 | 3260 | 3220 | 2990 |
| 6020 | 7440-22-4 | Silver | mg/kg | 0.107 U | 0.0766 J Z | 0.105 U | 0.0608 J Z | 0.112 U | 0.102 U | 0.108 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | 57.1 J Z | 104 U | 63.2 J Z | 56.6 J Z | 57.0 J Z | 59.8 J Z | 59.6 J Z |
| 6020 | 7440-24-6 | Strontium | mg/kg | 9.99 | 39.6 | 17.7 | 15 | 11.6 | 10.7 | 10.1 |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.218 | 0.204 | 0.235 | 0.232 | 0.212 | 0.232 | 0.227 |
| 6020 | 7440-31-5 | Tin | mg/kg | 10.7 U | 7.37 J Z | 10.5 U | 10.1 U | 11.2 U | 10.2 U | 10.8 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | 995 | 800 | 889 | 852 | 897 | 1030 | 901 |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.163 J Z | 1.44 | 0.219 | 0.295 | 0.212 J Z | 0.198 J Z | 0.201 J Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 3.03 | 6.88 | 3.84 | 4.01 | 3.25 | 3.46 | 2.91 |
| 6020 | 7440-39-3 | Barium | mg/kg | 72 | 109 | 97.1 | 93 | 73.3 | 107 | 69.7 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.458 | 0.41 | 0.45 | 0.471 | 0.406 | 0.515 | 0.445 |
| 6020 | 7440-42-8 | Boron | mg/kg | 5.34 U | 3.56 J Z | 5.23 U | 5.07 U | 5.58 U | 5.10 U | 5.39 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.15 | 0.653 | 0.233 | 0.282 | 0.274 | 0.18 | 0.147 |
| 6020 | 7440-47-3 | Chromium | mg/kg | 16.3 | 31.7 | 16.7 | 18.2 | 15.7 | 15.9 | 17.4 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 5.51 | 6 | 5.13 | 5.29 | 5.3 | 5.75 | 5.29 |
| 6020 | 7440-50-8 | Copper | mg/kg | 6.98 | 25.8 | 7.34 | 7.73 | 6.7 | 5.69 | 7.12 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 36 | 33 | 32.9 | 33.7 | 34.7 | 35.8 | 35.7 |
| 6020 | 7440-66-6 | Zinc | mg/kg | 52.3 | 84.5 | 54.8 | 52.7 | 48.7 | 48.3 | 46.6 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 5.34 UJ Q | 5.21 UJ Q | 5.23 UJ Q | 5.07 UJ Q | 5.58 UJ Q | 5.10 UJ Q | 5.39 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | 2270 | 15900 | 2660 | 2990 | 2280 | 1950 | 1980 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 379 | 500 | 429 | 394 | 351 | 380 | 326 |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.427 U | 0.417 U | 0.418 U | 0.406 U | 0.446 U | 0.408 U | 0.262 J Z |

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

Appendix A13
Metals-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-066-NBZ-SB-2.0-3.0 | SL-067-NBZ-SB-1.5-2.5 | DUP-01-NBZ-QC-031612 | SL-068-NBZ-SB-2.5-3.5 | SL-069-NBZ-SB-3.0-4.0 | SL-070-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | FD | N | N | N |
| | | | | Sample Date | 03/21/2012 | 03/16/2012 | 03/16/2012 | 03/16/2012 | 03/20/2012 | 03/20/2012 |
| | | | | SDG | 12C209 | 12C156 | 12C156 | 12C156 | 12C182 | 12C182 |
| | | | | Start Depth | 2 | 1.5 | 2.5 | 2.5 | 3 | 0 |
| | | | | End Depth | 3 | 2.5 | 3.5 | 3.5 | 4 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | | 8830 | 11600 | 12600 | 11900 | 11400 | 10900 |
| 6020 | 7439-89-6 | Iron | mg/kg | | 14200 | 19400 | 23100 | 20000 | 17000 | 21700 |
| 6020 | 7439-92-1 | Lead | mg/kg | | 3.03 | 4.29 | 5.28 | 4.58 | 4.79 | 8.06 |
| 6020 | 7439-93-2 | Lithium | mg/kg | | 17.2 | 17.8 | 18.3 | 16.8 | 27.1 | 23.6 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | | 2480 | 4000 | 3880 | 3570 | 3050 | 4900 |
| 6020 | 7439-96-5 | Manganese | mg/kg | | 172 | 141 J E | 148 J E | 163 J E | 217 | 293 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | | 0.285 | 0.522 | 0.762 J FD | 0.434 J FD | 0.448 | 0.517 |
| 6020 | 7440-02-0 | Nickel | mg/kg | | 3.76 | 6.2 | 5.33 | 5.1 | 6.44 | 12 |
| 6020 | 7440-09-07 | Potassium | mg/kg | | 2560 | 1030 | 1510 | 1590 | 2230 | 3690 |
| 6020 | 7440-22-4 | Silver | mg/kg | | 0.0992 U | 0.108 U | 0.106 U | 0.108 U | 0.103 U | 0.153 |
| 6020 | 7440-23-5 | Sodium | mg/kg | | 67.3 J Z | 90.7 J Z | 119 | 105 J Z | 78.7 J Z | 69.3 J Z |
| 6020 | 7440-24-6 | Strontium | mg/kg | | 8.02 | 16.7 | 15.3 | 13.7 | 11.1 | 29.6 |
| 6020 | 7440-28-0 | Thallium | mg/kg | | 0.211 | 0.209 | 0.229 | 0.348 | 0.213 | 0.273 |
| 6020 | 7440-31-5 | Tin | mg/kg | | 9.92 U | 10.8 U | 10.6 U | 10.8 U | 10.3 U | 11.1 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | | 881 | 904 | 900 | 832 | 816 | 906 |
| 6020 | 7440-36-0 | Antimony | mg/kg | | 0.198 U | 0.148 J Z | 0.261 J FD | 0.145 J FD, Z | 0.138 J Z | 0.439 |
| 6020 | 7440-38-2 | Arsenic | mg/kg | | 3.22 | 3.65 | 10.7 J FD | 5.87 J FD | 3.55 | 5.87 |
| 6020 | 7440-39-3 | Barium | mg/kg | | 45.1 | 54.7 J Q | 55.5 J Q | 53.8 J Q | 77.9 | 137 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | | 0.383 | 0.462 | 0.598 | 0.647 | 0.523 | 0.572 |
| 6020 | 7440-42-8 | Boron | mg/kg | | 4.96 U | 5.39 U | 5.31 U | 5.42 U | 5.14 U | 5.54 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | | 0.0992 U | 0.0633 J Z | 0.227 J FD | 0.0747 J FD, Z | 0.0901 J Z | 0.234 |
| 6020 | 7440-47-3 | Chromium | mg/kg | | 7.19 | 16.3 | 13.8 | 12.4 | 10.1 | 18.7 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | | 2.73 | 3.93 | 4.69 | 4.42 | 3.88 | 6.14 |
| 6020 | 7440-50-8 | Copper | mg/kg | | 2.34 | 3.62 | 3.61 | 3.85 | 3.82 | 10.8 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | | 15.8 | 35.6 | 33.8 | 30.5 | 22.9 | 37 |
| 6020 | 7440-66-6 | Zinc | mg/kg | | 40.2 | 31.8 | 40 | 38.8 | 46.6 | 80 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | | 4.96 UJ Q | 5.39 UJ Q | 5.31 UJ Q | 5.42 UJ Q | 5.14 UJ Q | 5.54 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | | 954 | 1830 | 1670 | 1530 | 1170 | 2980 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | | 147 | 89.3 | 114 | 130 | 143 | 344 |
| 6020 | 7782-49-2 | Selenium | mg/kg | | 0.397 U | 0.431 U | 0.225 J FD, Z | 0.434 UJ FD | 0.411 U | 0.443 U |

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

| | | | | Sample Name | SL-071-NBZ-SB-4.0-5.0 | SL-072-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-9.0-10.0 | SL-074-NBZ-SB-0.5-1.5 | SL-075-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/19/2012 | 03/16/2012 | 03/19/2012 | 03/19/2012 | 03/19/2012 | 03/20/2012 |
| | | | | SDG | 12C164 | 12C156 | 12C164 | 12C164 | 12C164 | 12C182 |
| | | | | Start Depth | 4 | 4 | 4 | 9 | 0.5 | 0 |
| | | | | End Depth | 5 | 5 | 5 | 10 | 1.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 11300 | 13700 | 11200 | 11800 | 11600 | 8810 |
| 6020 | 7439-89-6 | Iron | mg/kg | 19000 | 20000 | 20500 | 20600 | 20300 | 18500 |
| 6020 | 7439-92-1 | Lead | mg/kg | 3.81 | 5.13 | 4.52 | 4.22 | 3.97 | 6.71 |
| 6020 | 7439-93-2 | Lithium | mg/kg | 17.4 | 18.7 | 22.3 | 20.3 | 17.8 | 22.4 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 4350 | 4800 | 4430 | 4920 | 4890 | 4320 |
| 6020 | 7439-96-5 | Manganese | mg/kg | 256 | 170 J E | 182 | 266 | 232 | 251 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 0.665 | 0.672 | 0.451 | 0.489 | 0.386 | 0.347 |
| 6020 | 7440-02-0 | Nickel | mg/kg | 6.88 | 7.3 | 8.87 | 9.15 | 7.96 | 8.17 |
| 6020 | 7440-09-07 | Potassium | mg/kg | 2400 | 1480 | 3110 | 2410 | 2720 | 3010 |
| 6020 | 7440-22-4 | Silver | mg/kg | 0.104 U | 0.111 U | 0.104 U | 0.109 U | 0.101 U | 0.108 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | 172 | 125 | 83.8 J Z | 143 | 74.8 J Z | 69.0 J Z |
| 6020 | 7440-24-6 | Strontium | mg/kg | 17.1 | 16.6 | 14.8 | 13.9 | 14.8 | 13 |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.233 | 0.26 | 0.263 | 0.233 | 0.263 | 0.231 |
| 6020 | 7440-31-5 | Tin | mg/kg | 10.4 U | 11.1 U | 10.4 U | 10.9 U | 10.1 U | 10.8 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | 995 | 1160 | 1020 | 1050 | 1160 | 1000 |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.215 | 0.181 J Z | 0.178 J Z | 0.212 J Z | 0.267 | 0.249 |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 3.68 | 4.08 | 4.32 | 4.06 | 3.71 | 4.64 |
| 6020 | 7440-39-3 | Barium | mg/kg | 58.5 | 63.0 J Q | 85.1 | 80.1 | 73.8 | 73.6 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.556 | 0.658 | 0.547 | 0.536 | 0.471 | 0.45 |
| 6020 | 7440-42-8 | Boron | mg/kg | 5.18 U | 5.55 U | 5.21 U | 5.45 U | 5.04 U | 5.40 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.101 J Z | 0.0966 J Z | 0.167 | 0.152 | 0.0968 J Z | 0.22 |
| 6020 | 7440-47-3 | Chromium | mg/kg | 14.8 | 17.1 | 15.7 | 18.8 | 17.1 | 14.6 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 4.9 | 5.96 | 3.89 | 6.11 | 5.72 | 5.01 |
| 6020 | 7440-50-8 | Copper | mg/kg | 5.8 | 5.11 | 6.61 | 7.26 | 7.04 | 6.92 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 30.8 | 36.6 | 33 | 36.3 | 37 | 29.9 |
| 6020 | 7440-66-6 | Zinc | mg/kg | 48.7 | 42 | 49.4 | 47.8 | 48.6 | 56.2 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 5.18 UJ Q | 5.55 UJ Q | 5.21 UJ Q | 5.45 UJ Q | 5.04 UJ Q | 5.40 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | 2090 | 1200 | 1690 | 1890 | 1620 | 2440 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 289 | 110 | 294 | 345 | 198 | 332 |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.414 U | 0.444 U | 0.417 U | 0.436 U | 0.403 U | 0.432 U |

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

Appendix A13
Metals-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-076-NBZ-SS-0.0-0.5 | SL-077-NBZ-SS-0.0-0.5 | SL-077-NBZ-SB-2.5-3.5 | SL-078-NBZ-SS-0.0-0.5 | SL-079-NBZ-SS-0.0-0.5 | SL-080-NBZ-SS-0.0-0.5 | SL-081-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/27/2012 | 03/30/2012 | 04/20/2012 | 04/18/2012 |
| | | | | SDG | 12C182 | 12C182 | 12C182 | 12C273 | 12C321 | 12D192 | 12D166 |
| | | | | Start Depth | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | | 11000 | 9320 | 21700 | 10900 | 9600 J Q | 8740 | 8520 |
| 6020 | 7439-89-6 | Iron | mg/kg | | 20700 | 18500 | 34200 | 18100 | 18800 | 16500 | 15700 |
| 6020 | 7439-92-1 | Lead | mg/kg | | 9.8 | 15 | 8.71 | 8.25 | 7.08 | 9.40 J Q | 11.7 |
| 6020 | 7439-93-2 | Lithium | mg/kg | | 22.6 | 19.9 | 36.7 | 24.6 | 23.4 | 19.3 | 21 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | | 4600 | 4270 | 7560 | 5400 | 5470 | 4720 | 3500 |
| 6020 | 7439-96-5 | Manganese | mg/kg | | 283 | 286 | 280 | 272 | 259 | 234 | 250 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | | 0.608 | 0.478 | 1.56 | 0.306 | 0.318 | 0.391 | 0.449 |
| 6020 | 7440-02-0 | Nickel | mg/kg | | 10.8 | 9.93 | 15 | 8.84 | 9.43 | 8.2 | 7.47 |
| 6020 | 7440-09-07 | Potassium | mg/kg | | 3520 | 3720 | 3110 | 3140 | 2600 | 2880 | 3240 |
| 6020 | 7440-22-4 | Silver | mg/kg | | 0.0616 J Z | 0.0597 J Z | 0.105 U | 0.111 U | 0.115 U | 0.115 U | 0.117 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | | 91.6 J Z | 62.5 J Z | 183 | 111 U | 115 U | 59.0 J Z | 117 U |
| 6020 | 7440-24-6 | Strontium | mg/kg | | 16.4 | 16.4 | 20.1 | 9.39 | 7.89 | 15.6 | 29.7 |
| 6020 | 7440-28-0 | Thallium | mg/kg | | 0.249 | 0.213 | 0.372 | 0.22 | 0.218 | 0.187 | 0.202 |
| 6020 | 7440-31-5 | Tin | mg/kg | | 11.1 U | 11.2 U | 10.5 U | 11.1 U | 11.5 U | 11.5 U | 11.7 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | | 994 | 921 | 1730 | 855 | 979 | 857 | 684 |
| 6020 | 7440-36-0 | Antimony | mg/kg | | 0.281 | 0.255 | 0.319 | 0.119 J Q, Z | 0.169 J Z | 0.192 J Q, Z | 0.166 J Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | | 5.24 | 4.07 | 10 | 3.27 | 3.08 | 2.86 | 4.01 |
| 6020 | 7440-39-3 | Barium | mg/kg | | 94.9 | 93.6 | 161 | 71.2 | 67.6 | 70.3 J Q | 79.2 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | | 0.554 | 0.435 | 0.942 | 0.388 | 0.371 | 0.358 | 0.437 |
| 6020 | 7440-42-8 | Boron | mg/kg | | 5.56 U | 5.59 U | 5.27 U | 5.56 U | 5.75 U | 2.95 J Z | 4.98 J Z |
| 6020 | 7440-43-9 | Cadmium | mg/kg | | 0.241 | 0.268 | 0.163 | 0.192 | 0.146 | 0.185 | 0.228 |
| 6020 | 7440-47-3 | Chromium | mg/kg | | 17.1 | 15.7 | 29.5 | 13.8 | 16.6 | 13 | 9.77 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | | 5.69 | 5.17 | 9.1 | 4.56 | 5.35 | 4.28 | 4.08 |
| 6020 | 7440-50-8 | Copper | mg/kg | | 8.29 | 7.85 | 13.7 | 6.49 | 6.93 | 5.94 | 7.48 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | | 34.4 | 30.5 | 55.4 | 29.3 | 35.4 | 30.8 | 22 |
| 6020 | 7440-66-6 | Zinc | mg/kg | | 58.1 | 58.8 | 70.7 | 52.1 | 48.1 | 50.2 | 54.7 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | | 5.56 UJ Q | 5.59 UJ Q | 5.27 UJ Q | 5.56 U | 5.75 UJ Q | 5.73 UJ Q | 5.83 U |
| 6020 | 7440-70-2 | Calcium | mg/kg | | 2550 | 2820 | 3100 | 2960 | 2410 | 3700 | 5070 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | | 311 | 379 | 627 | 520 | 316 | 377 | 469 |
| 6020 | 7782-49-2 | Selenium | mg/kg | | 0.445 U | 0.447 U | 0.336 J Z | 0.445 U | 0.460 U | 0.458 U | 0.467 U |

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

| | | | | Sample Name | SL-082-NBZ-SS-0.0-0.5 | SL-082-NBZ-SB-2.5-3.5 | SL-083-NBZ-SS-0.0-0.5 | SL-084-NBZ-SS-0.0-0.5 | SL-085-NBZ-SS-0.0-0.5 | SL-086-NBZ-SS-0.0-0.5 | SL-087-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/18/2012 | 04/18/2012 | 04/18/2012 | 04/10/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 |
| | | | | SDG | 12D166 | 12D166 | 12D166 | 12D092 | 12D092 | 12D176 | 12D176 |
| | | | | Start Depth | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 10800 | 15700 | 11000 | 10500 | 11400 | 11500 | 9220 | |
| 6020 | 7439-89-6 | Iron | mg/kg | 17800 | 19600 | 18300 | 18500 | 17200 | 19400 | 16500 | |
| 6020 | 7439-92-1 | Lead | mg/kg | 9.15 | 5.97 | 6.24 | 13.3 | 10.4 | 15.3 | 9.62 | |
| 6020 | 7439-93-2 | Lithium | mg/kg | 25.9 | 29.7 | 26.2 | 23 | 19.6 | 26.2 | 20.2 | |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 3880 | 3830 | 4190 | 4360 | 4260 | 4890 | 3910 | |
| 6020 | 7439-96-5 | Manganese | mg/kg | 291 | 220 | 279 | 293 | 281 | 262 | 231 | |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 0.552 | 0.93 | 0.453 | 0.404 | 0.501 | 0.432 | 0.256 | |
| 6020 | 7440-02-0 | Nickel | mg/kg | 10.2 | 10.2 | 10.4 | 9.04 | 9.35 | 10.5 | 7.64 | |
| 6020 | 7440-09-07 | Potassium | mg/kg | 3650 | 2230 | 3930 | 3600 | 3410 | 4280 | 3350 | |
| 6020 | 7440-22-4 | Silver | mg/kg | 1.39 | 0.0947 J Z | 0.0876 J Z | 0.0730 J Z | 0.114 U | 0.0736 J Z | 0.123 U | |
| 6020 | 7440-23-5 | Sodium | mg/kg | 68.3 J Z | 87.8 J Z | 114 U | 82.8 J Z | 86.8 J Z | 90.1 J Z | 70.7 J Z | |
| 6020 | 7440-24-6 | Strontium | mg/kg | 15.8 | 14.6 | 15.2 | 20.5 | 21.4 | 17.4 | 12.5 | |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.248 | 0.249 | 0.242 | 0.245 | 0.234 | 0.264 | 0.237 | |
| 6020 | 7440-31-5 | Tin | mg/kg | 11.1 U | 11.3 U | 11.4 U | 11.7 U | 11.4 U | 12.8 U | 12.3 U | |
| 6020 | 7440-32-6 | Titanium | mg/kg | 811 | 844 | 883 | 891 | 795 | 991 | 814 | |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.173 J Z | 0.146 J Z | 0.120 J Z | 0.326 | 0.219 J Z | 0.229 J Q, Z | 0.133 J Q, Z | |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 8.72 | 11.6 | 16.4 | 10.9 | 4.28 | 21.6 | 18.2 | |
| 6020 | 7440-39-3 | Barium | mg/kg | 92 | 73.8 | 112 | 98.9 | 98.1 | 88.7 | 68.7 | |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.481 | 0.731 | 0.505 | 0.367 | 0.423 | 0.447 | 0.368 | |
| 6020 | 7440-42-8 | Boron | mg/kg | 5.57 U | 5.66 U | 5.72 U | 5.84 U | 5.71 U | 6.40 U | 6.16 U | |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.239 | 0.146 | 0.296 | 0.258 | 0.271 | 0.252 | 0.167 | |
| 6020 | 7440-47-3 | Chromium | mg/kg | 17 | 16.5 | 15.2 | 12 | 14 | 16.7 | 11.9 | |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 4.91 | 5.16 | 5 | 5.06 | 4.86 | 5.27 | 4.44 | |
| 6020 | 7440-50-8 | Copper | mg/kg | 8.16 | 5.85 | 8.03 | 8.04 | 8.28 | 8.31 | 5.74 | |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 30.6 | 34.7 | 30.7 | 27.4 | 29.2 | 32.3 | 25.6 | |
| 6020 | 7440-66-6 | Zinc | mg/kg | 58.5 | 44.5 | 63.2 | 69.5 | 56.9 | 62.5 | 49.9 | |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 5.57 U | 5.66 U | 5.72 U | 5.84 UJ Q | 5.71 UJ Q | 6.40 UJ Q | 6.16 UJ Q | |
| 6020 | 7440-70-2 | Calcium | mg/kg | 2300 | 2010 | 2540 | 3640 | 3530 | 3220 | 2600 | |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 305 | 280 | 450 | 570 | 486 | 440 | 333 | |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.445 U | 0.227 J Z | 0.458 U | 0.286 J Z | 0.457 U | 0.512 U | 0.493 U | |

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

Appendix A13
Metals-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-088-NBZ-SS-0.0-0.5 | SL-089-NBZ-SS-0.0-0.5 | SL-090-NBZ-SS-0.0-0.5 | SL-091-NBZ-SS-0.0-0.5 | SL-091-NBZ-SB-4.0-5.0 | DUP-05-NBZ-QC-032912 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | FD |
| | | | | Sample Date | 04/17/2012 | 04/20/2012 | 04/17/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 |
| | | | | SDG | 12D154 | 12D192 | 12D154 | 12C305 | 12C305 | 12C305 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 4 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 8520 J Q | 8870 | 9610 J Q | 10100 | 25300 | 12400 |
| 6020 | 7439-89-6 | Iron | mg/kg | 14500 | 17700 | 17100 | 16300 | 24000 | 18000 |
| 6020 | 7439-92-1 | Lead | mg/kg | 11.6 | 13.1 J Q | 11.7 | 8.04 | 6.4 | 6.26 |
| 6020 | 7439-93-2 | Lithium | mg/kg | 16.8 | 24.4 | 24 | 24.4 | 59.6 | 30.4 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 3820 | 5420 | 4420 | 3820 | 4410 | 4400 |
| 6020 | 7439-96-5 | Manganese | mg/kg | 252 | 268 | 286 | 261 | 208 | 311 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 0.359 | 0.454 | 0.389 | 0.487 | 2.47 | 0.479 |
| 6020 | 7440-02-0 | Nickel | mg/kg | 8.17 | 10 | 8.6 | 8.75 | 17.1 | 9.57 |
| 6020 | 7440-09-07 | Potassium | mg/kg | 2820 J Q | 3420 | 3470 J Q | 3170 | 1240 | 2950 |
| 6020 | 7440-22-4 | Silver | mg/kg | 0.130 U | 0.112 U | 0.116 U | 0.118 U | 0.0646 J Z | 0.116 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | 84.8 J Z | 112 U | 81.1 J Z | 69.9 J Z | 254 | 79.7 J Z |
| 6020 | 7440-24-6 | Strontium | mg/kg | 24 | 17.2 | 15.6 | 21.8 | 19.7 | 20.2 |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.169 | 0.215 | 0.214 | 0.219 | 0.166 | 0.216 |
| 6020 | 7440-31-5 | Tin | mg/kg | 13.0 U | 11.2 U | 11.6 U | 11.8 U | 11.9 U | 11.6 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | 734 | 881 | 863 | 816 | 915 | 875 |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.200 J Q, Z | 0.254 J Q | 0.173 J Q, Z | 0.182 J Q, Z | 0.300 J Q | 0.158 J Q, Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 8.96 | 3.66 | 3.34 | 3.34 | 6.5 | 4.25 |
| 6020 | 7440-39-3 | Barium | mg/kg | 81.2 J Q | 76.6 J Q | 73.7 J Q | 80.8 | 103 | 84.2 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.328 | 0.345 | 0.376 | 0.427 | 0.886 | 0.466 |
| 6020 | 7440-42-8 | Boron | mg/kg | 6.51 U | 3.38 J Z | 4.52 J Z | 3.05 J Z | 5.93 U | 5.80 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.217 | 0.217 | 0.2 | 0.243 | 0.138 | 0.198 |
| 6020 | 7440-47-3 | Chromium | mg/kg | 11.3 | 14.5 | 12.4 | 13.2 | 24.1 | 16.3 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 4.21 | 5.03 | 4.56 | 4.21 | 10.9 | 4.51 |
| 6020 | 7440-50-8 | Copper | mg/kg | 7.39 | 8.21 | 6.64 | 7.03 | 8.07 | 6.16 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 22.9 | 32.9 | 26.9 | 26.2 | 47.8 | 31.6 |
| 6020 | 7440-66-6 | Zinc | mg/kg | 52.1 | 58 | 53.3 | 61 | 46.4 | 44.4 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 6.51 UJ Q | 5.60 UJ Q | 5.78 UJ Q | 5.90 U | 5.93 U | 5.80 U |
| 6020 | 7440-70-2 | Calcium | mg/kg | 4560 | 5130 | 4080 | 3260 | 2200 | 2730 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 401 J Q | 475 | 369 J Q | 356 | 193 | 300 |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.521 U | 0.448 U | 0.462 U | 0.472 U | 0.284 J Z | 0.464 UJ FD |

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

| | | | | Sample Name | SL-092-NBZ-SS-0.0-0.5 | SL-094-NBZ-SS-0.0-0.5 | SL-095-NBZ-SS-0.0-0.5 | SL-096-NBZ-SS-0.0-0.5 | SL-097-NBZ-SS-0.0-0.5 | SL-099-NBZ-SS-0.0-0.5 | SL-100-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 03/29/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 | 04/04/2012 | 04/04/2012 | 04/04/2012 |
| | | | | SDG | 12C305 | 12C285 | 12C273 | 12C285 | 12D031 | 12D031 | 12D031 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 12400 | 10900 J Q | 9860 | 9330 J Q | 8620 | 12800 | 10700 |
| 6020 | 7439-89-6 | Iron | mg/kg | 17700 | 17600 | 16200 | 18500 | 16300 | 19700 | 19600 |
| 6020 | 7439-92-1 | Lead | mg/kg | 6.38 | 8.45 | 7.24 | 10.7 | 10.1 | 5.69 | 6.45 |
| 6020 | 7439-93-2 | Lithium | mg/kg | 30.1 | 19.4 | 16.8 | 21.1 | 24.5 | 25.9 | 25.5 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 4310 | 3650 | 4240 | 4230 | 3860 | 5750 | 5610 |
| 6020 | 7439-96-5 | Manganese | mg/kg | 294 J E | 350 | 203 | 256 | 270 | 548 | 249 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 0.458 | 0.564 | 0.35 | 0.407 | 0.246 | 0.5 | 0.34 |
| 6020 | 7440-02-0 | Nickel | mg/kg | 9.68 | 10.6 | 7.4 | 10.1 | 5.88 | 12.8 | 9.06 |
| 6020 | 7440-09-07 | Potassium | mg/kg | 2930 | 3780 | 2570 | 2820 | 2780 | 2200 | 2720 |
| 6020 | 7440-22-4 | Silver | mg/kg | 0.114 U | 0.112 U | 0.114 U | 0.115 U | 0.102 U | 0.109 U | 0.108 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | 81.8 J Z | 58.2 J Z | 114 U | 115 U | 102 U | 109 U | 108 U |
| 6020 | 7440-24-6 | Strontium | mg/kg | 20 | 22 | 11.1 | 14.5 | 6.3 | 11.7 | 8.6 |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.212 | 0.244 | 0.205 | 0.204 | 0.212 | 0.226 | 0.228 |
| 6020 | 7440-31-5 | Tin | mg/kg | 11.4 U | 11.2 U | 11.4 U | 11.5 U | 10.2 U | 10.9 U | 10.8 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | 858 | 875 | 799 | 825 | 809 | 1040 | 1000 |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.215 J Q, Z | 0.193 J Z | 0.158 J Q, Z | 0.221 J Z | 0.110 J Z | 0.187 J Z | 0.145 J Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 4.1 | 3.5 | 3.64 | 3.86 | 3.49 | 3.79 | 3.72 |
| 6020 | 7440-39-3 | Barium | mg/kg | 83.6 J Q, E | 116 | 65 | 78.4 | 63.2 | 87.5 | 62.9 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.457 | 0.542 | 0.345 | 0.426 | 0.371 | 0.542 | 0.403 |
| 6020 | 7440-42-8 | Boron | mg/kg | 5.69 U | 5.59 U | 5.68 U | 5.76 U | 5.10 U | 5.45 U | 5.42 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.215 | 0.28 | 0.163 | 0.166 | 0.15 | 0.165 | 0.135 |
| 6020 | 7440-47-3 | Chromium | mg/kg | 16.3 | 14.9 | 14 | 15.5 | 8.46 | 19 | 15.7 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 4.36 | 5.01 | 3.75 | 5.16 | 4.15 | 6.11 | 5.13 |
| 6020 | 7440-50-8 | Copper | mg/kg | 6.33 | 7.14 | 5.47 | 8.03 | 4.23 | 7.19 | 5.82 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 31.3 | 29.3 | 27.5 | 29.6 | 21.5 | 39.8 | 33.6 |
| 6020 | 7440-66-6 | Zinc | mg/kg | 43.7 | 48.5 | 47.8 | 52 | 50.4 | 49.2 | 49.2 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 5.69 UJ Q | 5.59 UJ Q | 5.68 U | 5.76 UJ Q | 5.10 UJ Q | 5.45 UJ Q | 5.42 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | 2690 | 2000 | 1910 | 2760 | 3280 | 2380 | 2490 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 283 | 273 | 286 | 302 | 371 | 301 | 318 |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.228 J FD, Z | 0.447 U | 0.454 U | 0.461 U | 0.408 U | 0.436 U | 0.433 U |

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

Appendix A13
Metals-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-101-NBZ-SS-0.0-0.5 | SL-102-NBZ-SS-0.0-0.5 | SL-103-NBZ-SS-0.0-0.5 | SL-104-NBZ-SS-0.0-0.5 | SL-105-NBZ-SS-0.0-0.5 | SL-107-NBZ-SS-0.0-0.5 | SL-108-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 03/29/2012 | 03/27/2012 | 03/29/2012 | 04/04/2012 | 03/21/2012 | 04/02/2012 | 04/03/2012 |
| | | | | SDG | 12C305 | 12C273 | 12C305 | 12D031 | 12C209 | 12D004 | 12D018 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | | 11900 | 13200 | 9970 | 10900 | 10900 | 7740 J Q | 9050 J Q |
| 6020 | 7439-89-6 | Iron | mg/kg | | 20400 | 20000 | 18000 | 17300 | 20000 | 16200 | 16400 |
| 6020 | 7439-92-1 | Lead | mg/kg | | 17.7 | 7.74 | 10.3 | 11.2 | 6.25 | 11 | 6.42 |
| 6020 | 7439-93-2 | Lithium | mg/kg | | 25.7 | 25.4 | 21.4 | 22.5 | 23.9 | 23.6 | 21.2 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | | 6640 | 5930 | 5050 | 4340 | 5360 | 3800 | 3790 |
| 6020 | 7439-96-5 | Manganese | mg/kg | | 287 | 284 | 247 | 281 | 292 | 223 | 242 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | | 0.447 | 0.465 | 0.381 | 0.455 | 0.461 | 0.264 | 0.168 |
| 6020 | 7440-02-0 | Nickel | mg/kg | | 21.8 | 10.8 | 8.97 | 8.85 | 9.82 | 6.3 | 4.62 |
| 6020 | 7440-09-07 | Potassium | mg/kg | | 3870 | 3100 | 3590 | 3480 | 3520 | 3020 | 2400 |
| 6020 | 7440-22-4 | Silver | mg/kg | | 0.112 U | 0.114 U | 0.112 U | 0.105 U | 0.106 U | 0.110 U | 0.106 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | | 61.2 J Z | 65.9 J Z | 112 U | 105 U | 65.2 J Z | 110 U | 106 U |
| 6020 | 7440-24-6 | Strontium | mg/kg | | 18.2 | 14.3 | 11.4 | 15 | 14.6 | 8.01 | 8.96 |
| 6020 | 7440-28-0 | Thallium | mg/kg | | 0.223 | 0.227 | 0.203 | 0.216 | 0.231 | 0.193 | 0.192 |
| 6020 | 7440-31-5 | Tin | mg/kg | | 11.2 U | 11.4 U | 11.2 U | 10.5 U | 10.6 U | 11.0 U | 10.6 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | | 1110 | 1030 | 994 | 866 | 956 | 822 | 734 |
| 6020 | 7440-36-0 | Antimony | mg/kg | | 0.245 J Q | 0.164 J Q, Z | 0.196 J Q, Z | 0.146 J Z | 0.189 J Z | 0.142 J Z | 0.212 U |
| 6020 | 7440-38-2 | Arsenic | mg/kg | | 3.16 | 2.8 | 3 | 3.16 | 3 | 2.41 | 3.72 |
| 6020 | 7440-39-3 | Barium | mg/kg | | 111 | 86.7 | 69.2 | 91.2 | 82.9 | 65.2 J Q | 61.1 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | | 0.402 | 0.458 | 0.359 | 0.415 | 0.456 | 0.306 | 0.387 |
| 6020 | 7440-42-8 | Boron | mg/kg | | 5.60 U | 5.68 U | 5.62 U | 5.23 U | 5.30 U | 5.49 U | 5.30 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | | 0.262 | 0.224 | 0.171 | 0.24 | 0.178 | 0.175 | 0.158 |
| 6020 | 7440-47-3 | Chromium | mg/kg | | 29.5 | 18 | 15.8 | 12.4 | 16.7 | 10.3 | 8.39 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | | 5.86 | 5.31 | 4.62 | 4.62 | 5.62 | 3.6 | 3.73 |
| 6020 | 7440-50-8 | Copper | mg/kg | | 9.62 | 7.75 | 6.66 | 6.07 | 6.89 | 4.53 | 3.64 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | | 40.7 | 37.6 | 34.1 | 27.1 | 35.5 | 21.8 | 21.4 |
| 6020 | 7440-66-6 | Zinc | mg/kg | | 62.2 | 53.8 | 49.6 | 51.8 | 49.6 | 57.7 | 45.3 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | | 5.60 U | 5.68 U | 5.62 U | 5.23 UJ Q | 5.30 UJ Q | 5.49 UJ Q | 5.30 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | | 3590 | 2290 | 2890 | 1970 | 2860 | 2140 | 2660 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | | 485 | 399 | 358 | 417 | 391 | 349 | 314 |
| 6020 | 7782-49-2 | Selenium | mg/kg | | 0.448 U | 0.455 U | 0.450 U | 0.418 U | 0.424 U | 0.439 U | 0.424 U |

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

| | | | Sample Name | SL-109-NBZ-SS-0.0-0.5 | SL-110-NBZ-SS-0.0-0.5 | SL-111-NBZ-SS-0.0-0.5 | SL-112-NBZ-SS-0.0-0.5 | SL-113-NBZ-SS-0.0-0.5 | SL-114-NBZ-SS-0.0-0.5 | SL-115-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/27/2012 | 04/04/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/04/2012 | 04/03/2012 |
| | | | SDG | 12C273 | 12D031 | 12D004 | 12D004 | 12D004 | 12D031 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 15500 | 8700 | 8730 J Q | 9540 J Q | 8810 J Q | 10100 | 11400 J Q |
| 6020 | 7439-89-6 | Iron | mg/kg | 20400 | 14600 | 16300 | 18200 | 16500 | 15800 | 20400 |
| 6020 | 7439-92-1 | Lead | mg/kg | 7.13 | 9.1 | 18.2 | 6.47 | 7.05 | 5.67 | 11 |
| 6020 | 7439-93-2 | Lithium | mg/kg | 23.5 | 21.5 | 21.5 | 23.5 | 21.2 | 24 | 28.2 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 5180 | 3700 | 3720 | 4260 | 3280 | 3960 | 6210 |
| 6020 | 7439-96-5 | Manganese | mg/kg | 248 | 230 | 269 | 255 | 233 | 221 | 291 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 0.622 | 0.355 | 0.5 | 0.398 | 0.318 | 0.292 | 0.426 |
| 6020 | 7440-02-0 | Nickel | mg/kg | 11.3 | 6.48 | 7.91 | 7.44 | 6.5 | 5.58 | 11.1 |
| 6020 | 7440-09-07 | Potassium | mg/kg | 3120 | 3040 | 3070 | 3220 | 3870 | 2870 | 3040 |
| 6020 | 7440-22-4 | Silver | mg/kg | 0.199 | 0.104 U | 0.122 U | 0.108 U | 0.109 U | 0.104 U | 0.109 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | 76.0 J Z | 104 U | 122 U | 108 U | 109 U | 104 U | 61.5 J Z |
| 6020 | 7440-24-6 | Strontium | mg/kg | 22.7 | 14.5 | 15.2 | 10.3 | 11 | 8.48 | 11.2 |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.248 | 0.194 | 0.205 | 0.22 | 0.225 | 0.199 | 0.231 |
| 6020 | 7440-31-5 | Tin | mg/kg | 11.0 U | 10.4 U | 12.2 U | 10.8 U | 10.9 U | 10.4 U | 10.9 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | 1010 | 773 | 837 | 899 | 899 | 812 | 1030 |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.246 J Q | 0.119 J Z | 0.223 J Z | 0.162 J Z | 0.123 J Z | 0.208 U | 0.192 J Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 4.38 | 3.72 | 2.64 | 3.23 | 3.36 | 3.02 | 3.21 |
| 6020 | 7440-39-3 | Barium | mg/kg | 120 | 77.1 | 79.5 J Q | 71.9 J Q | 75.2 J Q | 57.3 | 91.6 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.575 | 0.319 | 0.364 | 0.409 | 0.387 | 0.382 | 0.437 |
| 6020 | 7440-42-8 | Boron | mg/kg | 5.52 U | 5.18 U | 6.09 U | 5.41 U | 5.47 U | 5.21 U | 5.43 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.215 | 0.179 | 0.267 | 0.173 | 0.146 | 0.108 | 0.276 |
| 6020 | 7440-47-3 | Chromium | mg/kg | 18.3 | 9.21 | 10.7 | 12.3 | 10.3 | 8.56 | 18.8 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 5.47 | 3.56 | 3.99 | 4.27 | 3.75 | 3.7 | 5.6 |
| 6020 | 7440-50-8 | Copper | mg/kg | 8.69 | 4.87 | 6.27 | 5.15 | 4.84 | 3.93 | 7.6 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 36.7 | 21.5 | 23.1 | 27.6 | 20.9 | 22.5 | 37.5 |
| 6020 | 7440-66-6 | Zinc | mg/kg | 52.8 | 48.2 | 59.2 | 53.6 | 54.3 | 47.5 | 57.4 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 5.52 U | 5.18 UJ Q | 6.09 UJ Q | 5.41 UJ Q | 5.47 UJ Q | 5.21 UJ Q | 5.43 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | 3050 | 2310 | 2510 | 1940 | 1590 | 1570 | 2540 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 271 | 346 | 447 | 316 | 327 | 338 | 431 |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.441 U | 0.414 U | 0.487 U | 0.433 U | 0.438 U | 0.417 U | 0.434 U |

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

Appendix A13
Metals-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-116-NBZ-SS-0.0-0.5 | DUP-04-NBZ-QC-032912 | SL-118-NBZ-SS-0.0-0.5 | SL-119-NBZ-SS-0.0-0.5 | SL-120-NBZ-SS-0.0-0.5 | SL-121-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | FD | N | N | N | N |
| | | | | Sample Date | 03/22/2012 | 03/29/2012 | 03/29/2012 | 03/27/2012 | 04/04/2012 | 03/30/2012 |
| | | | | SDG | 12C229 | 12C305 | 12C305 | 12C273 | 12D031 | 12C321 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 11300 | 11300 | 11000 | 11800 | 12600 | 10100 J Q |
| 6020 | 7439-89-6 | Iron | mg/kg | 25900 J E | 19100 | 19300 | 20300 | 19400 | 18800 |
| 6020 | 7439-92-1 | Lead | mg/kg | 9.03 | 9.09 | 10.2 | 5.55 | 8.05 | 5.31 |
| 6020 | 7439-93-2 | Lithium | mg/kg | 27.7 | 25.4 | 25.7 | 25.7 | 26.3 | 18.7 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 4670 | 5680 | 5680 | 6770 | 5530 | 5720 |
| 6020 | 7439-96-5 | Manganese | mg/kg | 306 | 247 | 255 | 265 | 294 | 249 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 1.7 | 0.376 | 0.398 | 0.36 | 0.483 | 0.337 |
| 6020 | 7440-02-0 | Nickel | mg/kg | 10.6 | 10.9 | 10.8 | 10.1 | 10.9 | 9.67 |
| 6020 | 7440-09-07 | Potassium | mg/kg | 3140 | 2850 | 3130 | 3040 | 2940 | 2110 |
| 6020 | 7440-22-4 | Silver | mg/kg | 0.0549 J Z | 0.110 U | 0.105 U | 0.112 U | 0.106 U | 0.107 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | 60.2 J Z | 56.0 J Z | 55.8 J Z | 112 U | 106 U | 107 U |
| 6020 | 7440-24-6 | Strontium | mg/kg | 14.9 | 11.8 | 13.6 | 9.33 | 12.9 | 9.74 |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.336 | 0.23 | 0.232 | 0.222 | 0.225 | 0.201 |
| 6020 | 7440-31-5 | Tin | mg/kg | 11.0 U | 11.0 U | 10.5 U | 11.2 U | 10.6 U | 10.7 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | 976 | 1040 | 1040 | 1060 | 1020 | 1010 |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.427 | 0.199 J Q, Z | 0.226 J Q | 0.134 J Q, Z | 0.186 J Z | 0.183 J Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 14.8 | 4.36 | 4.1 | 4.05 | 3.37 | 3.09 |
| 6020 | 7440-39-3 | Barium | mg/kg | 72.7 | 72.2 | 78 | 71.4 | 85.6 | 63.4 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.547 | 0.399 | 0.395 | 0.379 | 0.474 | 0.412 |
| 6020 | 7440-42-8 | Boron | mg/kg | 5.48 U | 5.48 U | 5.23 U | 5.62 U | 5.32 U | 5.36 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.206 | 0.201 | 0.213 | 0.146 | 0.229 | 0.131 |
| 6020 | 7440-47-3 | Chromium | mg/kg | 18.1 | 17.8 | 17 | 17.9 | 16.8 | 16.4 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 5.42 | 4.96 | 4.97 | 5.14 | 5.39 | 5.26 |
| 6020 | 7440-50-8 | Copper | mg/kg | 8.16 | 7.81 | 7.96 | 7.22 | 6.69 | 6.71 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 49.5 | 38.6 | 37.4 | 38.8 | 35.8 | 35.4 |
| 6020 | 7440-66-6 | Zinc | mg/kg | 55.5 | 51.6 | 54.8 | 49.8 | 48.7 | 46.2 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 5.48 UJ Q | 5.48 U | 5.23 U | 5.62 U | 5.32 UJ Q | 5.36 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | 2310 | 2580 | 2930 | 2080 | 1920 | 2420 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 439 | 349 | 458 J Q | 337 | 300 | 314 |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.291 J Z | 0.438 U | 0.418 U | 0.450 U | 0.426 U | 0.367 J Z |

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

| | | | | Sample Name | SL-122-NBZ-SS-0.0-0.5 | SL-123-NBZ-SS-0.0-0.5 | SL-124-NBZ-SS-0.0-0.5 | SL-126-NBZ-SS-0.0-0.5 | SL-127-NBZ-SS-0.0-0.5 | SL-129-NBZ-SS-0.0-0.5 | SL-130-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/03/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 | 04/03/2012 | 03/27/2012 | 03/27/2012 |
| | | | | SDG | 12D018 | 12C261 | 12C261 | 12C261 | 12D018 | 12C273 | 12C273 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | | 10600 J Q | 9540 | 13000 | 9380 | 10400 J Q | 12300 | 11300 |
| 6020 | 7439-89-6 | Iron | mg/kg | | 20500 | 17500 | 28400 | 19300 | 17600 | 17500 | 19700 |
| 6020 | 7439-92-1 | Lead | mg/kg | | 8 | 8.41 | 13.2 | 19.9 | 6.05 | 21.9 | 8.48 |
| 6020 | 7439-93-2 | Lithium | mg/kg | | 23.5 | 22.1 | 36.1 | 25.6 | 26 | 19.6 | 26.7 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | | 5820 | 3260 | 7400 | 5770 | 4250 | 4340 | 6810 |
| 6020 | 7439-96-5 | Manganese | mg/kg | | 272 | 279 | 638 | 290 | 308 | 300 | 274 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | | 0.395 | 0.56 | 0.674 | 0.403 | 0.241 | 0.633 | 0.267 |
| 6020 | 7440-02-0 | Nickel | mg/kg | | 9.54 | 7.78 | 15.5 | 11 | 5.83 | 10 | 10.7 |
| 6020 | 7440-09-07 | Potassium | mg/kg | | 2730 | 3470 | 3280 | 2930 | 3120 | 3870 | 2990 |
| 6020 | 7440-22-4 | Silver | mg/kg | | 0.113 U | 0.109 U | 0.131 U | 0.120 U | 0.104 U | 0.612 | 0.119 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | | 113 U | 58.9 J Z | 82.0 J Z | 120 U | 104 U | 120 U | 119 U |
| 6020 | 7440-24-6 | Strontium | mg/kg | | 10.1 | 18.6 | 11.9 | 8.99 | 8.08 | 33.5 | 9.36 |
| 6020 | 7440-28-0 | Thallium | mg/kg | | 0.214 | 0.227 | 0.354 | 0.212 | 0.233 | 0.218 | 0.214 |
| 6020 | 7440-31-5 | Tin | mg/kg | | 11.3 U | 10.9 U | 13.1 U | 12.0 U | 10.4 U | 12.0 U | 11.9 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | | 1010 | 806 | 1300 | 897 | 828 | 868 | 1020 |
| 6020 | 7440-36-0 | Antimony | mg/kg | | 0.158 J Z | 0.159 J Z | 0.291 | 0.215 J Z | 0.207 U | 0.239 J Q | 0.138 J Q, Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | | 3.29 | 2.99 | 6.27 | 3.12 | 4.16 | 3.74 | 3.31 |
| 6020 | 7440-39-3 | Barium | mg/kg | | 72.3 | 94.3 | 99.5 | 77 | 71.5 | 126 | 71.8 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | | 0.381 | 0.526 | 0.687 | 0.346 | 0.497 | 0.452 | 0.344 |
| 6020 | 7440-42-8 | Boron | mg/kg | | 5.66 U | 5.43 U | 6.56 U | 6.00 U | 5.18 U | 4.21 J Z | 5.96 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | | 0.195 | 0.219 | 0.287 | 0.238 | 0.207 | 0.465 | 0.201 |
| 6020 | 7440-47-3 | Chromium | mg/kg | | 16.5 | 11 | 23.3 | 16.3 | 9.32 | 14.9 | 17.5 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | | 5.19 | 4.21 | 7.97 | 5.09 | 4.31 | 5.1 | 5.17 |
| 6020 | 7440-50-8 | Copper | mg/kg | | 6.66 | 6.18 | 13.1 | 8.05 | 4.61 | 9.22 | 6.9 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | | 37.3 | 23.9 | 46.2 | 35.5 | 23.4 | 29.7 | 35.3 |
| 6020 | 7440-66-6 | Zinc | mg/kg | | 48.7 | 51.1 | 76.5 | 61 | 50.4 | 90.7 | 54.9 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | | 5.66 UJ Q | 5.43 UJ Q | 6.56 UJ Q | 6.00 UJ Q | 5.18 UJ Q | 5.98 U | 5.96 U |
| 6020 | 7440-70-2 | Calcium | mg/kg | | 2360 | 1990 | 3440 | 3220 | 3110 | 6760 | 2770 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | | 367 | 343 | 648 | 450 | 331 | 549 | 429 |
| 6020 | 7782-49-2 | Selenium | mg/kg | | 0.453 U | 0.434 U | 0.525 U | 0.480 U | 0.414 U | 0.478 U | 0.477 U |

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

Appendix A13
Metals-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-131-NBZ-SS-0.0-0.5 | SL-133-NBZ-SS-0.0-0.5 | SL-134-NBZ-SS-0.0-0.5 | SL-135-NBZ-SS-0.0-0.5 | SL-136-NBZ-SS-0.0-0.5 | SL-138-NBZ-SS-0.0-0.5 | SL-139-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 03/29/2012 | 03/26/2012 | 03/30/2012 | 03/28/2012 | 03/28/2012 | 04/02/2012 | 03/28/2012 |
| | | | | SDG | 12C305 | 12C261 | 12C321 | 12C285 | 12C285 | 12D004 | 12C285 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | | 9740 | 9800 | 9340 J Q | 13400 J Q | 8090 J Q | 9490 J Q | 9870 J Q |
| 6020 | 7439-89-6 | Iron | mg/kg | | 20500 | 18400 | 18600 | 23800 | 14800 | 17200 | 17600 |
| 6020 | 7439-92-1 | Lead | mg/kg | | 4.32 | 12.7 | 9.81 | 11.2 | 8.56 | 6.42 | 15.2 |
| 6020 | 7439-93-2 | Lithium | mg/kg | | 25.8 | 20.7 | 23.5 | 28.9 | 19.4 | 20.4 | 19.3 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | | 6150 | 5380 | 5520 | 5640 | 2750 | 3600 | 4040 |
| 6020 | 7439-96-5 | Manganese | mg/kg | | 293 | 281 | 272 | 326 | 171 | 219 | 371 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | | 0.354 | 0.414 | 0.369 | 0.627 | 0.273 | 0.398 | 0.454 |
| 6020 | 7440-02-0 | Nickel | mg/kg | | 10.3 | 10.2 | 9.82 | 16.4 | 4.03 | 5.86 | 10.3 |
| 6020 | 7440-09-07 | Potassium | mg/kg | | 3140 | 3610 | 3120 | 3360 | 3030 | 2810 | 3670 |
| 6020 | 7440-22-4 | Silver | mg/kg | | 0.108 U | 0.109 U | 0.107 U | 0.0666 J Z | 0.107 U | 0.110 U | 0.118 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | | 108 U | 109 U | 107 U | 72.5 J Z | 62.1 J Z | 110 U | 118 U |
| 6020 | 7440-24-6 | Strontium | mg/kg | | 6.88 | 17.2 | 9.27 | 23.3 | 11.1 | 14 | 19.8 |
| 6020 | 7440-28-0 | Thallium | mg/kg | | 0.225 | 0.223 | 0.198 | 0.284 | 0.212 | 0.216 | 0.203 |
| 6020 | 7440-31-5 | Tin | mg/kg | | 10.8 U | 10.9 U | 10.7 U | 11.5 U | 10.7 U | 11.0 U | 11.8 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | | 1010 | 870 | 1010 | 1110 | 923 | 886 | 886 |
| 6020 | 7440-36-0 | Antimony | mg/kg | | 0.190 J Z | 0.26 | 0.173 J Z | 0.293 | 0.213 U | 0.174 J Z | 0.205 J Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | | 3.05 | 3.93 | 2.85 | 5.92 | 2.09 | 2.76 | 2.78 |
| 6020 | 7440-39-3 | Barium | mg/kg | | 71.6 | 90.4 | 77.7 | 120 | 58 | 65.6 J Q | 119 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | | 0.372 | 0.423 | 0.352 | 0.645 | 0.32 | 0.36 | 0.389 |
| 6020 | 7440-42-8 | Boron | mg/kg | | 5.41 U | 2.80 J Z | 5.37 U | 5.73 U | 5.33 U | 5.48 U | 5.88 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | | 0.166 | 0.216 | 0.175 | 0.218 | 0.0848 J Z | 0.102 J Z | 0.266 |
| 6020 | 7440-47-3 | Chromium | mg/kg | | 17.5 | 15.6 | 16.3 | 23.8 | 6.29 | 9.9 | 15.2 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | | 5.48 | 5.11 | 5.18 | 6.66 | 2.58 | 3.37 | 4.59 |
| 6020 | 7440-50-8 | Copper | mg/kg | | 7.14 | 8.03 | 7.22 | 13.3 | 3.08 | 4.21 | 8.66 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | | 37.4 | 33.6 | 35.4 | 44.3 | 16.8 | 23.2 | 29.5 |
| 6020 | 7440-66-6 | Zinc | mg/kg | | 50.1 | 57.3 | 51.3 | 67.9 | 50.5 | 47.7 | 66.4 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | | 5.41 UJ Q | 5.46 UJ Q | 5.37 UJ Q | 5.73 UJ Q | 5.33 UJ Q | 5.48 UJ Q | 5.88 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | | 2440 | 4180 | 3180 | 3460 | 1450 | 1690 | 3290 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | | 384 | 556 | 398 | 368 | 168 | 209 | 594 |
| 6020 | 7782-49-2 | Selenium | mg/kg | | 0.433 U | 0.437 U | 0.430 U | 0.280 J Z | 0.426 U | 0.438 U | 0.471 U |

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

| | | | | Sample Name | SL-140-NBZ-SS-0.0-0.5 | SL-141-NBZ-SS-0.0-0.5 | SL-143-NBZ-SS-0.0-0.5 | SL-144-NBZ-SS-0.0-0.5 | SL-145-NBZ-SS-0.0-0.5 | SL-146-NBZ-SS-0.0-0.5 | SL-147-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/03/2012 | 03/28/2012 | 03/28/2012 | 04/12/2012 | 04/11/2012 | 04/18/2012 | 04/17/2012 |
| | | | | SDG | 12D018 | 12C285 | 12C285 | 12D122 | 12D106 | 12D166 | 12D154 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 12200 J Q | 11400 J Q | 10600 J Q | 13200 | 20200 | 8140 | 11000 J Q |
| 6020 | 7439-89-6 | Iron | mg/kg | 21000 | 18300 | 20700 | 23700 | 30100 | 15100 | 20300 |
| 6020 | 7439-92-1 | Lead | mg/kg | 12.2 | 7.62 | 5.09 | 9.9 | 14.1 | 9.29 | 10.5 |
| 6020 | 7439-93-2 | Lithium | mg/kg | 26.4 | 23.3 | 26.7 | 24.2 | 32.6 | 22.2 | 26 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 6050 | 4540 | 6170 | 5420 | 6650 | 3550 | 4300 |
| 6020 | 7439-96-5 | Manganese | mg/kg | 293 | 234 | 260 | 338 | 387 | 285 | 270 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 0.547 | 0.366 | 0.275 | 0.651 | 0.686 | 0.344 | 0.433 |
| 6020 | 7440-02-0 | Nickel | mg/kg | 10.8 | 10.5 | 10 | 11.5 | 19.2 | 6.15 | 9.41 |
| 6020 | 7440-09-07 | Potassium | mg/kg | 2740 | 2000 | 3320 | 3030 | 6090 | 2940 | 3570 J Q |
| 6020 | 7440-22-4 | Silver | mg/kg | 0.111 U | 0.111 U | 0.104 U | 0.115 U | 0.0947 J Z | 0.114 U | 0.112 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | 65.3 J Z | 72.0 J Z | 53.4 J Z | 71.0 J Z | 126 U | 114 U | 67.1 J Z |
| 6020 | 7440-24-6 | Strontium | mg/kg | 10.4 | 12.8 | 10.5 | 16.1 | 32.5 | 12.8 | 13.9 |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.242 | 0.202 | 0.228 | 0.302 | 0.417 | 0.214 | 0.249 |
| 6020 | 7440-31-5 | Tin | mg/kg | 11.1 U | 11.1 U | 10.4 U | 11.5 U | 12.6 U | 11.4 U | 11.2 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | 1100 | 883 | 1240 | 1010 | 1040 | 742 | 770 |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.216 J Z | 0.130 J Z | 0.171 J Z | 0.23 | 0.257 | 0.116 J Z | 0.174 J Q, Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 3.23 | 3.42 | 3.72 | 6.1 | 11.5 | 3.72 | 4.96 |
| 6020 | 7440-39-3 | Barium | mg/kg | 77.2 | 77.6 | 87.3 | 106 J Q | 149 J Q | 76.1 | 78.3 J Q |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.429 | 0.471 | 0.415 | 0.596 | 0.945 | 0.31 | 0.487 |
| 6020 | 7440-42-8 | Boron | mg/kg | 5.55 U | 5.56 U | 5.22 U | 5.73 U | 4.24 J Z | 5.69 U | 3.38 J Z |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.23 | 0.0938 J Z | 0.162 | 0.21 | 0.316 | 0.161 | 0.194 |
| 6020 | 7440-47-3 | Chromium | mg/kg | 18.8 | 16.9 | 17.8 | 18.7 | 25 | 9.07 | 13.4 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 5.54 | 4.79 | 6.05 | 7.16 | 9.25 | 3.61 | 5.7 |
| 6020 | 7440-50-8 | Copper | mg/kg | 7.19 | 6.61 | 34.4 | 10.5 | 15.7 | 4.54 | 8.25 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 39 | 30.3 | 36.3 | 36.4 | 48.3 | 21.6 | 29.2 |
| 6020 | 7440-66-6 | Zinc | mg/kg | 54.6 | 45.9 | 54.9 | 65 | 85.1 | 49.9 | 62.5 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 5.55 UJ Q | 5.56 UJ Q | 5.22 UJ Q | 5.73 UJ Q | 6.28 UJ Q | 5.69 U | 5.61 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | 2070 | 1990 | 2230 | 3610 | 5300 | 2790 | 3920 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 454 | 286 | 455 | 484 | 523 | 300 | 403 J Q |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.444 U | 0.444 U | 0.417 U | 0.464 | 0.365 J Z | 0.455 U | 0.259 J Z |

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

Appendix A13
Metals-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-148-NBZ-SS-0.0-0.5 | SL-149-NBZ-SS-0.0-0.5 | SL-150-NBZ-SS-0.0-0.5 | SL-151-NBZ-SS-0.0-0.5 | SL-152-NBZ-SS-0.0-0.5 | SL-154-NBZ-SS-0.0-0.5 | SL-155-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/11/2012 | 04/05/2012 | 04/19/2012 | 04/09/2012 | 04/12/2012 | 04/11/2012 | 04/04/2012 |
| | | | | SDG | 12D106 | 12D048 | 12D176 | 12D084 | 12D122 | 12D106 | 12D031 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | | 21600 | 11500 | 10600 | 19700 | 10600 | 12900 | 10000 |
| 6020 | 7439-89-6 | Iron | mg/kg | | 33500 | 15900 | 17900 | 33900 | 17400 | 19600 | 16100 |
| 6020 | 7439-92-1 | Lead | mg/kg | | 15 | 7.16 | 16.4 | 17.3 | 12.4 | 12.3 | 6.99 |
| 6020 | 7439-93-2 | Lithium | mg/kg | | 38.6 | 25.8 | 24.9 | 49.3 | 15.6 | 26.1 | 19 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | | 7530 | 3740 | 4010 | 7880 | 3900 | 5200 | 3660 |
| 6020 | 7439-96-5 | Manganese | mg/kg | | 361 | 262 | 287 | 423 | 202 | 287 | 278 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | | 0.672 | 0.466 | 0.522 | 0.577 | 0.792 | 0.586 | 0.374 |
| 6020 | 7440-02-0 | Nickel | mg/kg | | 18.8 | 7.51 | 7.88 | 21.5 | 7.89 | 9.72 | 8.41 |
| 6020 | 7440-09-07 | Potassium | mg/kg | | 4630 | 2590 | 3120 | 4730 | 2900 | 2840 | 3500 |
| 6020 | 7440-22-4 | Silver | mg/kg | | 0.0914 J Z | 0.106 U | 0.112 U | 0.132 | 0.117 U | 0.128 U | 0.105 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | | 77.4 J Z | 106 U | 83.9 J Z | 83.2 J Z | 117 U | 67.2 J Z | 105 U |
| 6020 | 7440-24-6 | Strontium | mg/kg | | 25.8 | 14.1 | 14.3 | 20.1 | 20.3 | 17 | 18.2 |
| 6020 | 7440-28-0 | Thallium | mg/kg | | 0.446 | 0.2 | 0.227 | 0.459 | 0.193 | 0.244 | 0.214 |
| 6020 | 7440-31-5 | Tin | mg/kg | | 12.2 U | 10.6 U | 11.2 U | 10.7 U | 11.7 U | 12.8 U | 10.5 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | | 907 | 778 | 864 | 942 | 657 | 979 | 763 |
| 6020 | 7440-36-0 | Antimony | mg/kg | | 0.301 | 0.138 J Z | 0.202 J Q, Z | 0.289 | 0.294 | 0.215 J Z | 0.129 J Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | | 10.9 | 3.14 | 4.45 | 12.7 | 5.54 | 4.34 | 3.88 |
| 6020 | 7440-39-3 | Barium | mg/kg | | 131 J Q | 68.5 | 72.1 | 124 | 68.6 J Q | 88.9 J Q | 83 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | | 1.09 | 0.433 | 0.39 | 1.02 | 0.408 | 0.431 | 0.414 |
| 6020 | 7440-42-8 | Boron | mg/kg | | 3.35 J Z | 5.32 U | 5.60 U | 3.94 J Z | 5.85 U | 6.40 U | 5.23 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | | 0.285 | 0.18 | 0.233 | 0.385 | 0.163 | 0.264 | 0.22 |
| 6020 | 7440-47-3 | Chromium | mg/kg | | 25.9 | 11.3 | 11.3 | 26.6 | 12.1 | 14.2 | 12.1 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | | 10.1 | 4.38 | 4.52 | 13.3 | 5.74 | 4.97 | 4.23 |
| 6020 | 7440-50-8 | Copper | mg/kg | | 18.3 | 5.11 | 6.45 | 21.1 | 6.93 | 6.97 | 7.25 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | | 51.6 | 23.9 | 26.1 | 51 | 27.1 | 30.6 | 24.3 |
| 6020 | 7440-66-6 | Zinc | mg/kg | | 97.1 | 47.8 | 55.8 | 109 | 44.8 | 61.2 | 47.2 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | | 6.08 UJ Q | 5.32 UJ Q | 5.60 UJ Q | 2.89 J Q, Z | 5.85 UJ Q | 6.40 UJ Q | 5.23 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | | 4140 | 1820 | 2330 | 7640 | 2260 | 2340 | 2120 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | | 499 | 306 | 421 | 674 | 345 | 503 | 423 |
| 6020 | 7782-49-2 | Selenium | mg/kg | | 0.350 J Z | 0.426 U | 0.448 U | 0.428 J Z | 0.240 J Z | 0.512 U | 0.419 U |

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

| | | | | Sample Name | SL-156-NBZ-SS-0.0-0.5 | SL-157-NBZ-SS-0.0-0.5 | SL-158-NBZ-SS-0.0-0.5 | SL-159-NBZ-SS-0.0-0.5 | DUP-10-NBZ-QC-041612 | SL-160-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | FD | N |
| | | | | Sample Date | 04/17/2012 | 04/09/2012 | 04/12/2012 | 04/16/2012 | 04/16/2012 | 04/16/2012 |
| | | | | SDG | 12D154 | 12D084 | 12D122 | 12D146 | 12D166 | 12D146 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 19300 J Q | 12200 | 13200 | 11100 J Q | 9610 | 9850 J Q |
| 6020 | 7439-89-6 | Iron | mg/kg | 30000 | 20000 | 26200 | 17500 | 20100 | 19300 |
| 6020 | 7439-92-1 | Lead | mg/kg | 17.8 | 11.9 | 9.44 | 8.45 | 9.49 | 7.04 |
| 6020 | 7439-93-2 | Lithium | mg/kg | 34.3 | 29.4 | 35.1 | 25.1 | 28.6 | 28.2 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 6190 | 4290 | 6370 | 3930 | 4160 | 4150 |
| 6020 | 7439-96-5 | Manganese | mg/kg | 423 | 282 | 216 | 257 | 260 | 254 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 0.766 | 0.485 | 0.395 | 0.485 | 0.359 | 0.352 |
| 6020 | 7440-02-0 | Nickel | mg/kg | 20.8 | 9.87 | 14.3 | 7.16 | 7.36 | 6.55 |
| 6020 | 7440-09-07 | Potassium | mg/kg | 6350 J Q | 3180 | 3360 | 3150 J Q | 2720 | 2460 J Q |
| 6020 | 7440-22-4 | Silver | mg/kg | 0.0895 J Z | 0.107 U | 0.114 U | 0.114 U | 0.109 U | 0.112 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | 63.7 J Z | 55.1 J Z | 69.9 J Z | 63.4 J Z | 109 U | 57.0 J Z |
| 6020 | 7440-24-6 | Strontium | mg/kg | 28.9 | 13.3 | 13.2 | 14.8 | 10.3 | 9.24 |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.404 | 0.251 | 0.31 | 0.211 | 0.253 | 0.224 |
| 6020 | 7440-31-5 | Tin | mg/kg | 11.8 U | 10.7 U | 11.4 U | 11.4 U | 10.9 U | 11.2 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | 933 | 709 | 1150 | 813 | 785 | 780 |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.303 J Q | 0.202 J Z | 0.176 J Z | 0.134 J Q, Z | 0.164 J Z | 0.123 J Q, Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 7.8 | 4.37 | 8.27 | 4.5 | 4.7 | 4.36 |
| 6020 | 7440-39-3 | Barium | mg/kg | 144 J Q | 87.3 | 87.7 J Q | 77.4 J Q | 60.5 | 51.9 J Q |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.871 | 0.513 | 0.575 | 0.388 | 0.494 | 0.424 |
| 6020 | 7440-42-8 | Boron | mg/kg | 4.02 J Z | 5.34 U | 5.70 U | 5.69 U | 5.47 U | 5.58 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.377 | 0.206 | 0.175 | 0.215 | 0.205 | 0.167 |
| 6020 | 7440-47-3 | Chromium | mg/kg | 24.7 | 13.6 | 20.6 | 10.6 | 11.2 | 10.4 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 10 | 5.25 | 6.19 | 4.15 | 4.81 | 4.59 |
| 6020 | 7440-50-8 | Copper | mg/kg | 15.8 | 7.69 | 9.77 | 5.43 | 6.78 | 6.03 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 50 | 29.9 | 38.8 | 24.7 | 25.7 | 23.4 |
| 6020 | 7440-66-6 | Zinc | mg/kg | 93.9 | 59.4 | 69.5 | 48.6 | 59.1 | 57.1 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 5.92 UJ Q | 5.34 UJ Q | 5.70 UJ Q | 5.69 UJ Q | 5.47 U | 5.58 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | 4100 | 2460 | 3380 | 2120 | 2290 | 2340 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 537 J Q | 386 | 356 | 284 J Q | 395 | 326 J Q |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.338 J Z | 0.216 J Z | 0.408 J Z | 0.455 U | 0.887 | 0.687 |

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

Appendix A13
Metals-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-161-NBZ-SS-0.0-0.5 | SL-162-NBZ-SS-0.0-0.5 | SL-163-NBZ-SS-0.0-0.5 | SL-164-NBZ-SS-0.0-0.5 | SL-165-NBZ-SS-0.0-0.5 | SL-166-NBZ-SS-0.0-0.5 | SL-167-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/17/2012 | 04/17/2012 | 04/11/2012 | 04/16/2012 | 04/05/2012 | 04/17/2012 | 04/09/2012 |
| | | | | SDG | 12D154 | 12D154 | 12D106 | 12D146 | 12D048 | 12D154 | 12D084 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 11100 J Q | 8050 J Q | 20800 | 11100 J Q | 11200 | 8200 J Q | 9760 |
| 6020 | 7439-89-6 | Iron | mg/kg | 20900 | 16400 | 30200 | 18200 | 16400 | 15700 | 19000 |
| 6020 | 7439-92-1 | Lead | mg/kg | 10.6 | 9.85 | 11.4 | 6.85 | 6.58 | 14.3 | 12.2 |
| 6020 | 7439-93-2 | Lithium | mg/kg | 25.7 | 25.6 | 32.8 | 27.4 | 24.8 | 24.7 | 27.6 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 4050 | 4000 | 7120 | 4240 | 3820 | 3900 | 3860 |
| 6020 | 7439-96-5 | Manganese | mg/kg | 345 | 251 | 438 | 298 | 301 | 338 | 248 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 0.471 | 0.238 | 0.644 | 0.505 | 0.398 | 0.297 | 0.352 |
| 6020 | 7440-02-0 | Nickel | mg/kg | 9.31 | 5.06 | 18.1 | 7.79 | 6.7 | 6.07 | 7.14 |
| 6020 | 7440-09-07 | Potassium | mg/kg | 3170 J Q | 2830 J Q | 3640 | 3430 J Q | 3390 | 2570 J Q | 2500 |
| 6020 | 7440-22-4 | Silver | mg/kg | 0.111 U | 0.110 U | 0.0936 J Z | 0.118 U | 0.106 U | 0.114 U | 0.107 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | 111 U | 110 U | 96.2 J Z | 67.4 J Z | 106 U | 114 U | 57.3 J Z |
| 6020 | 7440-24-6 | Strontium | mg/kg | 14.1 | 8.9 | 26 | 13.1 | 12.5 | 13.3 | 11.5 |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.275 | 0.182 | 0.426 | 0.235 | 0.222 | 0.174 | 0.237 |
| 6020 | 7440-31-5 | Tin | mg/kg | 11.1 U | 11.0 U | 11.7 U | 11.8 U | 10.6 U | 11.4 U | 10.7 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | 809 | 721 | 1040 | 894 | 843 | 687 | 750 |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.167 J Q, Z | 0.113 J Q, Z | 0.251 | 0.127 J Q, Z | 0.126 J Z | 0.133 J Q, Z | 0.197 J Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 4.76 | 2.27 | 13.8 | 5.08 | 4.02 | 2.46 | 3.99 |
| 6020 | 7440-39-3 | Barium | mg/kg | 87.9 J Q | 55.4 J Q | 148 J Q | 81.3 J Q | 79.6 | 57.5 J Q | 66.7 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.53 | 0.308 | 0.987 | 0.412 | 0.418 | 0.322 | 0.412 |
| 6020 | 7440-42-8 | Boron | mg/kg | 5.57 U | 5.49 U | 5.85 U | 5.91 U | 5.30 U | 5.71 U | 5.34 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.225 | 0.176 | 0.27 | 0.234 | 0.175 | 0.219 | 0.209 |
| 6020 | 7440-47-3 | Chromium | mg/kg | 13.7 | 8.06 | 26.3 | 11.6 | 10.2 | 9 | 10.4 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 5.53 | 3.61 | 9.37 | 4.67 | 4.22 | 4.25 | 4.5 |
| 6020 | 7440-50-8 | Copper | mg/kg | 7.33 | 4.2 | 17.4 | 5.57 | 4.59 | 4.96 | 6.24 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 28.7 | 19.4 | 49.6 | 26.4 | 24.1 | 20.3 | 24.6 |
| 6020 | 7440-66-6 | Zinc | mg/kg | 56.4 | 49.8 | 87.3 | 53.8 | 46.8 | 49.2 | 57.9 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 5.57 UJ Q | 5.49 UJ Q | 5.85 UJ Q | 5.91 UJ Q | 5.30 UJ Q | 5.71 UJ Q | 5.34 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | 2730 | 2370 | 4890 | 2210 | 2180 | 3230 | 2390 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 356 J Q | 356 J Q | 375 | 374 J Q | 321 | 368 J Q | 364 |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.244 J Z | 0.439 U | 0.319 J Z | 0.473 U | 0.424 U | 0.457 U | 0.724 |

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

| | | | | Sample Name | SL-168-NBZ-SS-0.0-0.5 | SL-169-NBZ-SS-0.0-0.5 | SL-170-NBZ-SS-0.0-0.5 | SL-171-NBZ-SS-0.0-0.5 | SL-172-NBZ-SS-0.0-0.5 | DUP-08-NBZ-QC-041612 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | FD |
| | | | | Sample Date | 04/11/2012 | 04/03/2012 | 04/20/2012 | 04/20/2012 | 04/12/2012 | 04/16/2012 |
| | | | | SDG | 12D106 | 12D018 | 12D192 | 12D192 | 12D122 | 12D146 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 10300 | 10800 J Q | 8370 | 10100 | 9090 | 10700 J Q | |
| 6020 | 7439-89-6 | Iron | mg/kg | 16600 | 17200 | 15700 | 18800 | 17400 | 18400 | |
| 6020 | 7439-92-1 | Lead | mg/kg | 5.73 | 9.84 | 7.49 J Q | 6.98 J Q | 8.4 | 12.1 | |
| 6020 | 7439-93-2 | Lithium | mg/kg | 28 | 24 | 26 | 27.3 | 25.5 | 26.5 | |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 3860 | 3880 | 3320 | 5320 | 4080 | 3810 | |
| 6020 | 7439-96-5 | Manganese | mg/kg | 245 | 273 | 229 | 277 | 258 | 268 | |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 0.252 | 0.398 | 0.313 | 0.451 | 0.29 | 0.424 | |
| 6020 | 7440-02-0 | Nickel | mg/kg | 5.31 | 7.97 | 5.57 | 10.4 | 6.74 | 6.9 | |
| 6020 | 7440-09-07 | Potassium | mg/kg | 2640 | 3730 | 3020 | 4040 | 3140 | 3440 J Q | |
| 6020 | 7440-22-4 | Silver | mg/kg | 0.107 U | 0.106 U | 0.110 U | 0.106 U | 0.111 U | 0.117 U | |
| 6020 | 7440-23-5 | Sodium | mg/kg | 107 U | 58.4 J Z | 110 U | 54.7 J Z | 111 U | 62.9 J Z | |
| 6020 | 7440-24-6 | Strontium | mg/kg | 9.2 | 14.3 | 9.87 | 12.4 | 9.2 | 17.6 | |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.22 | 0.24 | 0.192 | 0.24 | 0.215 | 0.228 | |
| 6020 | 7440-31-5 | Tin | mg/kg | 10.7 U | 10.6 U | 11.0 U | 10.6 U | 11.1 U | 11.7 U | |
| 6020 | 7440-32-6 | Titanium | mg/kg | 953 | 882 | 698 | 989 | 820 | 834 | |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.214 U | 0.150 J Z | 0.188 J Q, Z | 0.207 J Q, Z | 0.140 J Z | 0.160 J Q, Z | |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 3.17 | 12.5 | 2.77 | 3.08 | 3.78 | 3.43 | |
| 6020 | 7440-39-3 | Barium | mg/kg | 69.3 J Q | 70.9 | 63.0 J Q | 75.9 J Q | 71.4 J Q | 74.0 J Q | |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.336 | 0.453 | 0.354 | 0.374 | 0.335 | 0.394 | |
| 6020 | 7440-42-8 | Boron | mg/kg | 5.36 U | 5.29 U | 5.48 U | 5.32 U | 5.55 U | 5.87 U | |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.137 | 0.177 | 0.186 | 0.179 | 0.155 | 0.206 | |
| 6020 | 7440-47-3 | Chromium | mg/kg | 9.53 | 12.8 | 8.5 | 15.2 | 10.1 | 10.6 | |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 3.84 | 4.6 | 3.57 | 5.02 | 4.04 | 4.38 | |
| 6020 | 7440-50-8 | Copper | mg/kg | 4.1 | 5.35 | 4.49 | 7.37 | 5.52 | 5.98 | |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 24.4 | 26 | 20.6 | 35.1 | 23.3 | 24.3 | |
| 6020 | 7440-66-6 | Zinc | mg/kg | 51.6 | 47.6 | 49.4 | 53.6 | 53.5 | 56.9 | |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 5.36 UJ Q | 5.29 UJ Q | 5.48 UJ Q | 5.32 UJ Q | 5.55 UJ Q | 5.87 UJ Q | |
| 6020 | 7440-70-2 | Calcium | mg/kg | 1920 | 2970 | 1650 | 2550 | 2840 | 2800 | |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 376 | 298 | 385 | 480 | 409 | 364 J Q | |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.429 U | 0.423 U | 0.439 U | 0.426 U | 0.444 U | 0.284 J Z | |

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

Appendix A13
Metals-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-173-NBZ-SS-0.0-0.5 | SL-174-NBZ-SS-0.0-0.5 | SL-175-NBZ-SS-0.0-0.5 | SL-176-NBZ-SS-0.0-0.5 | SL-177-NBZ-SS-0.0-0.5 | SL-178-NBZ-SS-0.0-0.5 | SL-179-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/16/2012 | 04/09/2012 | 04/05/2012 | 04/11/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 |
| | | | | SDG | 12D146 | 12D084 | 12D048 | 12D106 | 12D092 | 12D176 | 12D176 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 11500 J Q | 12300 | 12200 | 18400 | 9850 | 12400 | 10700 | |
| 6020 | 7439-89-6 | Iron | mg/kg | 19600 | 18700 | 20200 | 34100 | 16400 | 19500 | 17500 | |
| 6020 | 7439-92-1 | Lead | mg/kg | 13.8 | 8.66 | 12.4 | 14.2 | 5.43 | 9.86 | 9.35 | |
| 6020 | 7439-93-2 | Lithium | mg/kg | 28.9 | 27.9 | 32.5 | 53.8 | 27.6 | 26.5 | 24.7 | |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 4110 | 3850 | 5010 | 8730 | 4130 | 4500 | 3760 | |
| 6020 | 7439-96-5 | Manganese | mg/kg | 292 | 262 | 302 | 480 | 220 | 244 | 327 | |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 0.476 | 0.393 | 0.463 | 0.531 | 0.214 | 0.501 | 0.431 | |
| 6020 | 7440-02-0 | Nickel | mg/kg | 7.65 | 6.94 | 8.23 | 20.7 | 6.46 | 9.35 | 8.43 | |
| 6020 | 7440-09-07 | Potassium | mg/kg | 3670 J Q | 3940 | 2960 | 4310 | 3210 | 3330 | 3540 | |
| 6020 | 7440-22-4 | Silver | mg/kg | 0.119 U | 0.109 U | 0.115 U | 0.145 | 0.105 U | 0.111 U | 0.112 U | |
| 6020 | 7440-23-5 | Sodium | mg/kg | 72.2 J Z | 55.7 J Z | 58.2 J Z | 103 J Z | 105 U | 62.0 J Z | 112 U | |
| 6020 | 7440-24-6 | Strontium | mg/kg | 20.3 | 14.7 | 12.3 | 22.2 | 8.67 | 9.93 | 20.6 | |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.247 | 0.273 | 0.239 | 0.43 | 0.221 | 0.27 | 0.234 | |
| 6020 | 7440-31-5 | Tin | mg/kg | 11.9 U | 10.9 U | 11.5 U | 11.7 U | 10.5 U | 11.1 U | 11.2 U | |
| 6020 | 7440-32-6 | Titanium | mg/kg | 900 | 866 | 913 | 927 | 830 | 942 | 787 | |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.206 J Q, Z | 0.156 J Z | 0.156 J Z | 0.229 J Z | 0.211 U | 0.142 J Q, Z | 0.138 J Q, Z | |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 3.9 | 4.45 | 3.97 | 9.11 | 10.1 | 11 | 4.25 | |
| 6020 | 7440-39-3 | Barium | mg/kg | 82.0 J Q | 85.2 | 72.3 | 115 J Q | 61.2 | 68.8 | 81.1 | |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.473 | 0.499 | 0.516 | 0.945 | 0.356 | 0.509 | 0.433 | |
| 6020 | 7440-42-8 | Boron | mg/kg | 5.93 U | 5.46 U | 5.74 U | 5.83 U | 5.26 U | 5.57 U | 5.62 U | |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.226 | 0.18 | 0.21 | 0.379 | 0.123 | 0.134 | 0.236 | |
| 6020 | 7440-47-3 | Chromium | mg/kg | 11.6 | 10.3 | 12.5 | 25.4 | 10.3 | 14.1 | 11.4 | |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 4.87 | 4.69 | 5.48 | 11.1 | 3.93 | 5.85 | 4.57 | |
| 6020 | 7440-50-8 | Copper | mg/kg | 6.69 | 6.08 | 6.65 | 19.8 | 4.65 | 6.58 | 5.87 | |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 26.8 | 26 | 28.5 | 48.2 | 23.5 | 31.1 | 24.8 | |
| 6020 | 7440-66-6 | Zinc | mg/kg | 60.6 | 60.8 | 64.6 | 112 | 47.5 | 51.9 | 52 | |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 5.93 UJ Q | 5.46 UJ Q | 5.74 UJ Q | 4.00 J Q, Z | 5.26 UJ Q | 5.57 UJ Q | 5.62 UJ Q | |
| 6020 | 7440-70-2 | Calcium | mg/kg | 3280 | 2230 | 2190 | 5170 | 1790 | 1480 | 2370 | |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 397 J Q | 319 | 477 | 879 | 327 | 210 | 315 | |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.330 J Z | 0.260 J Z | 0.460 U | 0.256 J Z | 0.421 U | 0.274 J Z | 0.449 U | |

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

| | | | | Sample Name | SL-180-NBZ-SS-0.0-0.5 | SL-181-NBZ-SS-0.0-0.5 | SL-182-NBZ-SS-0.0-0.5 | SL-183-NBZ-SS-0.0-0.5 | SL-184-NBZ-SS-0.0-0.5 | SL-185-NBZ-SS-0.0-0.5 | SL-186-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/13/2012 | 04/04/2012 | 04/11/2012 | 04/13/2012 | 04/19/2012 | 04/09/2012 | 04/10/2012 |
| | | | | SDG | 12D135 | 12D031 | 12D106 | 12D135 | 12D176 | 12D084 | 12D092 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 9460 | 11400 | 12600 | 11000 | 10800 | 15300 | 10500 |
| 6020 | 7439-89-6 | Iron | mg/kg | 17100 | 17600 | 20100 | 18400 | 17700 | 32800 | 17900 |
| 6020 | 7439-92-1 | Lead | mg/kg | 13.7 | 5.72 | 9.78 | 7.33 | 8.41 | 12.5 | 7.43 |
| 6020 | 7439-93-2 | Lithium | mg/kg | 24.8 | 20.3 | 25 | 28.6 | 25.7 | 28.5 | 26.9 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 4020 | 3940 | 4680 | 5180 | 4330 | 5710 | 4850 |
| 6020 | 7439-96-5 | Manganese | mg/kg | 248 | 285 | 343 | 308 | 294 | 354 | 288 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 0.423 | 0.491 | 0.503 | 0.433 | 0.508 | 0.632 | 0.387 |
| 6020 | 7440-02-0 | Nickel | mg/kg | 7.58 | 9.41 | 10 | 9.08 | 9.58 | 15.9 | 9.58 |
| 6020 | 7440-09-07 | Potassium | mg/kg | 3060 | 3810 | 4710 | 3620 | 3960 | 4990 | 3980 |
| 6020 | 7440-22-4 | Silver | mg/kg | 0.119 U | 0.103 U | 0.113 U | 0.114 U | 0.112 U | 0.0913 J Z | 0.108 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | 119 U | 103 U | 113 U | 114 U | 112 U | 61.7 J Z | 108 U |
| 6020 | 7440-24-6 | Strontium | mg/kg | 14.7 | 17.1 | 26.3 | 10.6 | 18 | 21.8 | 11.7 |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.207 | 0.25 | 0.259 | 0.245 | 0.239 | 0.35 | 0.244 |
| 6020 | 7440-31-5 | Tin | mg/kg | 11.9 U | 10.3 U | 11.3 U | 11.4 U | 11.2 U | 11.1 U | 10.8 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | 789 | 843 | 866 | 963 | 843 | 867 | 909 |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.189 J Z | 0.163 J Z | 0.201 J Z | 0.183 J Z | 0.146 J Q, Z | 0.288 | 0.127 J Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 4.41 | 10.1 | 4.51 | 6.15 | 18.4 | 7.33 | 19.9 |
| 6020 | 7440-39-3 | Barium | mg/kg | 59.5 J Q | 92.9 | 134 J Q | 74.6 J Q | 90.3 | 128 | 92.5 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.343 | 0.497 | 0.485 | 0.407 | 0.411 | 0.831 | 0.368 |
| 6020 | 7440-42-8 | Boron | mg/kg | 5.97 U | 5.17 U | 5.64 U | 5.70 U | 5.62 U | 5.57 U | 5.41 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.165 | 0.266 | 0.311 | 0.153 | 0.199 | 0.369 | 0.264 |
| 6020 | 7440-47-3 | Chromium | mg/kg | 11 | 13.9 | 13.3 | 13.7 | 14.4 | 19.6 | 13.8 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 4.26 | 4.77 | 5.47 | 5.07 | 4.79 | 7.78 | 4.94 |
| 6020 | 7440-50-8 | Copper | mg/kg | 6.31 | 7.67 | 8.99 | 6.36 | 6.5 | 13.6 | 7.02 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 24.1 | 27.5 | 29.4 | 30.3 | 28 | 42.7 | 29.2 |
| 6020 | 7440-66-6 | Zinc | mg/kg | 52.6 | 49.8 | 69.5 | 50.7 | 48.1 | 78.3 | 78.6 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 5.97 UJ Q | 5.17 UJ Q | 5.64 UJ Q | 5.70 UJ Q | 5.62 UJ Q | 5.57 UJ Q | 5.41 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | 3210 | 2020 | 4090 | 2330 | 2930 | 4100 | 2670 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 297 | 377 | 651 | 348 | 302 | 727 | 504 |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.477 U | 0.414 U | 0.231 J Z | 0.456 U | 0.449 U | 0.232 J Z | 0.432 U |

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

Appendix A13
Metals-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-187-NBZ-SS-0.0-0.5 | SL-188-NBZ-SS-0.0-0.5 | SL-189-NBZ-SS-0.0-0.5 | SL-190-NBZ-SS-0.0-0.5 | DUP-06-NBZ-QC-040912 | SL-191-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | FD | N |
| | | | | Sample Date | 04/04/2012 | 04/10/2012 | 04/18/2012 | 04/05/2012 | 04/09/2012 | 04/09/2012 |
| | | | | SDG | 12D031 | 12D092 | 12D166 | 12D048 | 12D084 | 12D084 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | | 12100 | 13500 | 11200 | 10000 | 15600 | 18600 |
| 6020 | 7439-89-6 | Iron | mg/kg | | 18200 | 19200 | 18100 | 16200 | 26400 | 27700 |
| 6020 | 7439-92-1 | Lead | mg/kg | | 7.73 | 10.1 | 7.71 | 10.4 | 12 | 14.1 |
| 6020 | 7439-93-2 | Lithium | mg/kg | | 23.6 | 23.6 | 25.7 | 20.7 | 34 | 35.6 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | | 4590 | 4870 | 4360 | 3910 | 6010 | 6580 |
| 6020 | 7439-96-5 | Manganese | mg/kg | | 284 | 324 | 286 | 304 | 286 | 311 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | | 0.562 | 0.51 | 0.567 | 0.357 | 0.622 | 0.622 |
| 6020 | 7440-02-0 | Nickel | mg/kg | | 10.4 | 11.3 | 9.87 | 8.18 | 12.5 | 13.5 |
| 6020 | 7440-09-07 | Potassium | mg/kg | | 3210 | 4530 | 3700 | 3610 | 3060 | 3020 |
| 6020 | 7440-22-4 | Silver | mg/kg | | 0.104 U | 0.0613 J Z | 0.113 U | 0.103 U | 0.0726 J Z | 0.0774 J Z |
| 6020 | 7440-23-5 | Sodium | mg/kg | | 57.9 J Z | 107 U | 113 U | 103 U | 89.7 J Z | 83.6 J Z |
| 6020 | 7440-24-6 | Strontium | mg/kg | | 19.5 | 20.7 | 16.8 | 24 | 17.7 | 22.8 |
| 6020 | 7440-28-0 | Thallium | mg/kg | | 0.235 | 0.295 | 0.239 | 0.198 | 0.397 | 0.348 |
| 6020 | 7440-31-5 | Tin | mg/kg | | 10.4 U | 10.7 U | 11.3 U | 10.3 U | 10.8 U | 10.9 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | | 845 | 940 | 903 | 801 | 924 | 989 |
| 6020 | 7440-36-0 | Antimony | mg/kg | | 0.177 J Z | 0.169 J Z | 0.129 J Z | 0.150 J Z | 0.33 | 0.249 J Q |
| 6020 | 7440-38-2 | Arsenic | mg/kg | | 15.5 | 25.4 | 19.3 | 2.8 | 8.97 | 7.37 |
| 6020 | 7440-39-3 | Barium | mg/kg | | 94.4 | 113 | 98.8 | 122 | 109 | 127 J Q |
| 6020 | 7440-41-7 | Beryllium | mg/kg | | 0.512 | 0.552 | 0.487 | 0.379 | 0.692 | 0.857 |
| 6020 | 7440-42-8 | Boron | mg/kg | | 5.20 U | 5.36 U | 5.67 U | 5.16 U | 5.41 U | 5.47 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | | 0.289 | 0.283 | 0.25 | 0.329 | 0.231 | 0.234 |
| 6020 | 7440-47-3 | Chromium | mg/kg | | 15.7 | 16.7 | 15 | 11.3 | 17.5 | 19.6 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | | 5.1 | 5.6 | 4.99 | 3.96 | 7.19 | 8.26 |
| 6020 | 7440-50-8 | Copper | mg/kg | | 7.5 | 7.56 | 7.14 | 6.75 | 12.7 | 14.4 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | | 31.1 | 33.5 | 30.7 | 22.8 | 38.4 | 41.6 |
| 6020 | 7440-66-6 | Zinc | mg/kg | | 53.5 | 54.4 | 53.8 | 63.7 | 81 | 86.5 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | | 5.20 UJ Q | 5.36 UJ Q | 5.67 U | 5.16 UJ Q | 5.41 UJ Q | 5.47 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | | 2300 | 2690 | 2450 | 3510 | 3830 | 3870 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | | 418 | 403 | 405 | 612 | 495 | 486 |
| 6020 | 7782-49-2 | Selenium | mg/kg | | 0.416 U | 0.218 J Z | 0.454 U | 0.413 U | 0.433 | 0.437 J Z |

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

| | | | | Sample Name | DUP-09-NBZ-QC-041912 | SL-193-NBZ-SS-0.0-0.5 | SL-194-NBZ-SS-0.0-0.5 | SL-195-NBZ-SS-0.0-0.5 | SL-196-NBZ-SS-0.0-0.5 | SL-197-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | FD | N | N | N | N | N |
| | | | | Sample Date | 04/19/2012 | 04/19/2012 | 04/02/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 |
| | | | | SDG | 12D176 | 12D176 | 12D004 | 12C261 | 12C261 | 12C305 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | 10700 | 10100 | 9360 J Q | 9230 | 9990 | 12100 |
| 6020 | 7439-89-6 | Iron | mg/kg | 17400 | 16800 | 16000 | 17200 | 19100 | 19100 |
| 6020 | 7439-92-1 | Lead | mg/kg | 4.2 | 6.82 | 8.9 | 7.31 | 12.2 | 17.9 |
| 6020 | 7439-93-2 | Lithium | mg/kg | 27.2 | 26.4 | 16.6 | 20.3 | 23.4 | 22.3 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | 4130 | 4010 | 3430 | 4790 | 6000 | 5380 |
| 6020 | 7439-96-5 | Manganese | mg/kg | 256 | 260 | 263 | 261 | 271 | 281 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | 0.353 | 0.368 | 0.523 | 0.388 | 0.445 | 0.458 |
| 6020 | 7440-02-0 | Nickel | mg/kg | 7.42 | 7.65 | 8.87 | 9.79 | 9.89 | 12.6 |
| 6020 | 7440-09-07 | Potassium | mg/kg | 3600 | 3440 | 3560 | 3510 | 3500 | 3840 |
| 6020 | 7440-22-4 | Silver | mg/kg | 0.111 U | 0.112 U | 0.0697 J Z | 0.112 U | 0.117 U | 0.115 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | 57.6 J FD, Z | 112 UJ FD | 109 U | 112 U | 117 U | 115 U |
| 6020 | 7440-24-6 | Strontium | mg/kg | 14.3 | 16.6 | 18.4 | 12.4 | 12.6 | 17.8 |
| 6020 | 7440-28-0 | Thallium | mg/kg | 0.237 | 0.223 | 0.203 | 0.202 | 0.216 | 0.215 |
| 6020 | 7440-31-5 | Tin | mg/kg | 11.1 U | 11.2 U | 10.9 U | 11.2 U | 11.7 U | 11.5 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | 868 | 807 | 774 | 824 | 930 | 999 |
| 6020 | 7440-36-0 | Antimony | mg/kg | 0.222 UJ FD, Q | 0.147 J FD, Q, Z | 0.219 | 0.180 J Z | 0.244 | 0.205 J Q, Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | 5.75 | 5.99 | 2.9 | 3.87 | 2.98 | 3.09 |
| 6020 | 7440-39-3 | Barium | mg/kg | 74.7 | 77.5 | 90.6 J Q | 80.7 | 83.2 | 93.5 |
| 6020 | 7440-41-7 | Beryllium | mg/kg | 0.394 | 0.4 | 0.429 | 0.386 | 0.37 | 0.455 |
| 6020 | 7440-42-8 | Boron | mg/kg | 5.56 U | 5.59 U | 5.46 U | 5.61 U | 5.86 U | 5.75 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | 0.202 | 0.212 | 0.269 | 0.212 | 0.247 | 0.273 |
| 6020 | 7440-47-3 | Chromium | mg/kg | 11.3 | 10.7 | 12.8 | 15 | 15.8 | 19 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | 4.26 | 4.31 | 4.36 | 4.72 | 5.06 | 5.34 |
| 6020 | 7440-50-8 | Copper | mg/kg | 5.18 | 5.49 | 6.44 | 7.22 | 7.4 | 8.32 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | 25.7 | 25.1 | 25.6 | 30.7 | 33.1 | 36.8 |
| 6020 | 7440-66-6 | Zinc | mg/kg | 47.2 | 48.2 | 45.3 | 49.9 | 54.8 | 54.8 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | 5.56 UJ Q | 5.59 UJ Q | 5.46 UJ Q | 5.61 UJ Q | 5.86 UJ Q | 5.75 U |
| 6020 | 7440-70-2 | Calcium | mg/kg | 2120 | 2420 | 2100 | 2510 | 2930 | 3080 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | 299 | 311 | 392 | 443 | 493 | 407 |
| 6020 | 7782-49-2 | Selenium | mg/kg | 0.445 U | 0.447 U | 0.437 U | 0.448 U | 0.469 U | 0.460 U |

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

Appendix A13
Metals-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-198-NBZ-SS-0.0-0.5 | SL-199-NBZ-SS-0.0-0.5 | SL-200-NBZ-SS-0.0-0.5 | SL-201-NBZ-SS-0.0-0.5 | SL-202-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N |
| | | | | Sample Date | 04/03/2012 | 04/23/2012 | 04/23/2012 | 04/23/2012 | 04/20/2012 |
| | | | | SDG | 12D018 | 12D197 | 12D197 | 12D197 | 12D192 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 6020 | 7429-90-5 | Aluminum | mg/kg | | 10400 J Q | 11500 | 9700 | 14700 | 11300 |
| 6020 | 7439-89-6 | Iron | mg/kg | | 19500 | 21000 | 17200 | 19800 | 21500 |
| 6020 | 7439-92-1 | Lead | mg/kg | | 5.19 | 8.76 J Q | 7.99 J Q | 28.6 J Q | 5.80 J Q |
| 6020 | 7439-93-2 | Lithium | mg/kg | | 26.3 | 22 | 26.3 | 19.2 | 31.1 |
| 6020 | 7439-95-4 | Magnesium | mg/kg | | 5500 | 6470 | 4320 | 4210 | 5160 |
| 6020 | 7439-96-5 | Manganese | mg/kg | | 273 | 243 | 259 | 255 | 286 |
| 6020 | 7439-98-7 | Molybdenum | mg/kg | | 0.409 | 0.477 | 0.4 | 0.834 | 0.469 |
| 6020 | 7440-02-0 | Nickel | mg/kg | | 9.83 | 22.8 | 7.16 | 10.3 | 11 |
| 6020 | 7440-09-07 | Potassium | mg/kg | | 3330 | 2550 | 3310 | 2760 | 4250 |
| 6020 | 7440-22-4 | Silver | mg/kg | | 0.106 U | 0.107 U | 0.107 U | 0.465 | 0.105 U |
| 6020 | 7440-23-5 | Sodium | mg/kg | | 106 U | 64.1 J Z | 56.4 J Z | 117 U | 105 U |
| 6020 | 7440-24-6 | Strontium | mg/kg | | 8.35 | 11.3 | 10.4 | 18.8 | 15.1 |
| 6020 | 7440-28-0 | Thallium | mg/kg | | 0.236 | 0.229 | 0.216 | 0.226 | 0.257 |
| 6020 | 7440-31-5 | Tin | mg/kg | | 10.6 U | 10.7 U | 10.7 U | 11.7 U | 10.5 U |
| 6020 | 7440-32-6 | Titanium | mg/kg | | 1000 | 1170 | 897 | 967 | 1160 |
| 6020 | 7440-36-0 | Antimony | mg/kg | | 0.208 J Z | 0.278 J Q | 0.131 J Q, Z | 0.438 J Q | 0.170 J Q, Z |
| 6020 | 7440-38-2 | Arsenic | mg/kg | | 3.61 | 4.54 | 2.42 | 4.7 | 4.37 |
| 6020 | 7440-39-3 | Barium | mg/kg | | 68.5 | 63.2 J Q | 79.3 J Q | 96.6 J Q | 104 J Q |
| 6020 | 7440-41-7 | Beryllium | mg/kg | | 0.399 | 0.392 | 0.402 | 0.594 | 0.438 |
| 6020 | 7440-42-8 | Boron | mg/kg | | 5.30 U | 5.34 U | 5.37 U | 5.86 U | 5.25 U |
| 6020 | 7440-43-9 | Cadmium | mg/kg | | 0.177 | 0.14 | 0.191 | 0.395 | 0.173 |
| 6020 | 7440-47-3 | Chromium | mg/kg | | 17.2 | 40.8 | 11.1 | 17 | 18.1 |
| 6020 | 7440-48-4 | Cobalt | mg/kg | | 5.12 | 6.15 | 4.11 | 5.72 | 6.04 |
| 6020 | 7440-50-8 | Copper | mg/kg | | 6.96 | 8.57 | 5.27 | 8.05 | 9.05 |
| 6020 | 7440-62-2 | Vanadium | mg/kg | | 35.7 | 42.9 | 25.1 | 35.2 | 37.3 |
| 6020 | 7440-66-6 | Zinc | mg/kg | | 49 | 52.3 | 60.7 | 77.9 | 103 |
| 6020 | 7440-67-7 | Zirconium | mg/kg | | 5.30 UJ Q | 5.34 UJ Q | 5.37 UJ Q | 5.86 UJ Q | 5.25 UJ Q |
| 6020 | 7440-70-2 | Calcium | mg/kg | | 2420 | 2080 | 1850 | 2940 | 6470 |
| 6020 | 7723-14-0 | Phosphorus | mg/kg | | 385 | 292 | 410 | 254 | 548 |
| 6020 | 7782-49-2 | Selenium | mg/kg | | 0.424 U | 0.253 J Z | 0.429 U | 0.469 U | 0.365 J Z |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-001-NBZ-SS-0.0-0.5 | SL-002-NBZ-SS-0.0-0.5 | SL-002-NBZ-SB-4.0-5.0 | SL-002-NBZ-SB-7.5-8.5 | SL-003-NBZ-SS-0.0-0.5 | SL-003-NBZ-SB-4.0-5.0 | SL-004-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/09/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 04/11/2012 |
| | | | SDG | DX168 | DE296 | DE296 | DE296 | DE296 | DE296 | DX168 |
| | | | Start Depth | 0 | 0 | 4 | 7.5 | 0 | 4 | 0 |
| | | | End Depth | 0.5 | 0.5 | 5 | 8.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 11.2 | 3.4 | 7 | 8.2 | 4.6 | 5.9 | 19.2 |

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

Appendix A14
Moisture Content-Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-005-NBZ-SB-4.0-5.0 | SL-006-NBZ-SB-3.0-4.0 | SL-007-NBZ-SB-4.0-5.0 | SL-007-NBZ-SB-9.0-10.0 | SL-008-NBZ-SB-4.0-5.0 | DUP-07-NBZ-QC-041012 | SL-009-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | FD | N |
| | | | Sample Date | 03/13/2012 | 03/13/2012 | 03/12/2012 | 03/12/2012 | 04/18/2012 | 04/10/2012 | 04/10/2012 |
| | | | SDG | DE296 | DE296 | DE296 | DE296 | DE311 | DX167 | DX167 |
| | | | Start Depth | 4 | 3 | 4 | 9 | 4 | 0 | 0 |
| | | | End Depth | 5 | 4 | 5 | 10 | 5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 9.1 | 6.8 | 8 | 8.8 | 6.1 | 12.8 | 12.2 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-010-NBZ-SB-4.0-5.0 | SL-011-NBZ-SS-0.0-0.5 | SL-012-NBZ-SS-0.0-0.5 | SL-012-NBZ-SB-0.5-1.5 | SL-013-NBZ-SS-0.0-0.5 | SL-014-NBZ-SS-0.0-0.5 | SL-015-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/12/2012 | 04/12/2012 | 04/19/2012 | 04/19/2012 | 04/16/2012 | 04/17/2012 | 03/13/2012 |
| | | | SDG | DE296 | DX168 | DE312 | DE312 | DX169 | DX169 | DE296 |
| | | | Start Depth | 4 | 0 | 0 | 0.5 | 0 | 0 | 0 |
| | | | End Depth | 5 | 0.5 | 0.5 | 1.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 6.3 | 11.9 | 15.5 | 15.6 | 32.8 | 14.4 | 1.5 |

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

Appendix A14
Moisture Content-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-016-NBZ-SS-0.0-0.5 | SL-017-NBZ-SS-0.0-0.5 | SL-018-NBZ-SS-0.0-0.5 | SL-019-NBZ-SS-0.0-0.5 | SL-019-NBZ-SB-3.0-4.0 | SL-020-NBZ-SS-0.0-0.5 | SL-020-NBZ-SB-2.5-3.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/20/2012 | 04/19/2012 | 04/20/2012 | 03/13/2012 | 03/13/2012 | 04/04/2012 | 04/04/2012 |
| | | | SDG | DE313 | DE313 | DE313 | DE297 | DE297 | DE307 | DE306 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 3 | 0 | 2.5 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 4 | 0.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 20.4 | 30.6 | 20.3 | 2.7 | 5.8 | 11.4 | 11 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-021-NBZ-SS-0.0-0.5 | SL-021-NBZ-SB-4.0-5.0 | SL-022-NBZ-SS-0.0-0.5 | SL-022-NBZ-SB-4.0-5.0 | SL-022-NBZ-SB-9.0-10.0 | SL-023-NBZ-SS-0.0-0.5 | SL-023-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/13/2012 | 03/13/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 |
| | | | SDG | DE296 | DE296 | DE297 | DE297 | DE297 | DE297 | DE297 |
| | | | Start Depth | 0 | 4 | 0 | 4 | 9 | 0 | 4 |
| | | | End Depth | 0.5 | 5 | 0.5 | 5 | 10 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 2.7 | 3.9 | 4 | 3.4 | 5.4 | 3 | 3.1 |

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

Appendix A14
Moisture Content-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-023-NBZ-SB-8.5-9.5 | SL-024-NBZ-SS-0.0-0.5 | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 | SL-028-NBZ-SS-0.0-0.5 | SL-029-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 03/14/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 03/15/2012 |
| | | | SDG | DE297 | DE297 | DE306 | DE306 | DE306 | DE306 | DE297 |
| | | | Start Depth | 8.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 9.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 4.7 | 3.1 | 8.5 | 7.4 | 14.3 | 9.4 | 2.7 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 | SL-034-NBZ-SS-0.0-0.5 | SL-035-NBZ-SS-0.0-0.5 | SL-035-NBZ-SB-2.0-3.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 |
| | | | SDG | DE297 | DE306 | DE306 | DE306 | DE306 | DE306 | DE306 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 3 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 1.4 | 7.8 | 11.7 | 8.6 | 16.2 | 11.5 | 4.2 |

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

Appendix A14
Moisture Content-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-036-NBZ-SB-4.0-5.0 | SL-036-NBZ-SB-7.5-8.5 | SL-037-NBZ-SB-3.0-4.0 | SL-038-NBZ-SS-0.0-0.5 | SL-039-NBZ-SB-2.0-3.0 | SL-040-NBZ-SS-0.0-0.5 | DUP-03-NBZ-QC-032812 |
| | | | Sample Type | N | N | N | N | N | N | FD |
| | | | Sample Date | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 |
| | | | SDG | DX164 | DX164 | DX164 | DE302 | DX164 | DX164 | DX164 |
| | | | Start Depth | 4 | 7.5 | 3 | 0 | 2 | 0 | 2.5 |
| | | | End Depth | 5 | 8.5 | 4 | 0.5 | 3 | 0.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 12.3 | 21.5 | 11 | 19.1 | 10.1 | 11.3 | 8.1 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-040-NBZ-SB-2.5-3.5 | SL-042-NBZ-SS-0.0-0.5 | SL-043-NBZ-SS-0.0-0.5 | SL-044-NBZ-SS-0.0-0.5 | SL-045-NBZ-SS-0.0-0.5 | SL-045-NBZ-SB-4.0-5.0 | SL-046-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/28/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 |
| | | | SDG | DX164 | DE302 | DE302 | DX165 | DE302 | DE302 | DE302 |
| | | | Start Depth | 2.5 | 0 | 0 | 0 | 0 | 4 | 0 |
| | | | End Depth | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 4 | 15.4 | 8.9 | 3.2 | 10.3 | 5.1 | 15.3 |

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

Appendix A14
Moisture Content-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-046-NBZ-SB-4.0-5.0 | SL-047-NBZ-SB-4.0-5.0 | SL-048-NBZ-SS-0.0-0.5 | SL-048-NBZ-SB-4.0-5.0 | SL-049-NBZ-SB-2.0-3.0 | SL-050-NBZ-SS-0.0-0.5 | SL-051-NBZ-SB-1.5-2.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/26/2012 | 03/23/2012 |
| | | | SDG | DE302 | DX162 | DX162 | DX162 | DX162 | DE302 | DX162 |
| | | | Start Depth | 4 | 4 | 0 | 4 | 2 | 0 | 1.5 |
| | | | End Depth | 5 | 5 | 0.5 | 5 | 3 | 0.5 | 2.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 4.8 | 4 | 10.2 | 4.8 | 3.2 | 9.7 | 4.9 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-052-NBZ-SS-0.0-0.5 | SL-053-NBZ-SS-0.0-0.5 | SL-053-NBZ-SB-3.5-4.5 | SL-054-NBZ-SS-0.0-0.5 | SL-055-NBZ-SS-0.0-0.5 | SL-056-NBZ-SS-0.0-0.5 | SL-056-NBZ-SB-3.0-4.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/15/2012 | 03/15/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/15/2012 | 03/15/2012 |
| | | | SDG | DE297 | DX161 | DX161 | DE300 | DE300 | DX161 | DX161 |
| | | | Start Depth | 0 | 0 | 3.5 | 0 | 0 | 0 | 3 |
| | | | End Depth | 0.5 | 0.5 | 4.5 | 0.5 | 0.5 | 0.5 | 4 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 1.2 | 1.6 | 4 | 7.6 | 9.7 | 24.9 | 20.4 |

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

Appendix A14
Moisture Content-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | DUP-02-NBZ-QC-032312 | SL-057-NBZ-SS-0.0-0.5 | SL-058-NBZ-SS-0.0-0.5 | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 | SL-061-NBZ-SB-1.0-2.0 | SL-062-NBZ-SB-2.5-3.5 |
| | | | Sample Type | FD | N | N | N | N | N | N |
| | | | Sample Date | 03/23/2012 | 03/23/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/22/2012 | 03/21/2012 |
| | | | SDG | DX162 | DX162 | DE297 | DE300 | DE300 | DE300 | DE300 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 1 | 2.5 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 7.2 | 9.1 | 4.2 | 7.8 | 5.7 | 4.7 | 3.6 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-063-NBZ-SB-0.5-1.5 | SL-064-NBZ-SB-0.5-1.5 | SL-065-NBZ-SB-1.0-2.0 | SL-066-NBZ-SB-2.0-3.0 | SL-067-NBZ-SB-1.5-2.5 | DUP-01-NBZ-QC-031612 | SL-068-NBZ-SB-2.5-3.5 |
| | | | Sample Type | N | N | N | N | N | FD | N |
| | | | Sample Date | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/16/2012 | 03/16/2012 | 03/16/2012 |
| | | | SDG | DE300 | DE300 | DE299 | DE299 | DX161 | DX161 | DX161 |
| | | | Start Depth | 0.5 | 0.5 | 1 | 2 | 1.5 | 2.5 | 2.5 |
| | | | End Depth | 1.5 | 1.5 | 2 | 3 | 2.5 | 3.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 12.5 | 5.3 | 5.7 | 2.8 | 7.6 | 8.5 | 8.7 |

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

Appendix A14
Moisture Content-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-069-NBZ-SB-3.0-4.0 | SL-070-NBZ-SS-0.0-0.5 | SL-071-NBZ-SB-4.0-5.0 | SL-072-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-9.0-10.0 | SL-074-NBZ-SB-0.5-1.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/20/2012 | 03/20/2012 | 03/19/2012 | 03/16/2012 | 03/19/2012 | 03/19/2012 | 03/19/2012 |
| | | | SDG | DE299 | DE299 | DE299 | DX161 | DE299 | DE299 | DE299 |
| | | | Start Depth | 3 | 0 | 4 | 4 | 4 | 9 | 0.5 |
| | | | End Depth | 4 | 0.5 | 5 | 5 | 5 | 10 | 1.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 4.8 | 12.7 | 3.4 | 9.9 | 7.5 | 8.6 | 3.4 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-075-NBZ-SS-0.0-0.5 | SL-076-NBZ-SS-0.0-0.5 | SL-077-NBZ-SS-0.0-0.5 | SL-077-NBZ-SB-2.5-3.5 | SL-078-NBZ-SS-0.0-0.5 | SL-079-NBZ-SS-0.0-0.5 | SL-080-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/27/2012 | 03/30/2012 | 04/20/2012 |
| | | | SDG | DE299 | DE299 | DE299 | DE299 | DE302 | DX166 | DE313 |
| | | | Start Depth | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 3.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 8.9 | 12.7 | 14 | 6.2 | 11.1 | 11.5 | 11.1 |

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

Appendix A14
Moisture Content-Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-081-NBZ-SS-0.0-0.5 | SL-082-NBZ-SS-0.0-0.5 | SL-082-NBZ-SB-2.5-3.5 | SL-083-NBZ-SS-0.0-0.5 | SL-084-NBZ-SS-0.0-0.5 | SL-085-NBZ-SS-0.0-0.5 | SL-086-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/18/2012 | 04/18/2012 | 04/18/2012 | 04/18/2012 | 04/10/2012 | 04/10/2012 | 04/19/2012 |
| | | | SDG | DE311 | DE311 | DE311 | DE311 | DX167 | DX168 | DE312 |
| | | | Start Depth | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 15.7 | 13 | 12.3 | 13.2 | 12.5 | 16 | 18.5 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-087-NBZ-SS-0.0-0.5 | SL-088-NBZ-SS-0.0-0.5 | SL-089-NBZ-SS-0.0-0.5 | SL-090-NBZ-SS-0.0-0.5 | SL-091-NBZ-SS-0.0-0.5 | SL-091-NBZ-SB-4.0-5.0 | DUP-05-NBZ-QC-032912 |
| | | | Sample Type | N | N | N | N | N | N | FD |
| | | | Sample Date | 04/19/2012 | 04/17/2012 | 04/20/2012 | 04/17/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 |
| | | | SDG | DE312 | DX169 | DE313 | DE311 | DX165 | DX165 | DX165 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 29.8 | 20.9 | 11.8 | 15.6 | 18.1 | 17.8 | 20.4 |

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

Appendix A14
Moisture Content-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-092-NBZ-SS-0.0-0.5 | SL-094-NBZ-SS-0.0-0.5 | SL-095-NBZ-SS-0.0-0.5 | SL-096-NBZ-SS-0.0-0.5 | SL-097-NBZ-SS-0.0-0.5 | SL-099-NBZ-SS-0.0-0.5 | SL-100-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/29/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 | 04/04/2012 | 04/04/2012 | 04/04/2012 |
| | | | SDG | DX165 | DX164 | DX163 | DX164 | DX166 | DX167 | DX167 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 15.2 | 12.4 | 12.9 | 14.2 | 6.7 | 9 | 7.2 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-101-NBZ-SS-0.0-0.5 | SL-102-NBZ-SS-0.0-0.5 | SL-103-NBZ-SS-0.0-0.5 | SL-104-NBZ-SS-0.0-0.5 | SL-105-NBZ-SS-0.0-0.5 | SL-107-NBZ-SS-0.0-0.5 | SL-108-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/29/2012 | 03/27/2012 | 03/29/2012 | 04/04/2012 | 03/21/2012 | 04/02/2012 | 04/03/2012 |
| | | | SDG | DX166 | DX164 | DX166 | DX167 | DX162 | DX165 | DX165 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 11.4 | 13.5 | 13.5 | 6.8 | 11.3 | 10.7 | 5.4 |

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

Appendix A14
Moisture Content-Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-109-NBZ-SS-0.0-0.5 | SL-110-NBZ-SS-0.0-0.5 | SL-111-NBZ-SS-0.0-0.5 | SL-112-NBZ-SS-0.0-0.5 | SL-113-NBZ-SS-0.0-0.5 | SL-114-NBZ-SS-0.0-0.5 | SL-115-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/27/2012 | 04/04/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/04/2012 | 04/03/2012 |
| | | | SDG | DX164 | DX167 | DX165 | DX165 | DX165 | DX167 | DX166 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 13.4 | 8.4 | 20.3 | 9 | 8.5 | 7.3 | 12.3 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-116-NBZ-SS-0.0-0.5 | DUP-04-NBZ-QC-032912 | SL-118-NBZ-SS-0.0-0.5 | SL-119-NBZ-SS-0.0-0.5 | SL-120-NBZ-SS-0.0-0.5 | SL-121-NBZ-SS-0.0-0.5 | SL-122-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | FD | N | N | N | N | N |
| | | | Sample Date | 03/22/2012 | 03/29/2012 | 03/29/2012 | 03/27/2012 | 04/04/2012 | 03/30/2012 | 04/03/2012 |
| | | | SDG | DX162 | DX166 | DX166 | DX163 | DX167 | DX166 | DX165 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 10.8 | 8.6 | 9 | 12.7 | 7.7 | 8.3 | 13.1 |

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

Appendix A14
Moisture Content-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-123-NBZ-SS-0.0-0.5 | SL-124-NBZ-SS-0.0-0.5 | SL-126-NBZ-SS-0.0-0.5 | SL-127-NBZ-SS-0.0-0.5 | SL-129-NBZ-SS-0.0-0.5 | SL-130-NBZ-SS-0.0-0.5 | SL-131-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/26/2012 | 03/26/2012 | 04/03/2012 | 03/27/2012 | 03/27/2012 | 03/29/2012 |
| | | | SDG | DX163 | DX163 | DX163 | DX166 | DX164 | DX163 | DX166 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 15.5 | 25 | 17 | 6.2 | 17.7 | 15.8 | 7.1 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-133-NBZ-SS-0.0-0.5 | SL-134-NBZ-SS-0.0-0.5 | SL-135-NBZ-SS-0.0-0.5 | SL-136-NBZ-SS-0.0-0.5 | SL-138-NBZ-SS-0.0-0.5 | SL-139-NBZ-SS-0.0-0.5 | SL-140-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/30/2012 | 03/28/2012 | 03/28/2012 | 04/02/2012 | 03/28/2012 | 04/03/2012 |
| | | | SDG | DX163 | DX166 | DX164 | DX164 | DX165 | DX164 | DX166 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 13.5 | 7.6 | 13.8 | 8.4 | 11.5 | 16.1 | 14.4 |

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

Appendix A14
Moisture Content-Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-141-NBZ-SS-0.0-0.5 | SL-143-NBZ-SS-0.0-0.5 | SL-144-NBZ-SS-0.0-0.5 | SL-145-NBZ-SS-0.0-0.5 | SL-146-NBZ-SS-0.0-0.5 | SL-147-NBZ-SS-0.0-0.5 | SL-148-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/28/2012 | 03/28/2012 | 04/12/2012 | 04/11/2012 | 04/18/2012 | 04/17/2012 | 04/11/2012 |
| | | | SDG | DX164 | DX164 | DX169 | DX168 | DX170 | DX170 | DX168 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 11.4 | 8.2 | 12 | 21.6 | 13.7 | 14.2 | 18.5 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-149-NBZ-SS-0.0-0.5 | SL-150-NBZ-SS-0.0-0.5 | SL-151-NBZ-SS-0.0-0.5 | SL-152-NBZ-SS-0.0-0.5 | SL-154-NBZ-SS-0.0-0.5 | SL-155-NBZ-SS-0.0-0.5 | SL-156-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/05/2012 | 04/19/2012 | 04/09/2012 | 04/12/2012 | 04/11/2012 | 04/04/2012 | 04/17/2012 |
| | | | SDG | DX167 | DX171 | DX168 | DX169 | DX168 | DX167 | DX169 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 9.2 | 10.7 | 9.7 | 15.9 | 17.2 | 7.9 | 18.8 |

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

Appendix A14
Moisture Content-Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-157-NBZ-SS-0.0-0.5 | SL-158-NBZ-SS-0.0-0.5 | SL-159-NBZ-SS-0.0-0.5 | SL-160-NBZ-SS-0.0-0.5 | SL-161-NBZ-SS-0.0-0.5 | SL-162-NBZ-SS-0.0-0.5 | SL-163-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/09/2012 | 04/12/2012 | 04/16/2012 | 04/16/2012 | 04/17/2012 | 04/17/2012 | 04/11/2012 |
| | | | SDG | DX168 | DX170 | DX169 | DX169 | DX169 | DX169 | DX168 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 8.4 | 12.3 | 12.4 | 10.2 | 11.1 | 8.7 | 15.1 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-164-NBZ-SS-0.0-0.5 | SL-165-NBZ-SS-0.0-0.5 | SL-166-NBZ-SS-0.0-0.5 | SL-167-NBZ-SS-0.0-0.5 | SL-168-NBZ-SS-0.0-0.5 | SL-169-NBZ-SS-0.0-0.5 | SL-170-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/16/2012 | 04/05/2012 | 04/17/2012 | 04/09/2012 | 04/11/2012 | 04/03/2012 | 04/20/2012 |
| | | | SDG | DX169 | DX167 | DX169 | DX168 | DX168 | DX166 | DX171 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 16 | 9.3 | 13.6 | 6.5 | 11.1 | 9.9 | 8.5 |

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

Appendix A14
Moisture Content-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-171-NBZ-SS-0.0-0.5 | SL-172-NBZ-SS-0.0-0.5 | DUP-08-NBZ-QC-041612 | SL-173-NBZ-SS-0.0-0.5 | SL-174-NBZ-SS-0.0-0.5 | SL-175-NBZ-SS-0.0-0.5 | SL-176-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | FD | N | N | N | N |
| | | | Sample Date | 04/20/2012 | 04/12/2012 | 04/16/2012 | 04/16/2012 | 04/09/2012 | 04/05/2012 | 04/11/2012 |
| | | | SDG | DX171 | DX170 | DX169 | DX169 | DX168 | DX167 | DX168 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 8.8 | 11.7 | 15.9 | 16.7 | 7.7 | 15.6 | 14.8 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-177-NBZ-SS-0.0-0.5 | SL-178-NBZ-SS-0.0-0.5 | SL-179-NBZ-SS-0.0-0.5 | SL-180-NBZ-SS-0.0-0.5 | SL-181-NBZ-SS-0.0-0.5 | SL-182-NBZ-SS-0.0-0.5 | SL-183-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/10/2012 | 04/19/2012 | 04/19/2012 | 04/13/2012 | 04/04/2012 | 04/11/2012 | 04/13/2012 |
| | | | SDG | DX168 | DX171 | DX171 | DX170 | DX167 | DX168 | DX170 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 5.4 | 9.9 | 11.4 | 18.9 | 8.7 | 13.8 | 17.3 |

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

Appendix A14
Moisture Content-Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-184-NBZ-SS-0.0-0.5 | SL-185-NBZ-SS-0.0-0.5 | SL-186-NBZ-SS-0.0-0.5 | SL-187-NBZ-SS-0.0-0.5 | SL-188-NBZ-SS-0.0-0.5 | SL-189-NBZ-SS-0.0-0.5 | SL-190-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/19/2012 | 04/09/2012 | 04/10/2012 | 04/04/2012 | 04/10/2012 | 04/18/2012 | 04/05/2012 |
| | | | SDG | DX171 | DX168 | DX167 | DX167 | DX168 | DX170 | DX167 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 12.5 | 11.1 | 7.5 | 8.4 | 6.4 | 13.1 | 6 |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | DUP-06-NBZ-QC-040912 | SL-191-NBZ-SS-0.0-0.5 | DUP-09-NBZ-QC-041912 | SL-193-NBZ-SS-0.0-0.5 | SL-194-NBZ-SS-0.0-0.5 | SL-195-NBZ-SS-0.0-0.5 | SL-196-NBZ-SS-0.0-0.5 |
| | | | Sample Type | FD | N | FD | N | N | N | N |
| | | | Sample Date | 04/09/2012 | 04/09/2012 | 04/19/2012 | 04/19/2012 | 04/02/2012 | 03/26/2012 | 03/26/2012 |
| | | | SDG | DX168 | DX168 | DX171 | DX171 | DX165 | DX163 | DX163 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 160.3M | MOIST | Moisture | % | 7.5 | 8.6 | 11 | 11.2 | 11.7 | 12 | 18.7 |

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

Appendix A14
Moisture Content-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-197-NBZ-SS-0.0-0.5 | SL-198-NBZ-SS-0.0-0.5 | SL-199-NBZ-SS-0.0-0.5 | SL-200-NBZ-SS-0.0-0.5 | SL-201-NBZ-SS-0.0-0.5 | SL-202-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/29/2012 | 04/03/2012 | 04/23/2012 | 04/23/2012 | 04/23/2012 | 04/20/2012 |
| | | | SDG | DX166 | DX166 | DX171 | DX171 | DX171 | DX171 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 160.3M | MOIST | Moisture | % | 14.6 | 7.2 | 7.1 | 8.8 | 14.8 | 7.1 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-001-NBZ-SS-0.0-0.5 | SL-002-NBZ-SS-0.0-0.5 | SL-002-NBZ-SB-4.0-5.0 | SL-002-NBZ-SB-7.5-8.5 | SL-003-NBZ-SS-0.0-0.5 | SL-003-NBZ-SB-4.0-5.0 | SL-006-NBZ-SB-3.0-4.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 2012-04-09 | 2012-03-12 | 2012-03-12 | 2012-03-12 | 2012-03-12 | 2012-03-12 | 2012-03-13 |
| | | | SDG | DE308 | DE296 | DE296 | DE296 | DE296 | DE296 | DE296 |
| | | | Start Depth | 0 | 0 | 4 | 7.5 | 0 | 4 | 3 |
| | | | End Depth | 0.5 | 0.5 | 5 | 8.5 | 0.5 | 5 | 4 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 1625C | 62-75-9 | N-Nitrosodimethylamine | ng/kg | 37.5 U | 34.5 U | 35.8 U | 36.3 U | 34.9 U | 35.4 U | 35.8 U |

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

Appendix A15
NDMA-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-005-NBZ-SB-4.0-5.0 | SL-007-NBZ-SB-4.0-5.0 | SL-007-NBZ-SB-9.0-10.0 | SL-008-NBZ-SB-4.0-5.0 | DUP-07-NBZ-QC-041012 | SL-009-NBZ-SS-0.0-0.5 | SL-010-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | FD | N | N |
| | | | Sample Date | 2012-03-13 | 2012-03-12 | 2012-03-12 | 2012-04-18 | 2012-04-10 | 2012-04-10 | 2012-03-12 |
| | | | SDG | DE296 | DE296 | DE296 | DE311 | DE308 | DE308 | DE296 |
| | | | Start Depth | 4 | 4 | 9 | 4 | 0 | 0 | 4 |
| | | | End Depth | 5 | 5 | 10 | 5 | 0.5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 1625C | 62-75-9 | N-Nitrosodimethylamine | ng/kg | 36.7 U | 36.2 U | 36.5 U | 72.8 | 382 U | 380 U | 35.6 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-011-NBZ-SS-0.0-0.5 | SL-012-NBZ-SS-0.0-0.5 | SL-012-NBZ-SB-0.5-1.5 | SL-013-NBZ-SS-0.0-0.5 | SL-014-NBZ-SS-0.0-0.5 | SL-015-NBZ-SS-0.0-0.5 | SL-016-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 2012-04-12 | 2012-04-19 | 2012-04-19 | 2012-04-16 | 2012-04-17 | 2012-03-13 | 2012-04-20 |
| | | | SDG | DE309 | DE312 | DE312 | DE310 | DE310 | DE296 | DE313 |
| | | | Start Depth | 0 | 0 | 0.5 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 1.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 1625C | 62-75-9 | N-Nitrosodimethylamine | ng/kg | 378 U | 394 U | 39.5 U | 496 UJ | 389 U | 33.8 U | 419 U |

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

Appendix A15
NDMA-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-017-NBZ-SS-0.0-0.5 | SL-018-NBZ-SS-0.0-0.5 | SL-019-NBZ-SS-0.0-0.5 | SL-019-NBZ-SB-3.0-4.0 | SL-020-NBZ-SS-0.0-0.5 | SL-020-NBZ-SB-2.5-3.5 | SL-021-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 2012-04-19 | 2012-04-20 | 2012-03-13 | 2012-03-13 | 2012-04-04 | 2012-04-04 | 2012-03-13 |
| | | | SDG | DE313 | DE313 | DE297 | DE297 | DE307 | DE306 | DE296 |
| | | | Start Depth | 0 | 0 | 0 | 3 | 0 | 2.5 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 4 | 0.5 | 3.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 1625C | 62-75-9 | N-Nitrosodimethylamine | ng/kg | 480 U | 418 U | 34.3 U | 35.4 UJ | 37.4 U | 371 U | 34.3 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-021-NBZ-SB-4.0-5.0 | SL-022-NBZ-SS-0.0-0.5 | SL-022-NBZ-SB-4.0-5.0 | SL-022-NBZ-SB-9.0-10.0 | SL-023-NBZ-SS-0.0-0.5 | SL-023-NBZ-SB-4.0-5.0 | SL-023-NBZ-SB-8.5-9.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 2012-03-13 | 2012-03-14 | 2012-03-14 | 2012-03-14 | 2012-03-14 | 2012-03-14 | 2012-03-14 |
| | | | SDG | DE296 | DE297 | DE297 | DE297 | DE297 | DE297 | DE297 |
| | | | Start Depth | 4 | 0 | 4 | 9 | 0 | 4 | 8.5 |
| | | | End Depth | 5 | 0.5 | 5 | 10 | 0.5 | 5 | 9.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 1625C | 62-75-9 | N-Nitrosodimethylamine | ng/kg | 34.7 U | 347 U | 34.5 U | 35.2 U | 344 U | 34.4 U | 35 U |

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

Appendix A15
NDMA-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-024-NBZ-SS-0.0-0.5 | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 | SL-028-NBZ-SS-0.0-0.5 | SL-029-NBZ-SS-0.0-0.5 | SL-030-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 2012-03-14 | 2012-04-02 | 2012-04-02 | 2012-04-02 | 2012-04-02 | 2012-03-15 | 2012-03-14 |
| | | | SDG | DE297 | DE306 | DE306 | DE306 | DE306 | DE297 | DE297 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 1625C | 62-75-9 | N-Nitrosodimethylamine | ng/kg | 34.4 U | 364 U | 36 U | 389 U | 79.4 | 343 U | 338 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-031-NBZ-SS-0.0-0.5 | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 | SL-034-NBZ-SS-0.0-0.5 | SL-035-NBZ-SS-0.0-0.5 | SL-035-NBZ-SB-2.0-3.0 | SL-036-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 2012-04-03 | 2012-04-03 | 2012-04-03 | 2012-04-03 | 2012-04-03 | 2012-04-03 | 2012-03-28 |
| | | | SDG | DE306 | DE306 | DE306 | DE306 | DE306 | DE306 | DE303 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 2 | 4 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 3 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 1625C | 62-75-9 | N-Nitrosodimethylamine | ng/kg | 36.2 U | 378 U | 365 U | 398 U | 377 U | 34.7 U | 38 U |

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

Appendix A15
NDMA-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-036-NBZ-SB-7.5-8.5 | SL-037-NBZ-SB-3.0-4.0 | SL-038-NBZ-SS-0.0-0.5 | SL-039-NBZ-SB-2.0-3.0 | SL-040-NBZ-SS-0.0-0.5 | DUP-03-NBZ-QC-032812 | SL-040-NBZ-SB-2.5-3.5 |
| | | | Sample Type | N | N | N | N | N | FD | N |
| | | | Sample Date | 2012-03-28 | 2012-03-28 | 2012-03-27 | 2012-03-28 | 2012-03-28 | 2012-03-28 | 2012-03-28 |
| | | | SDG | DE303 | DE303 | DE302 | DE303 | DE303 | DE303 | DE303 |
| | | | Start Depth | 7.5 | 3 | 0 | 2 | 0 | 2.5 | 2.5 |
| | | | End Depth | 8.5 | 4 | 0.5 | 3 | 0.5 | 3.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 1625C | 62-75-9 | N-Nitrosodimethylamine | ng/kg | 42.5 U | 37.5 U | 412 U | 37.1 U | 376 U | 363 U | 347 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-042-NBZ-SS-0.0-0.5 | SL-043-NBZ-SS-0.0-0.5 | SL-044-NBZ-SS-0.0-0.5 | SL-045-NBZ-SS-0.0-0.5 | SL-045-NBZ-SB-4.0-5.0 | SL-046-NBZ-SS-0.0-0.5 | SL-046-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 2012-03-26 | 2012-03-26 | 2012-03-29 | 2012-03-26 | 2012-03-26 | 2012-03-26 | 2012-03-26 |
| | | | SDG | DE302 | DE302 | DE304 | DE302 | DE302 | DE302 | DE302 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 4 | 0 | 4 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 1625C | 62-75-9 | N-Nitrosodimethylamine | ng/kg | 394 U | 366 U | 344 U | 372 U | 35.1 U | 394 U | 35 U |

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

Appendix A15
NDMA-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-047-NBZ-SB-4.0-5.0 | SL-048-NBZ-SS-0.0-0.5 | SL-048-NBZ-SB-4.0-5.0 | SL-049-NBZ-SB-2.0-3.0 | SL-050-NBZ-SS-0.0-0.5 | SL-051-NBZ-SB-1.5-2.5 | SL-052-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 2012-03-23 | 2012-03-23 | 2012-03-23 | 2012-03-23 | 2012-03-26 | 2012-03-23 | 2012-03-15 |
| | | | SDG | DE301 | DE301 | DE301 | DE301 | DE302 | DE301 | DE297 |
| | | | Start Depth | 4 | 0 | 4 | 2 | 0 | 1.5 | 0 |
| | | | End Depth | 5 | 0.5 | 5 | 3 | 0.5 | 2.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 1625C | 62-75-9 | N-Nitrosodimethylamine | ng/kg | 34.6 U | 371 U | 34.9 U | 33.9 U | 369 U | 34.9 U | 337 U |

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

| | | | Sample Name | SL-053-NBZ-SS-0.0-0.5 | SL-053-NBZ-SB-3.5-4.5 | SL-054-NBZ-SS-0.0-0.5 | SL-055-NBZ-SS-0.0-0.5 | SL-056-NBZ-SS-0.0-0.5 | SL-056-NBZ-SB-3.0-4.0 | DUP-02-NBZ-QC-032312 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | FD |
| | | | Sample Date | 2012-03-15 | 2012-03-15 | 2012-03-22 | 2012-03-22 | 2012-03-15 | 2012-03-15 | 2012-03-23 |
| | | | SDG | DE298 | DE298 | DE300 | DE300 | DE298 | DE298 | DE301 |
| | | | Start Depth | 0 | 3.5 | 0 | 0 | 0 | 3 | 0 |
| | | | End Depth | 0.5 | 4.5 | 0.5 | 0.5 | 0.5 | 4 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 1625C | 62-75-9 | N-Nitrosodimethylamine | ng/kg | 338 U | 34.7 U | 35.8 U | 367 U | 442 U | 41.9 U | 35.9 U |

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

Appendix A15
NDMA-Validated Data
NBZ - Phases 1 and 2

| | | | Sample Name | SL-057-NBZ-SS-0.0-0.5 | SL-058-NBZ-SS-0.0-0.5 | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 | SL-061-NBZ-SB-1.0-2.0 | SL-062-NBZ-SB-2.5-3.5 | SL-063-NBZ-SB-0.5-1.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 2012-03-23 | 2012-03-15 | 2012-03-22 | 2012-03-22 | 2012-03-22 | 2012-03-21 | 2012-03-21 |
| | | | SDG | DE301 | DE297 | DE300 | DE300 | DE300 | DE300 | DE300 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 1 | 2.5 | 0.5 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 3.5 | 1.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 1625C | 62-75-9 | N-Nitrosodimethylamine | ng/kg | 367 U | 34.8 U | 358 U | 353 U | 34.9 U | 34.5 U | 380 U |

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

| | | | Sample Name | SL-064-NBZ-SB-0.5-1.5 | SL-065-NBZ-SB-1.0-2.0 | SL-066-NBZ-SB-2.0-3.0 | SL-067-NBZ-SB-1.5-2.5 | DUP-01-NBZ-QC-031612 | SL-068-NBZ-SB-2.5-3.5 | SL-069-NBZ-SB-3.0-4.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | FD | N | N |
| | | | Sample Date | 2012-03-21 | 2012-03-21 | 2012-03-21 | 2012-03-16 | 2012-03-16 | 2012-03-16 | 2012-03-20 |
| | | | SDG | DE300 | DE299 | DE299 | DE298 | DE298 | DE298 | DE299 |
| | | | Start Depth | 0.5 | 1 | 2 | 1.5 | 2.5 | 2.5 | 3 |
| | | | End Depth | 1.5 | 2 | 3 | 2.5 | 3.5 | 3.5 | 4 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 1625C | 62-75-9 | N-Nitrosodimethylamine | ng/kg | 35.2 U | 35.2 U | 34.2 U | 36.1 U | 36.3 U | 37.1 U | 34.9 U |

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

Appendix A15
NDMA-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-070-NBZ-SS-0.0-0.5 | SL-071-NBZ-SB-4.0-5.0 | SL-072-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-9.0-10.0 | SL-074-NBZ-SB-0.5-1.5 | SL-075-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 2012-03-20 | 2012-03-19 | 2012-03-16 | 2012-03-19 | 2012-03-19 | 2012-03-19 | 2012-03-20 |
| | | | SDG | DE299 | DE299 | DE298 | DE299 | DE299 | DE299 | DE299 |
| | | | Start Depth | 0 | 4 | 4 | 4 | 9 | 0.5 | 0 |
| | | | End Depth | 0.5 | 5 | 5 | 5 | 10 | 1.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 1625C | 62-75-9 | N-Nitrosodimethylamine | ng/kg | 381 U | 34.4 U | 36.9 U | 35.9 U | 36.5 U | 34.3 U | 363 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-076-NBZ-SS-0.0-0.5 | SL-077-NBZ-SS-0.0-0.5 | SL-077-NBZ-SB-2.5-3.5 | SL-078-NBZ-SS-0.0-0.5 | SL-079-NBZ-SS-0.0-0.5 | SL-080-NBZ-SS-0.0-0.5 | SL-081-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 2012-03-20 | 2012-03-20 | 2012-03-20 | 2012-03-27 | 2012-03-30 | 2012-04-20 | 2012-04-18 |
| | | | SDG | DE299 | DE299 | DE299 | DE302 | DE305 | DE313 | DE311 |
| | | | Start Depth | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 1625C | 62-75-9 | N-Nitrosodimethylamine | ng/kg | 381 U | 386 U | 35.4 U | 375 U | 377 U | 375 U | 395 U |

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

Appendix A15
NDMA-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-082-NBZ-SS-0.0-0.5 | SL-082-NBZ-SB-2.5-3.5 | SL-083-NBZ-SS-0.0-0.5 | SL-085-NBZ-SS-0.0-0.5 | SL-086-NBZ-SS-0.0-0.5 | SL-087-NBZ-SS-0.0-0.5 | SL-088-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 2012-04-18 | 2012-04-18 | 2012-04-18 | 2012-04-10 | 2012-04-19 | 2012-04-19 | 2012-04-17 |
| | | | SDG | DE311 | DE311 | DE311 | DE309 | DE312 | DE312 | DE310 |
| | | | Start Depth | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 1625C | 62-75-9 | N-Nitrosodimethylamine | ng/kg | 38.3 U | 38 U | 38.4 U | 397 U | 409 U | 475 U | 471 |

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

| | | | Sample Name | SL-089-NBZ-SS-0.0-0.5 | SL-090-NBZ-SS-0.0-0.5 | SL-091-NBZ-SS-0.0-0.5 | SL-091-NBZ-SB-4.0-5.0 | DUP-05-NBZ-QC-032912 | SL-092-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | FD | N |
| | | | Sample Date | 2012-04-20 | 2012-04-17 | 2012-03-29 | 2012-03-29 | 2012-03-29 | 2012-03-29 |
| | | | SDG | DE313 | DE311 | DE304 | DE304 | DE304 | DE304 |
| | | | Start Depth | 0 | 0 | 0 | 4 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 1625C | 62-75-9 | N-Nitrosodimethylamine | ng/kg | 378 U | 395 U | 407 U | 40.6 U | 419 U | 39.3 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-001-NBZ-SS-0.0-0.5 | SL-002-NBZ-SS-0.0-0.5 | SL-002-NBZ-SB-4.0-5.0 | SL-002-NBZ-SB-7.5-8.5 | SL-003-NBZ-SS-0.0-0.5 | SL-003-NBZ-SB-4.0-5.0 | SL-004-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/09/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 04/11/2012 |
| | | | SDG | 12D084 | 12C096 | 12C096 | 12C096 | 12C096 | 12C096 | 12D106 |
| | | | Start Depth | 0 | 0 | 4 | 7.5 | 0 | 4 | 0 |
| | | | End Depth | 0.5 | 0.5 | 5 | 8.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 14797-55-8 | Nitrate | mg/kg | 4.8 | 0.966 J Z | 4.92 | 4.88 | 6.73 | 1.78 | 12.8 |
| 300 | 14797-65-0 | Nitrite-NO2 | mg/kg | -- | 1.55 U | 1.62 U | 1.62 U | 1.57 U | 1.59 U | -- |

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

Appendix A16
Nitrates-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-005-NBZ-SB-4.0-5.0 | SL-006-NBZ-SB-3.0-4.0 | SL-007-NBZ-SB-4.0-5.0 | SL-007-NBZ-SB-9.0-10.0 | SL-008-NBZ-SB-4.0-5.0 | DUP-07-NBZ-QC-041012 |
| | | | Sample Type | N | N | N | N | N | FD |
| | | | Sample Date | 03/13/2012 | 03/13/2012 | 03/12/2012 | 03/12/2012 | 04/18/2012 | 04/10/2012 |
| | | | SDG | 12C106 | 12C106 | 12C096 | 12C096 | 12D166 | 12D092 |
| | | | Start Depth | 4 | 3 | 4 | 9 | 4 | 0 |
| | | | End Depth | 5 | 4 | 5 | 10 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 300 | 14797-55-8 | Nitrate | mg/kg | 1.73 | 1.59 J Z | 1.69 | 1.36 J Z | 1.79 | 6.39 |
| 300 | 14797-65-0 | Nitrite-NO2 | mg/kg | 1.66 U | 1.60 U | 1.63 U | 1.64 U | -- | -- |

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

| | | | Sample Name | SL-009-NBZ-SS-0.0-0.5 | SL-010-NBZ-SB-4.0-5.0 | SL-011-NBZ-SS-0.0-0.5 | SL-012-NBZ-SS-0.0-0.5 | SL-012-NBZ-SB-0.5-1.5 | SL-013-NBZ-SS-0.0-0.5 | SL-014-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/10/2012 | 03/12/2012 | 04/12/2012 | 04/19/2012 | 04/19/2012 | 04/16/2012 | 04/17/2012 |
| | | | SDG | 12D092 | 12C096 | 12D122 | 12D176 | 12D176 | 12D146 | 12D154 |
| | | | Start Depth | 0 | 4 | 0 | 0 | 0.5 | 0 | 0 |
| | | | End Depth | 0.5 | 5 | 0.5 | 0.5 | 1.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 14797-55-8 | Nitrate | mg/kg | 6.36 | 1.06 J Z | 8.37 | 12.7 | 3.39 | 11.8 | 5.67 |
| 300 | 14797-65-0 | Nitrite-NO2 | mg/kg | -- | 1.62 U | -- | -- | -- | -- | -- |

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

Appendix A16
Nitrates-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-016-NBZ-SS-0.0-0.5 | SL-017-NBZ-SS-0.0-0.5 | SL-018-NBZ-SS-0.0-0.5 | SL-019-NBZ-SB-3.0-4.0 | SL-020-NBZ-SB-2.5-3.5 | SL-021-NBZ-SB-4.0-5.0 | SL-022-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/20/2012 | 04/19/2012 | 04/20/2012 | 03/13/2012 | 04/04/2012 | 03/13/2012 | 03/14/2012 |
| | | | SDG | 12D192 | 12D176 | 12D192 | 12C106 | 12D031 | 12C106 | 12C121 |
| | | | Start Depth | 0 | 0 | 0 | 3 | 2.5 | 4 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 4 | 3.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 14797-55-8 | Nitrate | mg/kg | 9.04 | 14.3 | 10.1 | 0.872 J Z | 6.05 | 0.894 J Z | 3.3 |
| 300 | 14797-65-0 | Nitrite-NO2 | mg/kg | -- | -- | -- | 1.59 U | -- | 1.56 U | 0.993 J Z |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-022-NBZ-SB-4.0-5.0 | SL-022-NBZ-SB-9.0-10.0 | SL-023-NBZ-SS-0.0-0.5 | SL-023-NBZ-SB-4.0-5.0 | SL-023-NBZ-SB-8.5-9.5 | SL-024-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 |
| | | | SDG | 12C121 | 12C121 | 12C121 | 12C121 | 12C121 | 12C121 |
| | | | Start Depth | 4 | 9 | 0 | 4 | 8.5 | 0 |
| | | | End Depth | 5 | 10 | 0.5 | 5 | 9.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 300 | 14797-55-8 | Nitrate | mg/kg | 1.56 U | 1.57 U | 2.24 | 1.55 U | 0.852 J Z | 0.812 J Z |
| 300 | 14797-65-0 | Nitrite-NO2 | mg/kg | 1.56 U | 1.57 U | 1.55 U | 1.55 U | 1.58 U | 1.55 U |

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

Appendix A16
Nitrates-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 | SL-028-NBZ-SS-0.0-0.5 | SL-029-NBZ-SS-0.0-0.5 | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 03/15/2012 | 03/14/2012 | 04/03/2012 |
| | | | SDG | 12D004 | 12D004 | 12D004 | 12D004 | 12C135 | 12C121 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 14797-55-8 | Nitrate | mg/kg | 1.63 U | 5.72 | 4.28 | 8.02 | 2.23 | 11.6 | 19.9 |
| 300 | 14797-65-0 | Nitrite-NO2 | mg/kg | -- | -- | -- | -- | 0.977 J Z | 1.48 J Z | -- |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 | SL-034-NBZ-SS-0.0-0.5 | SL-035-NBZ-SS-0.0-0.5 | SL-035-NBZ-SB-2.0-3.0 | SL-036-NBZ-SB-4.0-5.0 | SL-036-NBZ-SB-7.5-8.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 03/28/2012 | 03/28/2012 |
| | | | SDG | 12D018 | 12D018 | 12D018 | 12D018 | 12D018 | 12C285 | 12C285 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 2 | 4 | 7.5 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 3 | 5 | 8.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 14797-55-8 | Nitrate | mg/kg | 9.95 | 9.79 | 12.1 | 11.2 | 1.55 J Z | 1.70 U | 1.96 U |
| 300 | 14797-65-0 | Nitrite-NO2 | mg/kg | -- | -- | -- | -- | -- | -- | -- |

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

Appendix A16
Nitrates-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-037-NBZ-SB-3.0-4.0 | SL-038-NBZ-SS-0.0-0.5 | SL-039-NBZ-SB-2.0-3.0 | SL-040-NBZ-SS-0.0-0.5 | DUP-03-NBZ-QC-032812 | SL-040-NBZ-SB-2.5-3.5 |
| | | | Sample Type | N | N | N | N | FD | N |
| | | | Sample Date | 03/28/2012 | 03/27/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 |
| | | | SDG | 12C285 | 12C273 | 12C273 | 12C285 | 12C285 | 12C285 |
| | | | Start Depth | 3 | 0 | 2 | 0 | 2.5 | 2.5 |
| | | | End Depth | 4 | 0.5 | 3 | 0.5 | 3.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 300 | 14797-55-8 | Nitrate | mg/kg | 1.67 U | 2.49 | 1.63 J Z | 4.4 | 4.53 | 4.81 |
| 300 | 14797-65-0 | Nitrite-NO2 | mg/kg | -- | -- | -- | -- | -- | -- |

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

| | | | Sample Name | SL-042-NBZ-SS-0.0-0.5 | SL-043-NBZ-SS-0.0-0.5 | SL-044-NBZ-SS-0.0-0.5 | SL-045-NBZ-SS-0.0-0.5 | SL-045-NBZ-SB-4.0-5.0 | SL-046-NBZ-SS-0.0-0.5 | SL-046-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/26/2012 | 03/29/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 |
| | | | SDG | 12C261 | 12C261 | 12C305 | 12C261 | 12C261 | 12C261 | 12C261 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 4 | 0 | 4 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 14797-55-8 | Nitrate | mg/kg | 6.34 | 10.8 | 18.7 | 2.62 U F | 1.19 J Z | 15.7 | 1.03 J Z |
| 300 | 14797-65-0 | Nitrite-NO2 | mg/kg | -- | -- | -- | -- | -- | -- | -- |

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

Appendix A16
Nitrates-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-047-NBZ-SB-4.0-5.0 | SL-048-NBZ-SS-0.0-0.5 | SL-048-NBZ-SB-4.0-5.0 | SL-049-NBZ-SB-2.0-3.0 | SL-050-NBZ-SS-0.0-0.5 | SL-051-NBZ-SB-1.5-2.5 | SL-052-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/26/2012 | 03/23/2012 | 03/15/2012 |
| | | | SDG | 12C254 | 12C254 | 12C254 | 12C254 | 12C261 | 12C254 | 12C135 |
| | | | Start Depth | 4 | 0 | 4 | 2 | 0 | 1.5 | 0 |
| | | | End Depth | 5 | 0.5 | 5 | 3 | 0.5 | 2.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 14797-55-8 | Nitrate | mg/kg | 1.88 | 9.48 | 1.81 | 2.34 | 10.6 | 1.81 | 2.73 |
| 300 | 14797-65-0 | Nitrite-NO2 | mg/kg | -- | -- | -- | -- | -- | -- | 1.54 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-053-NBZ-SS-0.0-0.5 | SL-053-NBZ-SB-3.5-4.5 | SL-054-NBZ-SS-0.0-0.5 | SL-055-NBZ-SS-0.0-0.5 | SL-056-NBZ-SS-0.0-0.5 | SL-056-NBZ-SB-3.0-4.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/15/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/15/2012 | 03/15/2012 |
| | | | SDG | 12C135 | 12C135 | 12C229 | 12C229 | 12C135 | 12C135 |
| | | | Start Depth | 0 | 3.5 | 0 | 0 | 0 | 3 |
| | | | End Depth | 0.5 | 4.5 | 0.5 | 0.5 | 0.5 | 4 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 300 | 14797-55-8 | Nitrate | mg/kg | 2.44 | 2.58 | 4.39 | 9.66 | 0.959 J Z | 2.68 |
| 300 | 14797-65-0 | Nitrite-NO2 | mg/kg | 1.53 U | 1.56 U | -- | -- | 1.54 U | 1.57 U |

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

Appendix A16
Nitrates-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | DUP-02-NBZ-QC-032312 | SL-057-NBZ-SS-0.0-0.5 | SL-058-NBZ-SB-4.0-5.0 | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 | SL-061-NBZ-SB-1.0-2.0 |
| | | | Sample Type | FD | N | N | N | N | N |
| | | | Sample Date | 03/23/2012 | 03/23/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/22/2012 |
| | | | SDG | 12C254 | 12C254 | 12C135 | 12C229 | 12C229 | 12C229 |
| | | | Start Depth | 0 | 0 | 5 | 0 | 0 | 1 |
| | | | End Depth | 0.5 | 0.5 | 5 | 0.5 | 0.5 | 2 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 300 | 14797-55-8 | Nitrate | mg/kg | 1.35 J FD, Z | 2.32 J FD | 1.58 U | 4.1 | 32.3 | 14.6 |
| 300 | 14797-65-0 | Nitrite-NO2 | mg/kg | -- | -- | 1.58 U | -- | -- | -- |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-062-NBZ-SB-2.5-3.5 | SL-063-NBZ-SB-0.5-1.5 | SL-064-NBZ-SB-0.5-1.5 | SL-065-NBZ-SB-1.0-2.0 | SL-066-NBZ-SB-2.0-3.0 | SL-067-NBZ-SB-1.5-2.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/16/2012 |
| | | | SDG | 12C209 | 12C209 | 12C209 | 12C209 | 12C209 | 12C156 |
| | | | Start Depth | 2.5 | 0.5 | 0.5 | 1 | 2 | 1.5 |
| | | | End Depth | 3.5 | 1.5 | 1.5 | 2 | 3 | 2.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 300 | 14797-55-8 | Nitrate | mg/kg | 7.09 | 4.55 | 2.18 | 10.2 | 1.34 J Z | 0.962 J Z |
| 300 | 14797-65-0 | Nitrite-NO2 | mg/kg | -- | -- | -- | -- | -- | 1.63 U |

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

Appendix A16
Nitrates-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | DUP-01-NBZ-QC-031612 | SL-068-NBZ-SB-2.5-3.5 | SL-069-NBZ-SB-3.0-4.0 | SL-071-NBZ-SB-4.0-5.0 | SL-072-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-4.0-5.0 |
| | | | Sample Type | FD | N | N | N | N | N |
| | | | Sample Date | 03/16/2012 | 03/16/2012 | 03/20/2012 | 03/19/2012 | 03/16/2012 | 03/19/2012 |
| | | | SDG | 12C156 | 12C156 | 12C182 | 12C164 | 12C156 | 12C164 |
| | | | Start Depth | 2.5 | 2.5 | 3 | 4 | 4 | 4 |
| | | | End Depth | 3.5 | 3.5 | 4 | 5 | 5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 300 | 14797-55-8 | Nitrate | mg/kg | 5.74 | 4.19 | 2.03 | 1.57 U | 2.74 | 1.12 J Z |
| 300 | 14797-65-0 | Nitrite-NO2 | mg/kg | 1.66 U | 1.65 U | -- | 1.57 U | 1.68 U | 1.62 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-073-NBZ-SB-9.0-10.0 | SL-074-NBZ-SB-0.5-1.5 | SL-075-NBZ-SS-0.0-0.5 | SL-076-NBZ-SS-0.0-0.5 | SL-077-NBZ-SS-0.0-0.5 | SL-077-NBZ-SB-2.5-3.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/19/2012 | 03/19/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 |
| | | | SDG | 12C164 | 12C164 | 12C182 | 12C182 | 12C182 | 12C182 |
| | | | Start Depth | 9 | 0.5 | 0 | 0 | 0 | 2.5 |
| | | | End Depth | 10 | 1.5 | 0.5 | 0.5 | 0.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 300 | 14797-55-8 | Nitrate | mg/kg | 11.1 | 2.76 | 5.34 | 7.11 | 8.53 | 0.912 J Z |
| 300 | 14797-65-0 | Nitrite-NO2 | mg/kg | 1.65 U | 1.56 U | -- | -- | -- | -- |

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

Appendix A16
Nitrates-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-078-NBZ-SS-0.0-0.5 | SL-079-NBZ-SS-0.0-0.5 | SL-080-NBZ-SS-0.0-0.5 | SL-081-NBZ-SS-0.0-0.5 | SL-082-NBZ-SS-0.0-0.5 | SL-082-NBZ-SB-2.5-3.5 | SL-083-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/27/2012 | 03/30/2012 | 04/20/2012 | 04/18/2012 | 04/18/2012 | 04/18/2012 | 04/18/2012 |
| | | | SDG | 12C273 | 12C321 | 12D192 | 12D166 | 12D166 | 12D166 | 12D166 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 3.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 14797-55-8 | Nitrate | mg/kg | 8.71 | 7.33 | 15.9 | 71.8 | 1.85 | 1.09 J Z | 4.04 |
| 300 | 14797-65-0 | Nitrite-NO2 | mg/kg | -- | -- | -- | -- | -- | -- | -- |

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

| | | | Sample Name | SL-084-NBZ-SS-0.0-0.5 | SL-085-NBZ-SS-0.0-0.5 | SL-086-NBZ-SS-0.0-0.5 | SL-087-NBZ-SS-0.0-0.5 | SL-088-NBZ-SS-0.0-0.5 | SL-089-NBZ-SS-0.0-0.5 | SL-090-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/10/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 | 04/17/2012 | 04/20/2012 | 04/17/2012 |
| | | | SDG | 12D092 | 12D092 | 12D176 | 12D176 | 12D154 | 12D192 | 12D154 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 300 | 14797-55-8 | Nitrate | mg/kg | 4.93 | 6.52 | 9.65 | 5.15 | 9.91 | 17.7 | 9.76 |
| 300 | 14797-65-0 | Nitrite-NO2 | mg/kg | -- | -- | -- | -- | -- | -- | -- |

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

Appendix A16
Nitrates-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-091-NBZ-SS-0.0-0.5 | SL-091-NBZ-SB-4.0-5.0 | DUP-05-NBZ-QC-032912 | SL-092-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | FD | N |
| | | | Sample Date | 03/29/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 |
| | | | SDG | 12C305 | 12C305 | 12C305 | 12C305 |
| | | | Start Depth | 0 | 4 | 0 | 0 |
| | | | End Depth | 0.5 | 5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | |
| 300 | 14797-55-8 | Nitrate | mg/kg | 5.41 | 1.50 U | 3.86 | 3.42 |
| 300 | 14797-65-0 | Nitrite-NO2 | mg/kg | -- | -- | -- | -- |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-001-NBZ-SS-0.0-0.5 | SL-002-NBZ-SS-0.0-0.5 | SL-002-NBZ-SB-4.0-5.0 | SL-002-NBZ-SB-7.5-8.5 | SL-003-NBZ-SS-0.0-0.5 | SL-003-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/09/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 |
| | | | SDG | 12D084 | 12C096 | 12C096 | 12C096 | 12C096 | 12C096 |
| | | | Start Depth | 0 | 0 | 4 | 7.5 | 0 | 4 |
| | | | End Depth | 0.5 | 0.5 | 5 | 8.5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 20 | 17 US | 18 U | 18 U | 17 US | 18 U |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 19 U | 17 US | 18 U | 18 U | 17 US | 18 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.9 U | 1.8 US | 1.8 U | 1.8 U | 1.8 US | 1.8 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.9 U | 1.8 US | 1.8 U | 1.8 U | 1.8 US | 1.8 U |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 19 U | 17 US | 18 U | 18 U | 17 US | 18 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.9 U | 1.8 US | 1.8 U | 1.8 U | 1.8 US | 1.8 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.9 U | 1.8 US | 1.8 U | 1.8 U | 1.8 US | 1.8 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.9 U | 1.8 US | 1.8 U | 1.8 U | 1.8 US | 1.8 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.9 U | 1.8 US | 1.8 U | 1.8 U | 1.8 US | 1.8 U |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.9 U | 1.8 US | 1.8 U | 1.8 U | 1.8 US | 1.8 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.9 U | 1.8 US | 1.8 U | 1.8 U | 1.8 US | 1.8 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.9 U | 1.8 US | 1.8 U | 1.8 U | 1.8 US | 1.8 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.9 U | 1.8 US | 1.8 U | 1.8 U | 1.8 US | 1.8 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.9 U | 1.8 US | 1.8 U | 1.8 U | 1.8 US | 1.8 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.9 U | 1.8 US | 1.8 U | 1.8 U | 1.8 US | 1.8 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.9 U | 1.8 US | 1.8 U | 1.8 U | 1.8 US | 1.8 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.9 U | 1.8 US | 1.8 U | 1.8 U | 1.8 US | 1.8 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 19 U | 17 US | 18 U | 18 U | 17 US | 18 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 19 U | 17 US | 18 U | 18 U | 17 US | 18 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.9 U | 1.8 US | 1.8 U | 1.8 U | 1.8 US | 1.8 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 19 U | 17 US | 18 U | 18 U | 17 US | 18 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.9 U | 1.8 US | 1.8 U | 1.8 U | 1.8 US | 1.8 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.9 U | 1.8 US | 1.8 U | 1.8 U | 1.8 US | 1.8 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.9 U | 1.8 US | 1.8 U | 1.8 U | 1.8 US | 1.8 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.9 U | 1.8 US | 1.8 U | 1.8 U | 1.8 US | 1.8 U |

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

Appendix A17
PAHs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-004-NBZ-SS-0.0-0.5 | SL-005-NBZ-SB-4.0-5.0 | SL-006-NBZ-SB-3.0-4.0 | SL-007-NBZ-SB-4.0-5.0 | SL-007-NBZ-SB-9.0-10.0 | SL-008-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/11/2012 | 03/13/2012 | 03/13/2012 | 03/12/2012 | 03/12/2012 | 04/18/2012 |
| | | | SDG | 12D106 | 12C106 | 12C106 | 12C096 | 12C096 | 12D166 |
| | | | Start Depth | 0 | 4 | 3 | 4 | 9 | 4 |
| | | | End Depth | 0.5 | 5 | 4 | 5 | 10 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 13 J Z | 18 U | 18 U | 18 U | 18 U | 19 |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 20 U | 18 U | 18 U | 18 U | 18 U | 18 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 2.1 U | 1.9 U | 1.8 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 2.1 U | 1.9 U | 1.8 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 20 U | 18 U | 18 U | 18 U | 18 U | 18 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 2.1 U | 1.9 U | 1.8 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 2.1 U | 1.9 U | 1.8 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.1 J Z | 1.9 U | 1.8 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 2.1 U | 1.9 U | 1.8 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 2.1 U | 1.9 U | 1.8 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 2.1 U | 1.9 U | 1.1 J Z | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 2.1 U | 1.9 U | 1.8 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 2.1 U | 1.9 U | 1.8 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 2.1 U | 1.9 U | 1.8 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 2.1 U | 1.9 U | 1.8 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 2.1 U | 1.9 U | 1.8 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 2.1 U | 1.9 U | 1.2 J Z | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 20 U | 18 U | 18 U | 18 U | 18 U | 18 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 20 U | 18 U | 18 U | 18 U | 18 U | 18 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 2.1 U | 1.9 U | 1.8 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 20 U | 18 U | 18 U | 18 U | 18 U | 18 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 2.1 U | 1.9 U | 1.8 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 2.1 U | 1.9 U | 1.4 J Z | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 2.1 U | 1.9 U | 1.8 | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 2.1 U | 1.9 U | 1.3 J Z | 1.8 U | 1.9 U | 1.8 U |

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

| | | | | Sample Name | DUP-07-NBZ-QC-041012 | SL-009-NBZ-SS-0.0-0.5 | SL-010-NBZ-SB-4.0-5.0 | SL-011-NBZ-SS-0.0-0.5 | SL-012-NBZ-SS-0.0-0.5 | SL-012-NBZ-SB-0.5-1.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | FD | N | N | N | N | N |
| | | | | Sample Date | 04/10/2012 | 04/10/2012 | 03/12/2012 | 04/12/2012 | 04/19/2012 | 04/19/2012 |
| | | | | SDG | 12D092 | 12D092 | 12C096 | 12D122 | 12D176 | 12D176 |
| | | | | Start Depth | 0 | 0 | 4 | 0 | 0 | 0.5 |
| | | | | End Depth | 0.5 | 0.5 | 5 | 0.5 | 0.5 | 1.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 18 J Z | 18 J Z | 18 U | 11 J Z | 20 | 22 |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 19 U | 19 U | 18 U | 19 U | 19 U | 20 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 2.0 U | 2.0 U | 1.8 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.3 J Z | 1.5 J Z | 1.8 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 19 U | 19 U | 18 U | 19 U | 19 U | 20 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.2 J Z | 1.4 J Z | 1.8 U | 1.3 J Z | 1.1 J Z | 2.0 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 2.0 U | 2.0 U | 1.8 U | 1.1 J Z | 1.3 J Z | 2.0 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.5 J Z | 1.8 J Z | 1.8 U | 1.8 J Z | 1.3 J Z | 2.0 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.4 J Z | 1.6 J Z | 1.8 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 2.0 UJ FD | 1.4 J FD, Z | 1.8 U | 1.4 J Z | 1.1 J Z | 2.0 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 2.0 U | 2.0 U | 1.8 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 2.0 UJ FD | 1.6 J FD, Z | 1.8 U | 0.98 J Z | 1.0 J Z | 2.0 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 2.0 U | 2.0 U | 1.8 U | 1.4 J Z | 1.2 J Z | 2.0 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 2.0 UJ FD | 1.1 J FD, Z | 1.8 U | 1.9 U | 1.1 J Z | 2.0 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 0.99 J FD, Z | 1.7 J FD, Z | 1.8 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 2.0 U | 2.0 U | 1.8 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 2.0 U | 2.0 U | 1.8 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 19 U | 19 U | 18 U | 19 U | 19 U | 20 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 19 U | 19 U | 18 U | 19 U | 19 U | 20 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.0 J Z | 1.2 J Z | 1.8 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 19 U | 19 U | 18 U | 19 U | 19 U | 20 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.7 J FD, Z | 2.0 UJ FD | 1.8 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 2.0 U | 2.0 U | 1.8 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 2.0 U | 2.0 U | 1.8 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 2.0 U | 2.0 U | 1.8 U | 1.9 U | 2.0 U | 2.0 U |

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

Appendix A17
PAHs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-013-NBZ-SS-0.0-0.5 | SL-014-NBZ-SS-0.0-0.5 | SL-015-NBZ-SS-0.0-0.5 | SL-016-NBZ-SS-0.0-0.5 | SL-017-NBZ-SS-0.0-0.5 | SL-018-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/16/2012 | 04/17/2012 | 03/13/2012 | 04/20/2012 | 04/19/2012 | 04/20/2012 |
| | | | SDG | 12D146 | 12D154 | 12C106 | 12D192 | 12D176 | 12D192 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 25 U | 16 J Z | 17 U | 38 | 29 | 36 |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 25 U | 21 U | 17 U | 21 U | 24 U | 20 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 2.5 U | 2.1 U | 1.7 U | 2.1 U | 2.4 U | 2.1 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 2.5 U | 1.2 J Z | 1.7 U | 6.2 | 2.3 J Z | 3 |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 25 U | 21 U | 17 U | 21 U | 24 U | 20 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 2.5 U | 1.2 J Z | 1.7 U | 3.6 | 1.5 J Z | 2.4 |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 2.5 U | 2.1 U | 1.7 U | 2.6 | 1.6 J Z | 2.1 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 2.5 U | 1.5 J Z | 1.7 U | 5.6 | 2.3 J Z | 2.8 |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 2.5 U | 1.7 J Z | 1.7 U | 6 | 2.3 J Z | 2.3 |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 2.5 U | 2.1 U | 1.7 U | 2.3 | 2.4 U | 2.1 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.3 J Z | 2.1 U | 1.7 U | 2.1 U | 2.4 U | 2.1 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 2.5 U | 2.1 U | 1.7 U | 4.1 | 1.4 J Z | 1.7 J Z |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 2.5 U | 2.1 U | 1.7 U | 3.9 | 1.4 J Z | 2.4 |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 2.5 U | 2.1 U | 1.7 U | 2.1 U | 2.4 U | 2.1 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 2.5 U | 2.1 U | 1.7 U | 3.9 | 2.4 U | 3.5 |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 2.5 U | 2.1 U | 1.7 U | 2.1 U | 2.4 U | 2.1 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 2.5 U | 2.1 U | 1.7 U | 2.1 U | 2.4 U | 2.1 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 25 U | 21 U | 17 U | 21 U | 24 U | 20 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 25 U | 21 U | 17 U | 21 U | 24 U | 20 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 2.5 U | 2.1 U | 1.7 U | 3 | 1.4 J Z | 1.4 J Z |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 25 U | 21 U | 17 U | 25 | 24 U | 91 |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 2.5 U | 2.1 U | 1.7 U | 2.1 U | 2.7 | 2.1 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 2.5 U | 2.1 U | 1.7 U | 2.1 U | 2.4 U | 2.1 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.6 J Z | 2.1 U | 1.7 U | 2.1 U | 2.4 U | 2.1 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.3 J Z | 2.1 U | 1.7 U | 2.1 U | 2.4 U | 2.1 U |

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

| | | | | Sample Name | SL-019-NBZ-SS-0.0-0.5 | SL-019-NBZ-SB-3.0-4.0 | SL-020-NBZ-SS-0.0-0.5 | SL-020-NBZ-SB-2.5-3.5 | SL-021-NBZ-SS-0.0-0.5 | SL-021-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/13/2012 | 03/13/2012 | 04/04/2012 | 04/04/2012 | 03/13/2012 | 03/13/2012 |
| | | | | SDG | 12C106 | 12C106 | 12D031 | 12D031 | 12C106 | 12C106 |
| | | | | Start Depth | 0 | 3 | 0 | 2.5 | 0 | 4 |
| | | | | End Depth | 0.5 | 4 | 0.5 | 3.5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 11 J Z | 18 U | 48 | 14 J Z | 17 U | 17 U |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 17 U | 18 U | 18 U | 19 U | 17 U | 17 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.9 U | 1.7 U | 1.8 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.2 J Z | 1.8 U | 3.1 | 1.9 U | 1.7 U | 1.8 U |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 17 U | 18 U | 18 U | 19 U | 17 U | 17 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 0.90 J Z | 1.8 U | 1.9 U | 1.9 U | 1.7 U | 1.8 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.9 U | 1.7 U | 1.8 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.9 U | 1.7 U | 1.8 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.3 J Z | 1.8 U | 3.3 | 1.9 U | 1.7 U | 1.8 U |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.9 U | 1.7 U | 1.8 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.8 U | 1.8 U | 1.3 J Z | 1.9 U | 1.7 U | 1.8 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.8 U | 1.8 U | 1.8 J Z | 1.9 U | 1.7 U | 1.8 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.9 U | 1.7 U | 1.8 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.9 U | 1.7 U | 1.8 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.8 U | 1.8 U | 2.1 | 1.9 U | 1.7 U | 1.8 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.9 U | 1.7 U | 1.8 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.9 U | 1.7 U | 1.8 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 17 U | 18 U | 18 U | 19 U | 17 U | 17 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 17 U | 18 U | 18 U | 19 U | 17 U | 17 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.8 U | 1.8 U | 2.1 | 1.9 U | 1.7 U | 1.8 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 17 U | 18 U | 18 | 19 U | 17 U | 17 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.8 U | 1.8 U | 2.9 | 1.9 U | 1.7 U | 1.8 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.8 U | 1.8 U | 1.2 J Z | 1.9 U | 1.7 U | 1.8 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.8 U | 1.8 U | 1.3 J Z | 1.9 U | 1.7 U | 1.8 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.8 U | 1.8 U | 1.3 J Z | 1.9 U | 1.7 U | 1.8 U |

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

Appendix A17
PAHs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-022-NBZ-SS-0.0-0.5 | SL-022-NBZ-SB-4.0-5.0 | SL-022-NBZ-SB-9.0-10.0 | SL-023-NBZ-SS-0.0-0.5 | SL-023-NBZ-SB-4.0-5.0 | SL-023-NBZ-SB-8.5-9.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 |
| | | | SDG | 12C121 | 12C121 | 12C121 | 12C121 | 12C121 | 12C121 |
| | | | Start Depth | 0 | 4 | 9 | 0 | 4 | 8.5 |
| | | | End Depth | 0.5 | 5 | 10 | 0.5 | 5 | 9.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 10 J Z | 17 U | 18 U | 12 J Z | 17 U | 18 U |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 17 U | 17 U | 18 U | 17 U | 17 U | 18 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.6 J Z | 1.8 U | 1.8 U | 9.5 | 1.8 U | 1.8 U |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 17 U | 17 U | 18 U | 17 U | 17 U | 18 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.0 J Z | 1.8 U | 1.8 U | 4.1 | 1.8 U | 1.8 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.8 U | 1.8 U | 1.8 U | 2.8 | 1.8 U | 1.8 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.8 U | 1.8 U | 1.8 U | 6.7 | 1.8 U | 1.8 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.8 | 1.8 U | 1.8 U | 11 | 1.8 U | 1.8 U |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.8 U | 1.8 U | 1.8 U | 2.1 | 1.8 U | 1.8 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.8 U | 1.8 U | 1.8 U | 4.5 | 1.8 U | 1.8 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.8 U | 1.8 U | 1.8 U | 4.2 | 1.8 U | 1.8 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.8 U | 1.8 U | 1.8 U | 3 | 1.8 U | 1.8 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 17 U | 17 U | 18 U | 17 U | 17 U | 18 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 17 U | 17 U | 18 U | 17 U | 17 U | 18 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.0 J Z | 1.8 U | 1.8 U | 5.8 | 1.8 U | 1.8 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 17 U | 17 U | 18 U | 17 U | 17 U | 18 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-024-NBZ-SS-0.0-0.5 | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 | SL-028-NBZ-SS-0.0-0.5 | SL-029-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 03/15/2012 |
| | | | SDG | 12C121 | 12D004 | 12D004 | 12D004 | 12D004 | 12C135 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 14 J Z | 20 | 31 J Q | 17 J Z | 25 | 17 U |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 17 U | 18 U | 18 U | 19 U | 18 U | 17 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.0 U | 1.9 U | 1.2 J Z |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.8 U | 1.5 J Z | 1.8 U | 1.8 J Z | 1.9 U | 14 |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 17 U | 18 U | 18 U | 19 U | 18 U | 17 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.8 U | 1.4 J Z | 1.8 U | 1.2 J Z | 1.9 U | 8.7 |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.8 U | 1.3 J Z | 1.8 U | 1.2 J Z | 1.9 U | 7.2 |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.8 U | 1.5 J Z | 1.8 U | 1.6 J Z | 1.9 U | 17 |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.8 U | 1.4 J Z | 1.8 U | 2.1 | 1.9 U | 18 |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.8 U | 1.1 J Z | 1.8 U | 2.0 U | 1.9 U | 4.8 |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.0 U | 1.9 U | 2.4 |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.8 U | 1.3 J Z | 1.8 U | 1.1 J Z | 1.9 U | 9.5 |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.8 U | 1.2 J Z | 1.8 U | 2.0 U | 1.9 U | 11 |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.0 U | 1.9 U | 1.9 |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.8 U | 2.1 | 1.8 U | 1.2 J Z | 1.9 U | 9.8 |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.0 U | 1.9 U | 1.8 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.0 U | 1.9 U | 1.8 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 17 U | 18 U | 18 U | 19 U | 18 U | 17 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 17 U | 18 U | 18 U | 19 U | 18 U | 17 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.8 U | 1.2 J Z | 1.8 U | 2.0 U | 1.9 U | 2.5 |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 17 U | 16 J Z | 20 | 19 | 18 U | 17 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.0 U | 1.9 U | 1.8 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.0 U | 1.9 U | 1.8 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.8 U | 1.9 U | 0.93 J Z | 2.0 U | 1.9 U | 1.8 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.0 U | 1.9 U | 1.8 U |

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

Appendix A17
PAHs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 | SL-034-NBZ-SS-0.0-0.5 | SL-035-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 |
| | | | SDG | 12C121 | 12D018 | 12D018 | 12D018 | 12D018 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 25 | 22 | 60 | 39 | 24 | 21 |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 62 | 18 U | 19 U | 18 U | 20 U | 19 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.7 U | 1.8 U | 1.9 U | 1.9 U | 2.0 U | 1.9 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 5.3 | 1.8 U | 2.7 | 1.9 U | 1.8 J Z | 1.9 U |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 17 U | 18 U | 19 U | 18 U | 20 U | 19 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 4 | 1.8 U | 2.1 | 1.9 U | 1.6 J Z | 1.9 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 3 | 1.8 U | 1.8 J Z | 1.9 U | 2.0 U | 1.9 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 6.3 | 1.8 U | 2.4 | 1.9 U | 1.9 J Z | 1.9 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 6.7 | 1.8 U | 2.7 | 1.9 U | 1.9 J Z | 1.5 J Z |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 2.2 | 1.8 U | 1.9 U | 1.9 U | 2.0 U | 1.9 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 0.98 J Z | 1.8 U | 1.0 J Z | 1.9 U | 2.0 U | 1.9 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 3.3 | 1.8 U | 1.6 J Z | 1.9 U | 1.1 J Z | 1.9 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 4 | 1.8 U | 1.9 U | 1.9 U | 2.0 U | 1.9 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.7 U | 1.8 U | 1.9 U | 1.9 U | 2.0 U | 1.9 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 3.7 | 1.8 U | 2.1 | 1.9 U | 2.0 U | 1.9 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.7 U | 1.8 U | 1.9 U | 1.9 U | 2.0 U | 1.9 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.7 U | 1.8 U | 1.1 J Z | 1.9 U | 2.0 U | 1.9 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 17 U | 18 U | 19 U | 18 U | 20 U | 19 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 17 U | 18 U | 19 U | 18 U | 20 U | 19 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.3 J Z | 1.8 U | 1.7 J Z | 1.9 U | 1.1 J Z | 1.9 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 17 U | 18 U | 16 J Z | 18 U | 20 U | 19 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.7 U | 1.8 U | 1.9 U | 1.9 U | 2.0 U | 1.9 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.7 U | 1.8 U | 1.1 J Z | 1.9 U | 2.0 U | 1.9 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.7 U | 1.8 U | 1.2 J Z | 1.9 U | 2.0 U | 1.9 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.7 U | 1.8 U | 1.4 J Z | 1.9 U | 2.0 U | 1.9 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-035-NBZ-SB-2.0-3.0 | SL-036-NBZ-SB-4.0-5.0 | SL-036-NBZ-SB-7.5-8.5 | SL-037-NBZ-SB-3.0-4.0 | SL-038-NBZ-SS-0.0-0.5 | SL-039-NBZ-SB-2.0-3.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 |
| | | | SDG | 12D018 | 12C285 | 12C285 | 12C285 | 12C273 | 12C273 |
| | | | Start Depth | 2 | 4 | 7.5 | 3 | 0 | 2 |
| | | | End Depth | 3 | 5 | 8.5 | 4 | 0.5 | 3 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 38 | 16 J Z | 32 | 17 J Z | 62 | 40 |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 18 U | 19 U | 22 U | 19 U | 20 U | 19 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.8 U | 1.9 U | 2.2 U | 1.9 U | 2.1 U | 1.9 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.8 U | 1.9 U | 2.2 U | 1.9 U | 2.1 U | 1.9 U |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 18 U | 19 U | 22 U | 19 U | 20 U | 19 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.8 U | 1.9 U | 2.2 U | 1.9 U | 7.6 | 1.9 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.8 U | 1.9 U | 2.2 U | 1.9 U | 2.1 U | 1.9 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.8 U | 1.9 U | 2.2 U | 1.9 U | 6 | 1.9 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.8 U | 1.9 U | 2.2 U | 1.9 U | 2.1 U | 1.9 U |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.8 U | 1.9 U | 2.2 U | 1.9 U | 2.1 U | 1.9 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.0 J Z | 1.9 U | 2.2 U | 1.9 U | 2.1 U | 1.9 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.8 U | 1.9 U | 2.2 U | 1.9 U | 2.1 U | 1.9 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.8 U | 1.9 U | 2.2 U | 1.9 U | 2.1 U | 1.9 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.8 U | 1.9 U | 2.2 U | 1.9 U | 2.1 U | 1.9 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.8 U | 1.9 U | 2.2 U | 1.9 U | 15 | 1.9 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.8 U | 1.9 U | 2.2 U | 1.9 U | 2.1 U | 1.9 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.0 J Z | 1.9 U | 2.2 U | 1.9 U | 2.1 U | 1.9 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 18 U | 19 U | 22 U | 19 U | 20 U | 19 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 18 U | 19 U | 22 U | 19 U | 20 U | 19 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.8 U | 1.9 U | 2.2 U | 1.9 U | 2.1 U | 1.9 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 18 U | 19 U | 22 U | 19 U | 20 U | 19 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.8 U | 1.9 U | 2.2 U | 1.9 U | 2.1 U | 1.9 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.8 U | 1.9 U | 2.2 U | 1.9 U | 2.1 U | 1.9 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.1 J Z | 1.9 U | 2.2 U | 1.9 U | 2.1 U | 1.9 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.8 U | 1.9 U | 2.2 U | 1.9 U | 2.1 U | 1.9 U |

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

Appendix A17
PAHs-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-040-NBZ-SS-0.0-0.5 | DUP-03-NBZ-QC-032812 | SL-040-NBZ-SB-2.5-3.5 | SL-042-NBZ-SS-0.0-0.5 | SL-043-NBZ-SS-0.0-0.5 | SL-044-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | FD | N | N | N | N |
| | | | | Sample Date | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 |
| | | | | SDG | 12C285 | 12C285 | 12C285 | 12C261 | 12C261 | 12C305 |
| | | | | Start Depth | 0 | 2.5 | 2.5 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 3.5 | 3.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 48 | 65 J FD | 250 J FD, Q | 28 J Z | 46 | 340 | |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 19 U | 18 U | 17 U | 39 U | 19 U | 87 U | |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.2 J Z | 1.8 U | 1.8 U | 5.4 | 1.9 U | 8.9 | |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 50 | 3.7 | 100 | |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 19 U | 26 J FD | 50 J FD | 39 U | 19 U | 87 U | |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.6 J Z | 1.3 J FD, Z | 1.8 UJ FD | 25 | 2 | 99 | |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 4.0 U | 1.9 U | 48 | |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 29 | 1.9 U | 120 | |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 76 | 4.8 | 120 | |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 6.6 | 1.9 U | 26 | |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 4.0 U | 1.9 U | 8.8 U | |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 25 | 2.5 | 82 | |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 15 | 1.9 U | 78 | |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 4.0 U | 1.9 U | 19 | |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 17 | 2.7 | 68 | |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.9 U | 1.8 U | 1.8 U | 4.0 U | 1.9 U | 8.8 U | |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 2.9 J Z | 1.9 U | 8.8 U | |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 19 U | 18 U | 17 U | 39 U | 19 U | 87 U | |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 66 | 18 U | 17 U | 39 U | 19 U | 87 U | |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.5 J Z | 1.8 U | 1.8 U | 24 | 2.2 | 50 | |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 19 U | 18 U | 17 U | 39 U | 36 | 87 U | |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 4.0 U | 1.9 U | 8.8 U | |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 4.0 U | 1.9 U | 8.8 U | |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 4.0 U | 1.1 J Z | 8.8 U | |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 4.0 U | 1.9 U | 8.8 U | |

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

| | | | | Sample Name | SL-045-NBZ-SS-0.0-0.5 | SL-045-NBZ-SB-4.0-5.0 | SL-046-NBZ-SS-0.0-0.5 | SL-046-NBZ-SB-4.0-5.0 | SL-047-NBZ-SB-4.0-5.0 | SL-048-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/26/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 | 03/23/2012 | 03/23/2012 |
| | | | | SDG | 12C261 | 12C261 | 12C261 | 12C261 | 12C254 | 12C254 |
| | | | | Start Depth | 0 | 4 | 0 | 4 | 4 | 0 |
| | | | | End Depth | 0.5 | 5 | 0.5 | 5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 36 U | 18 U | 39 U | 18 U | 17 U | 13 J Z |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 36 U | 18 U | 39 U | 18 U | 17 U | 19 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 3.7 U | 1.8 U | 4.0 U | 1.8 U | 1.8 U | 1.2 J Z |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 3.7 U | 1.4 J Z | 4.1 | 1.8 U | 1.8 U | 43 |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 36 U | 18 U | 39 U | 18 U | 17 U | 19 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 18 | 2 | 6.5 | 1.8 U | 1.8 U | 20 |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 3.7 U | 1.7 J Z | 4.0 U | 1.8 U | 1.8 U | 18 |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 3.7 U | 2.3 | 4.0 U | 1.8 U | 1.8 U | 65 |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 3.7 U | 1.5 J Z | 4.2 | 1.8 U | 1.8 U | 42 |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 3.7 U | 2.3 | 4.0 U | 1.8 U | 1.8 U | 19 |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 3.7 U | 1.8 U | 4.0 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 3.7 U | 1.7 J Z | 4.0 U | 1.8 U | 1.8 U | 48 |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 3.7 U | 2.1 | 4.0 U | 1.8 U | 1.8 U | 41 |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 3.7 U | 1.6 J Z | 4.0 U | 1.8 U | 1.8 U | 5.4 |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 3.7 U | 1.3 J Z | 14 | 1.8 U | 1.8 U | 40 |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 3.7 U | 1.8 U | 4.0 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 3.7 U | 1.8 U | 4.0 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 36 U | 18 U | 39 U | 18 U | 17 U | 19 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 36 U | 18 U | 39 U | 18 U | 17 U | 19 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 3.7 U | 1.8 U | 4.0 U | 1.8 U | 1.8 U | 4.6 |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 67 | 18 U | 39 U | 18 U | 17 U | 16 J Z |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 3.7 U | 1.8 U | 4.0 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 3.7 U | 1.8 U | 4.0 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 3.7 U | 1.8 U | 4.0 U | 1.8 U | 1.8 U | 2.4 |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 3.7 U | 1.8 U | 4.0 U | 1.8 U | 1.8 U | 1.9 U |

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

Appendix A17
PAHs-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-048-NBZ-SB-4.0-5.0 | SL-049-NBZ-SB-2.0-3.0 | SL-050-NBZ-SS-0.0-0.5 | SL-051-NBZ-SB-1.5-2.5 | SL-052-NBZ-SS-0.0-0.5 | SL-053-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/23/2012 | 03/23/2012 | 03/26/2012 | 03/23/2012 | 03/15/2012 | 03/15/2012 |
| | | | | SDG | 12C254 | 12C254 | 12C261 | 12C254 | 12C135 | 12C135 |
| | | | | Start Depth | 4 | 2 | 0 | 1.5 | 0 | 0 |
| | | | | End Depth | 5 | 3 | 0.5 | 2.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 19 | 16 J Z | 18 U | 39 | 53 | 19 |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 17 U | 17 U | 18 U | 17 U | 17 U | 17 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 120 | 1.8 U | 1.9 U | 1.8 U | 1.7 U | 1.3 J Z |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1100 | 1.6 J Z | 1.9 U | 1.8 U | 7.3 | 16 |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 17 U | 17 U | 18 U | 17 U | 17 U | 17 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 220 | 1.8 U | 2.1 | 1.8 U | 4.9 | 7.6 |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 200 | 1.8 U | 1.9 U | 1.8 U | 4.2 | 6.6 |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 750 | 1.8 U | 1.9 U | 1.8 U | 9.1 | 13 |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1400 | 1.9 | 1.9 U | 1.8 U | 6.8 | 15 |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 240 | 1.8 U | 1.9 U | 1.8 U | 2.8 | 5.4 |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.0 J Z | 1.8 U | 1.9 U | 1.8 U | 1.7 U | 1.7 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 510 | 1.1 J Z | 1.9 U | 1.8 U | 6.2 | 12 |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 490 | 1.8 U | 1.9 U | 1.8 U | 6.9 | 11 |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 63 | 1.8 U | 1.9 U | 1.8 U | 0.98 J Z | 1.7 |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 620 | 2.1 | 1.9 U | 1.8 U | 4.9 | 9.2 |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.8 U | 1.7 U | 1.7 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 29 | 1.8 U | 1.9 U | 1.8 U | 1.7 U | 1.7 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 17 U | 17 U | 18 U | 17 U | 17 U | 17 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 17 U | 17 U | 18 U | 17 U | 33 | 17 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 540 | 1.8 U | 1.9 U | 1.8 U | 1.7 U | 3.9 |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 14 J Z | 17 | 18 U | 9.3 J Z | 17 U | 17 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 17 | 1.8 U | 1.9 U | 1.8 U | 1.7 U | 1.7 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.8 U | 1.7 U | 1.7 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.8 U | 1.7 U | 1.7 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.8 U | 1.7 U | 1.7 U |

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

| | | | | Sample Name | SL-053-NBZ-SB-3.5-4.5 | SL-054-NBZ-SS-0.0-0.5 | SL-055-NBZ-SS-0.0-0.5 | SL-056-NBZ-SS-0.0-0.5 | SL-056-NBZ-SB-3.0-4.0 | DUP-02-NBZ-QC-032312 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | FD |
| | | | | Sample Date | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/15/2012 | 03/15/2012 | 03/23/2012 |
| | | | | SDG | 12C135 | 12C229 | 12C229 | 12C135 | 12C135 | 12C254 |
| | | | | Start Depth | 3.5 | 0 | 0 | 0 | 3 | 0 |
| | | | | End Depth | 4.5 | 0.5 | 0.5 | 0.5 | 4 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 17 U | 27 | 18 U | 16 J Z | 17 U | 21 J FD |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 17 U | 18 U | 18 U | 17 U | 17 U | 18 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.8 U | 1.5 J Z | 1.9 U | 1.7 U | 1.8 U | 7.6 J FD |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.8 U | 20 | 2.5 | 8 | 1.8 U | 140 J FD |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 17 U | 18 U | 18 U | 17 U | 17 U | 18 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.8 U | 16 | 1.9 U | 7.1 | 1.8 U | 150 J FD |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.8 U | 9.6 | 1.9 U | 6.4 | 1.8 U | 110 J FD |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.8 U | 22 | 1.9 U | 10 | 1.8 U | 250 J FD |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.8 U | 20 | 2.6 | 7.2 | 1.8 U | 100 J FD |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.8 U | 4.9 | 1.9 U | 5.5 | 1.8 U | 80 J FD |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.7 U | 1.8 U | 3.5 J FD |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.8 U | 20 | 1.4 J Z | 6.6 | 1.8 U | 150 J FD |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.8 U | 19 | 1.4 J Z | 8.9 | 1.8 U | 190 J FD |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.5 J Z | 1.8 U | 45 J FD |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.8 U | 13 | 1.9 U | 5.3 | 1.8 U | 120 J FD |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.7 U | 1.8 U | 1.8 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.7 U | 1.8 U | 1.4 J FD, Z |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 17 U | 18 U | 18 U | 17 U | 17 U | 18 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 17 U | 11 J Z | 18 U | 17 U | 17 U | 18 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.8 U | 5.3 | 1.9 U | 1.8 | 1.8 U | 25 J FD |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 17 U | 23 | 18 U | 17 U | 17 U | 14 J Z |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.7 U | 1.8 U | 1.8 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.7 U | 1.8 U | 1.8 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.7 U | 1.8 U | 1.8 UJ FD |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.7 U | 1.8 U | 1.8 U |

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

Appendix A17
PAHs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-057-NBZ-SS-0.0-0.5 | SL-058-NBZ-SB-4.0-5.0 | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 | SL-061-NBZ-SB-1.0-2.0 | SL-062-NBZ-SB-2.5-3.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/23/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/22/2012 | 03/21/2012 |
| | | | SDG | 12C254 | 12C135 | 12C229 | 12C229 | 12C229 | 12C209 |
| | | | Start Depth | 0 | 5 | 0 | 0 | 1 | 2.5 |
| | | | End Depth | 0.5 | 5 | 0.5 | 0.5 | 2 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 62 J FD | 18 U | 25 | 21 | 18 U | 11 J Z |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 18 U | 18 U | 18 U | 18 U | 18 U | 17 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.8 UJ FD | 1.8 U | 1.9 U | 1.8 U | 1.8 U | 1.8 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 24 J FD | 1.8 U | 1.8 J Z | 8.2 | 1.8 U | 1.8 U |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 18 U | 18 U | 18 U | 18 U | 18 U | 17 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 23 J FD | 1.8 U | 1.7 J Z | 4.9 | 1.8 U | 1.8 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 19 J FD | 1.8 U | 1.9 U | 4.8 | 1.8 U | 1.8 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 29 J FD | 1.8 U | 1.9 U | 7.6 | 1.8 U | 1.8 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 22 J FD | 1.8 U | 1.9 | 9.9 | 1.8 U | 1.8 U |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 11 J FD | 1.8 U | 1.9 U | 3.3 | 1.8 U | 1.8 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.1 J FD, Z | 1.8 U | 1.9 U | 1.8 U | 1.8 U | 1.8 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 52 J FD | 1.8 U | 1.9 U | 5.8 | 1.8 U | 1.8 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 25 J FD | 1.8 U | 1.9 U | 6.7 | 1.8 U | 1.8 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 5.3 J FD | 1.8 U | 1.9 U | 1.8 U | 1.8 U | 1.8 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 15 J FD | 1.8 U | 1.9 U | 5.6 | 1.8 U | 1.8 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.8 U | 1.8 U | 1.8 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.8 UJ FD | 1.8 U | 1.9 U | 1.8 U | 1.8 U | 1.8 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 18 U | 18 U | 18 U | 18 U | 18 U | 17 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 18 U | 18 U | 18 U | 18 U | 18 U | 17 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 6.4 J FD | 1.8 U | 1.9 U | 2.1 | 1.8 U | 1.8 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 14 J Z | 18 U | 18 U | 41 | 18 U | 17 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.8 U | 1.8 U | 1.8 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.8 U | 1.8 U | 1.8 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.0 J FD, Z | 1.8 U | 1.9 U | 1.8 U | 1.8 U | 1.8 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.8 U | 1.8 U | 1.8 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-063-NBZ-SB-0.5-1.5 | SL-064-NBZ-SB-0.5-1.5 | SL-065-NBZ-SB-1.0-2.0 | SL-066-NBZ-SB-2.0-3.0 | SL-067-NBZ-SB-1.5-2.5 | DUP-01-NBZ-QC-031612 |
| | | | Sample Type | N | N | N | N | N | FD |
| | | | Sample Date | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/16/2012 | 03/16/2012 |
| | | | SDG | 12C209 | 12C209 | 12C209 | 12C209 | 12C156 | 12C156 |
| | | | Start Depth | 0.5 | 0.5 | 1 | 2 | 1.5 | 2.5 |
| | | | End Depth | 1.5 | 1.5 | 2 | 3 | 2.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 19 U | 18 U | 18 U | 9.9 J Z | 18 U | 18 U |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 19 U | 18 U | 18 U | 17 U | 18 U | 18 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 19 U | 18 U | 18 U | 17 U | 18 U | 18 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 19 U | 18 U | 18 U | 17 U | 18 U | 18 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 19 U | 18 U | 18 U | 17 U | 18 U | 18 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 15 J Z | 18 U | 18 U | 17 U | 18 U | 18 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.9 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.9 U |

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

Appendix A17
PAHs-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-068-NBZ-SB-2.5-3.5 | SL-069-NBZ-SB-3.0-4.0 | SL-070-NBZ-SS-0.0-0.5 | SL-071-NBZ-SB-4.0-5.0 | SL-072-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/16/2012 | 03/20/2012 | 03/20/2012 | 03/19/2012 | 03/16/2012 | 03/19/2012 |
| | | | | SDG | 12C156 | 12C182 | 12C182 | 12C164 | 12C156 | 12C164 |
| | | | | Start Depth | 2.5 | 3 | 0 | 4 | 4 | 4 |
| | | | | End Depth | 3.5 | 4 | 0.5 | 5 | 5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 18 U | 18 U | 11 J Z | 9.5 J Z | 19 U | 18 U |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 18 U | 18 U | 19 U | 17 U | 19 U | 18 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.9 U | 1.8 U | 1.7 J Z | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 18 U | 18 U | 19 U | 17 U | 19 U | 18 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.9 U | 1.8 U | 1.2 J Z | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.9 U | 1.8 U | 1.6 J Z | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.9 U | 1.8 U | 1.9 | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.9 U | 1.8 U | 1.1 J Z | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.9 U | 1.8 U | 1.1 J Z | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 18 U | 18 U | 19 U | 17 U | 19 U | 18 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 18 U | 18 U | 19 U | 17 U | 19 U | 18 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 18 U | 18 U | 19 U | 17 U | 19 U | 18 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U |

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

| | | | | Sample Name | SL-073-NBZ-SB-9.0-10.0 | SL-074-NBZ-SB-0.5-1.5 | SL-075-NBZ-SS-0.0-0.5 | SL-076-NBZ-SS-0.0-0.5 | SL-077-NBZ-SS-0.0-0.5 | SL-077-NBZ-SB-2.5-3.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/19/2012 | 03/19/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 |
| | | | | SDG | 12C164 | 12C164 | 12C182 | 12C182 | 12C182 | 12C182 |
| | | | | Start Depth | 9 | 0.5 | 0 | 0 | 0 | 2.5 |
| | | | | End Depth | 10 | 1.5 | 0.5 | 0.5 | 0.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 18 U | 17 U | 12 J Z | 19 U | 21 | 18 U |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 18 U | 17 U | 18 U | 19 U | 19 U | 18 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.9 U | 2.0 U | 1.8 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.9 U | 1.8 U | 1.8 J Z | 1.9 U | 2.6 | 1.8 U |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 18 U | 17 U | 18 U | 19 U | 19 U | 18 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.9 U | 1.8 U | 1.3 J Z | 1.9 U | 2 | 1.8 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.9 U | 2.0 U | 1.8 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.9 U | 2.7 | 1.8 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.9 U | 1.8 U | 2.2 | 1.9 U | 2.7 | 1.8 U |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.9 U | 2.0 U | 1.8 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.9 U | 2.0 U | 1.8 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.9 U | 1.8 U | 1.1 J Z | 1.9 U | 1.8 J Z | 1.8 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.9 U | 2.0 U | 1.8 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.9 U | 2.0 U | 1.8 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.9 U | 2.0 U | 1.8 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.9 U | 2.0 U | 1.8 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.9 U | 2.0 U | 1.8 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 18 U | 17 U | 18 U | 19 U | 19 U | 18 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 18 U | 17 U | 18 U | 19 U | 19 U | 18 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.9 U | 1.8 U | 1.1 J Z | 1.9 U | 1.3 J Z | 1.8 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 18 U | 17 U | 18 U | 19 U | 19 U | 18 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.9 U | 2.0 U | 1.8 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.9 U | 2.0 U | 1.8 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.9 U | 2.0 U | 1.8 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.9 U | 1.8 U | 1.9 U | 1.9 U | 2.0 U | 1.8 U |

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

Appendix A17
PAHs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-078-NBZ-SS-0.0-0.5 | SL-079-NBZ-SS-0.0-0.5 | SL-080-NBZ-SS-0.0-0.5 | SL-081-NBZ-SS-0.0-0.5 | SL-082-NBZ-SS-0.0-0.5 | SL-082-NBZ-SB-2.5-3.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/27/2012 | 03/30/2012 | 04/20/2012 | 04/18/2012 | 04/18/2012 | 04/18/2012 |
| | | | SDG | 12C273 | 12C321 | 12D192 | 12D166 | 12D166 | 12D166 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 2.5 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 19 | 19 U | 32 | 31 | 26 | 19 U |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 19 U | 19 U | 19 U | 20 U | 19 U | 19 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.9 U | 2.0 U | 2.0 U | 2.0 U | 1.9 U | 1.9 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.9 U | 2.2 | 3 | 3.6 | 1.3 J Z | 1.9 U |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 19 U | 19 U | 19 U | 20 U | 19 U | 19 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.9 U | 2 | 3.1 | 2.0 U | 1.9 U | 1.9 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.9 U | 2.0 U | 1.7 J Z | 2.0 U | 1.9 U | 1.9 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.9 U | 2.6 | 3.1 | 2.0 U | 1.9 U | 1.9 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.9 U | 2.7 | 2.7 | 4.5 | 1.9 U | 1.9 U |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.9 U | 2.0 U | 2.0 U | 2.0 U | 1.9 U | 1.9 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.9 U | 2.0 U | 2.0 U | 2.0 U | 1.9 U | 1.9 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.9 U | 1.4 J Z | 2 | 2.0 U | 1.9 U | 1.9 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.9 U | 2.0 U | 2.1 | 2.0 U | 1.9 U | 1.9 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.9 U | 2.0 U | 2.0 U | 2.0 U | 1.9 U | 1.9 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.9 U | 2.0 U | 2.7 | 1.8 J Z | 7.7 | 1.9 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.9 U | 2.0 U | 2.0 U | 2.0 U | 1.9 U | 1.9 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.9 U | 2.0 U | 2.0 U | 2.0 U | 1.9 U | 1.9 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 19 U | 19 U | 19 U | 20 U | 19 U | 19 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 19 U | 19 U | 19 U | 20 U | 19 U | 19 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.9 U | 2.0 U | 1.9 J Z | 2.0 U | 1.1 J Z | 1.9 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 19 U | 10 J Z | 45 | 16 J Z | 19 U | 19 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.9 U | 2.0 U | 4.3 | 8.1 | 1.9 U | 1.9 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.9 U | 2.0 U | 2.0 U | 2.0 U | 1.9 U | 1.9 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.9 U | 2.0 U | 1.1 J Z | 2.0 U | 1.9 U | 1.9 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.9 U | 2.0 U | 2.0 U | 2.0 U | 1.9 U | 1.9 U |

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

| | | | | Sample Name | SL-083-NBZ-SS-0.0-0.5 | SL-084-NBZ-SS-0.0-0.5 | SL-085-NBZ-SS-0.0-0.5 | SL-086-NBZ-SS-0.0-0.5 | SL-087-NBZ-SS-0.0-0.5 | SL-088-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 04/18/2012 | 04/10/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 | 04/17/2012 |
| | | | | SDG | 12D166 | 12D092 | 12D092 | 12D176 | 12D176 | 12D154 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 19 U | 42 | 31 | 26 | 17 J Z | 39 | |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 19 U | 20 U | 20 U | 22 U | 21 U | 22 U | |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.9 U | 2.0 U | 2.0 U | 2.2 U | 2.1 U | 2.2 U | |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.9 U | 2.9 | 2.1 | 2.3 | 2.1 U | 1.6 J Z | |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 19 U | 20 U | 20 U | 22 U | 21 U | 22 U | |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.9 U | 2.4 | 1.5 J Z | 2.2 U | 2.1 U | 1.3 J Z | |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.9 U | 2.1 | 2.0 U | 2.2 U | 2.1 U | 2.2 U | |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.9 U | 3.1 | 2.0 U | 2.4 | 2.1 U | 1.9 J Z | |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.9 U | 3.1 | 2.1 | 2.1 J Z | 2.1 U | 1.5 J Z | |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.9 U | 1.8 J Z | 2.0 U | 2.2 U | 2.1 U | 2.2 U | |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.9 U | 2.0 U | 2.0 U | 2.2 U | 1.1 J Z | 2.2 U | |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.9 U | 2.0 U | 1.3 J Z | 2.2 U | 2.1 U | 2.2 U | |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.9 U | 2.3 | 2.0 U | 2.0 J Z | 2.1 U | 2.2 U | |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.9 U | 2.0 U | 2.0 U | 2.2 U | 2.1 U | 2.2 U | |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.9 U | 5 | 1.2 J Z | 3.9 | 2.1 U | 2.2 U | |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.9 U | 2.0 U | 2.0 U | 2.2 U | 2.1 U | 2.2 U | |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.9 U | 2.0 U | 2.0 U | 2.2 U | 2.1 U | 2.2 U | |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 19 U | 20 U | 20 U | 22 U | 21 U | 22 U | |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 19 U | 20 U | 20 U | 22 U | 21 U | 22 U | |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.9 U | 1.8 J Z | 1.6 J Z | 1.6 J Z | 2.1 U | 2.2 U | |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 19 U | 37 | 20 U | 41 | 21 U | 22 U | |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.9 U | 2.0 U | 2.0 U | 1.6 J Z | 2.1 U | 2.2 U | |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.9 U | 2.0 U | 2.0 U | 2.2 U | 1.3 J Z | 2.2 U | |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.9 U | 1.0 J Z | 2.0 U | 2.2 U | 1.6 J Z | 2.2 U | |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.9 U | 2.0 U | 2.0 U | 2.2 U | 1.4 J Z | 2.2 U | |

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

Appendix A17
PAHs-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-089-NBZ-SS-0.0-0.5 | SL-090-NBZ-SS-0.0-0.5 | SL-091-NBZ-SS-0.0-0.5 | SL-091-NBZ-SB-4.0-5.0 | DUP-05-NBZ-QC-032912 | SL-092-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | FD | N |
| | | | | Sample Date | 04/20/2012 | 04/17/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 |
| | | | | SDG | 12D192 | 12D154 | 12C305 | 12C305 | 12C305 | 12C305 |
| | | | | Start Depth | 0 | 0 | 0 | 4 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | | 26 | 32 | 17 J Z | 13 J Z | 17 J Z | 16 J Z |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | | 19 U | 19 U | 20 U | 21 U | 20 U | 20 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | | 1.9 U | 2.0 U | 2.1 U | 2.1 U | 2.0 U | 2.0 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | | 4.6 | 2.9 | 1.2 J Z | 2.1 U | 2.0 U | 2.0 U |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | | 19 U | 19 U | 20 U | 21 U | 20 U | 20 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | | 2.7 | 1.9 J Z | 2.1 U | 2.1 U | 2.0 U | 2.0 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | | 2.5 | 1.6 J Z | 2.1 U | 2.1 U | 2.0 U | 2.0 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | | 4.2 | 2.7 | 1.0 J Z | 2.1 U | 2.0 U | 2.0 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | | 4.9 | 3.2 | 2.1 U | 2.1 U | 2.0 U | 2.0 U |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | | 1.9 U | 2.0 U | 2.1 U | 2.1 U | 2.0 U | 2.0 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | | 1.9 U | 2.0 U | 2.1 U | 2.1 U | 2.0 U | 2.0 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | | 2.7 | 1.9 J Z | 2.1 U | 2.1 U | 2.0 U | 2.0 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | | 2.7 | 1.7 J Z | 2.1 U | 2.1 U | 2.0 U | 2.0 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | | 1.9 U | 2.0 U | 2.1 U | 2.1 U | 2.0 U | 2.0 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | | 1.7 J Z | 2.0 U | 2.1 U | 2.1 U | 2.0 U | 2.0 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | | 1.9 U | 2.0 U | 2.1 U | 2.1 U | 2.0 U | 2.0 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | | 1.9 U | 2.0 U | 2.1 U | 2.1 U | 2.0 U | 2.0 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | | 19 U | 19 U | 20 U | 21 U | 20 U | 20 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | | 19 U | 19 U | 20 U | 21 U | 20 U | 20 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | | 2.4 | 1.9 J Z | 2.1 U | 2.1 U | 2.0 U | 2.0 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | | 14 J Z | 14 J Z | 20 U | 21 U | 20 U | 20 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | | 1.9 U | 2.9 | 2.1 U | 2.1 U | 2.0 U | 2.0 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | | 1.9 U | 2.0 U | 2.1 U | 2.1 U | 2.0 U | 2.0 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | | 1.9 U | 2.0 U | 2.1 U | 2.1 U | 2.0 U | 2.0 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | | 1.9 U | 2.0 U | 2.1 U | 2.1 U | 2.0 U | 2.0 U |

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

| | | | Sample Name | SL-094-NBZ-SS-0.0-0.5 | SL-095-NBZ-SS-0.0-0.5 | SL-096-NBZ-SS-0.0-0.5 | SL-097-NBZ-SS-0.0-0.5 | SL-099-NBZ-SS-0.0-0.5 | SL-100-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/28/2012 | 03/27/2012 | 03/28/2012 | 04/04/2012 | 04/04/2012 | 04/04/2012 |
| | | | SDG | 12C285 | 12C273 | 12C285 | 12D031 | 12D031 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 23 | 15 J Z | 36 | 22 | 26 | 15 J Z |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 19 U | 19 U | 19 U | 18 U | 18 U | 18 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 2.0 U | 1.9 U | 2.0 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.1 J Z | 1.9 U | 1.5 J Z | 1.8 U | 2 | 1.8 U |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 19 U | 19 U | 19 U | 18 U | 18 U | 18 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 2.0 U | 1.9 U | 2.0 U | 1.8 U | 1.9 | 1.8 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 2.0 U | 1.9 U | 2.0 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 2.0 U | 1.9 U | 2.0 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 2.0 U | 1.9 U | 2.0 U | 1.8 U | 2.1 | 1.8 U |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 2.0 U | 1.9 U | 2.0 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 2.0 U | 1.9 U | 2.0 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.1 J Z | 1.9 U | 1.5 J Z | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 2.0 U | 1.9 U | 2.0 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 2.0 U | 1.9 U | 2.0 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 2.5 | 1.9 U | 2.5 | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 2.0 U | 1.9 U | 2.0 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 2.0 U | 1.9 U | 2.0 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 19 U | 19 U | 19 U | 18 U | 18 U | 18 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 19 U | 19 U | 19 U | 18 U | 18 U | 18 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 2.0 U | 1.9 U | 2.0 U | 1.8 U | 0.93 J Z | 1.8 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 19 U | 19 U | 19 U | 18 U | 21 | 18 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 2.0 U | 1.9 U | 2.0 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 2.0 U | 1.9 U | 2.0 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 2.0 U | 1.9 U | 2.0 U | 1.8 U | 1.9 U | 1.8 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 2.0 U | 1.9 U | 2.0 U | 1.8 U | 1.9 U | 1.8 U |

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

Appendix A17
PAHs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-101-NBZ-SS-0.0-0.5 | SL-102-NBZ-SS-0.0-0.5 | SL-103-NBZ-SS-0.0-0.5 | SL-104-NBZ-SS-0.0-0.5 | SL-105-NBZ-SS-0.0-0.5 | SL-107-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/29/2012 | 03/27/2012 | 03/29/2012 | 04/04/2012 | 03/21/2012 | 04/02/2012 |
| | | | SDG | 12C305 | 12C273 | 12C305 | 12D031 | 12C209 | 12D004 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 28 | 26 | 33 | 31 | 21 | 32 |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 19 U | 19 U | 19 U | 18 U | 19 U | 19 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.9 U | 2.0 U | 1.9 U | 1.8 U | 1.9 U | 1.9 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 2.3 | 2.0 U | 1.1 J Z | 2.5 | 1.6 J Z | 2.1 |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 19 U | 19 U | 19 U | 18 U | 19 U | 19 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 2.4 | 2.0 U | 1.1 J Z | 1.9 | 1.9 U | 1.7 J Z |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.8 J Z | 2.0 U | 1.9 U | 1.6 J Z | 1.9 U | 1.4 J Z |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 2.1 | 2.0 U | 1.9 U | 2.6 | 1.9 U | 2.2 |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 2.5 | 2.0 U | 1.1 J Z | 2.6 | 1.8 J Z | 2.3 |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.9 U | 2.0 U | 1.9 U | 1.8 U | 1.9 U | 1.9 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.7 J Z | 2.0 U | 1.9 U | 1.8 U | 1.9 U | 1.9 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.8 J Z | 2.0 U | 1.9 U | 1.7 J Z | 1.1 J Z | 1.6 J Z |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.1 J Z | 2.0 U | 1.9 U | 1.6 J Z | 1.9 U | 1.3 J Z |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.9 U | 2.0 U | 1.9 U | 1.8 U | 1.9 U | 1.9 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.4 J Z | 2.0 U | 1.9 U | 1.5 J Z | 1.9 U | 1.9 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.9 U | 2.0 U | 1.9 U | 1.8 U | 1.9 U | 1.9 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.5 J Z | 2.0 U | 1.9 U | 1.8 U | 1.9 U | 1.9 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 19 U | 19 U | 19 U | 18 U | 19 U | 19 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 19 U | 19 U | 19 U | 18 U | 19 U | 19 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 2.6 | 2.0 U | 1.9 U | 0.93 J Z | 1.9 U | 1.3 J Z |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 19 U | 19 U | 19 U | 9.1 J Z | 38 | 10 J Z |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.5 J Z | 2.0 U | 1.9 U | 1.8 U | 1.9 U | 1.9 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 2.3 | 2.0 U | 1.9 U | 1.8 U | 1.9 U | 1.9 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 3.8 | 2.0 U | 1.9 U | 1.8 U | 1.9 U | 1.9 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 2.8 | 2.0 U | 1.9 U | 1.8 U | 1.9 U | 1.9 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-108-NBZ-SS-0.0-0.5 | SL-109-NBZ-SS-0.0-0.5 | SL-110-NBZ-SS-0.0-0.5 | SL-111-NBZ-SS-0.0-0.5 | SL-112-NBZ-SS-0.0-0.5 | SL-113-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 03/27/2012 | 04/04/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 |
| | | | SDG | 12D018 | 12C273 | 12D031 | 12D004 | 12D004 | 12D004 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 29 | 17 J Z | 39 | 31 | 38 | 18 |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 18 U | 19 U | 18 U | 21 U | 18 U | 18 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.1 U | 1.9 U | 1.9 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.8 U | 1.9 U | 1.8 | 1.7 J Z | 1.9 U | 1.9 U |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 18 U | 19 U | 18 U | 21 U | 18 U | 18 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.8 U | 1.9 U | 1.6 J Z | 1.4 J Z | 1.9 U | 1.9 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.1 U | 1.9 U | 1.9 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.8 U | 1.9 U | 1.8 | 1.8 J Z | 1.9 U | 1.9 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.8 U | 1.9 U | 1.8 | 1.8 J Z | 1.9 U | 1.9 U |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.1 U | 1.9 U | 1.9 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.1 U | 1.9 U | 1.9 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 1.5 J Z | 1.9 U | 1.9 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.1 U | 1.9 U | 1.9 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.1 U | 1.9 U | 1.9 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.1 U | 1.9 U | 1.9 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.1 U | 1.9 U | 1.9 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.1 U | 1.9 U | 1.9 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 18 U | 19 U | 18 U | 21 U | 18 U | 18 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 18 U | 19 U | 18 U | 21 U | 18 U | 18 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.1 U | 1.9 U | 1.9 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 18 U | 19 U | 15 J Z | 21 U | 18 U | 18 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.1 U | 1.9 U | 1.9 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.1 U | 1.9 U | 1.9 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.1 U | 1.9 U | 1.9 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.8 U | 1.9 U | 1.8 U | 2.1 U | 1.9 U | 1.9 U |

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

Appendix A17
PAHs-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-114-NBZ-SS-0.0-0.5 | SL-115-NBZ-SS-0.0-0.5 | SL-116-NBZ-SS-0.0-0.5 | DUP-04-NBZ-QC-032912 | SL-118-NBZ-SS-0.0-0.5 | SL-119-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | FD | N | N |
| | | | | Sample Date | 04/04/2012 | 04/03/2012 | 03/22/2012 | 03/29/2012 | 03/29/2012 | 03/27/2012 |
| | | | | SDG | 12D031 | 12D018 | 12C229 | 12C305 | 12C305 | 12C273 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 27 | 31 | 19 U | 21 | 22 | 20 |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 18 U | 19 U | 19 U | 18 U | 18 U | 19 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 3 | 1.2 J Z | 1.9 U | 1.2 J FD, Z | 1.9 UJ FD | 1.2 J Z |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 18 U | 19 U | 19 U | 18 U | 18 U | 19 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 2.6 | 1.0 J Z | 1.9 U | 1.9 U | 1.9 U | 1.1 J Z |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.9 U | 1.1 J Z | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 2.8 | 1.1 J Z | 1.9 U | 1.2 J FD, Z | 1.9 UJ FD | 1.2 J Z |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 18 U | 19 U | 19 U | 18 U | 18 U | 19 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 18 U | 19 U | 19 U | 18 U | 18 U | 19 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.6 J Z | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 39 | 19 U | 19 U | 18 U | 18 U | 19 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-120-NBZ-SS-0.0-0.5 | SL-121-NBZ-SS-0.0-0.5 | SL-122-NBZ-SS-0.0-0.5 | SL-123-NBZ-SS-0.0-0.5 | SL-124-NBZ-SS-0.0-0.5 | SL-126-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/04/2012 | 03/30/2012 | 04/03/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 |
| | | | SDG | 12D031 | 12C321 | 12D018 | 12C261 | 12C261 | 12C261 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 20 | 18 | 15 J Z | 20 U | 21 J Z | 16 J Z |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 18 U | 18 U | 19 U | 20 U | 22 U | 20 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 2.0 U | 2.3 U | 2.0 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.8 U | 4.2 | 1.9 U | 2.0 U | 4.6 | 2.8 |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 18 U | 18 U | 19 U | 20 U | 22 U | 20 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.8 U | 1.5 J Z | 1.9 U | 2.0 U | 3.8 | 2.0 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 2.0 U | 2.3 U | 2.0 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 2.0 U | 5.9 | 2.0 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.8 U | 2.7 | 1.9 U | 2.0 U | 5.3 | 3.5 |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 2.0 U | 2.1 J Z | 2.0 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 2.0 U | 2.3 U | 2.0 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 2.0 U | 2.6 | 2.1 |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 2.0 U | 2.9 | 2.0 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 2.0 U | 2.3 U | 2.0 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 2.0 U | 2.2 J Z | 3.4 |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.8 U | 1.8 U | 1.9 U | 2.0 U | 2.3 U | 2.0 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 2.0 U | 2.3 U | 2.0 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 18 U | 18 U | 19 U | 20 U | 22 U | 20 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 18 U | 18 U | 19 U | 20 U | 22 U | 20 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.8 U | 1.1 J Z | 1.9 U | 2.0 U | 2.5 | 1.9 J Z |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 18 U | 110 | 19 U | 20 U | 14 J Z | 13 J Z |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 2.0 U | 2.3 U | 2.0 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 2.0 U | 2.3 U | 2.0 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 2.0 U | 2.3 U | 2.0 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 2.0 U | 2.3 U | 2.0 U |

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

Appendix A17
PAHs-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-127-NBZ-SS-0.0-0.5 | SL-129-NBZ-SS-0.0-0.5 | SL-130-NBZ-SS-0.0-0.5 | SL-131-NBZ-SS-0.0-0.5 | SL-133-NBZ-SS-0.0-0.5 | SL-134-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 04/03/2012 | 03/27/2012 | 03/27/2012 | 03/29/2012 | 03/26/2012 | 03/30/2012 |
| | | | | SDG | 12D018 | 12C273 | 12C273 | 12C305 | 12C261 | 12C321 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | | 16 J Z | 53 | 30 | 18 | 24 | 23 |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | | 18 U | 21 U | 20 U | 18 U | 19 U | 18 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | | 1.8 U | 2.1 | 2.0 U | 1.8 U | 2.0 U | 1.9 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | | 1.8 U | 30 | 2.4 | 1.8 U | 1.9 J Z | 2.4 |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | | 18 U | 21 U | 20 U | 18 U | 19 U | 18 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | | 1.8 U | 13 | 2.1 | 1.8 U | 2.0 U | 1.9 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | | 1.8 U | 8.7 | 2.0 U | 1.8 U | 2.0 U | 1.9 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | | 1.8 U | 23 | 2.1 | 1.8 U | 2.0 U | 1.9 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | | 1.8 U | 32 | 2.2 | 1.8 U | 2.0 U | 3.4 |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | | 1.8 U | 5.8 | 2.0 U | 1.8 U | 2.0 U | 1.9 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | | 1.8 U | 2.1 U | 2.0 U | 1.8 U | 2.0 U | 1.9 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | | 1.8 U | 19 | 2.0 U | 1.8 U | 2.0 U | 1.9 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | | 1.8 U | 15 | 1.3 J Z | 1.8 U | 2.0 U | 1.9 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | | 1.8 U | 2.3 | 2.0 U | 1.8 U | 2.0 U | 1.9 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | | 1.8 U | 12 | 2.0 U | 1.8 U | 2.0 U | 1.9 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | | 1.8 U | 2.1 U | 2.0 U | 1.8 U | 2.0 U | 1.9 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | | 1.8 U | 2.1 U | 2.0 U | 1.8 U | 2.0 U | 1.9 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | | 18 U | 21 U | 20 U | 18 U | 19 U | 18 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | | 18 U | 15 J Z | 20 U | 18 U | 19 U | 18 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | | 1.8 U | 11 | 1.1 J Z | 1.8 U | 2.0 U | 1.9 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | | 18 U | 18 J Z | 20 U | 14 J Z | 26 | 41 |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | | 1.8 U | 2.1 U | 2.0 U | 1.8 U | 2.0 U | 1.9 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | | 1.8 U | 2.1 U | 2.0 U | 1.8 U | 2.0 U | 1.9 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | | 1.8 U | 2.1 U | 2.0 U | 1.8 U | 2.0 U | 1.9 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | | 1.8 U | 2.1 U | 2.0 U | 1.8 U | 2.0 U | 1.9 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-135-NBZ-SS-0.0-0.5 | SL-136-NBZ-SS-0.0-0.5 | SL-138-NBZ-SS-0.0-0.5 | SL-139-NBZ-SS-0.0-0.5 | SL-140-NBZ-SS-0.0-0.5 | SL-141-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/28/2012 | 03/28/2012 | 04/02/2012 | 03/28/2012 | 04/03/2012 | 03/28/2012 |
| | | | SDG | 12C285 | 12C285 | 12D004 | 12C285 | 12D018 | 12C285 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 22 | 20 | 32 | 31 | 37 | 37 |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 19 U | 18 U | 19 U | 20 U | 19 U | 19 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.9 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.9 U | 1.9 U | 1.1 J Z | 1.2 J Z | 1.4 J Z | 2.2 |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 19 U | 18 U | 19 U | 20 U | 19 U | 19 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.2 J Z | 1.1 J Z | 2.3 |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.9 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.9 U | 1.9 U | 1.2 J Z | 2.0 U | 1.5 J Z | 1.9 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.9 U | 1.9 U | 1.1 J Z | 2.0 U | 1.5 J Z | 1.9 U |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.9 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.2 J Z | 2.0 U | 1.9 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 2.0 U | 1.1 J Z | 1.9 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.9 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.9 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.9 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.9 U | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.9 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.1 J Z | 2.0 U | 1.9 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 19 U | 18 U | 19 U | 20 U | 19 U | 19 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 19 U | 18 U | 19 U | 20 U | 19 U | 19 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.9 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 44 | 26 | 19 U | 20 U | 19 U | 19 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.1 J Z | 2.0 U | 1.9 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.2 J Z | 2.0 U | 1.9 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.3 J Z | 2.0 U | 1.9 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 1.3 J Z | 2.0 U | 1.9 U |

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

Appendix A17
PAHs-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-143-NBZ-SS-0.0-0.5 | SL-144-NBZ-SS-0.0-0.5 | SL-145-NBZ-SS-0.0-0.5 | SL-146-NBZ-SS-0.0-0.5 | SL-147-NBZ-SS-0.0-0.5 | SL-148-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/28/2012 | 04/12/2012 | 04/11/2012 | 04/18/2012 | 04/17/2012 | 04/11/2012 |
| | | | | SDG | 12C285 | 12D122 | 12D106 | 12D166 | 12D154 | 12D106 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 25 | 16 J Z | 22 | 20 | 20 | 24 |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 18 U | 19 U | 21 U | 19 U | 19 U | 20 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.8 U | 2.0 U | 2.2 U | 2.0 U | 2.0 U | 2.1 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.8 U | 1.2 J Z | 2.0 J Z | 2.8 | 2.0 U | 1.5 J Z |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 18 U | 19 U | 21 U | 19 U | 19 U | 20 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.8 U | 2.0 U | 1.7 J Z | 2.0 U | 2.0 U | 1.2 J Z |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.8 U | 2.0 U | 1.2 J Z | 2.0 U | 2.0 U | 2.1 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.8 U | 1.2 J Z | 2.5 | 3.4 | 2.0 U | 1.4 J Z |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.8 U | 1.1 J Z | 2.0 J Z | 3.3 | 1.0 J Z | 1.4 J Z |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.8 U | 2.0 U | 2.2 U | 2.0 U | 2.0 U | 2.1 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.8 U | 1.5 J Z | 2.2 U | 2.0 U | 2.0 U | 2.1 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.8 U | 2.0 U | 2.2 U | 2.0 U | 2.0 U | 2.1 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.8 U | 2.0 U | 1.6 J Z | 2.0 U | 2.0 U | 2.1 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.8 U | 2.0 U | 2.2 U | 2.0 U | 2.0 U | 2.1 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.8 U | 1.2 J Z | 2.0 J Z | 1.5 J Z | 1.3 J Z | 2.1 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.8 U | 4.4 | 2.2 U | 2.0 U | 2.0 U | 2.1 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.8 U | 1.3 J Z | 2.2 U | 2.0 U | 2.0 U | 2.1 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 18 U | 19 U | 21 U | 19 U | 19 U | 20 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 18 U | 19 U | 21 U | 19 U | 19 U | 20 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.8 U | 2.0 U | 2.2 U | 1.3 J Z | 2.0 U | 1.2 J Z |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 38 | 21 | 29 | 19 U | 19 U | 110 |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.8 U | 1.1 J Z | 2.2 U | 1.2 J Z | 2.0 U | 2.1 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.8 U | 1.8 J Z | 2.2 U | 2.0 U | 2.0 U | 2.1 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.8 U | 2 | 2.2 U | 2.0 U | 2.0 U | 2.1 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.8 U | 1.9 J Z | 2.2 U | 2.0 U | 2.0 U | 2.1 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-149-NBZ-SS-0.0-0.5 | SL-150-NBZ-SS-0.0-0.5 | SL-151-NBZ-SS-0.0-0.5 | SL-152-NBZ-SS-0.0-0.5 | SL-154-NBZ-SS-0.0-0.5 | SL-155-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/05/2012 | 04/19/2012 | 04/09/2012 | 04/12/2012 | 04/11/2012 | 04/04/2012 |
| | | | SDG | 12D048 | 12D176 | 12D084 | 12D122 | 12D106 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 22 | 16 J Z | 19 | 23 | 23 | 20 |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 18 U | 19 U | 18 U | 20 U | 22 U | 18 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 2.0 U | 2.3 U | 1.8 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.9 U | 2.2 | 1.9 U | 1.1 J Z | 1.9 J Z | 1.8 U |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 18 U | 19 U | 18 U | 20 U | 22 U | 18 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.9 U | 1.8 J Z | 1.9 U | 1.2 J Z | 1.4 J Z | 1.8 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.9 U | 1.6 J Z | 1.9 U | 1.1 J Z | 2.3 U | 1.8 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.9 U | 2.5 | 1.9 U | 1.7 J Z | 2.1 J Z | 1.8 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.9 U | 2.3 | 1.9 U | 2.0 U | 2.2 J Z | 1.8 U |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 2.0 U | 2.3 U | 1.8 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.1 J Z | 1.9 U | 1.9 U | 2.0 U | 2.3 U | 1.8 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.9 U | 1.7 J Z | 1.9 U | 2.0 U | 1.4 J Z | 1.8 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.9 U | 1.4 J Z | 1.9 U | 2.0 U | 2.3 U | 1.8 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 2.0 U | 2.3 U | 1.8 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.9 U | 1.9 U | 1.9 U | 2.0 U | 2.3 U | 1.8 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 2.5 | 1.9 U | 1.9 U | 2.0 U | 2.3 U | 1.8 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 0.98 J Z | 1.9 U | 1.9 U | 2.0 U | 2.3 U | 1.8 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 18 U | 19 U | 18 U | 20 U | 22 U | 18 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 18 U | 19 U | 18 U | 20 U | 22 U | 18 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.9 U | 1.2 J Z | 1.9 U | 2.0 U | 1.2 J Z | 1.8 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 18 U | 19 U | 12 J Z | 10 J Z | 22 U | 18 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 0.99 J Z | 1.9 U | 1.9 U | 2.0 U | 2.3 U | 1.8 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.2 J Z | 1.9 U | 1.9 U | 2.0 U | 2.3 U | 1.8 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.3 J Z | 1.9 U | 1.9 U | 2.0 U | 2.3 U | 1.8 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.2 J Z | 1.9 U | 1.9 U | 2.0 U | 2.3 U | 1.8 U |

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

Appendix A17
PAHs-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-156-NBZ-SS-0.0-0.5 | SL-157-NBZ-SS-0.0-0.5 | SL-158-NBZ-SS-0.0-0.5 | SL-159-NBZ-SS-0.0-0.5 | DUP-10-NBZ-QC-041612 | SL-160-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | FD | N |
| | | | | Sample Date | 04/17/2012 | 04/09/2012 | 04/12/2012 | 04/16/2012 | 04/16/2012 | 04/16/2012 |
| | | | | SDG | 12D154 | 12D084 | 12D122 | 12D146 | 12D166 | 12D146 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 21 | 35 | 22 | 45 | 19 U | 13 J Z |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 20 U | 18 U | 19 U | 19 U | 19 U | 19 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 2.1 U | 1.9 U | 2.0 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.6 J Z | 1.9 U | 1.8 J Z | 2.5 | 1.9 U | 1.9 U |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 20 U | 18 U | 19 U | 19 U | 19 U | 19 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 2.1 U | 1.9 U | 1.8 J Z | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 2.1 U | 1.9 U | 1.9 J Z | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 2.1 U | 1.9 U | 2.7 | 2.7 | 1.9 U | 1.9 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 2.0 J Z | 1.9 U | 1.7 J Z | 3 | 1.9 U | 1.9 U |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 2.1 U | 1.9 U | 2.0 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 2.1 U | 1.9 U | 2.0 U | 1.2 J Z | 1.9 U | 1.9 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 2.1 U | 1.9 U | 3.4 | 1.2 J Z | 1.9 U | 1.9 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.2 J Z | 1.9 U | 1.5 J Z | 1.6 J Z | 1.9 U | 1.9 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 2.1 U | 1.9 U | 2.0 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.6 J Z | 1.9 U | 1.5 J Z | 1.9 | 1.9 U | 1.4 J Z |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 2.1 U | 1.9 U | 2.0 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 2.1 U | 1.9 U | 2.0 U | 1.0 J Z | 1.9 U | 1.9 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 20 U | 18 U | 19 U | 19 U | 19 U | 19 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 20 U | 18 U | 19 U | 19 U | 19 U | 19 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 2.1 U | 1.9 U | 2.0 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 40 | 18 U | 19 U | 19 U | 9.6 J Z | 9.4 J Z |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 2.1 U | 1.9 U | 2.0 U | 1.1 J Z | 1.9 U | 1.9 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 2.1 U | 1.9 U | 2.0 U | 1.5 J Z | 1.9 U | 1.9 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 2.1 U | 1.9 U | 2.0 U | 1.9 | 1.9 U | 1.9 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 2.1 U | 1.9 U | 2.0 U | 1.6 J Z | 1.9 U | 1.9 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-161-NBZ-SS-0.0-0.5 | SL-162-NBZ-SS-0.0-0.5 | SL-163-NBZ-SS-0.0-0.5 | SL-164-NBZ-SS-0.0-0.5 | SL-165-NBZ-SS-0.0-0.5 | SL-166-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/17/2012 | 04/17/2012 | 04/11/2012 | 04/16/2012 | 04/05/2012 | 04/17/2012 |
| | | | SDG | 12D154 | 12D154 | 12D106 | 12D146 | 12D048 | 12D154 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 13 J Z | 28 | 20 U | 10 J Z | 16 J Z | 25 |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 19 U | 18 U | 20 U | 20 U | 18 U | 19 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.9 U | 2.0 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.3 J Z | 1.5 J Z | 2.0 U | 1.7 J Z | 1.6 J Z | 1.5 J Z |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 19 U | 18 U | 20 U | 20 U | 18 U | 19 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.1 J Z | 2.0 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.9 U | 2.0 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.6 J Z | 2.1 | 2.0 U | 2.0 U | 1.3 J Z | 2 |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.6 J Z | 1.9 | 2.0 U | 2.3 | 1.7 J Z | 1.9 J Z |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.9 U | 2.0 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.9 U | 2.0 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.1 J Z | 2.0 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.9 U | 1.0 J Z |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.9 U | 2.0 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.3 J Z | 1.5 J Z | 2.0 U | 1.3 J Z | 1.9 U | 1.3 J Z |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.9 U | 2.0 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.9 U | 2.0 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 19 U | 18 U | 20 U | 20 U | 18 U | 19 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 19 U | 18 U | 20 U | 20 U | 18 U | 19 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.1 J Z | 2.0 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 19 U | 18 U | 20 U | 20 U | 18 U | 19 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.9 U | 2.0 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.9 U | 2.0 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.9 U | 2.0 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.9 U | 1.9 U | 2.0 U | 2.0 U | 1.9 U | 2.0 U |

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

Appendix A17
PAHs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-167-NBZ-SS-0.0-0.5 | SL-168-NBZ-SS-0.0-0.5 | SL-169-NBZ-SS-0.0-0.5 | SL-170-NBZ-SS-0.0-0.5 | SL-171-NBZ-SS-0.0-0.5 | SL-172-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/09/2012 | 04/11/2012 | 04/03/2012 | 04/20/2012 | 04/20/2012 | 04/12/2012 |
| | | | SDG | 12D084 | 12D106 | 12D018 | 12D192 | 12D192 | 12D122 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 24 | 16 J Z | 29 | 34 | 26 | 19 |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 18 U | 19 U | 18 U | 18 U | 18 U | 19 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.8 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.3 J Z | 1.9 U | 1.1 J Z | 3.3 | 1.5 J Z | 2.1 |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 18 U | 19 U | 18 U | 18 U | 18 U | 19 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.1 J Z | 1.9 U | 1.9 U | 2.4 | 1.8 J Z | 1.9 |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.8 U | 1.9 U | 1.9 U | 2.1 | 1.5 J Z | 1.5 J Z |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.4 J Z | 1.0 J Z | 1.1 J Z | 3.2 | 2.4 | 2.6 |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.2 J Z | 1.9 U | 1.1 J Z | 3.3 | 1.6 J Z | 2.3 |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.8 U | 1.9 U | 1.9 U | 1.0 J Z | 1.9 U | 1.9 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.8 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.8 U | 1.9 U | 1.9 U | 1.8 J Z | 1.9 U | 1.3 J Z |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.8 U | 1.9 U | 1.9 U | 1.9 | 1.0 J Z | 1.4 J Z |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.8 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.8 U | 1.9 U | 1.9 U | 0.95 J Z | 1.9 U | 1.5 J Z |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.8 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.8 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 18 U | 19 U | 18 U | 18 U | 18 U | 19 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 18 U | 19 U | 18 U | 18 U | 18 U | 19 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.8 U | 1.9 U | 1.9 U | 1.6 J Z | 1.9 U | 1.1 J Z |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 18 U | 19 U | 18 U | 13 J Z | 15 J Z | 21 |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.8 U | 1.9 U | 1.9 U | 1.5 J Z | 1.9 U | 1.9 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.8 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.8 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.8 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | DUP-08-NBZ-QC-041612 | SL-173-NBZ-SS-0.0-0.5 | SL-174-NBZ-SS-0.0-0.5 | SL-175-NBZ-SS-0.0-0.5 | SL-176-NBZ-SS-0.0-0.5 | SL-177-NBZ-SS-0.0-0.5 |
| | | | Sample Type | FD | N | N | N | N | N |
| | | | Sample Date | 04/16/2012 | 04/16/2012 | 04/09/2012 | 04/05/2012 | 04/11/2012 | 04/10/2012 |
| | | | SDG | 12D146 | 12D146 | 12D084 | 12D048 | 12D106 | 12D092 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 11 J Z | 13 J Z | 26 | 25 | 14 J Z | 17 J Z |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 20 U | 20 U | 18 U | 20 U | 20 U | 18 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 2.0 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U | 1.8 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 2.0 UJ FD | 3.6 J FD | 1.3 J Z | 1.4 J Z | 2.0 U | 1.1 J Z |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 20 U | 20 U | 18 U | 20 U | 20 U | 18 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 2.0 UJ FD | 3.4 J FD | 1.2 J Z | 2.0 U | 2.0 U | 1.2 J Z |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 2.0 UJ FD | 4.0 J FD | 1.9 U | 1.6 J Z | 2.0 U | 1.8 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.4 J FD, Z | 4.5 J FD | 1.3 J Z | 2.9 | 2.0 U | 1.2 J Z |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 2.0 UJ FD | 4.1 J FD | 1.3 J Z | 1.4 J Z | 2.0 U | 1.3 J Z |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 2.0 U | 2.1 U | 1.9 U | 1.1 J Z | 2.0 U | 1.8 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 2.0 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U | 1.8 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 2.0 UJ FD | 2.7 J FD | 1.9 U | 1.1 J Z | 2.0 U | 1.8 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 2.0 UJ FD | 3.0 J FD | 1.9 U | 5.1 | 2.0 U | 1.8 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 2.0 UJ FD | 2.2 J FD | 1.9 U | 2.0 U | 2.0 U | 1.8 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.5 J Z | 2.3 | 1.9 U | 2.0 U | 2.0 U | 1.8 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 2.0 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U | 1.8 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 2.0 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U | 1.8 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 20 U | 20 U | 18 U | 20 U | 20 U | 18 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 20 U | 20 U | 18 U | 20 U | 20 U | 18 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 2.0 UJ FD | 1.7 J FD, Z | 1.9 U | 2.0 U | 2.0 U | 1.8 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 20 U | 20 U | 27 | 20 U | 20 U | 18 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 2.0 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U | 1.8 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 2.0 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U | 1.8 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 2.0 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U | 1.8 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 2.0 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U | 1.8 U |

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

Appendix A17
PAHs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-178-NBZ-SS-0.0-0.5 | SL-179-NBZ-SS-0.0-0.5 | SL-180-NBZ-SS-0.0-0.5 | SL-181-NBZ-SS-0.0-0.5 | SL-182-NBZ-SS-0.0-0.5 | SL-183-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/19/2012 | 04/19/2012 | 04/13/2012 | 04/04/2012 | 04/11/2012 | 04/13/2012 |
| | | | SDG | 12D176 | 12D176 | 12D135 | 12D031 | 12D106 | 12D135 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 28 | 18 J Z | 16 J Z | 18 | 18 J Z | 24 |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 19 U | 19 U | 21 U | 18 U | 19 U | 20 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.9 U | 1.9 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 2.3 | 1.2 J Z | 2.1 U | 1.9 U | 2.0 U | 1.3 J Z |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 19 U | 19 U | 21 U | 18 U | 19 U | 20 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.8 J Z | 1.2 J Z | 2.1 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.3 J Z | 1.9 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 2.4 | 1.6 J Z | 2.1 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 2.4 | 1.2 J Z | 2.1 U | 1.9 U | 2.0 U | 1.5 J Z |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.9 U | 1.9 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.9 U | 1.9 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 2 | 1.9 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.4 J Z | 1.9 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.9 U | 1.9 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.9 U | 1.9 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.9 U | 1.9 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.9 U | 1.9 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 19 U | 19 U | 21 U | 18 U | 19 U | 20 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 19 U | 19 U | 21 U | 18 U | 19 U | 20 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.3 J Z | 1.9 U | 2.1 U | 1.9 U | 2.0 U | 1.2 J Z |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 12 J Z | 19 U | 21 U | 18 U | 19 U | 20 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.9 U | 1.9 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.9 U | 1.9 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.9 U | 1.9 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.9 U | 1.9 U | 2.1 U | 1.9 U | 2.0 U | 2.0 U |

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

| | | | | Sample Name | SL-184-NBZ-SS-0.0-0.5 | SL-185-NBZ-SS-0.0-0.5 | SL-186-NBZ-SS-0.0-0.5 | SL-187-NBZ-SS-0.0-0.5 | SL-188-NBZ-SS-0.0-0.5 | SL-189-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 04/19/2012 | 04/09/2012 | 04/10/2012 | 04/04/2012 | 04/10/2012 | 04/18/2012 |
| | | | | SDG | 12D176 | 12D084 | 12D092 | 12D031 | 12D092 | 12D166 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 27 | 26 | 94 | 23 | 18 | 19 U |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 19 U | 19 U | 18 U | 18 U | 17 J Z | 19 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.9 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.9 U | 1.9 U | 0.96 J Z | 1.9 U | 1.8 | 0.98 J Z |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 19 U | 19 U | 18 U | 18 U | 18 U | 19 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.9 U | 1.9 U | 1.1 J Z | 1.9 U | 1.6 J Z | 1.9 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.9 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.9 U | 1.9 U | 1.8 U | 1.9 U | 2.5 | 1.4 J Z |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.9 U | 1.9 U | 1.2 J Z | 1.9 U | 1.4 J Z | 1.1 J Z |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.9 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.9 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.9 U | 1.9 U | 0.96 J Z | 1.9 U | 1.2 J Z | 2.9 |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.9 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.9 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.9 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.9 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.9 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 19 U | 19 U | 18 U | 18 U | 18 U | 19 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 19 U | 19 U | 18 U | 18 U | 18 U | 19 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.9 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 19 U | 19 U | 18 U | 18 U | 12 J Z | 19 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.9 U | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.1 J Z | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.1 J Z | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.0 J Z | 1.9 U | 1.8 U | 1.9 U | 1.8 U | 1.9 U |

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

Appendix A17
PAHs-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-190-NBZ-SS-0.0-0.5 | DUP-06-NBZ-QC-040912 | SL-191-NBZ-SS-0.0-0.5 | DUP-09-NBZ-QC-041912 | SL-193-NBZ-SS-0.0-0.5 | SL-194-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | FD | N | FD | N | N |
| | | | | Sample Date | 04/05/2012 | 04/09/2012 | 04/09/2012 | 04/19/2012 | 04/19/2012 | 04/02/2012 |
| | | | | SDG | 12D048 | 12D084 | 12D084 | 12D176 | 12D176 | 12D004 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 24 | 16 J Z | 21 | 19 | 22 | 27 |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 18 U | 18 U | 18 U | 19 U | 19 U | 19 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.8 U | 1.1 J FD, Z | 1.9 UJ FD | 1.6 J Z | 1.7 J Z | 1.6 J Z |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 18 U | 18 U | 18 U | 19 U | 19 U | 19 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.9 UJ FD | 1.5 J FD, Z | 1.0 J Z |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.9 UJ FD | 1.2 J FD, Z | 1.9 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.1 J Z | 1.8 U | 1.9 U | 1.3 J Z | 2.1 | 1.6 J Z |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 0.93 J Z | 1.3 J FD, Z | 1.9 UJ FD | 1.3 J Z | 1.7 J Z | 1.8 J Z |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.8 U | 2.3 J FD | 1.9 UJ FD | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.3 J Z | 1.4 J Z | 1.2 J Z |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.9 UJ FD | 1.2 J FD, Z | 1.9 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.8 U | 1.8 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.8 U | 2.7 J FD | 1.9 UJ FD | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.8 U | 2.3 J FD | 1.9 UJ FD | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 18 U | 18 U | 18 U | 19 U | 19 U | 19 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 18 U | 18 U | 18 U | 19 U | 19 U | 19 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.8 U | 1.2 J FD, Z | 1.9 UJ FD | 1.9 UJ FD | 1.1 J FD, Z | 1.9 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 18 U | 18 U | 18 U | 21 | 13 J Z | 19 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.8 U | 2.0 J FD | 1.9 UJ FD | 1.9 U | 1.9 U | 1.9 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.8 U | 2.2 J FD | 1.9 UJ FD | 1.9 UJ FD | 0.98 J FD, Z | 1.9 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.8 U | 2.0 J FD | 1.9 UJ FD | 1.9 UJ FD | 1.1 J FD, Z | 1.9 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.8 U | 2.0 J FD | 1.9 UJ FD | 1.9 UJ FD | 1.2 J FD, Z | 1.9 U |

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

| | | | | Sample Name | SL-195-NBZ-SS-0.0-0.5 | SL-196-NBZ-SS-0.0-0.5 | SL-197-NBZ-SS-0.0-0.5 | SL-198-NBZ-SS-0.0-0.5 | SL-199-NBZ-SS-0.0-0.5 | SL-200-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/26/2012 | 03/26/2012 | 03/29/2012 | 04/03/2012 | 04/23/2012 | 04/23/2012 |
| | | | | SDG | 12C261 | 12C261 | 12C305 | 12D018 | 12D197 | 12D197 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 19 U | 12 J Z | 30 | 35 | 18 U | 17 J Z |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 19 U | 20 U | 19 U | 18 U | 18 U | 18 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 1.9 U | 2.1 U | 2.0 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 1.9 U | 2.3 | 2.1 | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 19 U | 20 U | 19 U | 18 U | 18 U | 18 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 1.9 U | 2.1 U | 1.6 J Z | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 1.9 U | 2.1 U | 1.1 J Z | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 1.9 U | 2.1 U | 1.8 J Z | 1.8 U | 1.8 U | 1.0 J Z |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 1.9 U | 3.2 | 2.3 | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 1.9 U | 2.1 U | 2.4 | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.9 U | 2.1 U | 2.0 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 1.9 U | 1.1 J Z | 1.5 J Z | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 1.9 U | 2.1 U | 1.2 J Z | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.9 U | 2.1 U | 2.0 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 1.9 U | 1.3 J Z | 1.9 J Z | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 1.9 U | 2.1 U | 2.0 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 1.9 U | 2.1 U | 2.0 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 19 U | 20 U | 19 U | 18 U | 18 U | 18 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 19 U | 20 U | 19 U | 18 U | 18 U | 18 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 1.9 U | 1.4 J Z | 1.1 J Z | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 12 J Z | 20 U | 25 | 9.3 J Z | 18 U | 18 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 1.9 U | 2.1 U | 2.0 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.9 U | 2.1 U | 2.0 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 1.9 U | 2.1 U | 2.0 U | 1.8 U | 1.8 U | 1.9 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 1.9 U | 2.1 U | 2.0 U | 1.8 U | 1.8 U | 1.9 U |

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

Appendix A17
PAHs-Validated Data
NBZ - Phases 1 and 2

| | | | | | |
|---|---|---|---|---|---|
| | | | Sample Name | SL-201-NBZ-SS-0.0-0.5 | SL-202-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N |
| | | | Sample Date | 04/23/2012 | 04/20/2012 |
| | | | SDG | 12D197 | 12D192 |
| | | | Start Depth | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | |
| 8270C SIM | 117-81-7 | Bis(2-ethylhexyl)phthalate | µg/kg | 31 | 18 U |
| 8270C SIM | 117-84-0 | Di-n-octylphthalate | µg/kg | 20 U | 18 U |
| 8270C SIM | 120-12-7 | Anthracene | µg/kg | 2.1 | 1.8 U |
| 8270C SIM | 129-00-0 | Pyrene | µg/kg | 28 | 1.8 U |
| 8270C SIM | 131-11-3 | Dimethylphthalate | µg/kg | 20 U | 18 U |
| 8270C SIM | 191-24-2 | Benzo(g,h,i)perylene | µg/kg | 6 | 1.8 U |
| 8270C SIM | 193-39-5 | Indeno(1,2,3-cd)pyrene | µg/kg | 4.6 | 1.8 U |
| 8270C SIM | 205-99-2 | Benzo(b)fluoranthene | µg/kg | 12 | 1.8 U |
| 8270C SIM | 206-44-0 | Fluoranthene | µg/kg | 38 | 1.8 U |
| 8270C SIM | 207-08-9 | Benzo(k)fluoranthene | µg/kg | 3.2 | 1.8 U |
| 8270C SIM | 208-96-8 | Acenaphthylene | µg/kg | 1.8 J Z | 1.8 U |
| 8270C SIM | 218-01-9 | Chrysene | µg/kg | 11 | 1.8 U |
| 8270C SIM | 50-32-8 | Benzo(a)pyrene | µg/kg | 6.2 | 1.8 U |
| 8270C SIM | 53-70-3 | Dibenzo(a,h)anthracene | µg/kg | 1.4 J Z | 1.8 U |
| 8270C SIM | 56-55-3 | Benzo(a)anthracene | µg/kg | 3.6 | 1.8 U |
| 8270C SIM | 62-75-9 | N-Nitrosodimethylamine | µg/kg | 2.0 U | 1.8 U |
| 8270C SIM | 83-32-9 | Acenaphthene | µg/kg | 2.0 U | 1.8 U |
| 8270C SIM | 84-66-2 | Diethylphthalate | µg/kg | 20 U | 18 U |
| 8270C SIM | 84-74-2 | Di-n-butylphthalate | µg/kg | 20 U | 18 U |
| 8270C SIM | 85-01-8 | Phenanthrene | µg/kg | 34 | 1.8 U |
| 8270C SIM | 85-68-7 | Butylbenzylphthalate | µg/kg | 20 | 18 U |
| 8270C SIM | 86-73-7 | Fluorene | µg/kg | 2.0 U | 1.8 U |
| 8270C SIM | 90-12-0 | 1-Methylnaphthalene | µg/kg | 1.5 J Z | 1.8 U |
| 8270C SIM | 91-20-3 | Naphthalene | µg/kg | 31 | 1.8 U |
| 8270C SIM | 91-57-6 | 2-Methylnaphthalene | µg/kg | 2.0 U | 1.8 U |

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

| | | | | Sample Name | SL-001-NBZ-SS-0.0-0.5 | SL-002-NBZ-SS-0.0-0.5 | SL-002-NBZ-SB-4.0-5.0 | SL-002-NBZ-SB-7.5-8.5 | SL-003-NBZ-SS-0.0-0.5 | SL-003-NBZ-SB-4.0-5.0 | SL-004-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/09/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 04/11/2012 |
| | | | | SDG | 12D084 | 12C096 | 12C096 | 12C096 | 12C096 | 12C096 | 12D106 |
| | | | | Start Depth | 0 | 0 | 4 | 7.5 | 0 | 4 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 5 | 8.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 4.75 UY | 4 S | 4.5 UY | 4.5 UY | 4.5 UYS | 4.5 UY | 5.25 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 4.75 UY | 7.5 S | 4.5 UY | 4.5 UY | 4.5 UYS | 4.5 UY | 5.25 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 4.75 UY | 4.5 UYS | 4.5 UY | 4.5 UY | 4.5 UYS | 4.5 UY | 5.25 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 4.75 UY | 4.5 UYS | 4.5 UY | 4.5 UY | 4.5 UYS | 4.5 UY | 5.25 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 9.25 UJY E | 8.5 UYS | 9 UY | 9 UY | 8.5 UYS | 8.75 UY | 10 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 4.75 UY | 4.5 UYS | 4.5 UY | 4.5 UY | 4.5 UYS | 4.5 UY | 5.25 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 9.25 UJY E | 8.5 UYS | 9 UY | 9 UY | 8.5 UYS | 8.75 UY | 10 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 4.75 UY | 4.5 UYS | 4.5 UY | 4.5 UY | 4.5 UYS | 4.5 UY | 5.25 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 4.75 UY | 4.5 UYS | 4.5 UY | 4.5 UY | 4.5 UYS | 4.5 UY | 5.25 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 4.75 UY | 4.5 UYS | 4.5 UY | 4.5 UY | 4.5 UYS | 4.5 UY | 5.25 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 4.75 UY | 4.5 UYS | 4.5 UY | 4.5 UY | 4.5 UYS | 4.5 UY | 5.25 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 9.25 UJY E | 8.5 UYS | 9 UY | 9 UY | 8.5 UYS | 8.75 UY | 10 UY |

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

Appendix A18
PCBs/PCTs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-005-NBZ-SB-4.0-5.0 | SL-006-NBZ-SB-3.0-4.0 | SL-007-NBZ-SB-4.0-5.0 | SL-007-NBZ-SB-9.0-10.0 | SL-008-NBZ-SB-4.0-5.0 | DUP-07-NBZ-QC-041012 |
| | | | Sample Type | N | N | N | N | N | FD |
| | | | Sample Date | 03/13/2012 | 03/13/2012 | 03/12/2012 | 03/12/2012 | 04/18/2012 | 04/10/2012 |
| | | | SDG | 12C106 | 12C106 | 12C096 | 12C096 | 12D166 | 12D092 |
| | | | Start Depth | 4 | 3 | 4 | 9 | 4 | 0 |
| | | | End Depth | 5 | 4 | 5 | 10 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 5 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 30 |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 5 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 5 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 9.25 UY | 8.75 UY | 9 UY | 9 UY | 8.75 UY | 9.5 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 5 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 9.25 UY | 8.75 UY | 9 UY | 9 UY | 8.75 UY | 9.5 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 5 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 5 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 5 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 5 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 9.25 UY | 8.75 UY | 9 UY | 9 UY | 8.75 UY | 9.5 UY |

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

| | | | | Sample Name | SL-009-NBZ-SS-0.0-0.5 | SL-010-NBZ-SB-4.0-5.0 | SL-011-NBZ-SS-0.0-0.5 | SL-012-NBZ-SS-0.0-0.5 | SL-012-NBZ-SB-0.5-1.5 | SL-013-NBZ-SS-0.0-0.5 | SL-014-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/10/2012 | 03/12/2012 | 04/12/2012 | 04/19/2012 | 04/19/2012 | 04/16/2012 | 04/17/2012 |
| | | | | SDG | 12D092 | 12C096 | 12D122 | 12D176 | 12D176 | 12D146 | 12D154 |
| | | | | Start Depth | 0 | 4 | 0 | 0 | 0.5 | 0 | 0 |
| | | | | End Depth | 0.5 | 5 | 0.5 | 0.5 | 1.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 5 UY | 4.5 UY | 4.75 UY | 5 UY | 5 UY | 6.25 UY | 5.25 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 41 | 4.5 UY | 4.75 UY | 5 UY | 5 UY | 7.9 | 9.8 |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 5 UY | 4.5 UY | 4.75 UY | 5 UY | 5 UY | 6.25 UY | 5.25 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 5 UY | 4.5 UY | 4.75 UY | 5 UY | 5 UY | 6.25 UY | 5.25 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 9.5 UY | 9 UY | 9.5 UY | 9.75 UY | 9.75 UY | 16 | 10.25 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 5 UY | 4.5 UY | 4.75 UY | 5 UY | 5 UY | 6.25 UY | 5.25 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 9.5 UY | 9 UY | 9.5 UY | 9.75 UY | 9.75 UY | 12.25 UY | 10.25 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 5 UY | 4.5 UY | 4.75 UY | 5 UY | 5 UY | 6.25 UY | 5.25 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 5 UY | 4.5 UY | 4.75 UY | 5 UY | 5 UY | 6.25 UY | 5.25 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 5 UY | 4.5 UY | 4.75 UY | 5 UY | 5 UY | 6.25 UY | 5.25 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 5 UY | 4.5 UY | 4.75 UY | 5 UY | 5 UY | 6.25 UY | 5.25 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 9.5 UY | 9 UY | 9.5 UY | 9.75 UY | 9.75 UY | 12.25 UY | 10.25 UY |

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

Appendix A18
PCBs/PCTs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-015-NBZ-SS-0.0-0.5 | SL-016-NBZ-SS-0.0-0.5 | SL-017-NBZ-SS-0.0-0.5 | SL-018-NBZ-SS-0.0-0.5 | SL-019-NBZ-SS-0.0-0.5 | SL-019-NBZ-SB-3.0-4.0 | SL-020-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/13/2012 | 04/20/2012 | 04/19/2012 | 04/20/2012 | 03/13/2012 | 03/13/2012 | 04/04/2012 |
| | | | SDG | 12C106 | 12D192 | 12D176 | 12D192 | 12C106 | 12C106 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 4 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 4.25 UY | 5.25 UY | 6 UJY C | 5.25 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 4.25 UY | 5.25 UY | 6 UY | 5.25 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 4.25 UY | 5.25 UY | 6 UY | 5.25 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 4.25 UY | 5.25 UY | 6 UY | 5.25 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 8.5 UY | 5.3 | 11.75 UY | 10 UY | 8.5 UY | 8.75 UY | 9.25 UJY E |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 4.25 UY | 5.25 UY | 6 UY | 5.25 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 8.5 UY | 10.5 UY | 11.75 UY | 10 UY | 8.5 UY | 8.75 UY | 9.25 UJY E |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 4.25 UY | 5.25 UY | 6 UJY C | 5.25 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 4.25 UY | 5.25 UY | 6 UY | 5.25 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 4.25 UY | 5.25 UY | 6 UY | 5.25 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 4.25 UY | 5.25 UY | 6 UJY C | 5.25 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 8.5 UY | 10.5 UY | 11.75 UY | 10 UY | 8.5 UY | 8.75 UY | 9.25 UJY E |

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

| | | | | Sample Name | SL-020-NBZ-SB-2.5-3.5 | SL-021-NBZ-SS-0.0-0.5 | SL-021-NBZ-SB-4.0-5.0 | SL-022-NBZ-SS-0.0-0.5 | SL-022-NBZ-SB-4.0-5.0 | SL-022-NBZ-SB-9.0-10.0 | SL-023-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/04/2012 | 03/13/2012 | 03/13/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 |
| | | | | SDG | 12D031 | 12C106 | 12C106 | 12C121 | 12C121 | 12C121 | 12C121 |
| | | | | Start Depth | 2.5 | 0 | 4 | 0 | 4 | 9 | 0 |
| | | | | End Depth | 3.5 | 0.5 | 5 | 0.5 | 5 | 10 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 4.75 UY | 4.25 UY | 4.5 UY | 1.4 J Z | 4.5 UY | 4.5 UY | 2.5 |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 4.75 UY | 4.25 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 2.7 |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 4.75 UY | 4.25 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 4.75 UY | 4.25 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 9.25 UJY E | 8.5 UY | 8.5 UY | 8.75 UY | 8.5 UY | 8.75 UY | 8.5 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 4.75 UY | 4.25 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 9.25 UJY E | 8.5 UY | 8.5 UY | 8.75 UY | 8.5 UY | 8.75 UY | 8.5 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 4.75 UY | 4.25 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 4.75 UY | 4.25 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 4.75 UY | 4.25 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 4.75 UY | 4.25 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 9.25 UJY E | 8.5 UY | 8.5 UY | 8.75 UY | 8.5 UY | 8.75 UY | 8.5 UY |

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

Appendix A18
PCBs/PCTs-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-023-NBZ-SB-4.0-5.0 | SL-023-NBZ-SB-8.5-9.5 | SL-024-NBZ-SS-0.0-0.5 | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 | SL-028-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 03/14/2012 | 03/14/2012 | 03/14/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 |
| | | | | SDG | 12C121 | 12C121 | 12C121 | 12D004 | 12D004 | 12D004 | 12D004 |
| | | | | Start Depth | 4 | 8.5 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 5 | 9.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 4.5 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 5 UY | 4.75 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 4.5 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 5 UY | 4.75 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 4.5 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 5 UY | 4.75 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 4.5 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 5 UY | 4.75 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 8.5 UY | 8.75 UY | 8.5 UY | 9 UY | 8.75 UY | 3.5 J Z | 9 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 4.5 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 5 UY | 4.75 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 8.5 UY | 8.75 UY | 8.5 UY | 9 UY | 8.75 UY | 9.5 UY | 9 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 4.5 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 5 UY | 4.75 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 4.5 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 5 UY | 4.75 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 4.5 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 5 UY | 4.75 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 4.5 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 5 UY | 4.75 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 8.5 UY | 8.75 UY | 8.5 UY | 9 UY | 8.75 UY | 9.5 UY | 9 UY |

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

| | | | Sample Name | SL-029-NBZ-SS-0.0-0.5 | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 | SL-034-NBZ-SS-0.0-0.5 | SL-035-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/15/2012 | 03/14/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 |
| | | | SDG | 12C135 | 12C121 | 12D018 | 12D018 | 12D018 | 12D018 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 23 | 17 | 4.5 UY | 4.75 UY | 4.75 UY | 5 UY | 4.75 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 49 | 27 | 4.5 UY | 4.75 UY | 4.75 UY | 5 UY | 4.75 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 4.5 UY | 4.25 UY | 4.5 UY | 4.75 UY | 4.75 UY | 5 UY | 4.75 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 4.5 UY | 4.25 UY | 4.5 UY | 4.75 UY | 4.75 UY | 5 UY | 4.75 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 17 | 14 | 9 UY | 9.25 UY | 9 UY | 4.1 | 9.25 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 4.5 UY | 4.25 UY | 4.5 UY | 4.75 UY | 4.75 UY | 5 UY | 4.75 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 8.5 UY | 8.5 UY | 9 UY | 9.25 UY | 9 UY | 9.75 UY | 9.25 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 4.5 UY | 4.25 UY | 4.5 UY | 4.75 UY | 4.75 UY | 5 UY | 4.75 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 4.5 UY | 4.25 UY | 4.5 UY | 4.75 UY | 4.75 UY | 5 UY | 4.75 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 4.5 UY | 4.25 UY | 4.5 UY | 4.75 UY | 4.75 UY | 5 UY | 4.75 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 4.5 UY | 4.25 UY | 4.5 UY | 4.75 UY | 4.75 UY | 5 UY | 4.75 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 8.5 UY | 8.5 UY | 9 UY | 9.25 UY | 9 UY | 9.75 UY | 9.25 UY |

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

Appendix A18
PCBs/PCTs-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-035-NBZ-SB-2.0-3.0 | SL-036-NBZ-SB-4.0-5.0 | SL-036-NBZ-SB-7.5-8.5 | SL-037-NBZ-SB-3.0-4.0 | SL-038-NBZ-SS-0.0-0.5 | SL-039-NBZ-SB-2.0-3.0 | SL-040-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/03/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 | 03/28/2012 |
| | | | | SDG | 12D018 | 12C285 | 12C285 | 12C285 | 12C273 | 12C273 | 12C285 |
| | | | | Start Depth | 2 | 4 | 7.5 | 3 | 0 | 2 | 0 |
| | | | | End Depth | 3 | 5 | 8.5 | 4 | 0.5 | 3 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 4.5 UY | 4.75 UY | 55 UY | 4.75 UY | 102.5 UY | 97.5 UY | 95 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 4.5 UY | 4.75 UY | 55 UY | 4.75 UY | 102.5 UY | 97.5 UY | 95 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 4.5 UY | 4.75 UY | 55 UY | 4.75 UY | 102.5 UY | 97.5 UY | 95 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 4.5 UY | 4.75 UY | 55 UY | 4.75 UY | 102.5 UY | 97.5 UY | 95 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 8.75 UY | 9.25 UY | 107.5 UY | 9.25 UY | 200 UY | 187.5 UY | 185 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 4.5 UY | 4.75 UY | 55 UY | 4.75 UY | 102.5 UY | 97.5 UY | 95 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 8.75 UY | 9.25 UY | 107.5 UY | 9.25 UY | 200 UY | 187.5 UY | 185 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 4.5 UY | 4.75 UY | 55 UY | 4.75 UY | 102.5 UY | 97.5 UY | 95 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 4.5 UY | 4.75 UY | 55 UY | 4.75 UY | 102.5 UY | 97.5 UY | 95 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 4.5 UY | 4.75 UY | 55 UY | 4.75 UY | 102.5 UY | 97.5 UY | 95 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 4.5 UY | 4.75 UY | 55 UY | 4.75 UY | 102.5 UY | 97.5 UY | 95 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 8.75 UY | 9.25 UY | 107.5 UY | 9.25 UY | 200 UY | 187.5 UY | 185 UY |

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

| | | | | Sample Name | DUP-03-NBZ-QC-032812 | SL-040-NBZ-SB-2.5-3.5 | SL-042-NBZ-SS-0.0-0.5 | SL-043-NBZ-SS-0.0-0.5 | SL-044-NBZ-SS-0.0-0.5 | SL-045-NBZ-SS-0.0-0.5 | SL-045-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | FD | N | N | N | N | N | N |
| | | | | Sample Date | 03/28/2012 | 03/28/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 | 03/26/2012 | 03/26/2012 |
| | | | | SDG | 12C285 | 12C285 | 12C261 | 12C261 | 12C305 | 12C261 | 12C261 |
| | | | | Start Depth | 2.5 | 2.5 | 0 | 0 | 0 | 0 | 4 |
| | | | | End Depth | 3.5 | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 450 UY | 450 UY | 5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.5 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 450 UY | 450 UY | 45 | 9.5 | 1800 | 4.5 UY | 4.5 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 450 UY | 450 UY | 5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.5 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 450 UY | 450 UY | 5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.5 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 875 UY | 875 UY | 7.5 | 2.5 J Z | 1300 | 4.3 | 8.75 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 450 UY | 450 UY | 5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.5 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 875 UY | 875 UY | 9.5 UY | 9.25 UY | 8.5 UY | 9 UY | 8.75 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 450 UY | 450 UY | 5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.5 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 450 UY | 450 UY | 5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.5 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 450 UY | 450 UY | 5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.5 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 450 UY | 450 UY | 5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.5 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 875 UY | 875 UY | 9.5 UY | 9.25 UY | 8.5 UY | 9 UY | 8.75 UY |

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

Appendix A18
PCBs/PCTs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-046-NBZ-SS-0.0-0.5 | SL-046-NBZ-SB-4.0-5.0 | SL-047-NBZ-SB-4.0-5.0 | SL-048-NBZ-SS-0.0-0.5 | SL-048-NBZ-SB-4.0-5.0 | SL-049-NBZ-SB-2.0-3.0 | SL-050-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/26/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/26/2012 |
| | | | SDG | 12C261 | 12C261 | 12C254 | 12C254 | 12C254 | 12C254 | 12C261 |
| | | | Start Depth | 0 | 4 | 4 | 0 | 4 | 2 | 0 |
| | | | End Depth | 0.5 | 5 | 5 | 0.5 | 5 | 3 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 27 | 4.5 UY | 680 | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 22 | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 5 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 5 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 3.5 J Z | 8.75 UY | 7.6 | 9.25 UY | 8.75 UY | 8.5 UY | 9 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 5 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 9.75 UY | 8.75 UY | 8.75 UY | 9.25 UY | 8.75 UY | 8.5 UY | 9 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 5 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 5 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 5 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 5 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 9.75 UY | 8.75 UY | 8.75 UY | 9.25 UY | 8.75 UY | 8.5 UY | 9 UY |

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

| | | | | Sample Name | SL-051-NBZ-SB-1.5-2.5 | SL-052-NBZ-SS-0.0-0.5 | SL-053-NBZ-SS-0.0-0.5 | SL-053-NBZ-SB-3.5-4.5 | SL-054-NBZ-SS-0.0-0.5 | SL-055-NBZ-SS-0.0-0.5 | SL-056-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 03/23/2012 | 03/15/2012 | 03/15/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/15/2012 |
| | | | | SDG | 12C254 | 12C135 | 12C135 | 12C135 | 12C229 | 12C229 | 12C135 |
| | | | | Start Depth | 1.5 | 0 | 0 | 3.5 | 0 | 0 | 0 |
| | | | | End Depth | 2.5 | 0.5 | 0.5 | 4.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | | 4.5 UY | 13 | 42 | 4.5 UY | 44 | 4.75 UY | 33 |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | | 4.5 UY | 31 | 230 | 4.5 UY | 4.5 UY | 4.8 | 140 |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | | 4.5 UY | 4.25 UY | 4.25 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.25 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | | 4.5 UY | 4.25 UY | 4.25 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.25 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | | 8.5 UY | 8.5 UY | 8.1 | 8.5 UY | 6 | 9.25 UY | 7.8 |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | | 4.5 UY | 4.25 UY | 4.25 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.25 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | | 8.5 UY | 8.5 UY | 8.5 UY | 8.5 UY | 9 UY | 9.25 UY | 8.5 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | | 4.5 UY | 4.25 UY | 4.25 UY | 4.5 UY | 54 | 4.75 UY | 4.25 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | | 4.5 UY | 4.25 UY | 4.25 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.25 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | | 4.5 UY | 4.25 UY | 4.25 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.25 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | | 4.5 UY | 4.25 UY | 4.25 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.25 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | | 8.5 UY | 8.5 UY | 8.5 UY | 8.5 UY | 9 UY | 9.25 UY | 8.5 UY |

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

Appendix A18
PCBs/PCTs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-056-NBZ-SB-3.0-4.0 | DUP-02-NBZ-QC-032312 | SL-057-NBZ-SS-0.0-0.5 | SL-058-NBZ-SB-4.0-5.0 | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 | SL-061-NBZ-SB-1.0-2.0 |
| | | | Sample Type | N | FD | N | N | N | N | N |
| | | | Sample Date | 03/15/2012 | 03/23/2012 | 03/23/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/22/2012 |
| | | | SDG | 12C135 | 12C254 | 12C254 | 12C135 | 12C229 | 12C229 | 12C229 |
| | | | Start Depth | 3 | 0 | 0 | 5 | 0 | 0 | 1 |
| | | | End Depth | 4 | 0.5 | 0.5 | 5 | 0.5 | 0.5 | 2 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 4.5 UY | 4.5 UJY FD | 1500 J FD, C | 4.5 UY | 60 | 430 | 4.9 |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 4.5 UY | 4.5 UY | 450 UJY C | 4.5 UY | 4.75 UY | 112.5 UY | 4.5 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 4.5 UY | 4.5 UY | 450 UJY C | 4.5 UY | 4.75 UY | 112.5 UY | 4.5 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 4.5 UY | 4.5 UY | 450 UY | 4.5 UY | 4.75 UY | 112.5 UY | 4.5 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 8.5 UY | 8.75 UJY FD | 26 J FD | 8.75 UY | 9 UY | 217.5 UY | 8.75 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 4.5 UY | 4.5 UY | 450 UY | 4.5 UY | 4.75 UY | 112.5 UY | 4.5 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 8.5 UY | 8.75 UY | 900 UY | 8.75 UY | 9 UY | 217.5 UY | 8.75 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 4.5 UY | 4.5 UJY FD | 4200 J FD, *# | 4.5 UY | 150 J S | 3200 | 8.3 |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 4.5 UY | 4.5 UY | 450 UY | 4.5 UY | 4.75 UY | 112.5 UY | 4.5 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 4.5 UY | 4.5 UY | 450 UJY C | 4.5 UY | 4.75 UY | 112.5 UY | 4.5 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 4.5 UY | 4.5 UY | 450 UJY C | 4.5 UY | 4.75 UY | 112.5 UY | 4.5 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 8.5 UY | 8.75 UY | 900 UY | 8.75 UY | 9 UY | 217.5 UY | 8.75 UY |

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

| | | | | Sample Name | SL-062-NBZ-SB-2.5-3.5 | SL-063-NBZ-SB-0.5-1.5 | SL-064-NBZ-SB-0.5-1.5 | SL-065-NBZ-SB-1.0-2.0 | SL-066-NBZ-SB-2.0-3.0 | SL-067-NBZ-SB-1.5-2.5 | DUP-01-NBZ-QC-031612 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | FD |
| | | | | Sample Date | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/16/2012 | 03/16/2012 |
| | | | | SDG | 12C209 | 12C209 | 12C209 | 12C209 | 12C209 | 12C156 | 12C156 |
| | | | | Start Depth | 2.5 | 0.5 | 0.5 | 1 | 2 | 1.5 | 2.5 |
| | | | | End Depth | 3.5 | 1.5 | 1.5 | 2 | 3 | 2.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 4.5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 4.5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 4.5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 4.5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 8.5 UY | 9.5 UY | 8.75 UY | 9 UY | 8.5 UY | 9 UY | 9 UY | 9 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 4.5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 8.5 UY | 9.5 UY | 8.75 UY | 9 UY | 8.5 UY | 9 UY | 9 UY | 9 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 220 | 4.75 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 4.5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 4.5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 4.5 UY | 4.75 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 8.5 UY | 9.5 UY | 8.75 UY | 9 UY | 8.5 UY | 9 UY | 9 UY | 9 UY |

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

Appendix A18
PCBs/PCTs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-068-NBZ-SB-2.5-3.5 | SL-069-NBZ-SB-3.0-4.0 | SL-070-NBZ-SS-0.0-0.5 | SL-071-NBZ-SB-4.0-5.0 | SL-072-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-9.0-10.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/16/2012 | 03/20/2012 | 03/20/2012 | 03/19/2012 | 03/16/2012 | 03/19/2012 | 03/19/2012 |
| | | | SDG | 12C156 | 12C182 | 12C182 | 12C164 | 12C156 | 12C164 | 12C164 |
| | | | Start Depth | 2.5 | 3 | 0 | 4 | 4 | 4 | 9 |
| | | | End Depth | 3.5 | 4 | 0.5 | 5 | 5 | 5 | 10 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.75 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 4.75 UY | 4.5 UY | 2 | 4.5 UY | 4.75 UY | 4.5 UY | 4.75 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.75 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.75 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 9 UY | 8.75 UY | 9.5 UY | 8.75 UY | 9.25 UY | 9 UY | 9 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.75 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 9 UY | 8.75 UY | 9.5 UY | 8.75 UY | 9.25 UY | 9 UY | 9 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.75 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.75 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.75 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.75 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 9 UY | 8.75 UY | 9.5 UY | 8.75 UY | 9.25 UY | 9 UY | 9 UY |

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

| | | | | Sample Name | SL-074-NBZ-SB-0.5-1.5 | SL-075-NBZ-SS-0.0-0.5 | SL-076-NBZ-SS-0.0-0.5 | SL-077-NBZ-SS-0.0-0.5 | SL-077-NBZ-SB-2.5-3.5 | SL-078-NBZ-SS-0.0-0.5 | SL-079-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 03/19/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/27/2012 | 03/30/2012 |
| | | | | SDG | 12C164 | 12C182 | 12C182 | 12C182 | 12C182 | 12C273 | 12C321 |
| | | | | Start Depth | 0.5 | 0 | 0 | 0 | 2.5 | 0 | 0 |
| | | | | End Depth | 1.5 | 0.5 | 0.5 | 0.5 | 3.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 4.5 UY | 5.1 | 3.9 | 3.6 | 4.5 UY | 4.75 UY | 5 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 4.5 UY | 5.2 | 4.2 | 3.8 | 4.2 | 4.75 UY | 5 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 4.5 UY | 4.75 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY | 5 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 4.5 UY | 4.75 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY | 5 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 8.5 UY | 9 UY | 6.2 | 9.5 UY | 8.75 UY | 9.25 UY | 9.5 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 4.5 UY | 4.75 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY | 5 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 8.5 UY | 9 UY | 9.5 UY | 9.5 UY | 8.75 UY | 9.25 UY | 9.5 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 4.5 UY | 4.75 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY | 5 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 4.5 UY | 4.75 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY | 5 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 4.5 UY | 4.75 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY | 5 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 4.5 UY | 4.75 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY | 5 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 8.5 UY | 9 UY | 9.5 UY | 9.5 UY | 8.75 UY | 9.25 UY | 9.5 UY |

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

Appendix A18
PCBs/PCTs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-080-NBZ-SS-0.0-0.5 | SL-081-NBZ-SS-0.0-0.5 | SL-082-NBZ-SS-0.0-0.5 | SL-082-NBZ-SB-2.5-3.5 | SL-083-NBZ-SS-0.0-0.5 | SL-084-NBZ-SS-0.0-0.5 | SL-085-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/20/2012 | 04/18/2012 | 04/18/2012 | 04/18/2012 | 04/18/2012 | 04/10/2012 | 04/10/2012 |
| | | | SDG | 12D192 | 12D166 | 12D166 | 12D166 | 12D166 | 12D092 | 12D092 |
| | | | Start Depth | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 3.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 5 UY | 5 UY | 86 | 6.3 | 92 | 110 | 5 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 5 UY | 5 UY | 64 | 6.2 | 100 | 100 | 10 |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 5 UY | 5 UY | 4.75 UY | 4.75 UY | 9.75 UY | 5 UY | 5 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 5 UY | 5 UY | 4.75 UY | 4.75 UY | 9.75 UY | 5 UY | 5 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 3.8 | 9.75 UY | 42 | 2.4 J Z | 19 UY | 4.9 | 9.75 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 5 UY | 5 UY | 4.75 UY | 4.75 UY | 9.75 UY | 5 UY | 5 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 9.5 UY | 9.75 UY | 9.5 UY | 9.5 UY | 19 UY | 9.75 UY | 9.75 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 5 UY | 5 UY | 4.75 UY | 4.75 UY | 9.75 UY | 5 UY | 5 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 5 UY | 5 UY | 4.75 UY | 4.75 UY | 9.75 UY | 5 UY | 5 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 5 UY | 5 UY | 4.75 UY | 4.75 UY | 9.75 UY | 5 UY | 5 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 5 UY | 5 UY | 4.75 UY | 4.75 UY | 9.75 UY | 5 UY | 5 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 9.5 UY | 9.75 UY | 9.5 UY | 9.5 UY | 19 UY | 9.75 UY | 9.75 UY |

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

| | | | | Sample Name | SL-086-NBZ-SS-0.0-0.5 | SL-087-NBZ-SS-0.0-0.5 | SL-088-NBZ-SS-0.0-0.5 | SL-089-NBZ-SS-0.0-0.5 | SL-090-NBZ-SS-0.0-0.5 | SL-091-NBZ-SS-0.0-0.5 | SL-091-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/19/2012 | 04/19/2012 | 04/17/2012 | 04/20/2012 | 04/17/2012 | 03/29/2012 | 03/29/2012 |
| | | | | SDG | 12D176 | 12D176 | 12D154 | 12D192 | 12D154 | 12C305 | 12C305 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 5.5 UJY C | 5.25 UJY C | 5.5 UY | 4.75 UY | 5 UY | 6.4 | 5.25 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 7.2 J *# | 6.4 J *# | 13 | 4.75 UY | 5 UY | 5.25 UY | 5.25 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 5.5 UY | 5.25 UY | 5.5 UY | 4.75 UY | 5 UY | 5.25 UY | 5.25 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 5.5 UY | 5.25 UY | 5.5 UY | 4.75 UY | 5 UY | 5.25 UY | 5.25 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 10.75 UY | 10.5 UY | 10.75 UY | 3.6 J Z | 9.5 UY | 2.1 J Z | 10.25 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 5.5 UY | 5.25 UY | 5.5 UY | 4.75 UY | 5 UY | 5.25 UY | 5.25 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 10.75 UY | 10.5 UY | 10.75 UY | 9.25 UY | 9.5 UY | 10 UY | 10.25 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 5.5 UJY C | 5.25 UJY C | 5.5 UY | 4.75 UY | 5 UY | 5.25 UY | 5.25 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 5.5 UY | 5.25 UY | 5.5 UY | 4.75 UY | 5 UY | 5.25 UY | 5.25 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 5.5 UY | 5.25 UY | 5.5 UY | 4.75 UY | 5 UY | 5.25 UY | 5.25 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 5.5 UJY C | 5.25 UJY C | 5.5 UY | 4.75 UY | 5 UY | 5.25 UY | 5.25 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 10.75 UY | 10.5 UY | 10.75 UY | 9.25 UY | 9.5 UY | 10 UY | 10.25 UY |

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

Appendix A18
PCBs/PCTs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | DUP-05-NBZ-QC-032912 | SL-092-NBZ-SS-0.0-0.5 | SL-094-NBZ-SS-0.0-0.5 | SL-095-NBZ-SS-0.0-0.5 | SL-096-NBZ-SS-0.0-0.5 | SL-097-NBZ-SS-0.0-0.5 | SL-099-NBZ-SS-0.0-0.5 |
| | | | Sample Type | FD | N | N | N | N | N | N |
| | | | Sample Date | 03/29/2012 | 03/29/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 | 04/04/2012 | 04/04/2012 |
| | | | SDG | 12C305 | 12C305 | 12C285 | 12C273 | 12C285 | 12D031 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 3.3 J FD | 5 UJY FD | 5 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 5 UY | 5 UY | 5 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 5 UY | 5 UY | 5 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 5 UY | 5 UY | 5 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 5.6 J FD | 9.75 UJY FD | 9.5 UY | 9.25 UY | 3.1 J Z | 8.75 UJY E | 3.7 J S, E |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 5 UY | 5 UY | 5 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 9.75 UY | 9.75 UY | 9.5 UY | 9.25 UY | 9.5 UY | 8.75 UJY E | 9 UJY E |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 5 UY | 5 UY | 5 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 5 UY | 5 UY | 5 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 5 UY | 5 UY | 5 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 5 UY | 5 UY | 5 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 9.75 UY | 9.75 UY | 9.5 UY | 9.25 UY | 9.5 UY | 8.75 UJY E | 9 UJY E |

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

| | | | | Sample Name | SL-100-NBZ-SS-0.0-0.5 | SL-101-NBZ-SS-0.0-0.5 | SL-102-NBZ-SS-0.0-0.5 | SL-103-NBZ-SS-0.0-0.5 | SL-104-NBZ-SS-0.0-0.5 | SL-105-NBZ-SS-0.0-0.5 | SL-107-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/04/2012 | 03/29/2012 | 03/27/2012 | 03/29/2012 | 04/04/2012 | 03/21/2012 | 04/02/2012 |
| | | | | SDG | 12D031 | 12C305 | 12C273 | 12C305 | 12D031 | 12C209 | 12D004 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 4.5 UY | 4.75 UY | 5 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.75 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 4.5 UY | 4.75 UY | 5 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.75 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 4.5 UY | 4.75 UY | 5 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.75 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 4.5 UY | 4.75 UY | 5 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.75 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 9 UJY E | 9.5 UY | 9.5 UY | 9.5 UY | 3.4 J E, Z | 9.25 UY | 2.2 J Z |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 4.5 UY | 4.75 UY | 5 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.75 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 9 UJY E | 9.5 UY | 9.5 UY | 9.5 UY | 9 UJY E | 9.25 UY | 9.25 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 4.5 UY | 4.75 UY | 5 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.75 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 4.5 UY | 4.75 UY | 5 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.75 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 4.5 UY | 4.75 UY | 5 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.75 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 4.5 UY | 4.75 UY | 5 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.75 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 9 UJY E | 9.5 UY | 9.5 UY | 9.5 UY | 9 UJY E | 9.25 UY | 9.25 UY |

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

Appendix A18
PCBs/PCTs-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-108-NBZ-SS-0.0-0.5 | SL-109-NBZ-SS-0.0-0.5 | SL-110-NBZ-SS-0.0-0.5 | SL-111-NBZ-SS-0.0-0.5 | SL-112-NBZ-SS-0.0-0.5 | SL-113-NBZ-SS-0.0-0.5 | SL-114-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/03/2012 | 03/27/2012 | 04/04/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/04/2012 |
| | | | | SDG | 12D018 | 12C273 | 12D031 | 12D004 | 12D004 | 12D004 | 12D031 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 4.5 UY | 4.75 UY | 4.5 UY | 5.25 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 4.5 UY | 4.75 UY | 4.5 UY | 5.25 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 4.5 UY | 4.75 UY | 4.5 UY | 5.25 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 4.5 UY | 4.75 UY | 4.5 UY | 5.25 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 8.75 UY | 9.5 UY | 3.7 J S, E | 3.9 J Z | 9 UY | 9 UY | 2.9 J E, Z |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 4.5 UY | 4.75 UY | 4.5 UY | 5.25 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 8.75 UY | 9.5 UY | 9 UJY E | 10.5 UY | 9 UY | 9 UY | 9 UJY E |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 4.5 UY | 4.75 UY | 4.5 UY | 5.25 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 4.5 UY | 4.75 UY | 4.5 UY | 5.25 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 4.5 UY | 4.75 UY | 4.5 UY | 5.25 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 4.5 UY | 4.75 UY | 4.5 UY | 5.25 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 8.75 UY | 9.5 UY | 9 UJY E | 10.5 UY | 9 UY | 9 UY | 9 UJY E |

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

| | | Sample Name | SL-115-NBZ-SS-0.0-0.5 | SL-116-NBZ-SS-0.0-0.5 | DUP-04-NBZ-QC-032912 | SL-118-NBZ-SS-0.0-0.5 | SL-119-NBZ-SS-0.0-0.5 | SL-120-NBZ-SS-0.0-0.5 | SL-121-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | Sample Type | N | N | FD | N | N | N | N |
| | | Sample Date | 04/03/2012 | 03/22/2012 | 03/29/2012 | 03/29/2012 | 03/27/2012 | 04/04/2012 | 03/30/2012 |
| | | SDG | 12D018 | 12C229 | 12C305 | 12C305 | 12C273 | 12D031 | 12C321 |
| | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.5 UY | 4.5 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.5 UY | 4.5 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.5 UY | 4.5 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.5 UY | 4.5 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 9.5 UY | 9.25 UY | 9 UY | 9 UY | 9.25 UY | 9 UJY E | 9 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.5 UY | 4.5 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 9.5 UY | 9.25 UY | 9 UY | 9 UY | 9.25 UY | 9 UJY E | 9 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.5 UY | 4.5 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.5 UY | 4.5 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.5 UY | 4.5 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.5 UY | 4.5 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 9.5 UY | 9.25 UY | 9 UY | 9 UY | 9.25 UY | 9 UJY E | 9 UY |

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

Appendix A18
PCBs/PCTs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-122-NBZ-SS-0.0-0.5 | SL-123-NBZ-SS-0.0-0.5 | SL-124-NBZ-SS-0.0-0.5 | SL-126-NBZ-SS-0.0-0.5 | SL-127-NBZ-SS-0.0-0.5 | SL-129-NBZ-SS-0.0-0.5 | SL-130-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 | 04/03/2012 | 03/27/2012 | 03/27/2012 |
| | | | SDG | 12D018 | 12C261 | 12C261 | 12C261 | 12D018 | 12C273 | 12C273 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 4.75 UY | 5 UY | 5.75 UY | 5 UY | 4.5 UY | 5.25 UY | 5 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 4.75 UY | 5 UY | 5.75 UY | 5 UY | 4.5 UY | 5.25 UY | 5 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 4.75 UY | 5 UY | 5.75 UY | 5 UY | 4.5 UY | 5.25 UY | 5 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 4.75 UY | 5 UY | 5.75 UY | 5 UY | 4.5 UY | 5.25 UY | 5 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 9.5 UY | 9.75 UY | 11 UY | 10 UY | 8.75 UY | 17 | 9.75 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 4.75 UY | 5 UY | 5.75 UY | 5 UY | 4.5 UY | 5.25 UY | 5 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 9.5 UY | 9.75 UY | 11 UY | 10 UY | 8.75 UY | 10.25 UY | 9.75 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 4.75 UY | 5 UY | 5.75 UY | 5 UY | 4.5 UY | 5.25 UY | 5 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 4.75 UY | 5 UY | 5.75 UY | 5 UY | 4.5 UY | 5.25 UY | 5 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 4.75 UY | 5 UY | 5.75 UY | 5 UY | 4.5 UY | 5.25 UY | 5 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 4.75 UY | 5 UY | 5.75 UY | 5 UY | 4.5 UY | 5.25 UY | 5 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 9.5 UY | 9.75 UY | 11 UY | 10 UY | 8.75 UY | 10.25 UY | 9.75 UY |

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

| | | | | Sample Name | SL-131-NBZ-SS-0.0-0.5 | SL-133-NBZ-SS-0.0-0.5 | SL-134-NBZ-SS-0.0-0.5 | SL-135-NBZ-SS-0.0-0.5 | SL-136-NBZ-SS-0.0-0.5 | SL-138-NBZ-SS-0.0-0.5 | SL-139-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 03/29/2012 | 03/26/2012 | 03/30/2012 | 03/28/2012 | 03/28/2012 | 04/02/2012 | 03/28/2012 |
| | | | | SDG | 12C305 | 12C261 | 12C321 | 12C285 | 12C285 | 12D004 | 12C285 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 4.5 UY | 5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 4.5 UY | 5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 4.5 UY | 5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 4.5 UY | 5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 9 UY | 9.5 UY | 9 UY | 9.5 UY | 9.25 UY | 9.25 UY | 9.25 UY | 3.9 |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 4.5 UY | 5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 9 UY | 9.5 UY | 9 UY | 9.5 UY | 9.25 UY | 9.25 UY | 9.25 UY | 9.75 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 4.5 UY | 5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 4.5 UY | 5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 4.5 UY | 5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 4.5 UY | 5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 9 UY | 9.5 UY | 9 UY | 9.5 UY | 9.25 UY | 9.25 UY | 9.25 UY | 9.75 UY |

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

Appendix A18
PCBs/PCTs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-140-NBZ-SS-0.0-0.5 | SL-141-NBZ-SS-0.0-0.5 | SL-143-NBZ-SS-0.0-0.5 | SL-144-NBZ-SS-0.0-0.5 | SL-145-NBZ-SS-0.0-0.5 | SL-146-NBZ-SS-0.0-0.5 | SL-147-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 03/28/2012 | 03/28/2012 | 04/12/2012 | 04/11/2012 | 04/18/2012 | 04/17/2012 |
| | | | SDG | 12D018 | 12C285 | 12C285 | 12D122 | 12D106 | 12D166 | 12D154 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 5 UY | 4.75 UY | 4.5 UY | 5 UY | 5.5 UY | 5 UY | 5 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 5 UY | 4.75 UY | 4.5 UY | 5 UY | 5.5 UY | 5 UY | 5 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 5 UY | 4.75 UY | 4.5 UY | 5 UY | 5.5 UY | 5 UY | 5 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 5 UY | 4.75 UY | 4.5 UY | 5 UY | 5.5 UY | 5 UY | 5 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 2.2 J Z | 4 | 9 UY | 9.5 UY | 10.5 UY | 3.6 J Z | 9.5 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 5 UY | 4.75 UY | 4.5 UY | 5 UY | 5.5 UY | 5 UY | 5 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 9.5 UY | 9.25 UY | 9 UY | 9.5 UY | 10.5 UY | 9.5 UY | 9.5 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 5 UY | 4.75 UY | 4.5 UY | 5 UY | 5.5 UY | 5 UY | 5 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 5 UY | 4.75 UY | 4.5 UY | 5 UY | 5.5 UY | 5 UY | 5 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 5 UY | 4.75 UY | 4.5 UY | 5 UY | 5.5 UY | 5 UY | 5 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 5 UY | 4.75 UY | 4.5 UY | 5 UY | 5.5 UY | 5 UY | 5 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 9.5 UY | 9.25 UY | 9 UY | 9.5 UY | 10.5 UY | 9.5 UY | 9.5 UY |

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

| | | | | Sample Name | SL-148-NBZ-SS-0.0-0.5 | SL-149-NBZ-SS-0.0-0.5 | SL-150-NBZ-SS-0.0-0.5 | SL-151-NBZ-SS-0.0-0.5 | SL-152-NBZ-SS-0.0-0.5 | SL-154-NBZ-SS-0.0-0.5 | SL-155-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/11/2012 | 04/05/2012 | 04/19/2012 | 04/09/2012 | 04/12/2012 | 04/11/2012 | 04/04/2012 |
| | | | | SDG | 12D106 | 12D048 | 12D176 | 12D084 | 12D122 | 12D106 | 12D031 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 5.25 UY | 4.75 UY | 4.75 UJY C | 4.75 UY | 5 UY | 5.75 UY | 4.5 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 5.25 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY | 5.75 UY | 4.5 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 5.25 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY | 5.75 UY | 4.5 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 5.25 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY | 5.75 UY | 4.5 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 10 UY | 9 UY | 2.6 J Z | 9 UJY E | 2.7 J S, Z | 11 UY | 9 UJY E |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 5.25 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY | 5.75 UY | 4.5 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 10 UY | 9 UY | 9.25 UY | 9 UJY E | 9.75 UY | 11 UY | 9 UJY E |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 5.25 UY | 4.75 UY | 4.75 UJY C | 4.75 UY | 5 UY | 5.75 UY | 4.5 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 5.25 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY | 5.75 UY | 4.5 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 5.25 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY | 5.75 UY | 4.5 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 5.25 UY | 4.75 UY | 4.75 UJY C | 4.75 UY | 5 UY | 5.75 UY | 4.5 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 10 UY | 9 UY | 9.25 UY | 9 UJY E | 9.75 UY | 11 UY | 9 UJY E |

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

Appendix A18
PCBs/PCTs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-156-NBZ-SS-0.0-0.5 | SL-157-NBZ-SS-0.0-0.5 | SL-158-NBZ-SS-0.0-0.5 | SL-159-NBZ-SS-0.0-0.5 | DUP-10-NBZ-QC-041612 | SL-160-NBZ-SS-0.0-0.5 | SL-161-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | FD | N | N |
| | | | Sample Date | 04/17/2012 | 04/09/2012 | 04/12/2012 | 04/16/2012 | 04/16/2012 | 04/16/2012 | 04/17/2012 |
| | | | SDG | 12D154 | 12D084 | 12D122 | 12D146 | 12D166 | 12D146 | 12D154 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 5.25 UY | 4.75 UY | 5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 5.25 UY | 4.75 UY | 5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 5.25 UY | 4.75 UY | 5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 5.25 UY | 4.75 UY | 5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 10 UY | 9 UJY E | 3.8 J S | 3.1 J Z | 9.25 UY | 9.25 UY | 2.6 J Z |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 5.25 UY | 4.75 UY | 5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 10 UY | 9 UJY E | 9.5 UY | 9.5 UY | 9.25 UY | 9.25 UY | 9.25 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 5.25 UY | 4.75 UY | 5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 5.25 UY | 4.75 UY | 5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 5.25 UY | 4.75 UY | 5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 5.25 UY | 4.75 UY | 5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 10 UY | 9 UJY E | 9.5 UY | 9.5 UY | 9.25 UY | 9.25 UY | 9.25 UY |

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

| | | | | Sample Name | SL-162-NBZ-SS-0.0-0.5 | SL-163-NBZ-SS-0.0-0.5 | SL-164-NBZ-SS-0.0-0.5 | SL-165-NBZ-SS-0.0-0.5 | SL-166-NBZ-SS-0.0-0.5 | SL-167-NBZ-SS-0.0-0.5 | SL-168-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/17/2012 | 04/11/2012 | 04/16/2012 | 04/05/2012 | 04/17/2012 | 04/09/2012 | 04/11/2012 |
| | | | | SDG | 12D154 | 12D106 | 12D146 | 12D048 | 12D154 | 12D084 | 12D106 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 4.75 UY | 5 UY | 5 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY | |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 4.75 UY | 5 UY | 5 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY | |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 4.75 UY | 5 UY | 5 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY | |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 4.75 UY | 5 UY | 5 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY | |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 2.9 J Z | 9.75 UY | 9.75 UY | 9.25 UY | 9.5 UY | 8.75 UJY E | 9.25 UY | |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 4.75 UY | 5 UY | 5 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY | |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 9 UY | 9.75 UY | 9.75 UY | 9.25 UY | 9.5 UY | 8.75 UJY E | 9.25 UY | |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 4.75 UY | 5 UY | 5 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY | |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 4.75 UY | 5 UY | 5 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY | |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 4.75 UY | 5 UY | 5 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY | |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 4.75 UY | 5 UY | 5 UY | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY | |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 9 UY | 9.75 UY | 9.75 UY | 9.25 UY | 9.5 UY | 8.75 UJY E | 9.25 UY | |

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

Appendix A18
PCBs/PCTs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-169-NBZ-SS-0.0-0.5 | SL-170-NBZ-SS-0.0-0.5 | SL-171-NBZ-SS-0.0-0.5 | SL-172-NBZ-SS-0.0-0.5 | DUP-08-NBZ-QC-041612 | SL-173-NBZ-SS-0.0-0.5 | SL-174-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | FD | N | N |
| | | | Sample Date | 04/03/2012 | 04/20/2012 | 04/20/2012 | 04/12/2012 | 04/16/2012 | 04/16/2012 | 04/09/2012 |
| | | | SDG | 12D018 | 12D192 | 12D192 | 12D122 | 12D146 | 12D146 | 12D084 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY | 5.25 UY | 4.75 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY | 5.25 UY | 4.75 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY | 5.25 UY | 4.75 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY | 5.25 UY | 4.75 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 9.25 UY | 9 UY | 3.7 | 9.25 UY | 9.75 UY | 10 UY | 9 UJY E |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY | 5.25 UY | 4.75 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 9.25 UY | 9 UY | 9 UY | 9.25 UY | 9.75 UY | 10 UY | 9 UJY E |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY | 5.25 UY | 4.75 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY | 5.25 UY | 4.75 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY | 5.25 UY | 4.75 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY | 5.25 UY | 4.75 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 9.25 UY | 9 UY | 9 UY | 9.25 UY | 9.75 UY | 10 UY | 9 UJY E |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-175-NBZ-SS-0.0-0.5 | SL-176-NBZ-SS-0.0-0.5 | SL-177-NBZ-SS-0.0-0.5 | SL-178-NBZ-SS-0.0-0.5 | SL-179-NBZ-SS-0.0-0.5 | SL-180-NBZ-SS-0.0-0.5 | SL-181-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/05/2012 | 04/11/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 | 04/13/2012 | 04/04/2012 |
| | | | SDG | 12D048 | 12D106 | 12D092 | 12D176 | 12D176 | 12D135 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 5 UY | 5 UY | 4.5 UY | 4.75 UJY C | 4.75 UJY C | 5.25 UY | 4.75 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 5 UY | 5 UY | 4.5 UY | 4.75 UY | 4.75 UY | 5.25 UY | 4.75 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 5 UY | 5 UY | 4.5 UY | 4.75 UY | 4.75 UY | 5.25 UY | 4.75 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 5 UY | 5 UY | 4.5 UY | 4.75 UY | 4.75 UY | 5.25 UY | 4.75 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 9.75 UY | 9.75 UY | 8.75 UY | 4.8 | 9.25 UY | 10.25 UY | 9 UJY E |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 5 UY | 5 UY | 4.5 UY | 4.75 UY | 4.75 UY | 5.25 UY | 4.75 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 9.75 UY | 9.75 UY | 8.75 UY | 9.25 UY | 9.25 UY | 10.25 UY | 9 UJY E |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 5 UY | 5 UY | 4.5 UY | 4.75 UJY C | 4.75 UJY C | 5.25 UY | 4.75 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 5 UY | 5 UY | 4.5 UY | 4.75 UY | 4.75 UY | 5.25 UY | 4.75 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 5 UY | 5 UY | 4.5 UY | 4.75 UY | 4.75 UY | 5.25 UY | 4.75 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 5 UY | 5 UY | 4.5 UY | 4.75 UJY C | 4.75 UJY C | 5.25 UY | 4.75 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 9.75 UY | 9.75 UY | 8.75 UY | 9.25 UY | 9.25 UY | 10.25 UY | 9 UJY E |

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

Appendix A18
PCBs/PCTs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-182-NBZ-SS-0.0-0.5 | SL-183-NBZ-SS-0.0-0.5 | SL-184-NBZ-SS-0.0-0.5 | SL-185-NBZ-SS-0.0-0.5 | SL-186-NBZ-SS-0.0-0.5 | SL-187-NBZ-SS-0.0-0.5 | SL-188-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/11/2012 | 04/13/2012 | 04/19/2012 | 04/09/2012 | 04/10/2012 | 04/04/2012 | 04/10/2012 |
| | | | SDG | 12D106 | 12D135 | 12D176 | 12D084 | 12D092 | 12D031 | 12D092 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 5 UY | 5 UY | 4.75 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 5 UY | 5 UY | 4.75 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 5 UY | 5 UY | 4.75 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 5 UY | 5 UY | 4.75 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 9.75 UY | 10 UY | 9.25 UY | 9.25 UJY E | 9 UY | 9 UJY E | 9 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 5 UY | 5 UY | 4.75 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 9.75 UY | 10 UY | 9.25 UY | 9.25 UJY E | 9 UY | 9 UJY E | 9 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 5 UY | 5 UY | 4.75 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 5 UY | 5 UY | 4.75 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 5 UY | 5 UY | 4.75 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 5 UY | 5 UY | 4.75 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 9.75 UY | 10 UY | 9.25 UY | 9.25 UJY E | 9 UY | 9 UJY E | 9 UY |

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

| | | | | Sample Name | SL-189-NBZ-SS-0.0-0.5 | SL-190-NBZ-SS-0.0-0.5 | DUP-06-NBZ-QC-040912 | SL-191-NBZ-SS-0.0-0.5 | DUP-09-NBZ-QC-041912 | SL-193-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | FD | N | FD | N |
| | | | | Sample Date | 04/18/2012 | 04/05/2012 | 04/09/2012 | 04/09/2012 | 04/19/2012 | 04/19/2012 |
| | | | | SDG | 12D166 | 12D048 | 12D084 | 12D084 | 12D176 | 12D176 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 9.5 UY | 8.75 UY | 9 UJY FD, E | 7.5 J FD, E | 9.25 UY | 9.25 UY | 9.25 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 9.5 UY | 8.75 UY | 9 UJY E | 9 UJY E | 9.25 UY | 9.25 UY | 9.25 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 4.75 UY | 4.5 UY | 4.5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 9.5 UY | 8.75 UY | 9 UJY E | 9 UJY E | 9.25 UY | 9.25 UY | 9.25 UY |

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

Appendix A18
PCBs/PCTs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-194-NBZ-SS-0.0-0.5 | SL-195-NBZ-SS-0.0-0.5 | SL-196-NBZ-SS-0.0-0.5 | SL-197-NBZ-SS-0.0-0.5 | SL-198-NBZ-SS-0.0-0.5 | SL-199-NBZ-SS-0.0-0.5 | SL-200-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/02/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 | 04/03/2012 | 04/23/2012 | 04/23/2012 |
| | | | SDG | 12D004 | 12C261 | 12C261 | 12C305 | 12D018 | 12D197 | 12D197 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 4.75 UY | 4.75 UY | 5.25 UY | 5 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 4.75 UY | 4.75 UY | 5.25 UY | 5 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 4.75 UY | 4.75 UY | 5.25 UY | 5 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 4.75 UY | 4.75 UY | 5.25 UY | 5 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 9.25 UY | 9.25 UY | 10 UY | 9.5 UY | 9 UY | 9 UY | 9 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 4.75 UY | 4.75 UY | 5.25 UY | 5 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 9.25 UY | 9.25 UY | 10 UY | 9.5 UY | 9 UY | 9 UY | 9 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 4.75 UY | 4.75 UY | 5.25 UY | 5 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 4.75 UY | 4.75 UY | 5.25 UY | 5 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 4.75 UY | 4.75 UY | 5.25 UY | 5 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 4.75 UY | 4.75 UY | 5.25 UY | 5 UY | 4.5 UY | 4.5 UY | 4.75 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 9.25 UY | 9.25 UY | 10 UY | 9.5 UY | 9 UY | 9 UY | 9 UY |

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

| | | | | | |
|---|---|---|---|---|---|
| | | | Sample Name | SL-201-NBZ-SS-0.0-0.5 | SL-202-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N |
| | | | Sample Date | 04/23/2012 | 04/20/2012 |
| | | | SDG | 12D197 | 12D192 |
| | | | Start Depth | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | |
| 8082 | 11096-82-5 | Aroclor 1260 | µg/kg | 5 UY | 4.5 UY |
| 8082 | 11097-69-1 | Aroclor 1254 | µg/kg | 5 UY | 4.5 UY |
| 8082 | 11100-14-4 | Aroclor 1268 | µg/kg | 5 UY | 4.5 UY |
| 8082 | 11104-28-2 | Aroclor 1221 | µg/kg | 5 UY | 4.5 UY |
| 8082 | 11126-42-4 | Aroclor 5460 | µg/kg | 17 | 9 UY |
| 8082 | 11141-16-5 | Aroclor 1232 | µg/kg | 5 UY | 4.5 UY |
| 8082 | 12642-23-8 | Aroclor 5442 | µg/kg | 9.75 UY | 9 UY |
| 8082 | 12672-29-6 | Aroclor 1248 | µg/kg | 5 UY | 4.5 UY |
| 8082 | 12674-11-2 | Aroclor 1016 | µg/kg | 5 UY | 4.5 UY |
| 8082 | 37324-23-5 | Aroclor 1262 | µg/kg | 5 UY | 4.5 UY |
| 8082 | 53469-21-9 | Aroclor 1242 | µg/kg | 5 UY | 4.5 UY |
| 8082 | 63496-31-1 | Aroclor 5432 | µg/kg | 9.75 UY | 9 UY |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-001-NBZ-SS-0.0-0.5 | SL-002-NBZ-SS-0.0-0.5 | SL-002-NBZ-SB-4.0-5.0 | SL-002-NBZ-SB-7.5-8.5 | SL-003-NBZ-SS-0.0-0.5 | SL-003-NBZ-SB-4.0-5.0 | SL-004-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/09/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 04/11/2012 |
| | | | SDG | 12D084 | 12C096 | 12C096 | 12C096 | 12C096 | 12C096 | 12D106 |
| | | | Start Depth | 0 | 0 | 4 | 7.5 | 0 | 4 | 0 |
| | | | End Depth | 0.5 | 0.5 | 5 | 8.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 22.6 U | 20.7 U | 21.6 U | 21.6 U | 41.8 U | 21.1 U | 24.5 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | 5.66 U | -- | -- | -- | -- | -- | -- |

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

Appendix A19
Perchlorate-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-005-NBZ-SB-4.0-5.0 | SL-006-NBZ-SB-3.0-4.0 | SL-007-NBZ-SB-4.0-5.0 | SL-007-NBZ-SB-9.0-10.0 | SL-008-NBZ-SB-4.0-5.0 | DUP-07-NBZ-QC-041012 |
| | | | Sample Type | N | N | N | N | N | FD |
| | | | Sample Date | 03/13/2012 | 03/13/2012 | 03/12/2012 | 03/12/2012 | 04/18/2012 | 04/10/2012 |
| | | | SDG | 12C106 | 12C106 | 12C096 | 12C096 | 12D166 | 12D092 |
| | | | Start Depth | 4 | 3 | 4 | 9 | 4 | 0 |
| | | | End Depth | 5 | 4 | 5 | 10 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 22.1 U | 21.3 U | 21.8 U | 21.8 U | 21.1 U | 23.0 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | -- | -- | -- | 5.74 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-009-NBZ-SS-0.0-0.5 | SL-010-NBZ-SB-4.0-5.0 | SL-011-NBZ-SS-0.0-0.5 | SL-012-NBZ-SS-0.0-0.5 | SL-012-NBZ-SB-0.5-1.5 | SL-013-NBZ-SS-0.0-0.5 | SL-014-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/10/2012 | 03/12/2012 | 04/12/2012 | 04/19/2012 | 04/19/2012 | 04/16/2012 | 04/17/2012 |
| | | | SDG | 12D092 | 12C096 | 12D122 | 12D176 | 12D176 | 12D146 | 12D154 |
| | | | Start Depth | 0 | 4 | 0 | 0 | 0.5 | 0 | 0 |
| | | | End Depth | 0.5 | 5 | 0.5 | 0.5 | 1.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 23.1 U | 21.6 U | 22.8 U | 23.3 U | 23.9 U | 29.6 U | 25.1 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | 5.69 U | 5.83 U | -- | -- | -- |

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

Appendix A19
Perchlorate-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-015-NBZ-SS-0.0-0.5 | SL-016-NBZ-SS-0.0-0.5 | SL-017-NBZ-SS-0.0-0.5 | SL-018-NBZ-SS-0.0-0.5 | SL-019-NBZ-SS-0.0-0.5 | SL-019-NBZ-SB-3.0-4.0 | SL-020-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/13/2012 | 04/20/2012 | 04/19/2012 | 04/20/2012 | 03/13/2012 | 03/13/2012 | 04/04/2012 |
| | | | SDG | 12C106 | 12D192 | 12D176 | 12D192 | 12C106 | 12C106 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 4 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 20.3 U | 25.2 U | 28.4 U | 24.3 U | 20.6 U | 21.2 U | 22.1 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | 5.08 U | 6.31 U | -- | 6.07 U | 5.16 U | -- | -- |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-020-NBZ-SB-2.5-3.5 | SL-021-NBZ-SS-0.0-0.5 | SL-021-NBZ-SB-4.0-5.0 | SL-022-NBZ-SS-0.0-0.5 | SL-022-NBZ-SB-4.0-5.0 | SL-022-NBZ-SB-9.0-10.0 | SL-023-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/04/2012 | 03/13/2012 | 03/13/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 |
| | | | SDG | 12D031 | 12C106 | 12C106 | 12C121 | 12C121 | 12C121 | 12C121 |
| | | | Start Depth | 2.5 | 0 | 4 | 0 | 4 | 9 | 0 |
| | | | End Depth | 3.5 | 0.5 | 5 | 0.5 | 5 | 10 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 22.7 U | 20.6 U | 20.8 U | 83.7 U | 20.8 U | 21.0 U | 41.4 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | 5.14 U | -- | -- | 5.20 U | 5.24 U | -- |

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

Appendix A19
Perchlorate-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-023-NBZ-SB-4.0-5.0 | SL-023-NBZ-SB-8.5-9.5 | SL-024-NBZ-SS-0.0-0.5 | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 | SL-028-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 03/14/2012 | 03/14/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 |
| | | | SDG | 12C121 | 12C121 | 12C121 | 12D004 | 12D004 | 12D004 | 12D004 |
| | | | Start Depth | 4 | 8.5 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 5 | 9.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 20.7 U | 21.1 U | 41.3 U | 21.8 U | 21.5 U | 23.3 U | 22.0 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | 5.17 U | 5.27 U | -- | -- | -- | -- | -- |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-029-NBZ-SS-0.0-0.5 | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 | SL-034-NBZ-SS-0.0-0.5 | SL-035-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/15/2012 | 03/14/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 |
| | | | SDG | 12C135 | 12C121 | 12D018 | 12D018 | 12D018 | 12D018 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 41.2 U | 81.7 U | 21.7 U | 22.7 U | 22.0 U | 23.9 U | 22.7 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | -- | -- | -- | -- | -- |

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

Appendix A19
Perchlorate-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-035-NBZ-SB-2.0-3.0 | SL-036-NBZ-SB-4.0-5.0 | SL-036-NBZ-SB-7.5-8.5 | SL-037-NBZ-SB-3.0-4.0 | SL-038-NBZ-SS-0.0-0.5 | SL-039-NBZ-SB-2.0-3.0 | SL-040-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 | 03/28/2012 |
| | | | SDG | 12D018 | 12C285 | 12C285 | 12C285 | 12C273 | 12C273 | 12C285 |
| | | | Start Depth | 2 | 4 | 7.5 | 3 | 0 | 2 | 0 |
| | | | End Depth | 3 | 5 | 8.5 | 4 | 0.5 | 3 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 21.0 U | 22.7 U | 26.2 U | 22.3 U | 24.1 U | 22.8 U | 22.5 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | -- | -- | -- | -- | -- |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | DUP-03-NBZ-QC-032812 | SL-040-NBZ-SB-2.5-3.5 | SL-042-NBZ-SS-0.0-0.5 | SL-043-NBZ-SS-0.0-0.5 | SL-044-NBZ-SS-0.0-0.5 | SL-045-NBZ-SS-0.0-0.5 | SL-045-NBZ-SB-4.0-5.0 |
| | | | Sample Type | FD | N | N | N | N | N | N |
| | | | Sample Date | 03/28/2012 | 03/28/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 | 03/26/2012 | 03/26/2012 |
| | | | SDG | 12C285 | 12C285 | 12C261 | 12C261 | 12C305 | 12C261 | 12C261 |
| | | | Start Depth | 2.5 | 2.5 | 0 | 0 | 0 | 0 | 4 |
| | | | End Depth | 3.5 | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 21.3 U | 20.9 U | 23.3 U | 22.3 U | 32.1 | 21.7 U | 21.0 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | -- | -- | -- | -- | -- |

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

Appendix A19
Perchlorate-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-046-NBZ-SS-0.0-0.5 | SL-046-NBZ-SB-4.0-5.0 | SL-047-NBZ-SB-4.0-5.0 | SL-048-NBZ-SS-0.0-0.5 | SL-048-NBZ-SB-4.0-5.0 | SL-049-NBZ-SB-2.0-3.0 | SL-050-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/26/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/26/2012 |
| | | | SDG | 12C261 | 12C261 | 12C254 | 12C254 | 12C254 | 12C254 | 12C261 |
| | | | Start Depth | 0 | 4 | 4 | 0 | 4 | 2 | 0 |
| | | | End Depth | 0.5 | 5 | 5 | 0.5 | 5 | 3 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 23.5 U | 21.1 U | 20.9 U | 113 U | 20.9 U | 20.7 U | 21.8 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | -- | -- | -- | -- | -- |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-051-NBZ-SB-1.5-2.5 | SL-052-NBZ-SS-0.0-0.5 | SL-053-NBZ-SS-0.0-0.5 | SL-053-NBZ-SB-3.5-4.5 | SL-054-NBZ-SS-0.0-0.5 | SL-055-NBZ-SS-0.0-0.5 | SL-056-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/23/2012 | 03/15/2012 | 03/15/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/15/2012 |
| | | | SDG | 12C254 | 12C135 | 12C135 | 12C135 | 12C229 | 12C229 | 12C135 |
| | | | Start Depth | 1.5 | 0 | 0 | 3.5 | 0 | 0 | 0 |
| | | | End Depth | 2.5 | 0.5 | 0.5 | 4.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 20.7 U | 40.9 U | 81.5 U | 20.8 U | 21.7 U | 22.1 U | 82.2 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | -- | -- | -- | -- | -- |

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

Appendix A19
Perchlorate-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-056-NBZ-SB-3.0-4.0 | DUP-02-NBZ-QC-032312 | SL-057-NBZ-SS-0.0-0.5 | SL-058-NBZ-SB-4.0-5.0 | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 | SL-061-NBZ-SB-1.0-2.0 |
| | | | Sample Type | N | FD | N | N | N | N | N |
| | | | Sample Date | 03/15/2012 | 03/23/2012 | 03/23/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/22/2012 |
| | | | SDG | 12C135 | 12C254 | 12C254 | 12C135 | 12C229 | 12C229 | 12C229 |
| | | | Start Depth | 3 | 0 | 0 | 5 | 0 | 0 | 1 |
| | | | End Depth | 4 | 0.5 | 0.5 | 5 | 0.5 | 0.5 | 2 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 20.9 U | 21.4 U | 21.6 U | 21.1 U | 21.8 U | 21.2 U | 21.0 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | -- | -- | -- | -- | -- |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-062-NBZ-SB-2.5-3.5 | SL-063-NBZ-SB-0.5-1.5 | SL-064-NBZ-SB-0.5-1.5 | SL-065-NBZ-SB-1.0-2.0 | SL-066-NBZ-SB-2.0-3.0 | SL-067-NBZ-SB-1.5-2.5 | DUP-01-NBZ-QC-031612 |
| | | | Sample Type | N | N | N | N | N | N | FD |
| | | | Sample Date | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/16/2012 | 03/16/2012 |
| | | | SDG | 12C209 | 12C209 | 12C209 | 12C209 | 12C209 | 12C156 | 12C156 |
| | | | Start Depth | 2.5 | 0.5 | 0.5 | 1 | 2 | 1.5 | 2.5 |
| | | | End Depth | 3.5 | 1.5 | 1.5 | 2 | 3 | 2.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 20.7 U | 22.8 U | 21.0 U | 21.7 U | 20.6 U | 21.7 U | 22.1 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | -- | -- | -- | -- | -- |

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

Appendix A19
Perchlorate-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-068-NBZ-SB-2.5-3.5 | SL-069-NBZ-SB-3.0-4.0 | SL-070-NBZ-SS-0.0-0.5 | SL-071-NBZ-SB-4.0-5.0 | SL-072-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-9.0-10.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/16/2012 | 03/20/2012 | 03/20/2012 | 03/19/2012 | 03/16/2012 | 03/19/2012 | 03/19/2012 |
| | | | SDG | 12C156 | 12C182 | 12C182 | 12C164 | 12C156 | 12C164 | 12C164 |
| | | | Start Depth | 2.5 | 3 | 0 | 4 | 4 | 4 | 9 |
| | | | End Depth | 3.5 | 4 | 0.5 | 5 | 5 | 5 | 10 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 22.0 U | 21.0 U | 22.8 U | 20.9 U | 22.4 U | 21.6 U | 22.0 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | 5.71 U | -- | -- | -- | -- |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-074-NBZ-SB-0.5-1.5 | SL-075-NBZ-SS-0.0-0.5 | SL-076-NBZ-SS-0.0-0.5 | SL-077-NBZ-SS-0.0-0.5 | SL-077-NBZ-SB-2.5-3.5 | SL-078-NBZ-SS-0.0-0.5 | SL-079-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/19/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/27/2012 | 03/30/2012 |
| | | | SDG | 12C164 | 12C182 | 12C182 | 12C182 | 12C182 | 12C273 | 12C321 |
| | | | Start Depth | 0.5 | 0 | 0 | 0 | 2.5 | 0 | 0 |
| | | | End Depth | 1.5 | 0.5 | 0.5 | 0.5 | 3.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 20.8 U | 21.9 U | 22.9 U | 23.3 U | 21.3 U | 22.6 U | 23.2 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | 5.48 U | -- | 5.81 U | 5.32 U | -- | -- |

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

Appendix A19
Perchlorate-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-080-NBZ-SS-0.0-0.5 | SL-081-NBZ-SS-0.0-0.5 | SL-082-NBZ-SS-0.0-0.5 | SL-082-NBZ-SB-2.5-3.5 | SL-083-NBZ-SS-0.0-0.5 | SL-084-NBZ-SS-0.0-0.5 | SL-085-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/20/2012 | 04/18/2012 | 04/18/2012 | 04/18/2012 | 04/18/2012 | 04/10/2012 | 04/10/2012 |
| | | | SDG | 12D192 | 12D166 | 12D166 | 12D166 | 12D166 | 12D092 | 12D092 |
| | | | Start Depth | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 3.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 23.3 U | 119 U | 22.9 U | 22.8 U | 22.9 U | 23.4 U | 23.6 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | 5.81 U | -- | -- | -- | -- | -- | -- |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-086-NBZ-SS-0.0-0.5 | SL-087-NBZ-SS-0.0-0.5 | SL-088-NBZ-SS-0.0-0.5 | SL-089-NBZ-SS-0.0-0.5 | SL-090-NBZ-SS-0.0-0.5 | SL-091-NBZ-SS-0.0-0.5 | SL-091-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/19/2012 | 04/19/2012 | 04/17/2012 | 04/20/2012 | 04/17/2012 | 03/29/2012 | 03/29/2012 |
| | | | SDG | 12D176 | 12D176 | 12D154 | 12D192 | 12D154 | 12C305 | 12C305 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 25.8 U | 25.3 U | 26.2 U | 22.6 U | 23.2 U | 24.3 U | 24.6 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | -- | 5.66 U | -- | -- | -- |

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

Appendix A19
Perchlorate-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | DUP-05-NBZ-QC-032912 | SL-092-NBZ-SS-0.0-0.5 | SL-094-NBZ-SS-0.0-0.5 | SL-095-NBZ-SS-0.0-0.5 | SL-096-NBZ-SS-0.0-0.5 | SL-097-NBZ-SS-0.0-0.5 | SL-099-NBZ-SS-0.0-0.5 |
| | | | Sample Type | FD | N | N | N | N | N | N |
| | | | Sample Date | 03/29/2012 | 03/29/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 | 04/04/2012 | 04/04/2012 |
| | | | SDG | 12C305 | 12C305 | 12C285 | 12C273 | 12C285 | 12D031 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 23.8 U | 23.4 U | 23.0 U | 22.7 U | 23.2 U | 21.4 U | 21.8 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | -- | 5.68 U | -- | -- | -- |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-100-NBZ-SS-0.0-0.5 | SL-101-NBZ-SS-0.0-0.5 | SL-102-NBZ-SS-0.0-0.5 | SL-103-NBZ-SS-0.0-0.5 | SL-104-NBZ-SS-0.0-0.5 | SL-105-NBZ-SS-0.0-0.5 | SL-107-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/04/2012 | 03/29/2012 | 03/27/2012 | 03/29/2012 | 04/04/2012 | 03/21/2012 | 04/02/2012 |
| | | | SDG | 12D031 | 12C305 | 12C273 | 12C305 | 12D031 | 12C209 | 12D004 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 21.7 U | 22.9 U | 23.2 U | 22.9 U | 21.5 U | 22.2 U | 22.7 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | 5.80 U | -- | 5.38 U | -- | -- |

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

Appendix A19
Perchlorate-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-108-NBZ-SS-0.0-0.5 | SL-109-NBZ-SS-0.0-0.5 | SL-110-NBZ-SS-0.0-0.5 | SL-111-NBZ-SS-0.0-0.5 | SL-112-NBZ-SS-0.0-0.5 | SL-113-NBZ-SS-0.0-0.5 | SL-114-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 03/27/2012 | 04/04/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/04/2012 |
| | | | SDG | 12D018 | 12C273 | 12D031 | 12D004 | 12D004 | 12D004 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 21.2 U | 22.9 U | 21.6 U | 25.2 U | 22.1 U | 21.9 U | 21.8 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | 5.73 U | -- | 6.31 U | -- | -- | -- |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-115-NBZ-SS-0.0-0.5 | SL-116-NBZ-SS-0.0-0.5 | DUP-04-NBZ-QC-032912 | SL-118-NBZ-SS-0.0-0.5 | SL-119-NBZ-SS-0.0-0.5 | SL-120-NBZ-SS-0.0-0.5 | SL-121-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | FD | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 03/22/2012 | 03/29/2012 | 03/29/2012 | 03/27/2012 | 04/04/2012 | 03/30/2012 |
| | | | SDG | 12D018 | 12C229 | 12C305 | 12C305 | 12C273 | 12D031 | 12C321 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 22.8 U | 22.4 U | 21.9 U | 22.0 U | 22.5 U | 21.6 U | 21.7 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | -- | -- | 5.62 U | -- | -- |

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

Appendix A19
Perchlorate-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-122-NBZ-SS-0.0-0.5 | SL-123-NBZ-SS-0.0-0.5 | SL-124-NBZ-SS-0.0-0.5 | SL-126-NBZ-SS-0.0-0.5 | SL-127-NBZ-SS-0.0-0.5 | SL-129-NBZ-SS-0.0-0.5 | SL-130-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 | 04/03/2012 | 03/27/2012 | 03/27/2012 |
| | | | SDG | 12D018 | 12C261 | 12C261 | 12C261 | 12D018 | 12C273 | 12C273 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 22.8 U | 23.6 U | 26.9 U | 24.0 U | 21.2 U | 25.0 U | 23.8 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | -- | -- | -- | 6.25 U | 5.96 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-131-NBZ-SS-0.0-0.5 | SL-133-NBZ-SS-0.0-0.5 | SL-134-NBZ-SS-0.0-0.5 | SL-135-NBZ-SS-0.0-0.5 | SL-136-NBZ-SS-0.0-0.5 | SL-138-NBZ-SS-0.0-0.5 | SL-139-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/29/2012 | 03/26/2012 | 03/30/2012 | 03/28/2012 | 03/28/2012 | 04/02/2012 | 03/28/2012 |
| | | | SDG | 12C305 | 12C261 | 12C321 | 12C285 | 12C285 | 12D004 | 12C285 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 21.6 U | 23.1 U | 21.9 U | 22.9 U | 22.1 U | 22.6 U | 47.8 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | -- | -- | -- | 5.64 U | -- |

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

Appendix A19
Perchlorate-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-140-NBZ-SS-0.0-0.5 | SL-141-NBZ-SS-0.0-0.5 | SL-143-NBZ-SS-0.0-0.5 | SL-144-NBZ-SS-0.0-0.5 | SL-145-NBZ-SS-0.0-0.5 | SL-146-NBZ-SS-0.0-0.5 | SL-147-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 03/28/2012 | 03/28/2012 | 04/12/2012 | 04/11/2012 | 04/18/2012 | 04/17/2012 |
| | | | SDG | 12D018 | 12C285 | 12C285 | 12D122 | 12D106 | 12D166 | 12D154 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 23.2 U | 22.4 U | 21.7 U | 23.0 U | 25.4 U | 23.0 U | 23.1 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | -- | 5.76 U | -- | -- | -- |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-148-NBZ-SS-0.0-0.5 | SL-149-NBZ-SS-0.0-0.5 | SL-150-NBZ-SS-0.0-0.5 | SL-151-NBZ-SS-0.0-0.5 | SL-152-NBZ-SS-0.0-0.5 | SL-154-NBZ-SS-0.0-0.5 | SL-155-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/11/2012 | 04/05/2012 | 04/19/2012 | 04/09/2012 | 04/12/2012 | 04/11/2012 | 04/04/2012 |
| | | | SDG | 12D106 | 12D048 | 12D176 | 12D084 | 12D122 | 12D106 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 24.4 U | 21.9 U | 22.5 U | 22.1 U | 23.8 U | 26.7 U | 21.8 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | 5.48 U | -- | -- | 5.94 U | -- | 5.44 U |

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

Appendix A19
Perchlorate-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-156-NBZ-SS-0.0-0.5 | SL-157-NBZ-SS-0.0-0.5 | SL-158-NBZ-SS-0.0-0.5 | SL-159-NBZ-SS-0.0-0.5 | DUP-10-NBZ-QC-041612 | SL-160-NBZ-SS-0.0-0.5 | SL-161-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | FD | N | N |
| | | | Sample Date | 04/17/2012 | 04/09/2012 | 04/12/2012 | 04/16/2012 | 04/16/2012 | 04/16/2012 | 04/17/2012 |
| | | | SDG | 12D154 | 12D084 | 12D122 | 12D146 | 12D166 | 12D146 | 12D154 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 24.2 U | 22.0 U | 23.0 U | 22.9 U | 22.4 U | 22.3 U | 22.4 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | 5.76 U | -- | -- | -- | -- |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-162-NBZ-SS-0.0-0.5 | SL-163-NBZ-SS-0.0-0.5 | SL-164-NBZ-SS-0.0-0.5 | SL-165-NBZ-SS-0.0-0.5 | SL-166-NBZ-SS-0.0-0.5 | SL-167-NBZ-SS-0.0-0.5 | SL-168-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/17/2012 | 04/11/2012 | 04/16/2012 | 04/05/2012 | 04/17/2012 | 04/09/2012 | 04/11/2012 |
| | | | SDG | 12D154 | 12D106 | 12D146 | 12D048 | 12D154 | 12D084 | 12D106 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 22.0 U | 23.6 U | 23.9 U | 22.1 U | 23.2 U | 21.4 U | 22.4 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | -- | 5.54 U | -- | -- | -- |

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

Appendix A19
Perchlorate-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-169-NBZ-SS-0.0-0.5 | SL-170-NBZ-SS-0.0-0.5 | SL-171-NBZ-SS-0.0-0.5 | SL-172-NBZ-SS-0.0-0.5 | DUP-08-NBZ-QC-041612 | SL-173-NBZ-SS-0.0-0.5 | SL-174-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | FD | N | N |
| | | | Sample Date | 04/03/2012 | 04/20/2012 | 04/20/2012 | 04/12/2012 | 04/16/2012 | 04/16/2012 | 04/09/2012 |
| | | | SDG | 12D018 | 12D192 | 12D192 | 12D122 | 12D146 | 12D146 | 12D084 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 22.1 U | 21.9 U | 21.8 U | 22.4 U | 23.8 U | 24.2 U | 21.8 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | 5.48 U | 5.45 U | 5.61 U | -- | -- | -- |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-175-NBZ-SS-0.0-0.5 | SL-176-NBZ-SS-0.0-0.5 | SL-177-NBZ-SS-0.0-0.5 | SL-178-NBZ-SS-0.0-0.5 | SL-179-NBZ-SS-0.0-0.5 | SL-180-NBZ-SS-0.0-0.5 | SL-181-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/05/2012 | 04/11/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 | 04/13/2012 | 04/04/2012 |
| | | | SDG | 12D048 | 12D106 | 12D092 | 12D176 | 12D176 | 12D135 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 23.4 U | 23.4 U | 21.2 U | 22.4 U | 22.5 U | 24.9 U | 21.9 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | 5.86 U | -- | -- | -- | -- | -- | -- |

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

Appendix A19
Perchlorate-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-182-NBZ-SS-0.0-0.5 | SL-183-NBZ-SS-0.0-0.5 | SL-184-NBZ-SS-0.0-0.5 | SL-185-NBZ-SS-0.0-0.5 | SL-186-NBZ-SS-0.0-0.5 | SL-187-NBZ-SS-0.0-0.5 | SL-188-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/11/2012 | 04/13/2012 | 04/19/2012 | 04/09/2012 | 04/10/2012 | 04/04/2012 | 04/10/2012 |
| | | | SDG | 12D106 | 12D135 | 12D176 | 12D084 | 12D092 | 12D031 | 12D092 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 23.3 U | 24.0 U | 22.7 U | 22.3 U | 21.6 U | 21.8 U | 21.5 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | -- | -- | -- | -- | -- |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-189-NBZ-SS-0.0-0.5 | SL-190-NBZ-SS-0.0-0.5 | DUP-06-NBZ-QC-040912 | SL-191-NBZ-SS-0.0-0.5 | DUP-09-NBZ-QC-041912 | SL-193-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | FD | N | FD | N |
| | | | Sample Date | 04/18/2012 | 04/05/2012 | 04/09/2012 | 04/09/2012 | 04/19/2012 | 04/19/2012 |
| | | | SDG | 12D166 | 12D048 | 12D084 | 12D084 | 12D176 | 12D176 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 22.9 U | 21.1 U | 21.6 U | 21.9 U | 22.3 U | 22.5 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | 5.27 U | -- | -- | -- | -- |

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

Appendix A19
Perchlorate-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-194-NBZ-SS-0.0-0.5 | SL-195-NBZ-SS-0.0-0.5 | SL-196-NBZ-SS-0.0-0.5 | SL-197-NBZ-SS-0.0-0.5 | SL-198-NBZ-SS-0.0-0.5 | SL-199-NBZ-SS-0.0-0.5 | SL-200-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/02/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 | 04/03/2012 | 04/23/2012 | 04/23/2012 |
| | | | SDG | 12D004 | 12C261 | 12C261 | 12C305 | 12D018 | 12D197 | 12D197 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 22.5 U | 22.7 U | 24.3 U | 23.2 U | 21.6 U | 21.7 U | 21.9 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | -- | -- | -- | -- | -- | -- |

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

| | | | | | |
|---|---|---|---|---|---|
| | | | Sample Name | SL-201-NBZ-SS-0.0-0.5 | SL-202-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N |
| | | | Sample Date | 04/23/2012 | 04/20/2012 |
| | | | SDG | 12D197 | 12D192 |
| | | | Start Depth | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | |
| 314 | 14797-73-0 | Perchlorate | µg/kg | 23.6 U | 21.5 U |
| 6850 | 14797-73-0 | Perchlorate | µg/kg | -- | 5.38 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-001-NBZ-SS-0.0-0.5 | SL-002-NBZ-SS-0.0-0.5 | SL-003-NBZ-SS-0.0-0.5 | SL-004-NBZ-SS-0.0-0.5 | DUP-07-NBZ-QC-041012 | SL-009-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | FD | N |
| | | | Sample Date | 04/09/2012 | 03/12/2012 | 03/12/2012 | 04/11/2012 | 04/10/2012 | 04/10/2012 |
| | | | SDG | 12D084 | 12C096 | 12C096 | 12D106 | 12D092 | 12D092 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.475 UY | 0.45 UY | 0.45 UY | 0.525 UY | 0.66 J FD | 0.5 UJY FD |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.95 UY | 0.875 UY | 0.9 UY | 1.05 UY | 0.975 UY | 0.975 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9.5 UY | 8.75 UY | 9 UY | 10.5 UY | 9.75 UY | 9.75 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.95 UY | 0.875 UY | 0.9 UY | 1.05 UY | 0.975 UY | 0.975 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.475 UY | 0.45 UY | 0.45 UY | 0.525 UY | 0.5 UY | 0.5 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.475 UY | 0.45 UY | 0.45 UY | 0.525 UY | 0.5 UY | 0.5 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.475 UY | 0.45 UY | 0.45 UY | 0.525 UY | 0.5 UY | 0.5 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.475 UY | 0.45 UY | 0.45 UY | 0.525 UY | 0.5 UY | 0.5 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.95 UY | 0.875 UY | 0.9 UY | 1.05 UY | 0.975 UY | 0.975 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 0.95 UY | 0.875 UY | 0.9 UY | 0.36 J Z | 0.975 UY | 0.975 UY |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.95 UY | 0.875 UY | 0.9 UY | 1.05 UY | 0.975 UY | 0.975 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.475 UY | 0.45 UY | 0.45 UY | 0.525 UY | 0.5 UY | 0.5 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.95 UY | 0.875 UY | 0.9 UY | 1.05 UY | 0.975 UY | 0.975 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.95 UY | 0.875 UY | 0.9 UY | 1.05 UY | 0.975 UY | 0.975 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 4.75 UY | 4.5 UY | 4.5 UY | 5.25 UY | 5 UY | 5 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.56 | 0.875 UY | 0.9 UY | 1.05 UY | 0.975 UY | 0.975 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 0.56 | 0.52 | 0.9 UY | 0.37 J Z | 2 | 1.5 |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.95 UY | 0.875 UY | 0.9 UY | 1.05 UY | 1.3 J FD | 0.975 UJY FD |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.475 UY | 0.44 | 0.34 | 0.525 UY | 0.5 UY | 0.5 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 18.75 UY | 17 UY | 17.25 UY | 20.25 UY | 19 UY | 19 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.475 UY | 0.45 UY | 0.45 UY | 0.525 UY | 0.5 UY | 0.5 UY |

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

Appendix A20
Pesticides-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-011-NBZ-SS-0.0-0.5 | SL-012-NBZ-SS-0.0-0.5 | SL-013-NBZ-SS-0.0-0.5 | SL-014-NBZ-SS-0.0-0.5 | SL-015-NBZ-SS-0.0-0.5 | SL-016-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 04/12/2012 | 04/19/2012 | 04/16/2012 | 04/17/2012 | 03/13/2012 | 04/20/2012 |
| | | | | SDG | 12D122 | 12D176 | 12D146 | 12D154 | 12C106 | 12D192 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.475 UY | 0.5 UY | 0.625 UY | 0.525 UY | 0.425 UY | 0.525 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.975 UY | 1 UY | 1.25 UY | 1.075 UY | 0.875 UY | 1.075 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9.75 UY | 10 UY | 12.5 UY | 10.75 UY | 8.75 UY | 10.75 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.975 UY | 1 UY | 1.25 UY | 1.075 UY | 0.875 UY | 1.075 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.475 UY | 0.5 UY | 0.625 UY | 0.525 UY | 0.425 UY | 0.525 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.475 UY | 0.5 UY | 0.625 UY | 0.525 UY | 0.425 UY | 0.525 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.475 UY | 0.5 UY | 0.625 UY | 0.525 UY | 0.425 UY | 0.525 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.475 UY | 0.5 UY | 0.625 UY | 0.525 UY | 0.425 UY | 0.525 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.975 UY | 1 UY | 1.25 UY | 1.075 UY | 0.875 UY | 1.075 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 0.36 J Z | 0.27 J Z | 2.4 | 5.1 | 0.875 UY | 2.2 |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.975 UY | 1 UY | 1.25 UY | 1.075 UY | 0.875 UY | 1.075 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.475 UY | 0.5 UY | 0.625 UY | 0.525 UY | 0.425 UY | 0.525 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.975 UY | 1 UY | 1.25 UY | 1.075 UY | 0.875 UY | 1.075 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.975 UY | 1 UY | 1.25 UY | 1.075 UY | 0.875 UY | 1.075 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 4.75 UY | 5 UY | 6.25 UY | 5.25 UY | 4.25 UY | 5.25 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.975 UY | 1 UY | 1.25 UY | 1.075 UY | 0.875 UY | 1.075 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 0.34 J Z | 0.31 J Z | 1.8 | 1.075 UY | 0.875 UY | 1.9 |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.975 UY | 1 UY | 1.25 UY | 1.075 UY | 0.875 UY | 1.075 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.475 UY | 0.5 UY | 0.625 UY | 0.525 UY | 0.425 UY | 0.525 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 18.75 UY | 19.25 UY | 24.5 UY | 20.75 UY | 16.75 UY | 20.75 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.475 UY | 0.5 UY | 0.625 UY | 0.525 UY | 0.425 UY | 0.525 UY |

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

| | | | | Sample Name | SL-017-NBZ-SS-0.0-0.5 | SL-018-NBZ-SS-0.0-0.5 | SL-019-NBZ-SS-0.0-0.5 | SL-020-NBZ-SS-0.0-0.5 | SL-020-NBZ-SB-2.5-3.5 | SL-021-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 04/19/2012 | 04/20/2012 | 03/13/2012 | 04/04/2012 | 04/04/2012 | 03/13/2012 |
| | | | | SDG | 12D176 | 12D192 | 12C106 | 12D031 | 12D031 | 12C106 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 2.5 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 3.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.6 UY | 0.525 UY | 0.45 UY | 0.475 UY | 0.475 UY | 0.425 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 1.2 UY | 1.025 UY | 0.28 J Z | 0.95 UY | 0.975 UY | 0.875 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 12 UY | 10.25 UY | 8.75 UY | 9.5 UJY C | 9.75 UJY C | 8.75 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 1.2 UY | 1.025 UY | 0.875 UY | 0.95 UY | 0.975 UY | 0.875 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.6 UY | 0.525 UY | 0.45 UY | 0.475 UY | 0.475 UY | 0.425 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.6 UY | 0.525 UY | 0.45 UY | 0.475 UY | 0.475 UY | 0.425 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.6 UY | 0.525 UY | 0.45 UY | 0.475 UY | 0.475 UY | 0.425 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.6 UY | 0.525 UY | 0.45 UY | 0.475 UY | 0.475 UY | 0.425 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 1.2 UY | 1.025 UY | 0.875 UY | 0.95 UY | 0.975 UY | 0.875 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 4.4 | 2.4 | 5.1 | 0.62 | 0.975 UY | 0.875 UY |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 1.2 UY | 1.025 UY | 0.875 UY | 0.95 UY | 0.975 UY | 0.875 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.6 UY | 0.525 UY | 0.45 UY | 0.475 UY | 0.475 UY | 0.425 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 1.2 UY | 1.025 UY | 0.875 UY | 0.95 UY | 0.975 UY | 0.875 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 1.2 UY | 1.025 UY | 0.875 UY | 0.95 UY | 0.975 UY | 0.875 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 6 UJY C | 5.25 UY | 4.5 UY | 4.75 UY | 4.75 UY | 4.25 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 1.2 UY | 1.025 UY | 0.875 UY | 0.95 UY | 0.975 UY | 0.875 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 4.3 | 1.3 | 1.3 | 0.24 J Z, *# | 0.975 UY | 0.875 UY |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 1.2 UY | 1.025 UY | 0.875 UY | 0.95 UY | 0.975 UY | 0.875 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.6 UY | 0.525 UY | 0.45 UY | 0.51 | 0.475 UY | 0.425 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 23.5 UY | 20 UY | 17 UY | 18.25 UY | 18.75 UY | 17 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.6 UY | 0.525 UY | 0.45 UY | 0.475 UY | 0.475 UY | 0.425 UY |

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

Appendix A20
Pesticides-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-022-NBZ-SS-0.0-0.5 | SL-023-NBZ-SS-0.0-0.5 | SL-024-NBZ-SS-0.0-0.5 | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/14/2012 | 03/14/2012 | 03/14/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 |
| | | | | SDG | 12C121 | 12C121 | 12C121 | 12D004 | 12D004 | 12D004 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.45 UY | 0.45 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.5 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.9 UY | 0.875 UY | 0.875 UY | 0.925 UY | 0.925 UY | 1 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9 UY | 8.75 UY | 8.75 UY | 9.25 UY | 9.25 UY | 10 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.66 | 4.2 | 0.875 UY | 0.925 UY | 0.925 UY | 1 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.45 UY | 0.45 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.5 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.45 UY | 0.45 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.5 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.45 UY | 0.45 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.5 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.45 UY | 0.45 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.5 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.9 UY | 0.33 J Z | 0.875 UY | 0.925 UY | 0.925 UY | 1 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 3.5 UY | 2.3 | 0.875 UY | 0.925 UY | 0.925 UY | 1 UY |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 2.4 | 3.5 UY | 0.875 UY | 0.925 UY | 0.925 UY | 1 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.45 UY | 0.45 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.5 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.6 | 0.875 UY | 0.875 UY | 0.925 UY | 0.925 UY | 1 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.9 UY | 0.875 UY | 0.875 UY | 0.925 UY | 0.925 UY | 1 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 17.75 UY | 17.5 UY | 4.5 UY | 3.7 | 4.5 UY | 5 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.9 UY | 0.875 UY | 0.875 UY | 0.925 UY | 0.925 UY | 0.87 |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 0.83 | 0.875 UY | 0.875 UY | 0.33 J Z | 0.925 UY | 0.29 J Z |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.9 UY | 0.875 UY | 0.875 UY | 0.925 UY | 0.925 UY | 1 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.45 UY | 0.45 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.5 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 17.25 UY | 17 UY | 17 UY | 18 UY | 17.75 UY | 19.25 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.16 J Z | 0.18 | 0.45 UY | 0.475 UY | 0.45 UY | 0.5 UY |

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

| | | | | Sample Name | SL-028-NBZ-SS-0.0-0.5 | SL-029-NBZ-SS-0.0-0.5 | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 04/02/2012 | 03/15/2012 | 03/14/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 |
| | | | | SDG | 12D004 | 12C135 | 12C121 | 12D018 | 12D018 | 12D018 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.475 UY | 2.7 | 0.425 UY | 0.45 UY | 0.475 UY | 0.475 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 3.9 | 0.51 | 0.875 UY | 0.925 UY | 0.975 UY | 0.925 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9.25 UY | 8.75 UY | 8.75 UY | 9.25 UY | 9.75 UY | 9.25 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.925 UY | 0.99 | 0.26 J Z | 0.925 UY | 0.975 UY | 0.925 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.475 UY | 0.45 UY | 0.425 UY | 0.45 UY | 0.475 UY | 0.475 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.475 UY | 0.45 UY | 0.425 UY | 0.45 UY | 0.475 UY | 0.475 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.475 UY | 0.45 UY | 0.425 UY | 0.45 UY | 0.475 UY | 0.475 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.475 UY | 0.45 UY | 0.425 UY | 0.45 UY | 0.475 UY | 0.475 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.925 UY | 0.875 UY | 0.875 UY | 0.925 UY | 0.975 UY | 0.925 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 0.925 UY | 0.875 UY | 1.725 UY | 0.92 | 1.2 | 0.6 |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.925 UY | 0.875 UY | 1.725 UY | 0.925 UY | 0.975 UY | 0.925 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.475 UY | 0.45 UY | 0.425 UY | 0.45 UY | 0.475 UY | 0.475 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.925 UY | 2.2 | 0.875 UY | 0.925 UY | 0.975 UY | 0.925 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.925 UY | 0.875 UY | 0.875 UY | 0.925 UY | 0.975 UY | 0.925 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 4.75 UY | 4.5 UY | 8.75 UY | 4.5 UY | 4.75 UY | 4.75 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.925 UY | 0.875 UY | 0.875 UY | 0.925 UY | 0.975 UY | 0.925 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 0.925 UY | 0.875 UY | 0.875 UY | 0.75 | 1.5 | 0.73 |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.925 UY | 0.875 UY | 0.875 UY | 0.925 UY | 0.975 UY | 0.925 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.475 UY | 0.45 UY | 0.425 UY | 0.45 UY | 0.475 UY | 0.475 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 18.25 UY | 17 UY | 16.75 UY | 18 UY | 18.75 UY | 18 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.475 UY | 0.45 UY | 0.425 UY | 0.45 UY | 0.475 UY | 0.475 UY |

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

Appendix A20
Pesticides-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-034-NBZ-SS-0.0-0.5 | SL-035-NBZ-SS-0.0-0.5 | SL-038-NBZ-SS-0.0-0.5 | SL-040-NBZ-SS-0.0-0.5 | SL-042-NBZ-SS-0.0-0.5 | SL-043-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 04/03/2012 | 04/03/2012 | 03/27/2012 | 03/28/2012 | 03/26/2012 | 03/26/2012 |
| | | | | SDG | 12D018 | 12D018 | 12C273 | 12C285 | 12C261 | 12C261 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.5 UY | 0.475 UY | 52.5 UY | 9.5 UY | 5 UY | 0.475 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 1.025 UY | 0.975 UY | 102.5 UY | 19 UY | 10 UY | 0.95 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 10.25 UY | 9.75 UY | 1025 UY | 190 UY | 100 UY | 9.5 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 1.025 UY | 0.975 UY | 102.5 UY | 19 UY | 10 UY | 0.95 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.5 UY | 0.475 UY | 52.5 UY | 9.5 UY | 5 UY | 0.475 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.5 UY | 0.475 UY | 52.5 UY | 9.5 UY | 5 UY | 0.475 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.5 UY | 0.475 UY | 1900 UY | 950 UY | 5 UY | 0.475 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.5 UY | 0.475 UY | 52.5 UY | 9.5 UY | 5 UY | 0.475 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 1.025 UY | 0.975 UY | 102.5 UY | 19 UY | 10 UY | 0.95 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 1.3 | 0.92 | 102.5 UY | 19 UY | 3.3 J Z | 3.5 J S |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 1.025 UY | 0.975 UY | 102.5 UY | 19 UY | 10 UY | 0.95 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.5 UY | 0.475 UY | 52.5 UY | 9.5 UY | 5 UY | 0.475 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 1.025 UY | 1.1 | 102.5 UY | 19 UY | 10 UY | 0.95 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 1.025 UY | 0.975 UY | 102.5 UY | 19 UY | 10 UY | 0.95 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 5 UY | 4.75 UY | 525 UY | 95 UY | 50 UY | 4.75 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.69 | 0.43 | 102.5 UY | 19 UY | 10 UY | 0.95 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 1.3 | 0.74 | 102.5 UY | 19 UY | 10 UY | 1.7 J S |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 1.025 UY | 0.975 UY | 102.5 UY | 19 UY | 10 UY | 0.95 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.5 UY | 0.475 UY | 52.5 UY | 9.5 UY | 5 UY | 0.475 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 19.75 UY | 18.75 UY | 2000 UY | 375 UY | 192.5 UY | 18.5 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.5 UY | 0.475 UY | 52.5 UY | 9.5 UY | 5 UY | 0.475 UY |

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

| | | | | Sample Name | SL-044-NBZ-SS-0.0-0.5 | SL-045-NBZ-SS-0.0-0.5 | SL-046-NBZ-SS-0.0-0.5 | SL-048-NBZ-SS-0.0-0.5 | SL-050-NBZ-SS-0.0-0.5 | SL-052-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/29/2012 | 03/26/2012 | 03/26/2012 | 03/23/2012 | 03/26/2012 | 03/15/2012 |
| | | | | SDG | 12C305 | 12C261 | 12C261 | 12C254 | 12C261 | 12C135 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | | 8.75 UY | 4.5 UY | 1.5 | 0.475 UJY C | 4.75 UY | 0.425 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | | 17.5 UY | 9.25 UY | 5 UY | 10 J *# | 9.25 UY | 0.875 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | | 175 UY | 92.5 UY | 50 UY | 9.75 UY | 92.5 UY | 8.75 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | | 17.5 UY | 9.25 UY | 5 UY | 0.975 UY | 9.25 UY | 0.875 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | | 8.75 UY | 4.5 UY | 2.5 UY | 0.475 UJY C | 4.75 UY | 0.425 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | | 8.75 UY | 4.5 UY | 1.3 | 0.475 UJY C | 4.75 UY | 0.425 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | | 8.75 UY | 4.5 UY | 2.5 UY | 0.475 UJY C | 4.75 UY | 0.425 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | | 8.75 UY | 4.5 UY | 2.5 UY | 0.475 UJY C | 4.75 UY | 0.425 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | | 17.5 UY | 9.25 UY | 5 UY | 0.975 UY | 9.25 UY | 0.875 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | | 17.5 UY | 9.25 UY | 1.8 J Z | 0.975 UJY C | 9.25 UY | 0.875 UY |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | | 17.5 UY | 9.25 UY | 5 UY | 0.975 UY | 9.25 UY | 0.875 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | | 8.75 UY | 4.5 UY | 2.5 UY | 0.475 UJY C | 4.75 UY | 0.425 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | | 91 | 9.25 UY | 5 UY | 0.975 UY | 9.25 UY | 0.4 |
| 8081A | 72-20-8 | Endrin | µg/kg | | 17.5 UY | 9.25 UY | 5 UY | 0.975 UY | 9.25 UY | 0.875 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | | 87.5 UY | 45 UY | 25 UY | 4.75 UJY C | 47.5 UY | 4.25 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | | 17.5 UY | 9.25 UY | 5 UY | 0.38 J Z, *# | 9.25 UY | 0.875 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | | 17.5 UY | 9.25 UY | 5 UY | 0.975 UY | 9.25 UY | 0.875 UY |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | | 17.5 UY | 9.25 UY | 5 UY | 0.975 UY | 9.25 UY | 0.875 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | | 8.75 UY | 4.5 UY | 2.5 UY | 0.475 UJY C | 4.75 UY | 0.425 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | | 350 UY | 180 UY | 97.5 UY | 18.75 UY | 180 UY | 17 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | | 8.75 UY | 4.5 UY | 3 | 0.475 UY | 4.75 UY | 0.425 UY |

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

Appendix A20
Pesticides-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-053-NBZ-SS-0.0-0.5 | SL-054-NBZ-SS-0.0-0.5 | SL-055-NBZ-SS-0.0-0.5 | SL-056-NBZ-SS-0.0-0.5 | DUP-02-NBZ-QC-032312 | SL-057-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | FD | N |
| | | | | Sample Date | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/15/2012 | 03/23/2012 | 03/23/2012 |
| | | | | SDG | 12C135 | 12C229 | 12C229 | 12C135 | 12C254 | 12C254 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.425 UY | 0.45 UY | 0.475 UY | 0.425 UY | 5.6 J FD, *# | 0.45 UJY FD |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.875 UY | 0.925 UY | 0.95 UY | 0.875 UY | 0.9 UJY FD | 0.32 J FD, Z, *# |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 8.75 UY | 9.25 UY | 9.5 UY | 8.75 UY | 9 UY | 9.25 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.875 UY | 0.925 UY | 0.95 UY | 0.875 UY | 0.9 UY | 0.925 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.425 UY | 0.45 UY | 0.475 UY | 0.425 UY | 0.45 UY | 0.45 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.425 UY | 0.45 UY | 0.475 UY | 0.425 UY | 0.45 UY | 0.45 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.425 UY | 0.45 UY | 0.475 UY | 0.425 UY | 0.45 UJY C | 0.45 UJY C |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.425 UY | 0.45 UY | 0.475 UY | 0.19 | 0.45 UJY C | 0.45 UJY C |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.875 UY | 0.925 UY | 0.95 UY | 0.875 UY | 0.9 UJY FD | 0.89 J FD |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 14 | 0.89 | 0.97 | 0.875 UY | 0.9 UY | 0.925 UY |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.875 UY | 0.925 UY | 0.95 UY | 0.875 UY | 0.9 UY | 0.925 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.425 UY | 0.45 UY | 0.475 UY | 0.425 UY | 0.45 UJY C | 0.45 UJY C |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.875 UY | 0.925 UY | 0.95 UY | 0.875 UY | 0.9 UJY FD | 2.6 J FD, *# |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.875 UY | 0.925 UY | 0.95 UY | 0.875 UY | 0.27 J Z, *# | 0.25 J Z, *# |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 4.25 UY | 4.5 UY | 4.75 UY | 4.25 UY | 4.5 UJY FD, C | 2.2 J FD, C, *# |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.875 UY | 0.925 UY | 0.95 UY | 0.875 UY | 0.9 UY | 0.925 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 0.875 UY | 3 | 0.68 | 2.1 | 0.9 UJY FD | 11 J FD, Q, *# |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.875 UY | 0.925 UY | 0.95 UY | 0.875 UY | 0.9 UJY FD | 5.5 J FD |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.425 UY | 0.45 UY | 0.54 | 0.10 J Z | 0.45 UJY C | 0.45 UJY C |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 16.75 UY | 18 UY | 18.25 UY | 17 UY | 17.75 UY | 17.75 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.425 UY | 0.45 UY | 0.19 | 0.425 UY | 1.1 J FD, *# | 0.45 UJY FD |

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

| | | | | Sample Name | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 | SL-070-NBZ-SS-0.0-0.5 | SL-075-NBZ-SS-0.0-0.5 | SL-076-NBZ-SS-0.0-0.5 | SL-077-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/22/2012 | 03/22/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 |
| | | | | SDG | 12C229 | 12C229 | 12C182 | 12C182 | 12C182 | 12C182 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.475 UY | 9 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.5 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.925 UY | 18 UY | 0.975 UY | 0.925 UY | 0.975 UY | 1 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9.25 UY | 180 UY | 9.75 UY | 9.25 UY | 9.75 UY | 10 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.925 UY | 18 UY | 0.975 UY | 0.925 UY | 0.975 UY | 1 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.475 UY | 9 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.5 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.475 UY | 9 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.5 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.475 UY | 9 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.5 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.475 UY | 9 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.5 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.925 UY | 18 UY | 0.975 UY | 0.925 UY | 0.975 UY | 1 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 0.925 UY | 18 UY | 0.21 J Z | 0.24 J Z | 0.72 | 2.5 |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.925 UY | 18 UY | 0.975 UY | 0.925 UY | 0.975 UY | 1 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.475 UY | 9 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.5 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.925 UY | 18 UY | 0.975 UY | 0.925 UY | 0.975 UY | 1 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.925 UY | 18 UY | 0.975 UY | 0.925 UY | 0.975 UY | 1 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 4.75 UY | 90 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.925 UY | 18 UY | 0.975 UY | 0.925 UY | 0.975 UY | 1 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 0.94 | 440 | 0.975 UY | 0.925 UY | 0.65 | 1.8 |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.925 UY | 18 UY | 0.975 UY | 0.925 UY | 0.975 UY | 1 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.475 UY | 9 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.5 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 18 UY | 350 UY | 18.75 UY | 18 UY | 19 UY | 19.25 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.475 UY | 9 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.21 |

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

Appendix A20
Pesticides-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-078-NBZ-SS-0.0-0.5 | SL-079-NBZ-SS-0.0-0.5 | SL-080-NBZ-SS-0.0-0.5 | SL-081-NBZ-SS-0.0-0.5 | SL-082-NBZ-SS-0.0-0.5 | SL-082-NBZ-SB-2.5-3.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/27/2012 | 03/30/2012 | 04/20/2012 | 04/18/2012 | 04/18/2012 | 04/18/2012 |
| | | | | SDG | 12C273 | 12C321 | 12D192 | 12D166 | 12D166 | 12D166 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 2.5 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.475 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.95 UY | 0.975 UY | 1 UY | 1 UY | 0.975 UY | 0.975 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9.5 UY | 9.75 UY | 10 UY | 10 UY | 9.75 UY | 9.75 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.95 UY | 0.975 UY | 1 UY | 1 UY | 0.975 UY | 0.975 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.475 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.475 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.475 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.475 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.95 UY | 0.975 UY | 1 UY | 1 UY | 0.975 UY | 0.975 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 0.31 J Z | 1.4 | 1.8 | 2.9 | 0.975 UY | 0.975 UY |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.95 UY | 0.975 UY | 1 UY | 1 UY | 0.975 UY | 0.975 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.475 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.95 UY | 0.975 UY | 1 UY | 1 UY | 0.975 UY | 0.975 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.95 UY | 0.975 UY | 1 UY | 1 UY | 0.975 UY | 0.975 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 4.75 UY | 5 UY | 5 UY | 5 UY | 4.75 UY | 4.75 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.95 UY | 0.975 UY | 1 UY | 0.22 J Z | 0.975 UY | 0.975 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 0.24 J Z | 0.88 | 1.1 | 2.2 | 3.1 | 0.975 UY |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.95 UY | 0.65 | 1 UY | 1 UY | 0.975 UY | 0.975 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.475 UY | 0.74 | 0.5 UY | 0.5 UY | 0.475 UY | 0.475 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 18.75 UY | 19.25 UY | 19.25 UY | 19.75 UY | 19 UY | 18.75 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.475 UY |

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

| | | | | Sample Name | SL-083-NBZ-SS-0.0-0.5 | SL-084-NBZ-SS-0.0-0.5 | SL-085-NBZ-SS-0.0-0.5 | SL-086-NBZ-SS-0.0-0.5 | SL-087-NBZ-SS-0.0-0.5 | SL-088-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 04/18/2012 | 04/10/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 | 04/17/2012 |
| | | | | SDG | 12D166 | 12D092 | 12D092 | 12D176 | 12D176 | 12D154 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.55 UY | 0.525 UY | 0.39 |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.975 UY | 1 UY | 1 UY | 1.1 UY | 1.075 UY | 1.125 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9.75 UY | 10 UY | 10 UY | 11 UY | 10.75 UY | 11.25 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.975 UY | 1 UY | 1 UY | 1.1 UY | 1.075 UY | 1.125 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.55 UY | 0.525 UY | 0.55 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.55 UY | 0.525 UY | 0.33 |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.55 UY | 0.525 UY | 0.55 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.55 UY | 0.525 UY | 0.55 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.975 UY | 1 UY | 1 UY | 1.1 UY | 1.075 UY | 1.125 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 0.975 UY | 1 UY | 0.26 J Z | 3.0 J *# | 1.1 | 3.3 |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.975 UY | 1 UY | 1 UY | 1.1 UY | 1.075 UY | 1.125 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.55 UY | 0.525 UY | 0.55 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.975 UY | 1 UY | 1 | 1.1 UY | 1.075 UY | 1.125 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.975 UY | 1 UY | 1 UY | 1.1 UY | 1.075 UY | 1.125 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 4.75 UY | 5 UY | 5 UY | 5.5 UJY C | 5.25 UJY C | 5.5 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.975 UY | 1 UY | 1 UY | 1.1 UY | 1.075 UY | 1.125 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 0.975 UY | 1.4 | 1 UY | 1.4 J *# | 0.43 J *# | 1.1 |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.975 UY | 1 UY | 1 UY | 1.1 UY | 1.075 UY | 1.125 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.475 UY | 0.5 UY | 0.64 | 0.55 UY | 0.525 UY | 0.55 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 19 UY | 19.25 UY | 19.5 UY | 21.25 UY | 20.75 UY | 21.5 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.55 UY | 0.525 UY | 0.55 UY |

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

Appendix A20
Pesticides-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-089-NBZ-SS-0.0-0.5 | SL-090-NBZ-SS-0.0-0.5 | SL-091-NBZ-SS-0.0-0.5 | DUP-05-NBZ-QC-032912 | SL-092-NBZ-SS-0.0-0.5 | SL-094-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | FD | N | N |
| | | | | Sample Date | 04/20/2012 | 04/17/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 | 03/28/2012 |
| | | | | SDG | 12D192 | 12D154 | 12C305 | 12C305 | 12C305 | 12C285 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.475 UY | 0.5 UY | 0.525 UY | 0.5 UY | 0.5 UY | 0.5 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.95 UY | 0.975 UY | 1.025 UY | 1 UY | 1 UY | 0.975 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9.5 UY | 9.75 UY | 10.25 UY | 10 UY | 10 UY | 9.75 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.95 UY | 0.975 UY | 1.025 UY | 1 UY | 1 UY | 0.975 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.475 UY | 0.5 UY | 0.525 UY | 0.5 UY | 0.5 UY | 0.5 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.475 UY | 0.5 UY | 0.525 UY | 0.5 UY | 0.5 UY | 0.5 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.475 UY | 0.5 UY | 0.525 UY | 0.5 UY | 0.5 UY | 0.5 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.475 UY | 0.5 UY | 0.525 UY | 0.5 UY | 0.5 UY | 0.5 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.95 UY | 0.975 UY | 1.025 UY | 1 UY | 1 UY | 0.975 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 3.7 | 3.7 | 1.025 UY | 1 UY | 1 UY | 0.975 UY |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.95 UY | 0.975 UY | 1.025 UY | 1 UY | 1 UY | 0.975 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.475 UY | 0.5 UY | 0.525 UY | 0.5 UY | 0.5 UY | 0.5 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.95 UY | 0.975 UY | 1.025 UY | 1 UY | 1 UY | 0.975 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.95 UY | 0.975 UY | 1.025 UY | 1 UY | 1 UY | 0.975 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 4.75 UY | 5 UY | 5.25 UY | 5 UY | 5 UY | 5 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.95 UY | 0.975 UY | 1.025 UY | 1 UY | 1 UY | 0.975 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 2 | 1.3 | 0.27 J Z | 1 UY | 1 UY | 0.975 UY |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.95 UY | 0.975 UY | 1.025 UY | 1 UY | 1 UY | 0.975 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.475 UY | 0.5 UY | 0.525 UY | 0.5 UY | 0.5 UY | 0.5 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 18.75 UY | 19.25 UY | 20 UY | 19.5 UY | 19.25 UY | 19 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.475 UY | 0.5 UY | 0.525 UY | 0.5 UY | 0.5 UY | 0.5 UY |

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

| | | | | Sample Name | SL-095-NBZ-SS-0.0-0.5 | SL-096-NBZ-SS-0.0-0.5 | SL-097-NBZ-SS-0.0-0.5 | SL-099-NBZ-SS-0.0-0.5 | SL-100-NBZ-SS-0.0-0.5 | SL-101-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/27/2012 | 03/28/2012 | 04/04/2012 | 04/04/2012 | 04/04/2012 | 03/29/2012 |
| | | | | SDG | 12C273 | 12C285 | 12D031 | 12D031 | 12D031 | 12C305 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.475 UY | 0.5 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.475 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.975 UY | 0.975 UY | 0.9 UY | 0.925 UY | 0.925 UY | 0.975 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9.75 UY | 9.75 UY | 9 UJY C | 9.25 UJY C | 9.25 UJY C | 9.75 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.975 UY | 0.975 UY | 0.9 UY | 0.925 UY | 0.925 UY | 0.975 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.475 UY | 0.5 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.475 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.475 UY | 0.5 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.475 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 14 | 0.5 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.475 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.475 UY | 0.5 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.475 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.975 UY | 0.975 UY | 0.9 UY | 0.925 UY | 0.925 UY | 0.975 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 0.25 J Z | 1.6 | 1 | 1 | 0.84 | 0.91 |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.975 UY | 0.975 UY | 0.9 UY | 0.925 UY | 0.925 UY | 0.975 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.475 UY | 0.5 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.475 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.975 UY | 0.975 UY | 0.9 UY | 0.925 UY | 0.925 UY | 0.975 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.975 UY | 0.975 UY | 0.9 UY | 0.925 UY | 0.925 UY | 0.975 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 4.75 UY | 5 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.75 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.975 UY | 0.975 UY | 0.9 UY | 0.925 UY | 0.925 UY | 0.21 J Z |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 0.975 UY | 0.92 | 0.88 | 0.73 | 0.30 J Z | 0.53 |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.975 UY | 0.975 UY | 0.9 UY | 0.925 UY | 0.925 UY | 0.975 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.475 UY | 0.5 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.475 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 18.75 UY | 19 UY | 17.75 UY | 18 UY | 18 UY | 18.75 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.475 UY | 0.5 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.475 UY |

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

Appendix A20
Pesticides-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-102-NBZ-SS-0.0-0.5 | SL-103-NBZ-SS-0.0-0.5 | SL-104-NBZ-SS-0.0-0.5 | SL-105-NBZ-SS-0.0-0.5 | SL-107-NBZ-SS-0.0-0.5 | SL-108-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/27/2012 | 03/29/2012 | 04/04/2012 | 03/21/2012 | 04/02/2012 | 04/03/2012 |
| | | | | SDG | 12C273 | 12C305 | 12D031 | 12C209 | 12D004 | 12D018 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.5 UY | 0.475 UY | 0.45 UY | 0.475 UY | 0.475 UY | 0.45 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.975 UY | 0.975 UY | 0.925 UY | 1.3 | 0.975 UY | 0.9 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9.75 UY | 9.75 UY | 9.25 UJY C | 9.5 UY | 9.75 UY | 9 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.975 UY | 0.975 UY | 0.925 UY | 0.95 UY | 0.975 UY | 0.9 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.5 UY | 0.475 UY | 0.45 UY | 0.475 UY | 0.475 UY | 0.45 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.5 UY | 0.475 UY | 0.45 UY | 0.475 UY | 0.475 UY | 0.45 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.5 UY | 0.475 UY | 0.45 UY | 0.475 UY | 0.475 UY | 0.45 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.5 UY | 0.475 UY | 0.45 UY | 0.475 UY | 0.475 UY | 0.45 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.975 UY | 0.975 UY | 0.925 UY | 0.95 UY | 0.975 UY | 0.9 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 0.975 UY | 1.4 | 0.29 J Z, *# | 0.95 UY | 0.97 J S | 0.9 UY |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.975 UY | 0.975 UY | 0.925 UY | 0.95 UY | 0.975 UY | 0.9 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.5 UY | 0.475 UY | 0.45 UY | 0.475 UY | 0.475 UY | 0.45 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.975 UY | 0.975 UY | 0.925 UY | 0.95 UY | 0.975 UY | 0.9 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.975 UY | 0.975 UY | 0.925 UY | 0.95 UY | 0.975 UY | 0.9 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 5 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.75 UY | 4.5 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.975 UY | 0.975 UY | 0.925 UY | 0.95 UY | 0.975 UY | 0.20 J Z |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 0.975 UY | 0.4 | 0.35 J Z | 0.55 | 0.975 UY | 0.9 UY |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.975 UY | 0.975 UY | 0.925 UY | 0.95 UY | 0.975 UY | 0.9 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.5 UY | 0.475 UY | 0.45 UY | 0.475 UY | 0.475 UY | 0.45 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 19.25 UY | 19 UY | 17.75 UY | 18.25 UY | 18.75 UY | 17.5 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.5 UY | 0.475 UY | 0.45 UY | 0.475 UY | 0.475 UY | 0.45 UY |

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

| | | | | Sample Name | SL-109-NBZ-SS-0.0-0.5 | SL-110-NBZ-SS-0.0-0.5 | SL-111-NBZ-SS-0.0-0.5 | SL-112-NBZ-SS-0.0-0.5 | SL-113-NBZ-SS-0.0-0.5 | SL-114-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/27/2012 | 04/04/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/04/2012 |
| | | | | SDG | 12C273 | 12D031 | 12D004 | 12D004 | 12D004 | 12D031 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.475 UY | 0.45 UY | 0.525 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.975 UY | 0.925 UY | 1.075 UY | 0.95 UY | 0.925 UY | 0.925 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9.75 UY | 9.25 UJY C | 10.75 UY | 9.5 UY | 9.25 UY | 9.25 UJY C |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.975 UY | 0.925 UY | 1.075 UY | 0.95 UY | 0.925 UY | 0.925 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.475 UY | 0.45 UY | 0.525 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.475 UY | 0.45 UY | 0.525 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.475 UY | 0.45 UY | 0.525 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.475 UY | 0.45 UY | 0.525 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.975 UY | 0.925 UY | 1.075 UY | 0.95 UY | 0.925 UY | 0.925 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 1.9 | 1.6 | 2.2 | 0.95 UY | 0.41 J S | 1.1 |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.975 UY | 0.925 UY | 1.075 UY | 0.95 UY | 0.925 UY | 0.925 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.475 UY | 0.45 UY | 0.525 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.975 UY | 0.925 UY | 1.075 UY | 0.95 UY | 0.925 UY | 0.925 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.975 UY | 0.925 UY | 1.075 UY | 0.95 UY | 0.925 UY | 0.925 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 4.75 UY | 4.1 J *# | 5.25 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.975 UY | 0.925 UY | 1.075 UY | 0.95 UY | 0.925 UY | 0.925 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 0.975 UY | 1.7 | 1.5 | 0.95 UY | 0.925 UY | 1.3 |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.975 UY | 0.925 UY | 1.075 UY | 0.95 UY | 0.925 UY | 0.925 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.475 UY | 0.45 UY | 0.525 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 19 UY | 17.75 UY | 20.75 UY | 18.25 UY | 18 UY | 18 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.475 UY | 0.45 UY | 0.525 UY | 0.475 UY | 0.475 UY | 0.475 UY |

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

Appendix A20
Pesticides-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-115-NBZ-SS-0.0-0.5 | SL-116-NBZ-SS-0.0-0.5 | DUP-04-NBZ-QC-032912 | SL-118-NBZ-SS-0.0-0.5 | SL-119-NBZ-SS-0.0-0.5 | SL-120-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | FD | N | N | N |
| | | | | Sample Date | 04/03/2012 | 03/22/2012 | 03/29/2012 | 03/29/2012 | 03/27/2012 | 04/04/2012 |
| | | | | SDG | 12D018 | 12C229 | 12C305 | 12C305 | 12C273 | 12D031 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.45 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.975 UY | 0.95 UY | 0.925 UY | 0.925 UY | 0.95 UY | 0.925 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9.75 UY | 9.5 UY | 9.25 UY | 9.25 UY | 9.5 UY | 9.25 UJY C |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.975 UY | 0.95 UY | 0.925 UY | 0.925 UY | 0.95 UY | 0.925 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.45 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.45 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.45 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.45 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.975 UY | 0.95 UY | 0.925 UY | 0.925 UY | 0.95 UY | 0.925 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 0.5 | 0.67 | 2.6 J FD | 0.925 UJY FD | 0.33 J Z | 0.49 |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.975 UY | 0.95 UY | 0.925 UY | 0.925 UY | 0.95 UY | 0.925 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.45 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.975 UY | 0.95 UY | 0.925 UY | 0.925 UY | 0.95 UY | 0.925 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.975 UY | 0.95 UY | 0.925 UY | 0.925 UY | 0.95 UY | 0.925 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.5 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.45 | 0.95 UY | 0.925 UY | 0.925 UY | 0.95 UY | 0.925 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 0.975 UY | 0.66 | 0.75 J FD | 0.23 J FD, Z | 0.95 UY | 0.29 J Z, *# |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.975 UY | 0.95 UY | 0.925 UY | 0.925 UY | 0.95 UY | 0.925 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.45 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 18.75 UY | 18.5 UY | 18 UY | 18 UY | 18.5 UY | 17.75 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.45 UY |

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

| | | | | Sample Name | SL-121-NBZ-SS-0.0-0.5 | SL-122-NBZ-SS-0.0-0.5 | SL-123-NBZ-SS-0.0-0.5 | SL-124-NBZ-SS-0.0-0.5 | SL-126-NBZ-SS-0.0-0.5 | SL-127-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/30/2012 | 04/03/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 | 04/03/2012 |
| | | | | SDG | 12C321 | 12D018 | 12C261 | 12C261 | 12C261 | 12D018 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.11 J Z | 0.475 UY | 0.5 UY | 0.575 UY | 0.12 J Z | 0.45 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.925 UY | 0.975 UY | 1 UY | 1.15 UY | 1.025 UY | 0.9 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9.25 UY | 9.75 UY | 10 UY | 11.5 UY | 10.25 UY | 9 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 3.2 | 0.975 UY | 1 UY | 1.15 UY | 1.025 UY | 0.9 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.45 UY | 0.475 UY | 0.5 UY | 0.575 UY | 0.5 UY | 0.45 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.45 UY | 0.475 UY | 0.5 UY | 0.575 UY | 0.5 UY | 0.45 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.45 UY | 0.475 UY | 0.5 UY | 0.575 UY | 0.5 UY | 0.45 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.45 UY | 0.475 UY | 0.5 UY | 0.575 UY | 0.5 UY | 0.45 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.28 J Z | 0.975 UY | 1 UY | 1.15 UY | 1.025 UY | 0.9 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 6.4 | 0.43 | 1 UY | 0.75 | 2 | 0.22 J Z |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.925 UY | 0.975 UY | 1 UY | 1.15 UY | 1.025 UY | 0.9 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.45 UY | 0.475 UY | 0.5 UY | 0.575 UY | 0.5 UY | 0.45 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.925 UY | 0.975 UY | 1 UY | 1.15 UY | 1.025 UY | 0.9 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.925 UY | 0.975 UY | 1 UY | 1.15 UY | 1.025 UY | 0.9 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 3 | 4.75 UY | 5 UY | 5.75 UY | 5 UY | 4.5 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.25 J Z | 0.4 | 1 UY | 1.15 UY | 1.025 UY | 0.9 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 1.9 | 0.975 UY | 1 UY | 1.15 UY | 1.7 | 0.52 |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.925 UY | 0.975 UY | 1 UY | 1.15 UY | 1.025 UY | 0.9 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.45 UY | 0.475 UY | 0.5 UY | 0.575 UY | 0.5 UY | 0.45 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 18 UY | 18.75 UY | 19.5 UY | 22.25 UY | 19.75 UY | 17.5 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.45 UY | 0.475 UY | 0.5 UY | 0.575 UY | 0.5 UY | 0.45 UY |

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

Appendix A20
Pesticides-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-129-NBZ-SS-0.0-0.5 | SL-130-NBZ-SS-0.0-0.5 | SL-131-NBZ-SS-0.0-0.5 | SL-133-NBZ-SS-0.0-0.5 | SL-134-NBZ-SS-0.0-0.5 | SL-135-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/27/2012 | 03/27/2012 | 03/29/2012 | 03/26/2012 | 03/30/2012 | 03/28/2012 |
| | | | | SDG | 12C273 | 12C273 | 12C305 | 12C261 | 12C321 | 12C285 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.22 | 0.5 UY | 0.45 UY | 0.5 UY | 0.34 | 0.475 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 1.05 UY | 1.025 UY | 0.925 UY | 0.975 UY | 0.925 UY | 0.975 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 10.5 UY | 10.25 UY | 9.25 UY | 9.75 UY | 9.25 UY | 9.75 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 1.05 UY | 1.025 UY | 0.925 UY | 0.975 UY | 2.9 | 0.975 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.525 UY | 0.5 UY | 0.45 UY | 0.5 UY | 0.475 UY | 0.475 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.525 UY | 0.5 UY | 0.45 UY | 0.5 UY | 0.475 UY | 0.475 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.525 UY | 0.5 UY | 0.45 UY | 0.5 UY | 0.475 UY | 0.475 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.525 UY | 0.5 UY | 0.45 UY | 0.5 UY | 0.475 UY | 0.475 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 1.05 UY | 1.025 UY | 0.925 UY | 0.975 UY | 0.925 UY | 0.975 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 3.4 | 0.32 J Z | 0.925 UY | 2.4 | 7.3 | 2.2 |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 1.05 UY | 1.025 UY | 0.925 UY | 0.975 UY | 0.925 UY | 0.975 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.525 UY | 0.5 UY | 0.45 UY | 0.5 UY | 0.475 UY | 0.475 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 1.05 UY | 1.025 UY | 0.925 UY | 0.975 UY | 0.43 | 0.975 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 1.05 UY | 1.025 UY | 0.925 UY | 0.975 UY | 0.925 UY | 0.975 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 5.25 UY | 5 UY | 4.5 UY | 1.4 J Z | 0.96 J Z | 4.75 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 1.05 UY | 1.025 UY | 0.925 UY | 0.975 UY | 0.925 UY | 0.975 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 1.7 | 1.025 UY | 0.63 | 3.2 | 4.7 | 1.4 |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 1.05 UY | 1.025 UY | 0.925 UY | 0.975 UY | 0.52 | 0.975 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 1.7 | 0.5 UY | 0.45 UY | 0.5 UY | 0.475 UY | 0.475 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 20.5 UY | 19.75 UY | 17.75 UY | 19 UY | 18 UY | 19 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.525 UY | 0.5 UY | 0.45 UY | 0.5 UY | 0.475 UY | 0.475 UY |

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

| | | | | Sample Name | SL-136-NBZ-SS-0.0-0.5 | SL-138-NBZ-SS-0.0-0.5 | SL-139-NBZ-SS-0.0-0.5 | SL-140-NBZ-SS-0.0-0.5 | SL-141-NBZ-SS-0.0-0.5 | SL-143-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/28/2012 | 04/02/2012 | 03/28/2012 | 04/03/2012 | 03/28/2012 | 03/28/2012 |
| | | | | SDG | 12C285 | 12D004 | 12C285 | 12D018 | 12C285 | 12C285 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.475 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.45 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.95 UY | 0.95 UY | 1.025 UY | 0.975 UY | 0.95 UY | 0.925 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9.5 UY | 9.5 UY | 10.25 UY | 9.75 UY | 9.5 UY | 9.25 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.95 UY | 0.95 UY | 1.025 UY | 0.975 UY | 0.95 UY | 0.925 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.475 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.45 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.475 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.45 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.475 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.45 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.475 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.45 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.95 UY | 0.95 UY | 1.025 UY | 0.975 UY | 0.95 UY | 0.925 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 1.5 | 0.37 J Z | 3.2 | 1.2 | 3.3 | 0.925 UY |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.95 UY | 0.95 UY | 1.025 UY | 0.975 UY | 0.95 UY | 0.925 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.475 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.45 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.95 UY | 0.95 UY | 1.025 UY | 0.975 UY | 0.95 UY | 0.925 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.95 UY | 0.95 UY | 1.025 UY | 0.975 UY | 0.95 UY | 0.925 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 14 | 4.75 UY | 5 UY | 5 UY | 4.75 UY | 4.5 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.95 UY | 0.95 UY | 1.025 UY | 0.975 UY | 0.95 UY | 0.925 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 2.7 | 0.95 UY | 3 | 0.87 | 1.2 | 0.925 UY |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.95 UY | 0.95 UY | 1.025 UY | 0.975 UY | 0.95 UY | 0.925 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.475 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.45 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 18.25 UY | 18.5 UY | 19.75 UY | 19.25 UY | 18.5 UY | 18 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.475 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.45 UY |

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

Appendix A20
Pesticides-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-144-NBZ-SS-0.0-0.5 | SL-145-NBZ-SS-0.0-0.5 | SL-146-NBZ-SS-0.0-0.5 | SL-147-NBZ-SS-0.0-0.5 | SL-148-NBZ-SS-0.0-0.5 | SL-149-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 04/12/2012 | 04/11/2012 | 04/18/2012 | 04/17/2012 | 04/11/2012 | 04/05/2012 |
| | | | | SDG | 12D122 | 12D106 | 12D166 | 12D154 | 12D106 | 12D048 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.5 UY | 0.55 UY | 0.5 UY | 0.5 UY | 0.525 UY | 0.475 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.975 UY | 1.075 UY | 0.975 UY | 0.975 UY | 1.05 UY | 0.925 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9.75 UY | 10.75 UY | 9.75 UY | 9.75 UY | 10.5 UY | 9.25 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.975 UY | 1.075 UY | 0.975 UY | 0.975 UY | 1.05 UY | 0.925 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.5 UY | 0.55 UY | 0.5 UY | 0.5 UY | 0.525 UY | 0.475 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.5 UY | 0.55 UY | 0.5 UY | 0.5 UY | 0.525 UY | 0.475 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.5 UY | 0.55 UY | 0.5 UY | 0.5 UY | 0.525 UY | 0.475 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.5 UY | 0.55 UY | 0.5 UY | 0.5 UY | 0.525 UY | 0.475 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.975 UY | 1.075 UY | 0.975 UY | 0.975 UY | 1.05 UY | 0.925 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 0.74 | 2.4 | 0.9 | 1.3 | 1 | 0.38 |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.975 UY | 1.075 UY | 0.975 UY | 0.975 UY | 1.05 UY | 0.925 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.5 UY | 0.55 UY | 0.5 UY | 0.5 UY | 0.525 UY | 0.475 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.975 UY | 1.075 UY | 0.975 UY | 0.975 UY | 1.05 UY | 0.925 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.975 UY | 1.075 UY | 0.975 UY | 0.975 UY | 1.05 UY | 0.925 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 5 UY | 5.5 UY | 5 UY | 5 UY | 5.25 UY | 4.75 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.975 UY | 1.075 UY | 0.975 UY | 0.975 UY | 1.05 UY | 0.925 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 0.66 | 1.075 UY | 0.59 | 0.92 | 0.49 | 0.925 UY |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.975 UY | 1.075 UY | 0.975 UY | 0.975 UY | 1.05 UY | 0.925 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.5 UY | 0.55 UY | 0.5 UY | 0.5 UY | 0.525 UY | 0.475 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 19 UY | 21 UY | 19 UY | 19 UY | 20.25 UY | 18 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.5 UY | 0.55 UY | 0.5 UY | 0.5 UY | 0.525 UY | 0.475 UY |

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

| | | | | Sample Name | SL-150-NBZ-SS-0.0-0.5 | SL-151-NBZ-SS-0.0-0.5 | SL-152-NBZ-SS-0.0-0.5 | SL-154-NBZ-SS-0.0-0.5 | SL-155-NBZ-SS-0.0-0.5 | SL-156-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 04/19/2012 | 04/09/2012 | 04/12/2012 | 04/11/2012 | 04/04/2012 | 04/17/2012 |
| | | | | SDG | 12D176 | 12D084 | 12D122 | 12D106 | 12D031 | 12D154 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | | 0.475 UY | 0.475 UY | 0.5 UY | 0.575 UY | 0.45 UY | 0.525 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | | 0.95 UY | 0.95 UY | 1 UY | 1.125 UY | 0.925 UY | 1.025 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | | 9.5 UY | 9.5 UY | 10 UY | 11.25 UY | 9.25 UJY C | 10.25 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | | 0.95 UY | 0.95 UY | 1 UY | 1.125 UY | 0.925 UY | 1.025 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | | 0.475 UY | 0.475 UY | 0.5 UY | 0.575 UY | 0.45 UY | 0.525 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | | 0.475 UY | 0.475 UY | 0.5 UY | 0.575 UY | 0.45 UY | 0.525 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | | 0.475 UY | 0.475 UY | 0.5 UY | 0.575 UY | 0.45 UY | 0.525 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | | 0.475 UY | 0.475 UY | 0.5 UY | 0.575 UY | 0.45 UY | 0.525 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | | 0.95 UY | 3.3 | 1 UY | 1.125 UY | 0.925 UY | 1.025 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | | 2.9 | 0.95 UY | 6.4 | 1.6 | 0.925 UY | 1.5 |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | | 0.95 UY | 0.95 UY | 1 UY | 1.125 UY | 0.925 UY | 1.025 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | | 0.475 UY | 0.475 UY | 0.5 UY | 0.575 UY | 0.45 UY | 0.525 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | | 0.95 UY | 0.95 UY | 1 UY | 1.125 UY | 0.925 UY | 1.025 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | | 0.95 UY | 0.95 UY | 1 UY | 1.125 UY | 0.925 UY | 1.025 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | | 4.75 UJY C | 4.75 UY | 5 UY | 5.75 UY | 4.5 UY | 5.25 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | | 0.95 UY | 0.34 J Z | 1 UY | 1.125 UY | 0.925 UY | 1.025 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | | 1.6 | 0.95 UY | 2.7 | 1.6 | 0.925 UY | 0.84 |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | | 0.95 UY | 0.95 UY | 1 UY | 1.125 UY | 0.925 UY | 1.025 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | | 0.475 UY | 0.475 UY | 0.5 UY | 0.575 UY | 0.45 UY | 0.525 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | | 18.5 UY | 18.25 UY | 19.5 UY | 22 UY | 18 UY | 20 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | | 0.475 UY | 0.475 UY | 0.5 UY | 0.575 UY | 0.45 UY | 0.525 UY |

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

Appendix A20
Pesticides-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-157-NBZ-SS-0.0-0.5 | SL-158-NBZ-SS-0.0-0.5 | SL-159-NBZ-SS-0.0-0.5 | DUP-10-NBZ-QC-041612 | SL-160-NBZ-SS-0.0-0.5 | SL-161-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | FD | N | N |
| | | | | Sample Date | 04/09/2012 | 04/12/2012 | 04/16/2012 | 04/16/2012 | 04/16/2012 | 04/17/2012 |
| | | | | SDG | 12D084 | 12D122 | 12D146 | 12D166 | 12D146 | 12D154 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.475 UY | 0.5 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.925 UY | 0.975 UY | 0.975 UY | 0.95 UY | 0.95 UY | 0.95 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9.25 UY | 9.75 UY | 9.75 UY | 9.5 UY | 9.5 UY | 9.5 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.925 UY | 0.975 UY | 0.975 UY | 0.95 UY | 0.95 UY | 0.95 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.475 UY | 0.5 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.475 UY | 0.5 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.475 UY | 0.5 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.475 UY | 0.5 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.925 UY | 0.975 UY | 0.975 UY | 0.95 UY | 0.95 UY | 0.95 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 2.4 | 0.31 J Z | 1.5 | 1.7 | 0.35 J Z | 1.3 |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.925 UY | 0.975 UY | 0.975 UY | 0.95 UY | 0.95 UY | 0.95 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.475 UY | 0.5 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.925 UY | 0.975 UY | 0.975 UY | 0.95 UY | 0.95 UY | 0.95 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.925 UY | 0.975 UY | 0.975 UY | 0.95 UY | 0.95 UY | 0.95 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 4.75 UY | 5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.93 | 0.975 UY | 0.975 UY | 0.95 UY | 0.95 UY | 0.95 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 1.3 | 0.29 J Z | 4.3 | 1.1 | 0.92 | 0.37 J Z |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.925 UY | 0.975 UY | 0.975 UY | 0.95 UY | 0.95 UY | 0.95 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.475 UY | 0.5 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 18.25 UY | 19 UY | 18.75 UY | 18.5 UY | 18.5 UY | 18.5 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.475 UY | 0.5 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY |

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

| | | | | Sample Name | SL-162-NBZ-SS-0.0-0.5 | SL-163-NBZ-SS-0.0-0.5 | SL-164-NBZ-SS-0.0-0.5 | SL-165-NBZ-SS-0.0-0.5 | SL-166-NBZ-SS-0.0-0.5 | SL-167-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 04/17/2012 | 04/11/2012 | 04/16/2012 | 04/05/2012 | 04/17/2012 | 04/09/2012 |
| | | | | SDG | 12D154 | 12D106 | 12D146 | 12D048 | 12D154 | 12D084 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.5 UY | 0.45 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.925 UY | 1 UY | 1.025 UY | 0.95 UY | 0.975 UY | 0.9 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9.25 UY | 10 UY | 10.25 UY | 9.5 UY | 9.75 UY | 9 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.925 UY | 1 UY | 1.025 UY | 0.95 UY | 0.975 UY | 0.9 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.5 UY | 0.45 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.5 UY | 0.45 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.5 UY | 0.45 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.5 UY | 0.45 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.925 UY | 1 UY | 1.025 UY | 0.95 UY | 0.975 UY | 0.9 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 3.7 | 1 UY | 1.025 UY | 0.95 UY | 2 | 0.59 |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.925 UY | 1 UY | 1.025 UY | 0.95 UY | 0.975 UY | 0.9 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.5 UY | 0.45 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.925 UY | 1 UY | 1.025 UY | 0.95 UY | 0.975 UY | 0.9 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.925 UY | 1 UY | 1.025 UY | 0.95 UY | 0.975 UY | 0.9 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 4.75 UY | 5 UY | 5 UY | 4.75 UY | 5 UY | 4.5 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.925 UY | 1 UY | 1.025 UY | 0.95 UY | 0.975 UY | 0.9 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 1.7 | 1 UY | 1.025 UY | 0.95 UY | 0.66 | 0.62 |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.925 UY | 1 UY | 1.025 UY | 0.95 UY | 0.975 UY | 0.9 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.5 UY | 0.45 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 18 UY | 19.5 UY | 19.75 UY | 18.25 UY | 19.25 UY | 17.75 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY | 0.5 UY | 0.45 UY |

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

Appendix A20
Pesticides-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-168-NBZ-SS-0.0-0.5 | SL-169-NBZ-SS-0.0-0.5 | SL-170-NBZ-SS-0.0-0.5 | SL-171-NBZ-SS-0.0-0.5 | SL-172-NBZ-SS-0.0-0.5 | DUP-08-NBZ-QC-041612 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | FD |
| | | | | Sample Date | 04/11/2012 | 04/03/2012 | 04/20/2012 | 04/20/2012 | 04/12/2012 | 04/16/2012 |
| | | | | SDG | 12D106 | 12D018 | 12D192 | 12D192 | 12D122 | 12D146 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.5 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.95 UY | 0.95 UY | 0.925 UY | 0.925 UY | 0.95 UY | 1.025 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9.5 UY | 9.5 UY | 9.25 UY | 9.25 UY | 9.5 UY | 10.25 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.95 UY | 0.95 UY | 0.925 UY | 0.925 UY | 0.95 UY | 1.025 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.5 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.5 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.5 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.5 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.95 UY | 0.95 UY | 0.925 UY | 0.925 UY | 0.95 UY | 1.025 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 0.21 J Z | 0.28 J Z | 0.91 | 1.2 | 1.1 | 0.55 J FD |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.95 UY | 0.95 UY | 0.925 UY | 0.925 UY | 0.95 UY | 1.025 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.5 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.95 UY | 0.38 | 0.925 UY | 0.925 UY | 0.95 UY | 1.025 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.95 UY | 0.95 UY | 0.925 UY | 0.925 UY | 0.95 UY | 1.025 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 5 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.95 UY | 0.47 | 0.925 UY | 0.925 UY | 0.95 UY | 1.025 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 0.95 UY | 0.85 | 0.39 | 1 | 0.96 | 0.52 |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.95 UY | 0.95 UY | 0.925 UY | 0.925 UY | 0.95 UY | 1.025 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.5 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 18.5 UY | 18.25 UY | 18 UY | 18 UY | 18.5 UY | 19.75 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.5 UY |

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

| | | | | Sample Name | SL-173-NBZ-SS-0.0-0.5 | SL-174-NBZ-SS-0.0-0.5 | SL-175-NBZ-SS-0.0-0.5 | SL-176-NBZ-SS-0.0-0.5 | SL-177-NBZ-SS-0.0-0.5 | SL-178-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 04/16/2012 | 04/09/2012 | 04/05/2012 | 04/11/2012 | 04/10/2012 | 04/19/2012 |
| | | | | SDG | 12D146 | 12D084 | 12D048 | 12D106 | 12D092 | 12D176 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | | 0.525 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.45 UY | 0.475 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | | 1.025 UY | 0.925 UY | 1 UY | 1 UY | 0.9 UY | 0.95 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | | 10.25 UY | 9.25 UY | 10 UY | 10 UY | 9 UY | 9.5 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | | 1.025 UY | 0.925 UY | 1 UY | 1 UY | 0.9 UY | 0.95 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | | 0.525 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.45 UY | 0.475 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | | 0.525 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.45 UY | 0.475 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | | 0.525 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.45 UY | 0.475 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | | 0.525 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.45 UY | 0.475 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | | 1.025 UY | 0.925 UY | 1 UY | 1 UY | 0.9 UY | 0.95 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | | 1.1 J FD | 0.54 | 1.2 | 1 UY | 0.71 | 0.98 |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | | 1.025 UY | 0.925 UY | 1 UY | 1 UY | 0.9 UY | 0.95 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | | 0.525 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.45 UY | 0.475 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | | 1.025 UY | 0.925 UY | 1 UY | 1 UY | 0.9 UY | 0.95 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | | 1.025 UY | 0.925 UY | 1 UY | 1 UY | 0.9 UY | 0.95 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | | 5.25 UY | 4.75 UY | 5 UY | 5 UY | 4.5 UY | 4.75 UJY C |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | | 1.025 UY | 0.925 UY | 1 UY | 1 UY | 0.9 UY | 0.95 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | | 0.72 | 0.79 | 1.1 | 1 UY | 0.65 | 1 |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | | 1.025 UY | 0.925 UY | 1 UY | 1 UY | 0.9 UY | 0.95 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | | 0.525 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.45 UY | 0.475 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | | 20 UY | 18 UY | 19.25 UY | 19.25 UY | 17.5 UY | 18.5 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | | 0.525 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.45 UY | 0.475 UY |

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

Appendix A20
Pesticides-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-179-NBZ-SS-0.0-0.5 | SL-180-NBZ-SS-0.0-0.5 | SL-181-NBZ-SS-0.0-0.5 | SL-182-NBZ-SS-0.0-0.5 | SL-183-NBZ-SS-0.0-0.5 | SL-184-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 04/19/2012 | 04/13/2012 | 04/04/2012 | 04/11/2012 | 04/13/2012 | 04/19/2012 |
| | | | | SDG | 12D176 | 12D135 | 12D031 | 12D106 | 12D135 | 12D176 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | | 0.475 UY | 0.525 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | | 0.95 UY | 1.05 UY | 0.925 UY | 1 UY | 1.025 UY | 0.975 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | | 9.5 UY | 10.5 UY | 9.25 UJY C | 10 UY | 10.25 UY | 9.75 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | | 0.95 UY | 1.05 UY | 0.925 UY | 1 UY | 1.025 UY | 0.975 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | | 0.475 UY | 0.525 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | | 0.475 UY | 0.525 UY | 0.475 UY | 0.5 UY | 0.16 J Z | 0.475 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | | 0.475 UY | 0.525 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | | 0.475 UY | 0.525 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | | 0.95 UY | 1.05 UY | 0.925 UY | 1 UY | 1.025 UY | 0.975 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | | 0.95 UY | 5.5 | 0.925 UY | 0.77 | 1 | 0.86 |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | | 0.95 UY | 1.05 UY | 0.925 UY | 1 UY | 1.025 UY | 0.975 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | | 0.475 UY | 0.525 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | | 0.95 UY | 1.05 UY | 0.925 UY | 1 UY | 1.025 UY | 0.975 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | | 0.95 UY | 1.05 UY | 0.925 UY | 1 UY | 1.025 UY | 0.975 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | | 4.75 UY | 5.25 UY | 4.75 UY | 5 UY | 5 UY | 4.75 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | | 0.95 UY | 1.05 UY | 0.925 UY | 1 UY | 1.025 UY | 0.975 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | | 0.37 J Z | 3.2 | 0.925 UY | 0.31 J Z | 0.32 J Z | 0.69 |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | | 0.95 UY | 1.05 UY | 0.925 UY | 1 UY | 1.025 UY | 0.975 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | | 0.475 UY | 0.525 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | | 18.5 UY | 20.5 UY | 18 UY | 19.25 UY | 19.75 UY | 18.75 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | | 0.475 UY | 0.525 UY | 0.475 UY | 0.5 UY | 0.5 UY | 0.475 UY |

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

| | | | | Sample Name | SL-185-NBZ-SS-0.0-0.5 | SL-186-NBZ-SS-0.0-0.5 | SL-187-NBZ-SS-0.0-0.5 | SL-188-NBZ-SS-0.0-0.5 | SL-189-NBZ-SS-0.0-0.5 | SL-190-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 04/09/2012 | 04/10/2012 | 04/04/2012 | 04/10/2012 | 04/18/2012 | 04/05/2012 |
| | | | | SDG | 12D084 | 12D092 | 12D031 | 12D092 | 12D166 | 12D048 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.475 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.475 UY | 0.45 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.95 UY | 0.925 UY | 0.925 UY | 0.925 UY | 0.975 UY | 0.9 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9.5 UY | 9.25 UY | 9.25 UJY C | 9.25 UY | 9.75 UY | 9 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.95 UY | 0.925 UY | 0.925 UY | 0.925 UY | 0.975 UY | 0.9 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.475 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.475 UY | 0.45 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.475 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.475 UY | 0.45 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.475 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.475 UY | 0.45 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.475 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.475 UY | 0.45 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.95 UY | 0.925 UY | 0.925 UY | 0.925 UY | 0.975 UY | 0.9 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 0.47 | 0.925 UY | 0.925 UY | 0.925 UY | 1.1 | 0.38 |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.95 UY | 0.925 UY | 0.925 UY | 0.925 UY | 0.975 UY | 0.9 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.475 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.475 UY | 0.45 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.95 UY | 0.925 UY | 0.925 UY | 0.925 UY | 0.975 UY | 0.9 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.95 UY | 0.925 UY | 0.925 UY | 0.925 UY | 0.975 UY | 0.9 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY | 4.75 UY | 4.5 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.95 UY | 0.925 UY | 0.925 UY | 0.925 UY | 0.975 UY | 0.9 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 0.95 UY | 0.22 J Z | 0.925 UY | 0.7 | 0.30 J Z | 0.43 |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.95 UY | 0.925 UY | 0.925 UY | 0.925 UY | 0.975 UY | 0.9 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.475 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.475 UY | 0.45 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 18.25 UY | 17.75 UY | 18 UY | 17.75 UY | 19 UY | 17.5 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.475 UY | 0.45 UY | 0.475 UY | 0.45 UY | 0.475 UY | 0.45 UY |

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

Appendix A20
Pesticides-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | DUP-06-NBZ-QC-040912 | SL-191-NBZ-SS-0.0-0.5 | DUP-09-NBZ-QC-041912 | SL-193-NBZ-SS-0.0-0.5 | SL-194-NBZ-SS-0.0-0.5 | SL-195-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | FD | N | FD | N | N | N |
| | | | | Sample Date | 04/09/2012 | 04/09/2012 | 04/19/2012 | 04/19/2012 | 04/02/2012 | 03/26/2012 |
| | | | | SDG | 12D084 | 12D084 | 12D176 | 12D176 | 12D004 | 12C261 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.45 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.925 UY | 0.925 UY | 0.95 UY | 0.95 UY | 0.95 UY | 0.95 UY | 0.975 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9.25 UY | 9.25 UY | 9.5 UY | 9.5 UY | 9.5 UY | 9.5 UY | 9.75 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.925 UY | 0.925 UY | 0.95 UY | 0.95 UY | 0.95 UY | 0.95 UY | 0.975 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.45 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.45 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.45 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.45 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.925 UY | 0.925 UY | 0.95 UY | 0.95 UY | 0.95 UY | 0.95 UY | 0.975 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 0.44 J FD | 0.925 UJY FD | 0.95 UJY FD | 1.8 J FD | 0.84 | 1.6 | |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.925 UY | 0.925 UY | 0.95 UY | 0.95 UY | 0.95 UY | 0.95 UY | 0.975 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.45 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.925 UY | 0.925 UY | 0.95 UY | 0.95 UY | 0.95 UY | 0.95 UY | 0.975 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.925 UY | 0.925 UY | 0.95 UY | 0.95 UY | 0.95 UY | 0.95 UY | 0.975 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 4.5 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY | 4.75 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.925 UY | 0.925 UY | 0.95 UY | 0.95 UY | 0.95 UY | 0.95 UY | 0.975 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 0.925 UY | 0.925 UY | 0.21 J FD, Z | 1.7 J FD | 0.69 | 0.71 | |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.925 UY | 0.925 UY | 0.95 UY | 0.95 UY | 0.95 UY | 0.95 UY | 0.975 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.45 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 17.75 UY | 18 UY | 18.5 UY | 18.5 UY | 18.5 UY | 18.75 UY | |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.45 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | 0.475 UY | |

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

| | | | | Sample Name | SL-196-NBZ-SS-0.0-0.5 | SL-197-NBZ-SS-0.0-0.5 | SL-198-NBZ-SS-0.0-0.5 | SL-199-NBZ-SS-0.0-0.5 | SL-200-NBZ-SS-0.0-0.5 | SL-201-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N |
| | | | | Sample Date | 03/26/2012 | 03/29/2012 | 04/03/2012 | 04/23/2012 | 04/23/2012 | 04/23/2012 |
| | | | | SDG | 12C261 | 12C305 | 12D018 | 12D197 | 12D197 | 12D197 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.525 UY | 0.5 UY | 0.45 UY | 0.45 UY | 0.475 UY | 0.32 |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 1.025 UY | 0.975 UY | 0.925 UY | 0.925 UY | 0.925 UY | 1 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 10.25 UY | 9.75 UY | 9.25 UY | 9.25 UY | 9.25 UY | 10 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 1.025 UY | 0.975 UY | 0.925 UY | 0.925 UY | 0.925 UY | 1 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.525 UY | 0.5 UY | 0.45 UY | 0.45 UY | 0.475 UY | 0.5 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.525 UY | 0.5 UY | 0.45 UY | 0.45 UY | 0.475 UY | 0.5 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.525 UY | 0.5 UY | 0.45 UY | 0.45 UY | 0.475 UY | 0.5 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.525 UY | 0.5 UY | 0.45 UY | 0.45 UY | 0.475 UY | 0.5 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 1.025 UY | 0.975 UY | 0.925 UY | 0.925 UY | 0.925 UY | 1 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 2 | 1.9 | 1.2 | 3.8 | 0.5 | 40 |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 1.025 UY | 0.975 UY | 0.925 UY | 0.925 UY | 0.925 UY | 1 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.525 UY | 0.5 UY | 0.45 UY | 0.45 UY | 0.475 UY | 0.5 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 1.025 UY | 0.975 UY | 0.925 UY | 0.925 UY | 0.925 UY | 1 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 1.025 UY | 0.975 UY | 0.925 UY | 0.925 UY | 0.925 UY | 1 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 5.25 UY | 6.9 | 4.5 UY | 4.5 UY | 4.75 UY | 5 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 1.025 UY | 0.975 UY | 0.925 UY | 0.925 UY | 0.925 UY | 1 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 1.025 UY | 1 | 0.925 UY | 1.3 | 0.925 UY | 7.5 |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 1.025 UY | 0.975 UY | 0.925 UY | 0.925 UY | 0.925 UY | 1 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.525 UY | 0.5 UY | 0.45 UY | 0.45 UY | 0.475 UY | 0.5 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 20 UY | 19.25 UY | 17.75 UY | 18 UY | 18 UY | 19.5 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.525 UY | 0.5 UY | 0.45 UY | 0.45 UY | 0.475 UY | 0.5 UY |

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

Appendix A20
Pesticides-Validated Data
NBZ - Phases 1 and 2

| | | | | |
|---|---|---|---|---|
| | | | Sample Name | SL-202-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N |
| | | | Sample Date | 04/20/2012 |
| | | | SDG | 12D192 |
| | | | Start Depth | 0 |
| | | | End Depth | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | |
| 8081A | 1024-57-3 | Heptachlor Epoxide | µg/kg | 0.45 UY |
| 8081A | 1031-07-8 | Endosulfan Sulfate | µg/kg | 0.925 UY |
| 8081A | 12789-03-6 | Chlordane (Technical) | µg/kg | 9.25 UY |
| 8081A | 2385-85-5 | Mirex | µg/kg | 0.925 UY |
| 8081A | 309-00-2 | Aldrin | µg/kg | 0.45 UY |
| 8081A | 319-84-6 | Alpha-Bhc | µg/kg | 0.45 UY |
| 8081A | 319-85-7 | Beta-Bhc | µg/kg | 0.45 UY |
| 8081A | 319-86-8 | Delta-Bhc | µg/kg | 0.45 UY |
| 8081A | 33213-65-9 | Endosulfan II | µg/kg | 0.925 UY |
| 8081A | 50-29-3 | 4,4'-DDT | µg/kg | 0.925 UY |
| 8081A | 53494-70-5 | Endrin Ketone | µg/kg | 0.925 UY |
| 8081A | 58-89-9 | Gamma-Bhc (Lindane) | µg/kg | 0.45 UY |
| 8081A | 60-57-1 | Dieldrin | µg/kg | 0.925 UY |
| 8081A | 72-20-8 | Endrin | µg/kg | 0.925 UY |
| 8081A | 72-43-5 | Methoxychlor | µg/kg | 4.5 UY |
| 8081A | 72-54-8 | 4,4'-DDD | µg/kg | 0.925 UY |
| 8081A | 72-55-9 | 4,4'-DDE | µg/kg | 0.925 UY |
| 8081A | 7421-93-4 | Endrin Aldehyde | µg/kg | 0.925 UY |
| 8081A | 76-44-8 | Heptachlor | µg/kg | 0.45 UY |
| 8081A | 8001-35-2 | Technical Toxaphene | µg/kg | 17.75 UY |
| 8081A | 959-98-8 | Endosulfan I | µg/kg | 0.45 UY |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-001-NBZ-SS-0.0-0.5 | SL-002-NBZ-SS-0.0-0.5 | SL-002-NBZ-SB-4.0-5.0 | SL-002-NBZ-SB-7.5-8.5 | SL-003-NBZ-SS-0.0-0.5 | SL-003-NBZ-SB-4.0-5.0 | SL-004-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/09/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 04/11/2012 |
| | | | SDG | 12D084 | 12C096 | 12C096 | 12C096 | 12C096 | 12C096 | 12D106 |
| | | | Start Depth | 0 | 0 | 4 | 7.5 | 0 | 4 | 0 |
| | | | End Depth | 0.5 | 0.5 | 5 | 8.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 8.22 | 7.79 | 8.15 | 8.02 | 7.85 | 8.57 | 7.08 |

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

Appendix A21
pH-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-005-NBZ-SB-4.0-5.0 | SL-006-NBZ-SB-3.0-4.0 | SL-007-NBZ-SB-4.0-5.0 | SL-007-NBZ-SB-9.0-10.0 | SL-008-NBZ-SB-4.0-5.0 | DUP-07-NBZ-QC-041012 | SL-009-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | FD | N |
| | | | Sample Date | 03/13/2012 | 03/13/2012 | 03/12/2012 | 03/12/2012 | 04/18/2012 | 04/10/2012 | 04/10/2012 |
| | | | SDG | 12C106 | 12C106 | 12C096 | 12C096 | 12D166 | 12D092 | 12D092 |
| | | | Start Depth | 4 | 3 | 4 | 9 | 4 | 0 | 0 |
| | | | End Depth | 5 | 4 | 5 | 10 | 5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 6.88 | 6.71 | 6.36 | 6.65 | 6.55 | 7.03 | 7.14 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-010-NBZ-SB-4.0-5.0 | SL-011-NBZ-SS-0.0-0.5 | SL-012-NBZ-SS-0.0-0.5 | SL-012-NBZ-SB-0.5-1.5 | SL-013-NBZ-SS-0.0-0.5 | SL-014-NBZ-SS-0.0-0.5 | SL-015-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/12/2012 | 04/12/2012 | 04/19/2012 | 04/19/2012 | 04/16/2012 | 04/17/2012 | 03/13/2012 |
| | | | SDG | 12C096 | 12D122 | 12D176 | 12D176 | 12D146 | 12D154 | 12C106 |
| | | | Start Depth | 4 | 0 | 0 | 0.5 | 0 | 0 | 0 |
| | | | End Depth | 5 | 0.5 | 0.5 | 1.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 6.71 | 6.73 | 6.64 | 6.29 | 6.92 | 7.52 | 7.33 |

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

Appendix A21
pH-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-016-NBZ-SS-0.0-0.5 | SL-017-NBZ-SS-0.0-0.5 | SL-018-NBZ-SS-0.0-0.5 | SL-019-NBZ-SS-0.0-0.5 | SL-019-NBZ-SB-3.0-4.0 | SL-020-NBZ-SS-0.0-0.5 | SL-020-NBZ-SB-2.5-3.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/20/2012 | 04/19/2012 | 04/20/2012 | 03/13/2012 | 03/13/2012 | 04/04/2012 | 04/04/2012 |
| | | | SDG | 12D192 | 12D176 | 12D192 | 12C106 | 12C106 | 12D031 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 3 | 0 | 2.5 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 4 | 0.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 8.22 | 7.36 | 7.54 | 7.26 | 8.67 | 6.86 | 7.1 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-021-NBZ-SS-0.0-0.5 | SL-021-NBZ-SB-4.0-5.0 | SL-022-NBZ-SS-0.0-0.5 | SL-022-NBZ-SB-4.0-5.0 | SL-022-NBZ-SB-9.0-10.0 | SL-023-NBZ-SS-0.0-0.5 | SL-023-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/13/2012 | 03/13/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 |
| | | | SDG | 12C106 | 12C106 | 12C121 | 12C121 | 12C121 | 12C121 | 12C121 |
| | | | Start Depth | 0 | 4 | 0 | 4 | 9 | 0 | 4 |
| | | | End Depth | 0.5 | 5 | 0.5 | 5 | 10 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 6.99 | 6.71 | 8.06 | 8.05 | 7.94 | 7.43 | 8.23 |

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

Appendix A21
pH-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-023-NBZ-SB-8.5-9.5 | SL-024-NBZ-SS-0.0-0.5 | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 | SL-028-NBZ-SS-0.0-0.5 | SL-029-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 03/14/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 03/15/2012 |
| | | | SDG | 12C121 | 12C121 | 12D004 | 12D004 | 12D004 | 12D004 | 12C135 |
| | | | Start Depth | 8.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 9.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 7.97 | 7.22 | 6.36 | 6.72 | 7.14 | 6.97 | 7.5 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 | SL-034-NBZ-SS-0.0-0.5 | SL-035-NBZ-SS-0.0-0.5 | SL-035-NBZ-SB-2.0-3.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 |
| | | | SDG | 12C121 | 12D018 | 12D018 | 12D018 | 12D018 | 12D018 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 3 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 7.36 | 6.51 | 6.12 | 6.37 | 6.32 | 6.74 | 6.82 |

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

Appendix A21
pH-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-036-NBZ-SB-4.0-5.0 | SL-036-NBZ-SB-7.5-8.5 | SL-037-NBZ-SB-3.0-4.0 | SL-038-NBZ-SS-0.0-0.5 | SL-039-NBZ-SB-2.0-3.0 | SL-040-NBZ-SS-0.0-0.5 | DUP-03-NBZ-QC-032812 |
| | | | Sample Type | N | N | N | N | N | N | FD |
| | | | Sample Date | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 |
| | | | SDG | 12C285 | 12C285 | 12C285 | 12C273 | 12C273 | 12C285 | 12C285 |
| | | | Start Depth | 4 | 7.5 | 3 | 0 | 2 | 0 | 2.5 |
| | | | End Depth | 5 | 8.5 | 4 | 0.5 | 3 | 0.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 7.91 | 7.35 | 6.24 | 7.48 | 7.32 | 7.72 | 8.15 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-040-NBZ-SB-2.5-3.5 | SL-042-NBZ-SS-0.0-0.5 | SL-043-NBZ-SS-0.0-0.5 | SL-044-NBZ-SS-0.0-0.5 | SL-045-NBZ-SS-0.0-0.5 | SL-045-NBZ-SB-4.0-5.0 | SL-046-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/28/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 |
| | | | SDG | 12C285 | 12C261 | 12C261 | 12C305 | 12C261 | 12C261 | 12C261 |
| | | | Start Depth | 2.5 | 0 | 0 | 0 | 0 | 4 | 0 |
| | | | End Depth | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 7.64 | 8.03 | 6.11 | 7.47 | 6.46 | 7.44 | 6.75 |

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

Appendix A21
pH-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-046-NBZ-SB-4.0-5.0 | SL-047-NBZ-SB-4.0-5.0 | SL-048-NBZ-SS-0.0-0.5 | SL-048-NBZ-SB-4.0-5.0 | SL-049-NBZ-SB-2.0-3.0 | SL-050-NBZ-SS-0.0-0.5 | SL-051-NBZ-SB-1.5-2.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/26/2012 | 03/23/2012 |
| | | | SDG | 12C261 | 12C254 | 12C254 | 12C254 | 12C254 | 12C261 | 12C254 |
| | | | Start Depth | 4 | 4 | 0 | 4 | 2 | 0 | 1.5 |
| | | | End Depth | 5 | 5 | 0.5 | 5 | 3 | 0.5 | 2.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 6.74 | 6.18 | 7.78 | 5.9 | 6.02 | 6.83 | 5.71 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-052-NBZ-SS-0.0-0.5 | SL-053-NBZ-SS-0.0-0.5 | SL-053-NBZ-SB-3.5-4.5 | SL-054-NBZ-SS-0.0-0.5 | SL-055-NBZ-SS-0.0-0.5 | SL-056-NBZ-SS-0.0-0.5 | SL-056-NBZ-SB-3.0-4.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/15/2012 | 03/15/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/15/2012 | 03/15/2012 |
| | | | SDG | 12C135 | 12C135 | 12C135 | 12C229 | 12C229 | 12C135 | 12C135 |
| | | | Start Depth | 0 | 0 | 3.5 | 0 | 0 | 0 | 3 |
| | | | End Depth | 0.5 | 0.5 | 4.5 | 0.5 | 0.5 | 0.5 | 4 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 8.2 | 8.06 | 6.96 | 8.1 | 6.59 | 7.78 | 7.1 |

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

Appendix A21
pH-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | DUP-02-NBZ-QC-032312 | SL-057-NBZ-SS-0.0-0.5 | SL-058-NBZ-SB-4.0-5.0 | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 | SL-061-NBZ-SB-1.0-2.0 | SL-062-NBZ-SB-2.5-3.5 |
| | | | Sample Type | FD | N | N | N | N | N | N |
| | | | Sample Date | 03/23/2012 | 03/23/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/22/2012 | 03/21/2012 |
| | | | SDG | 12C254 | 12C254 | 12C135 | 12C229 | 12C229 | 12C229 | 12C209 |
| | | | Start Depth | 0 | 0 | 5 | 0 | 0 | 1 | 2.5 |
| | | | End Depth | 0.5 | 0.5 | 5 | 0.5 | 0.5 | 2 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 6.87 | 6.98 | 6.72 | 6.48 | 7.72 | 6.54 | 7.62 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-063-NBZ-SB-0.5-1.5 | SL-064-NBZ-SB-0.5-1.5 | SL-065-NBZ-SB-1.0-2.0 | SL-066-NBZ-SB-2.0-3.0 | SL-067-NBZ-SB-1.5-2.5 | DUP-01-NBZ-QC-031612 | SL-068-NBZ-SB-2.5-3.5 |
| | | | Sample Type | N | N | N | N | N | FD | N |
| | | | Sample Date | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/16/2012 | 03/16/2012 | 03/16/2012 |
| | | | SDG | 12C209 | 12C209 | 12C209 | 12C209 | 12C156 | 12C156 | 12C156 |
| | | | Start Depth | 0.5 | 0.5 | 1 | 2 | 1.5 | 2.5 | 2.5 |
| | | | End Depth | 1.5 | 1.5 | 2 | 3 | 2.5 | 3.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 6.61 | 6.83 | 6.06 | 6.06 | 6.63 | 6.57 | 6.66 |

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

Appendix A21
pH-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-069-NBZ-SB-3.0-4.0 | SL-070-NBZ-SS-0.0-0.5 | SL-071-NBZ-SB-4.0-5.0 | SL-072-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-9.0-10.0 | SL-074-NBZ-SB-0.5-1.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/20/2012 | 03/20/2012 | 03/19/2012 | 03/16/2012 | 03/19/2012 | 03/19/2012 | 03/19/2012 |
| | | | SDG | 12C182 | 12C182 | 12C164 | 12C156 | 12C164 | 12C164 | 12C164 |
| | | | Start Depth | 3 | 0 | 4 | 4 | 4 | 9 | 0.5 |
| | | | End Depth | 4 | 0.5 | 5 | 5 | 5 | 10 | 1.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 6.99 | 7.6 | 7.12 | 5.99 | 6.55 | 6.68 | 6.53 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-075-NBZ-SS-0.0-0.5 | SL-076-NBZ-SS-0.0-0.5 | SL-077-NBZ-SS-0.0-0.5 | SL-077-NBZ-SB-2.5-3.5 | SL-078-NBZ-SS-0.0-0.5 | SL-079-NBZ-SS-0.0-0.5 | SL-080-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/27/2012 | 03/30/2012 | 04/20/2012 |
| | | | SDG | 12C182 | 12C182 | 12C182 | 12C182 | 12C273 | 12C321 | 12D192 |
| | | | Start Depth | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 3.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 7.05 | 7.26 | 6.85 | 5.93 | 6.66 | 7.15 | 7.02 |

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

Appendix A21
pH-Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-081-NBZ-SS-0.0-0.5 | SL-082-NBZ-SS-0.0-0.5 | SL-082-NBZ-SB-2.5-3.5 | SL-083-NBZ-SS-0.0-0.5 | SL-084-NBZ-SS-0.0-0.5 | SL-085-NBZ-SS-0.0-0.5 | SL-086-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/18/2012 | 04/18/2012 | 04/18/2012 | 04/18/2012 | 04/10/2012 | 04/10/2012 | 04/19/2012 |
| | | | SDG | 12D166 | 12D166 | 12D166 | 12D166 | 12D092 | 12D092 | 12D176 |
| | | | Start Depth | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 6.5 | 6.52 | 6.72 | 6.95 | 6.56 | 7.4 | 6.67 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-087-NBZ-SS-0.0-0.5 | SL-088-NBZ-SS-0.0-0.5 | SL-089-NBZ-SS-0.0-0.5 | SL-090-NBZ-SS-0.0-0.5 | SL-091-NBZ-SS-0.0-0.5 | SL-091-NBZ-SB-4.0-5.0 | DUP-05-NBZ-QC-032912 |
| | | | Sample Type | N | N | N | N | N | N | FD |
| | | | Sample Date | 04/19/2012 | 04/17/2012 | 04/20/2012 | 04/17/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 |
| | | | SDG | 12D176 | 12D154 | 12D192 | 12D154 | 12C305 | 12C305 | 12C305 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 7.24 | 7.27 | 7.15 | 7.58 | 7.54 | 7.43 | 7.24 |

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

Appendix A21
pH-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-092-NBZ-SS-0.0-0.5 | SL-094-NBZ-SS-0.0-0.5 | SL-095-NBZ-SS-0.0-0.5 | SL-096-NBZ-SS-0.0-0.5 | SL-097-NBZ-SS-0.0-0.5 | SL-099-NBZ-SS-0.0-0.5 | SL-100-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/29/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 | 04/04/2012 | 04/04/2012 | 04/04/2012 |
| | | | SDG | 12C305 | 12C285 | 12C273 | 12C285 | 12D031 | 12D031 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 7.38 | 6.49 | 6.57 | 6.66 | 7.27 | 6.52 | 6.45 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-101-NBZ-SS-0.0-0.5 | SL-102-NBZ-SS-0.0-0.5 | SL-103-NBZ-SS-0.0-0.5 | SL-104-NBZ-SS-0.0-0.5 | SL-105-NBZ-SS-0.0-0.5 | SL-107-NBZ-SS-0.0-0.5 | SL-108-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/29/2012 | 03/27/2012 | 03/29/2012 | 04/04/2012 | 03/21/2012 | 04/02/2012 | 04/03/2012 |
| | | | SDG | 12C305 | 12C273 | 12C305 | 12D031 | 12C209 | 12D004 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 6.8 | 6.27 | 7 | 6.22 | 6.67 | 6.76 | 6.5 |

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

Appendix A21
pH-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-109-NBZ-SS-0.0-0.5 | SL-110-NBZ-SS-0.0-0.5 | SL-111-NBZ-SS-0.0-0.5 | SL-112-NBZ-SS-0.0-0.5 | SL-113-NBZ-SS-0.0-0.5 | SL-114-NBZ-SS-0.0-0.5 | SL-115-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/27/2012 | 04/04/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/04/2012 | 04/03/2012 |
| | | | SDG | 12C273 | 12D031 | 12D004 | 12D004 | 12D004 | 12D031 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 7.56 | 6.34 | 6.31 | 6.33 | 6.64 | 6.31 | 6.75 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-116-NBZ-SS-0.0-0.5 | DUP-04-NBZ-QC-032912 | SL-118-NBZ-SS-0.0-0.5 | SL-119-NBZ-SS-0.0-0.5 | SL-120-NBZ-SS-0.0-0.5 | SL-121-NBZ-SS-0.0-0.5 | SL-122-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | FD | N | N | N | N | N |
| | | | Sample Date | 03/22/2012 | 03/29/2012 | 03/29/2012 | 03/27/2012 | 04/04/2012 | 03/30/2012 | 04/03/2012 |
| | | | SDG | 12C229 | 12C305 | 12C305 | 12C273 | 12D031 | 12C321 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 6.08 | 6.91 | 6.83 | 6.42 | 6.3 | 6.79 | 6.65 |

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

Appendix A21
pH-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-123-NBZ-SS-0.0-0.5 | SL-124-NBZ-SS-0.0-0.5 | SL-126-NBZ-SS-0.0-0.5 | SL-127-NBZ-SS-0.0-0.5 | SL-129-NBZ-SS-0.0-0.5 | SL-130-NBZ-SS-0.0-0.5 | SL-131-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/26/2012 | 03/26/2012 | 04/03/2012 | 03/27/2012 | 03/27/2012 | 03/29/2012 |
| | | | SDG | 12C261 | 12C261 | 12C261 | 12D018 | 12C273 | 12C273 | 12C305 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 6.62 | 6.38 | 6.95 | 6.98 | 7.54 | 6.47 | 6.49 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-133-NBZ-SS-0.0-0.5 | SL-134-NBZ-SS-0.0-0.5 | SL-135-NBZ-SS-0.0-0.5 | SL-136-NBZ-SS-0.0-0.5 | SL-138-NBZ-SS-0.0-0.5 | SL-139-NBZ-SS-0.0-0.5 | SL-140-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/30/2012 | 03/28/2012 | 03/28/2012 | 04/02/2012 | 03/28/2012 | 04/03/2012 |
| | | | SDG | 12C261 | 12C321 | 12C285 | 12C285 | 12D004 | 12C285 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 7.65 | 6.7 | 6.56 | 6.28 | 6.56 | 6.75 | 5.64 |

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

Appendix A21
pH-Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-141-NBZ-SS-0.0-0.5 | SL-143-NBZ-SS-0.0-0.5 | SL-144-NBZ-SS-0.0-0.5 | SL-145-NBZ-SS-0.0-0.5 | SL-146-NBZ-SS-0.0-0.5 | SL-147-NBZ-SS-0.0-0.5 | SL-148-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/28/2012 | 03/28/2012 | 04/12/2012 | 04/11/2012 | 04/18/2012 | 04/17/2012 | 04/11/2012 |
| | | | SDG | 12C285 | 12C285 | 12D122 | 12D106 | 12D166 | 12D154 | 12D106 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 6.27 | 6.35 | 6.73 | 7.3 | 7.19 | 7.63 | 7.17 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-149-NBZ-SS-0.0-0.5 | SL-150-NBZ-SS-0.0-0.5 | SL-151-NBZ-SS-0.0-0.5 | SL-152-NBZ-SS-0.0-0.5 | SL-154-NBZ-SS-0.0-0.5 | SL-155-NBZ-SS-0.0-0.5 | SL-156-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/05/2012 | 04/19/2012 | 04/09/2012 | 04/12/2012 | 04/11/2012 | 04/04/2012 | 04/17/2012 |
| | | | SDG | 12D048 | 12D176 | 12D084 | 12D122 | 12D106 | 12D031 | 12D154 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 6.55 | 5.87 | 7.64 | 5.88 | 6.11 | 6.75 | 6.9 |

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

Appendix A21
pH-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-157-NBZ-SS-0.0-0.5 | SL-158-NBZ-SS-0.0-0.5 | SL-159-NBZ-SS-0.0-0.5 | DUP-10-NBZ-QC-041612 | SL-160-NBZ-SS-0.0-0.5 | SL-161-NBZ-SS-0.0-0.5 | SL-162-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | FD | N | N | N |
| | | | Sample Date | 04/09/2012 | 04/12/2012 | 04/16/2012 | 04/16/2012 | 04/16/2012 | 04/17/2012 | 04/17/2012 |
| | | | SDG | 12D084 | 12D122 | 12D146 | 12D166 | 12D146 | 12D154 | 12D154 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 6.42 | 7.28 | 6.12 | 6.25 | 6.36 | 5.95 | 6.53 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-163-NBZ-SS-0.0-0.5 | SL-164-NBZ-SS-0.0-0.5 | SL-165-NBZ-SS-0.0-0.5 | SL-166-NBZ-SS-0.0-0.5 | SL-167-NBZ-SS-0.0-0.5 | SL-168-NBZ-SS-0.0-0.5 | SL-169-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/11/2012 | 04/16/2012 | 04/05/2012 | 04/17/2012 | 04/09/2012 | 04/11/2012 | 04/03/2012 |
| | | | SDG | 12D106 | 12D146 | 12D048 | 12D154 | 12D084 | 12D106 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 7.93 | 6.24 | 6.86 | 7.2 | 6.14 | 6.5 | 6.7 |

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

Appendix A21
pH-Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-170-NBZ-SS-0.0-0.5 | SL-171-NBZ-SS-0.0-0.5 | SL-172-NBZ-SS-0.0-0.5 | DUP-08-NBZ-QC-041612 | SL-173-NBZ-SS-0.0-0.5 | SL-174-NBZ-SS-0.0-0.5 | SL-175-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | FD | N | N | N |
| | | | Sample Date | 04/20/2012 | 04/20/2012 | 04/12/2012 | 04/16/2012 | 04/16/2012 | 04/09/2012 | 04/05/2012 |
| | | | SDG | 12D192 | 12D192 | 12D122 | 12D146 | 12D146 | 12D084 | 12D048 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 6.09 | 5.95 | 7.17 | 6.55 | 6.82 | 6.64 | 6.22 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-176-NBZ-SS-0.0-0.5 | SL-177-NBZ-SS-0.0-0.5 | SL-178-NBZ-SS-0.0-0.5 | SL-179-NBZ-SS-0.0-0.5 | SL-180-NBZ-SS-0.0-0.5 | SL-181-NBZ-SS-0.0-0.5 | SL-182-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/11/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 | 04/13/2012 | 04/04/2012 | 04/11/2012 |
| | | | SDG | 12D106 | 12D092 | 12D176 | 12D176 | 12D135 | 12D031 | 12D106 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 7.98 | 6.34 | 5.1 | 7 | 6.12 | 6.76 | 6.95 |

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

Appendix A21
pH-Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-183-NBZ-SS-0.0-0.5 | SL-184-NBZ-SS-0.0-0.5 | SL-185-NBZ-SS-0.0-0.5 | SL-186-NBZ-SS-0.0-0.5 | SL-187-NBZ-SS-0.0-0.5 | SL-188-NBZ-SS-0.0-0.5 | SL-189-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/13/2012 | 04/19/2012 | 04/09/2012 | 04/10/2012 | 04/04/2012 | 04/10/2012 | 04/18/2012 |
| | | | SDG | 12D135 | 12D176 | 12D084 | 12D092 | 12D031 | 12D092 | 12D166 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 6.92 | 6.6 | 6.72 | 6.95 | 6.28 | 6.92 | 6.71 |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-190-NBZ-SS-0.0-0.5 | DUP-06-NBZ-QC-040912 | SL-191-NBZ-SS-0.0-0.5 | DUP-09-NBZ-QC-041912 | SL-193-NBZ-SS-0.0-0.5 | SL-194-NBZ-SS-0.0-0.5 | SL-195-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | FD | N | FD | N | N | N |
| | | | Sample Date | 04/05/2012 | 04/09/2012 | 04/09/2012 | 04/19/2012 | 04/19/2012 | 04/02/2012 | 03/26/2012 |
| | | | SDG | 12D048 | 12D084 | 12D084 | 12D176 | 12D176 | 12D004 | 12C261 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 6.81 | 6.75 | 6.77 | 6.42 | 6.24 | 6.69 | 6.67 |

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

Appendix A21
pH-Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-196-NBZ-SS-0.0-0.5 | SL-197-NBZ-SS-0.0-0.5 | SL-198-NBZ-SS-0.0-0.5 | SL-199-NBZ-SS-0.0-0.5 | SL-200-NBZ-SS-0.0-0.5 | SL-201-NBZ-SS-0.0-0.5 | SL-202-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/29/2012 | 04/03/2012 | 04/23/2012 | 04/23/2012 | 04/23/2012 | 04/20/2012 |
| | | | SDG | 12C261 | 12C305 | 12D018 | 12D197 | 12D197 | 12D197 | 12D192 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 9045D | pH | pH | pH | 6.65 | 7.34 | 6.52 | 6.66 | 6.48 | 7.34 | 8.13 |

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

| | | Sample Name | SL-001-NBZ-SS-0.0-0.5 | SL-002-NBZ-SS-0.0-0.5 | SL-002-NBZ-SB-4.0-5.0 | SL-002-NBZ-SB-7.5-8.5 | SL-003-NBZ-SS-0.0-0.5 | SL-003-NBZ-SB-4.0-5.0 | SL-004-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | Sample Type | N | N | N | N | N | N | N |
| | | Sample Date | 04/09/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 04/11/2012 |
| | | SDG | 12D084 | 12C096 | 12C096 | 12C096 | 12C096 | 12C096 | 12D106 |
| | | Start Depth | 0 | 0 | 4 | 7.5 | 0 | 4 | 0 |
| | | End Depth | 0.5 | 0.5 | 5 | 8.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 380 U | 340 US | 360 U | 360 U | 350 US | 350 U | 410 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 380 U | 340 US | 360 U | 360 U | 350 US | 350 U | 410 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 380 U | 340 US | 360 U | 360 U | 350 US | 350 U | 410 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 380 U | 340 US | 360 U | 360 U | 350 US | 350 U | 410 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 750 U | 690 US | 720 U | 720 U | 700 US | 710 U | 820 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 380 U | 340 US | 360 U | 360 U | 350 US | 350 U | 410 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 940 U | 860 US | 900 U | 900 U | 870 US | 880 U | 1000 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 190 U | 170 US | 180 U | 180 U | 170 US | 180 U | 200 U |

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

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-005-NBZ-SB-4.0-5.0 | SL-006-NBZ-SB-3.0-4.0 | SL-007-NBZ-SB-4.0-5.0 | SL-007-NBZ-SB-9.0-10.0 | SL-008-NBZ-SB-4.0-5.0 | DUP-07-NBZ-QC-041012 | SL-009-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | FD | N |
| | | | Sample Date | 03/13/2012 | 03/13/2012 | 03/12/2012 | 03/12/2012 | 04/18/2012 | 04/10/2012 | 04/10/2012 |
| | | | SDG | 12C106 | 12C106 | 12C096 | 12C096 | 12D166 | 12D092 | 12D092 |
| | | | Start Depth | 4 | 3 | 4 | 9 | 4 | 0 | 0 |
| | | | End Depth | 5 | 4 | 5 | 10 | 5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 370 U | 350 U | 360 U | 360 U | 350 U | 380 U | 390 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 370 U | 350 U | 360 U | 360 U | 350 U | 380 U | 390 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 370 U | 350 U | 360 U | 360 U | 350 U | 380 U | 390 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 370 U | 350 U | 360 U | 360 U | 350 UJ E | 380 U | 390 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 740 U | 710 U | 730 U | 730 U | 700 U | 770 U | 770 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 UJ E | 190 U | 190 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 370 U | 350 U | 360 U | 360 U | 350 U | 380 U | 390 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 UJ L | 190 U | 190 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 920 U | 880 U | 900 U | 910 U | 880 U | 950 U | 960 R Q |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 190 U | 190 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-010-NBZ-SB-4.0-5.0 | SL-011-NBZ-SS-0.0-0.5 | SL-012-NBZ-SS-0.0-0.5 | SL-012-NBZ-SB-0.5-1.5 | SL-013-NBZ-SS-0.0-0.5 | SL-014-NBZ-SS-0.0-0.5 | SL-015-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/12/2012 | 04/12/2012 | 04/19/2012 | 04/19/2012 | 04/16/2012 | 04/17/2012 | 03/13/2012 |
| | | | SDG | 12C096 | 12D122 | 12D176 | 12D176 | 12D146 | 12D154 | 12C106 |
| | | | Start Depth | 4 | 0 | 0 | 0.5 | 0 | 0 | 0 |
| | | | End Depth | 5 | 0.5 | 0.5 | 1.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 360 U | 380 U | 390 U | 400 U | 490 U | 420 U | 340 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 360 U | 380 U | 390 U | 400 U | 490 U | 420 U | 340 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 360 U | 380 U | 390 U | 400 U | 490 U | 420 U | 340 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 360 U | 380 U | 390 U | 400 U | 490 UJ E | 420 U | 340 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 720 U | 760 U | 780 U | 800 U | 990 U | 840 U | 680 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 UJ E | 210 U | 170 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 360 U | 380 U | 390 U | 400 U | 490 U | 420 U | 340 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 UJ L | 210 U | 170 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 900 U | 940 U | 970 U | 990 U | 1200 U | 1000 U | 840 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 180 U | 190 U | 190 U | 200 U | 250 U | 210 U | 170 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-016-NBZ-SS-0.0-0.5 | SL-017-NBZ-SS-0.0-0.5 | SL-018-NBZ-SS-0.0-0.5 | SL-019-NBZ-SS-0.0-0.5 | SL-019-NBZ-SB-3.0-4.0 | SL-020-NBZ-SS-0.0-0.5 | SL-020-NBZ-SB-2.5-3.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/20/2012 | 04/19/2012 | 04/20/2012 | 03/13/2012 | 03/13/2012 | 04/04/2012 | 04/04/2012 |
| | | | SDG | 12D192 | 12D176 | 12D192 | 12C106 | 12C106 | 12D031 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 3 | 0 | 2.5 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 4 | 0.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 420 U | 470 U | 400 U | 340 U | 350 U | 370 U | 380 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 210 U | 240 UJ *# | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 210 U | 240 UJ *# | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 210 U | 240 UJ *# | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 420 U | 470 U | 400 U | 340 U | 350 U | 370 U | 380 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 420 U | 470 U | 400 U | 340 U | 350 U | 370 U | 380 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 420 U | 470 U | 400 U | 340 U | 350 U | 370 U | 380 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 840 U | 950 U | 810 U | 690 U | 710 U | 740 U | 760 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 420 U | 470 U | 400 U | 340 U | 350 U | 370 U | 380 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 1000 U | 1200 U | 1000 U | 860 U | 880 U | 920 U | 940 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 210 U | 240 U | 200 U | 170 U | 180 U | 180 U | 190 U |

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

| | | Sample Name | SL-021-NBZ-SS-0.0-0.5 | SL-021-NBZ-SB-4.0-5.0 | SL-022-NBZ-SS-0.0-0.5 | SL-022-NBZ-SB-4.0-5.0 | SL-022-NBZ-SB-9.0-10.0 | SL-023-NBZ-SS-0.0-0.5 | SL-023-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|
| | | Sample Type | N | N | N | N | N | N | N |
| | | Sample Date | 03/13/2012 | 03/13/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 |
| | | SDG | 12C106 | 12C106 | 12C121 | 12C121 | 12C121 | 12C121 | 12C121 |
| | | Start Depth | 0 | 4 | 0 | 4 | 9 | 0 | 4 |
| | | End Depth | 0.5 | 5 | 0.5 | 5 | 10 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 340 U | 350 U | 350 U | 350 U | 350 U | 340 U | 340 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 340 U | 350 U | 350 U | 350 U | 350 U | 340 U | 340 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 340 U | 350 U | 350 U | 350 U | 350 U | 340 U | 340 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 340 U | 350 U | 350 U | 350 U | 350 U | 340 U | 340 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 690 U | 690 U | 700 U | 690 U | 700 U | 690 U | 690 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 340 U | 350 U | 350 U | 350 U | 350 U | 340 U | 340 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 850 U | 860 U | 870 U | 860 U | 870 U | 860 U | 860 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 170 U | 170 U | 170 U | 170 U | 180 U | 170 U | 170 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-023-NBZ-SB-8.5-9.5 | SL-024-NBZ-SS-0.0-0.5 | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 | SL-028-NBZ-SS-0.0-0.5 | SL-029-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 03/14/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 03/15/2012 |
| | | | SDG | 12C121 | 12C121 | 12D004 | 12D004 | 12D004 | 12D004 | 12C135 |
| | | | Start Depth | 8.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 9.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 350 U | 340 U | 360 U | 360 U | 390 U | 370 U | 340 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 350 U | 340 U | 360 U | 360 U | 390 U | 370 U | 340 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 350 U | 340 U | 360 U | 360 U | 390 U | 370 U | 340 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 350 U | 340 U | 360 U | 360 U | 390 U | 370 U | 340 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 700 U | 690 U | 730 U | 720 U | 780 U | 730 U | 690 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 350 U | 340 U | 360 U | 360 U | 390 U | 370 U | 340 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 880 U | 860 U | 900 U | 890 R Q | 970 U | 910 U | 860 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 180 U | 170 U | 180 U | 180 U | 190 U | 180 U | 170 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 | SL-034-NBZ-SS-0.0-0.5 | SL-035-NBZ-SS-0.0-0.5 | SL-035-NBZ-SB-2.0-3.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 |
| | | | SDG | 12C121 | 12D018 | 12D018 | 12D018 | 12D018 | 12D018 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 3 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 340 U | 360 U | 380 U | 370 U | 400 U | 380 U | 350 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 340 U | 360 U | 380 U | 370 U | 400 U | 380 U | 350 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 340 U | 360 U | 380 U | 370 U | 400 U | 380 U | 350 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 340 U | 360 U | 380 U | 370 U | 400 U | 380 U | 350 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 680 U | 720 U | 760 U | 730 U | 800 U | 760 U | 700 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 340 U | 360 U | 380 U | 370 U | 400 U | 380 U | 350 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 850 U | 900 UJ Q | 940 U | 910 U | 990 U | 940 U | 870 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 170 U | 180 U | 190 U | 180 U | 200 U | 190 U | 180 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-036-NBZ-SB-4.0-5.0 | SL-036-NBZ-SB-7.5-8.5 | SL-037-NBZ-SB-3.0-4.0 | SL-038-NBZ-SS-0.0-0.5 | SL-039-NBZ-SB-2.0-3.0 | SL-040-NBZ-SS-0.0-0.5 | DUP-03-NBZ-QC-032812 |
| | | | Sample Type | N | N | N | N | N | N | FD |
| | | | Sample Date | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 |
| | | | SDG | 12C285 | 12C285 | 12C285 | 12C273 | 12C273 | 12C285 | 12C285 |
| | | | Start Depth | 4 | 7.5 | 3 | 0 | 2 | 0 | 2.5 |
| | | | End Depth | 5 | 8.5 | 4 | 0.5 | 3 | 0.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 380 U | 440 U | 370 U | 400 U | 380 U | 370 U | 350 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 380 U | 440 U | 370 U | 400 U | 380 U | 370 U | 350 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 380 U | 440 U | 370 U | 400 U | 380 U | 370 U | 350 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 380 U | 440 U | 370 U | 400 U | 380 U | 370 U | 350 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 760 U | 870 U | 740 U | 800 U | 760 U | 750 U | 710 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 380 U | 440 U | 370 U | 400 U | 380 U | 370 U | 350 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 190 UJ E | 220 UJ E | 190 UJ E | 200 U | 190 U | 190 UJ E | 180 UJ E |
| 8270C | 92-87-5 | Benzidine | µg/kg | 940 U | 1100 U | 920 U | 1000 U | 950 U | 930 U | 880 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 190 U | 220 U | 190 U | 200 U | 190 U | 190 U | 180 U |

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

| | | | | Sample Name | SL-040-NBZ-SB-2.5-3.5 | SL-042-NBZ-SS-0.0-0.5 | SL-043-NBZ-SS-0.0-0.5 | SL-044-NBZ-SS-0.0-0.5 | SL-045-NBZ-SS-0.0-0.5 | SL-045-NBZ-SB-4.0-5.0 | SL-046-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 03/28/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 |
| | | | | SDG | 12C285 | 12C261 | 12C261 | 12C305 | 12C261 | 12C261 | 12C261 |
| | | | | Start Depth | 2.5 | 0 | 0 | 0 | 0 | 4 | 0 |
| | | | | End Depth | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 350 U | 780 U | 370 U | 1700 U | 720 U | 350 U | 780 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 350 U | 780 U | 370 U | 1700 U | 720 U | 350 U | 780 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 350 U | 780 U | 370 U | 1700 U | 720 U | 350 U | 780 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 170 UJ Q | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 350 U | 780 U | 370 U | 1700 U | 720 U | 350 U | 780 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 700 U | 1600 U | 740 U | 3500 U | 1400 U | 700 U | 1600 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 170 UJ Q | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 350 U | 780 U | 370 U | 1700 U | 720 U | 350 U | 780 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 170 UJ E | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 870 U | 1900 U | 930 U | 4300 U | 1800 U | 870 U | 2000 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 170 U | 390 U | 190 U | 870 U | 360 U | 180 U | 390 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-046-NBZ-SB-4.0-5.0 | SL-047-NBZ-SB-4.0-5.0 | SL-048-NBZ-SS-0.0-0.5 | SL-048-NBZ-SB-4.0-5.0 | SL-049-NBZ-SB-2.0-3.0 | SL-050-NBZ-SS-0.0-0.5 | SL-051-NBZ-SB-1.5-2.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/26/2012 | 03/23/2012 |
| | | | SDG | 12C261 | 12C254 | 12C254 | 12C254 | 12C254 | 12C261 | 12C254 |
| | | | Start Depth | 4 | 4 | 0 | 4 | 2 | 0 | 1.5 |
| | | | End Depth | 5 | 5 | 0.5 | 5 | 3 | 0.5 | 2.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 350 U | 350 U | 380 U | 350 U | 350 U | 360 U | 350 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 350 U | 350 U | 380 U | 350 U | 350 U | 360 U | 350 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 350 U | 350 U | 380 U | 350 U | 350 U | 360 U | 350 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 350 U | 350 U | 380 U | 350 U | 350 U | 360 U | 350 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 710 U | 700 U | 760 U | 700 U | 690 U | 730 U | 690 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 180 U | 170 U | 190 U | 110 J Z | 170 U | 180 U | 170 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 350 U | 350 U | 380 U | 350 U | 350 U | 360 U | 350 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 880 U | 870 U | 940 U | 870 U | 860 U | 910 U | 860 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 180 U | 170 U | 190 U | 170 U | 170 U | 180 U | 170 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-052-NBZ-SS-0.0-0.5 | SL-053-NBZ-SS-0.0-0.5 | SL-053-NBZ-SB-3.5-4.5 | SL-054-NBZ-SS-0.0-0.5 | SL-055-NBZ-SS-0.0-0.5 | SL-056-NBZ-SS-0.0-0.5 | SL-056-NBZ-SB-3.0-4.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/15/2012 | 03/15/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/15/2012 | 03/15/2012 |
| | | | SDG | 12C135 | 12C135 | 12C135 | 12C229 | 12C229 | 12C135 | 12C135 |
| | | | Start Depth | 0 | 0 | 3.5 | 0 | 0 | 0 | 3 |
| | | | End Depth | 0.5 | 0.5 | 4.5 | 0.5 | 0.5 | 0.5 | 4 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 340 U | 340 U | 350 U | 360 U | 370 U | 340 U | 350 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 340 U | 340 U | 350 U | 360 U | 370 U | 340 U | 350 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 340 U | 340 U | 350 U | 360 U | 370 U | 340 U | 350 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 340 U | 340 U | 350 U | 360 U | 370 U | 340 U | 350 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 680 U | 680 U | 690 U | 720 U | 740 U | 690 U | 700 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 340 U | 340 U | 350 U | 360 U | 370 U | 340 U | 350 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 850 U | 850 U | 860 U | 900 U | 920 U | 850 U | 870 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 170 U | 170 U | 170 U | 180 U | 180 U | 170 U | 170 U |

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

| | | | | Sample Name | DUP-02-NBZ-QC-032312 | SL-057-NBZ-SS-0.0-0.5 | SL-058-NBZ-SB-4.0-5.0 | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 | SL-061-NBZ-SB-1.0-2.0 | SL-062-NBZ-SB-2.5-3.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | FD | N | N | N | N | N | N |
| | | | | Sample Date | 03/23/2012 | 03/23/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/22/2012 | 03/21/2012 |
| | | | | SDG | 12C254 | 12C254 | 12C135 | 12C229 | 12C229 | 12C229 | 12C209 |
| | | | | Start Depth | 0 | 0 | 5 | 0 | 0 | 1 | 2.5 |
| | | | | End Depth | 0.5 | 0.5 | 5 | 0.5 | | 2 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 360 U | 360 U | 350 U | 360 U | 350 U | 350 U | 350 U | 340 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 360 U | 360 U | 350 U | 360 U | 350 U | 350 U | 350 U | 340 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 360 U | 360 U | 350 U | 360 U | 350 U | 350 U | 350 U | 340 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 360 U | 360 U | 350 U | 360 U | 350 U | 350 U | 350 U | 340 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 710 U | 720 U | 700 U | 730 U | 710 U | 700 U | 700 U | 690 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 360 U | 360 U | 350 U | 360 U | 350 U | 350 U | 350 U | 340 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 890 U | 900 R Q | 880 U | 900 U | 880 U | 870 U | 860 U | |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 180 U | 170 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-063-NBZ-SB-0.5-1.5 | SL-064-NBZ-SB-0.5-1.5 | SL-065-NBZ-SB-1.0-2.0 | SL-066-NBZ-SB-2.0-3.0 | SL-067-NBZ-SB-1.5-2.5 | DUP-01-NBZ-QC-031612 | SL-068-NBZ-SB-2.5-3.5 |
| | | | Sample Type | N | N | N | N | N | FD | N |
| | | | Sample Date | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/16/2012 | 03/16/2012 | 03/16/2012 |
| | | | SDG | 12C209 | 12C209 | 12C209 | 12C209 | 12C156 | 12C156 | 12C156 |
| | | | Start Depth | 0.5 | 0.5 | 1 | 2 | 1.5 | 2.5 | 2.5 |
| | | | End Depth | 1.5 | 1.5 | 2 | 3 | 2.5 | 3.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 380 U | 350 U | 360 U | 340 U | 360 U | 370 U | 370 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 380 U | 350 U | 360 U | 340 U | 360 U | 370 U | 370 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 380 U | 350 U | 360 U | 340 U | 360 U | 370 U | 370 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 UJ Q |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 380 U | 350 U | 360 U | 340 U | 360 U | 370 U | 370 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 760 U | 700 U | 720 U | 690 U | 720 U | 740 U | 730 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 190 U | 180 U | 180 U | 170 R Q | 180 U | 180 U | 180 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 380 U | 350 U | 360 U | 340 U | 360 U | 370 U | 370 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 950 U | 870 U | 900 U | 860 R Q | 900 U | 920 U | 910 R Q |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 UJ Q |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 190 U | 180 U | 180 U | 170 U | 180 U | 180 U | 180 U |

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

| | | | | Sample Name | SL-069-NBZ-SB-3.0-4.0 | SL-070-NBZ-SS-0.0-0.5 | SL-071-NBZ-SB-4.0-5.0 | SL-072-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-9.0-10.0 | SL-074-NBZ-SB-0.5-1.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 03/20/2012 | 03/20/2012 | 03/19/2012 | 03/16/2012 | 03/19/2012 | 03/19/2012 | 03/19/2012 |
| | | | | SDG | 12C182 | 12C182 | 12C164 | 12C156 | 12C164 | 12C164 | 12C164 |
| | | | | Start Depth | 3 | 0 | 4 | 4 | 4 | 9 | 0.5 |
| | | | | End Depth | 4 | 0.5 | 5 | 5 | 5 | 10 | 1.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 350 U | 380 U | 350 U | 370 U | 360 U | 370 U | 350 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 350 U | 380 U | 350 U | 370 U | 360 U | 370 U | 350 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 350 U | 380 U | 350 U | 370 U | 360 U | 370 U | 350 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 350 U | 380 U | 350 U | 370 U | 360 U | 370 U | 350 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 700 U | 760 U | 700 U | 750 U | 720 U | 730 U | 690 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 350 U | 380 U | 350 U | 370 U | 360 U | 370 U | 350 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 870 U | 950 U | 870 U | 930 U | 900 U | 910 U | 860 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 180 U | 190 U | 170 U | 190 U | 180 U | 180 U | 170 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-075-NBZ-SS-0.0-0.5 | SL-076-NBZ-SS-0.0-0.5 | SL-077-NBZ-SS-0.0-0.5 | SL-077-NBZ-SB-2.5-3.5 | SL-078-NBZ-SS-0.0-0.5 | SL-079-NBZ-SS-0.0-0.5 | SL-080-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 | 03/27/2012 | 03/30/2012 | 04/20/2012 |
| | | | SDG | 12C182 | 12C182 | 12C182 | 12C182 | 12C273 | 12C321 | 12D192 |
| | | | Start Depth | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 3.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 370 U | 380 U | 390 U | 350 U | 380 U | 390 U | 390 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 370 U | 380 U | 390 U | 350 U | 380 U | 390 U | 390 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 370 U | 380 U | 390 U | 350 U | 380 U | 390 U | 390 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 370 U | 380 U | 390 U | 350 U | 380 U | 390 U | 390 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 730 U | 760 U | 780 U | 710 U | 750 U | 770 U | 780 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 370 U | 380 U | 390 U | 350 U | 380 U | 390 U | 390 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 910 U | 950 U | 970 U | 880 U | 940 U | 960 U | 970 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 180 U | 190 U | 190 U | 180 U | 190 U | 190 U | 190 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-081-NBZ-SS-0.0-0.5 | SL-082-NBZ-SS-0.0-0.5 | SL-082-NBZ-SB-2.5-3.5 | SL-083-NBZ-SS-0.0-0.5 | SL-084-NBZ-SS-0.0-0.5 | SL-085-NBZ-SS-0.0-0.5 | SL-086-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/18/2012 | 04/18/2012 | 04/18/2012 | 04/18/2012 | 04/10/2012 | 04/10/2012 | 04/19/2012 |
| | | | SDG | 12D166 | 12D166 | 12D166 | 12D166 | 12D092 | 12D092 | 12D176 |
| | | | Start Depth | 0 | 0 | 2.5 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 400 U | 380 U | 380 U | 380 U | 390 U | 390 U | 430 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 UJ *# |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 UJ *# |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 UJ *# |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 400 U | 380 U | 380 U | 380 U | 390 U | 390 U | 430 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 400 U | 380 U | 380 U | 380 U | 390 U | 390 U | 430 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 400 UJ E | 380 UJ E | 380 UJ E | 380 UJ E | 390 U | 390 U | 430 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 790 U | 760 U | 760 U | 760 U | 780 U | 790 U | 860 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 200 UJ E | 190 UJ E | 190 UJ E | 190 UJ E | 200 U | 200 U | 220 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 400 U | 380 U | 380 U | 380 U | 390 U | 390 U | 430 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 200 UJ L | 190 UJ L | 190 UJ L | 190 UJ L | 200 U | 200 U | 220 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 990 U | 950 U | 940 U | 950 U | 970 U | 980 U | 1100 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 200 U | 190 U | 190 U | 190 U | 200 U | 200 U | 220 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-087-NBZ-SS-0.0-0.5 | SL-088-NBZ-SS-0.0-0.5 | SL-089-NBZ-SS-0.0-0.5 | SL-090-NBZ-SS-0.0-0.5 | SL-091-NBZ-SS-0.0-0.5 | SL-091-NBZ-SB-4.0-5.0 | DUP-05-NBZ-QC-032912 |
| | | | Sample Type | N | N | N | N | N | N | FD |
| | | | Sample Date | 04/19/2012 | 04/17/2012 | 04/20/2012 | 04/17/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 |
| | | | SDG | 12D176 | 12D154 | 12D192 | 12D154 | 12C305 | 12C305 | 12C305 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 420 U | 440 U | 380 U | 390 U | 400 U | 410 U | 400 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 210 UJ *# | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 210 UJ *# | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 210 UJ *# | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 420 U | 440 U | 380 U | 390 U | 400 U | 410 U | 400 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 420 U | 440 U | 380 U | 390 U | 400 U | 410 U | 400 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 420 U | 440 U | 380 U | 390 U | 400 U | 410 U | 400 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 840 U | 870 U | 750 U | 770 U | 810 U | 820 U | 790 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 420 U | 440 U | 380 U | 390 U | 400 U | 410 U | 400 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 1000 U | 1100 U | 940 U | 960 U | 1000 U | 1000 U | 990 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 210 U | 220 U | 190 U | 190 U | 200 U | 210 U | 200 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-092-NBZ-SS-0.0-0.5 | SL-094-NBZ-SS-0.0-0.5 | SL-095-NBZ-SS-0.0-0.5 | SL-096-NBZ-SS-0.0-0.5 | SL-097-NBZ-SS-0.0-0.5 | SL-099-NBZ-SS-0.0-0.5 | SL-100-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/29/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 | 04/04/2012 | 04/04/2012 | 04/04/2012 |
| | | | SDG | 12C305 | 12C285 | 12C273 | 12C285 | 12D031 | 12D031 | 12D031 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 390 U | 380 U | 380 U | 390 U | 360 U | 360 U | 360 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 390 U | 380 U | 380 U | 390 U | 360 U | 360 U | 360 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 390 U | 380 U | 380 U | 390 U | 360 U | 360 U | 360 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 200 UJ Q | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 390 U | 380 U | 380 U | 390 U | 360 U | 360 U | 360 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 780 U | 770 U | 760 U | 770 U | 710 U | 730 U | 720 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 390 U | 380 U | 380 U | 390 U | 360 U | 360 U | 360 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 200 U | 190 UJ E | 190 U | 190 UJ E | 180 U | 180 U | 180 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 970 UJ Q | 960 U | 940 U | 960 U | 890 U | 900 U | 900 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 200 U | 190 U | 190 U | 190 U | 180 U | 180 U | 180 U |

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

| | | Sample Name | SL-101-NBZ-SS-0.0-0.5 | SL-102-NBZ-SS-0.0-0.5 | SL-103-NBZ-SS-0.0-0.5 | SL-104-NBZ-SS-0.0-0.5 | SL-105-NBZ-SS-0.0-0.5 | SL-107-NBZ-SS-0.0-0.5 | SL-108-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | Sample Type | N | N | N | N | N | N | N |
| | | Sample Date | 03/29/2012 | 03/27/2012 | 03/29/2012 | 04/04/2012 | 03/21/2012 | 04/02/2012 | 04/03/2012 |
| | | SDG | 12C305 | 12C273 | 12C305 | 12D031 | 12C209 | 12D004 | 12D018 |
| | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 380 U | 390 U | 380 U | 360 U | 370 U | 380 U | 350 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 380 U | 390 U | 380 U | 360 U | 370 U | 380 U | 350 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 380 U | 390 U | 380 U | 360 U | 370 U | 380 U | 350 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 380 U | 390 U | 380 U | 360 U | 370 U | 380 U | 350 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 760 U | 770 U | 760 U | 720 U | 740 U | 760 U | 710 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 380 U | 390 U | 380 U | 360 U | 370 U | 380 U | 350 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 950 U | 960 U | 950 U | 890 U | 920 U | 940 U | 880 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 190 U | 190 U | 190 U | 180 U | 190 U | 190 U | 180 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-109-NBZ-SS-0.0-0.5 | SL-110-NBZ-SS-0.0-0.5 | SL-111-NBZ-SS-0.0-0.5 | SL-112-NBZ-SS-0.0-0.5 | SL-113-NBZ-SS-0.0-0.5 | SL-114-NBZ-SS-0.0-0.5 | SL-115-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/27/2012 | 04/04/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/04/2012 | 04/03/2012 |
| | | | SDG | 12C273 | 12D031 | 12D004 | 12D004 | 12D004 | 12D031 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 380 U | 360 U | 420 U | 370 U | 360 U | 360 U | 380 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 380 U | 360 U | 420 U | 370 U | 360 U | 360 U | 380 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 380 U | 360 U | 420 U | 370 U | 360 U | 360 U | 380 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 380 U | 360 U | 420 U | 370 U | 360 U | 360 U | 380 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 760 U | 720 U | 840 U | 740 U | 730 U | 730 U | 760 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 380 U | 360 U | 420 U | 370 U | 360 U | 360 U | 380 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 950 U | 900 U | 1000 U | 920 U | 910 U | 900 U | 950 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 190 U | 180 U | 210 U | 180 U | 180 U | 180 U | 190 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-116-NBZ-SS-0.0-0.5 | DUP-04-NBZ-QC-032912 | SL-118-NBZ-SS-0.0-0.5 | SL-119-NBZ-SS-0.0-0.5 | SL-120-NBZ-SS-0.0-0.5 | SL-121-NBZ-SS-0.0-0.5 | SL-122-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | FD | N | N | N | N | N |
| | | | Sample Date | 03/22/2012 | 03/29/2012 | 03/29/2012 | 03/27/2012 | 04/04/2012 | 03/30/2012 | 04/03/2012 |
| | | | SDG | 12C229 | 12C305 | 12C305 | 12C273 | 12D031 | 12C321 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 370 U | 360 U | 370 U | 370 U | 360 U | 360 U | 380 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 370 U | 360 U | 370 U | 370 U | 360 U | 360 U | 380 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 370 U | 360 U | 370 U | 370 U | 360 U | 360 U | 380 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 370 U | 360 U | 370 U | 370 U | 360 U | 360 U | 380 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 750 U | 730 U | 730 U | 750 U | 720 U | 720 U | 760 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 370 U | 360 U | 370 U | 370 U | 360 U | 360 U | 380 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 930 U | 910 U | 910 UJ Q | 930 U | 900 U | 900 U | 940 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 190 U | 180 U | 180 U | 190 U | 180 U | 180 U | 190 U |

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

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-123-NBZ-SS-0.0-0.5 | SL-124-NBZ-SS-0.0-0.5 | SL-126-NBZ-SS-0.0-0.5 | SL-127-NBZ-SS-0.0-0.5 | SL-129-NBZ-SS-0.0-0.5 | SL-130-NBZ-SS-0.0-0.5 | SL-131-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/26/2012 | 03/26/2012 | 04/03/2012 | 03/27/2012 | 03/27/2012 | 03/29/2012 |
| | | | SDG | 12C261 | 12C261 | 12C261 | 12D018 | 12C273 | 12C273 | 12C305 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 390 U | 450 U | 400 U | 350 U | 420 U | 400 U | 360 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 390 U | 450 U | 400 U | 350 U | 420 U | 400 U | 360 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 390 U | 450 U | 400 U | 350 U | 420 U | 400 U | 360 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 390 U | 450 U | 400 U | 350 U | 420 U | 400 U | 360 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 790 U | 900 U | 800 U | 710 U | 830 U | 790 U | 720 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 390 U | 450 U | 400 U | 350 U | 420 U | 400 U | 360 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 980 U | 1100 U | 1000 U | 880 U | 1000 U | 990 U | 900 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 200 U | 220 U | 200 U | 180 U | 210 U | 200 U | 180 U |

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

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-133-NBZ-SS-0.0-0.5 | SL-134-NBZ-SS-0.0-0.5 | SL-135-NBZ-SS-0.0-0.5 | SL-136-NBZ-SS-0.0-0.5 | SL-138-NBZ-SS-0.0-0.5 | SL-139-NBZ-SS-0.0-0.5 | SL-140-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/30/2012 | 03/28/2012 | 03/28/2012 | 04/02/2012 | 03/28/2012 | 04/03/2012 |
| | | | SDG | 12C261 | 12C321 | 12C285 | 12C285 | 12D004 | 12C285 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 390 U | 370 U | 380 U | 370 U | 380 U | 400 U | 390 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 390 U | 370 U | 380 U | 370 U | 380 U | 400 U | 390 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 390 U | 370 U | 380 U | 370 U | 380 U | 400 U | 390 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 390 U | 370 U | 380 U | 370 U | 380 U | 400 U | 390 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 770 U | 730 U | 760 U | 740 U | 750 U | 800 U | 770 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 390 U | 370 U | 380 U | 370 U | 380 U | 400 U | 390 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 190 U | 180 U | 190 UJ E | 180 UJ E | 190 U | 200 UJ E | 190 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 960 U | 910 U | 950 U | 920 U | 940 U | 990 U | 960 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 190 U | 180 U | 190 U | 180 U | 190 U | 200 U | 190 U |

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

Appendix A22
SVOCs-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-141-NBZ-SS-0.0-0.5 | SL-143-NBZ-SS-0.0-0.5 | SL-144-NBZ-SS-0.0-0.5 | SL-145-NBZ-SS-0.0-0.5 | SL-146-NBZ-SS-0.0-0.5 | SL-147-NBZ-SS-0.0-0.5 | SL-148-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/28/2012 | 03/28/2012 | 04/12/2012 | 04/11/2012 | 04/18/2012 | 04/17/2012 | 04/11/2012 |
| | | | SDG | 12C285 | 12C285 | 12D122 | 12D106 | 12D166 | 12D154 | 12D106 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 370 U | 360 U | 380 U | 420 U | 380 U | 380 U | 410 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 370 U | 360 U | 380 U | 420 U | 380 U | 380 U | 410 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 370 U | 360 U | 380 U | 420 U | 380 U | 380 U | 410 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 370 U | 360 U | 380 U | 420 U | 380 UJ E | 380 U | 410 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 750 U | 720 U | 770 U | 850 U | 770 U | 770 U | 820 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 UJ E | 190 U | 200 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 370 U | 360 U | 380 U | 420 U | 380 U | 380 U | 410 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 UJ L | 190 U | 200 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 190 UJ E | 180 UJ E | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 930 U | 900 U | 960 U | 1100 U | 950 U | 960 U | 1000 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 190 U | 180 U | 190 U | 210 U | 190 U | 190 U | 200 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-149-NBZ-SS-0.0-0.5 | SL-150-NBZ-SS-0.0-0.5 | SL-151-NBZ-SS-0.0-0.5 | SL-152-NBZ-SS-0.0-0.5 | SL-154-NBZ-SS-0.0-0.5 | SL-155-NBZ-SS-0.0-0.5 | SL-156-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/05/2012 | 04/19/2012 | 04/09/2012 | 04/12/2012 | 04/11/2012 | 04/04/2012 | 04/17/2012 |
| | | | SDG | 12D048 | 12D176 | 12D084 | 12D122 | 12D106 | 12D031 | 12D154 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 370 U | 370 U | 370 U | 400 U | 450 U | 360 U | 400 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 180 U | 190 UJ *# | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 180 U | 190 UJ *# | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 180 U | 190 UJ *# | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 370 U | 370 U | 370 U | 400 U | 450 U | 360 U | 400 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 370 U | 370 U | 370 U | 400 U | 450 U | 360 U | 400 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 370 U | 370 U | 370 U | 400 U | 450 U | 360 U | 400 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 730 U | 750 U | 740 U | 790 U | 890 U | 730 U | 810 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 370 U | 370 U | 370 U | 400 U | 450 U | 360 U | 400 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 910 U | 930 U | 920 U | 990 U | 1100 U | 900 U | 1000 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 180 U | 190 U | 180 U | 200 U | 220 U | 180 U | 200 U |

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

| | | Sample Name | SL-157-NBZ-SS-0.0-0.5 | SL-158-NBZ-SS-0.0-0.5 | SL-159-NBZ-SS-0.0-0.5 | DUP-10-NBZ-QC-041612 | SL-160-NBZ-SS-0.0-0.5 | SL-161-NBZ-SS-0.0-0.5 | SL-162-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | Sample Type | N | N | N | FD | N | N | N |
| | | Sample Date | 04/09/2012 | 04/12/2012 | 04/16/2012 | 04/16/2012 | 04/16/2012 | 04/17/2012 | 04/17/2012 |
| | | SDG | 12D084 | 12D122 | 12D146 | 12D166 | 12D146 | 12D154 | 12D154 |
| | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 370 U | 380 U | 380 U | 370 U | 370 U | 370 U | 370 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 370 U | 380 U | 380 U | 370 U | 370 U | 370 U | 370 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 370 U | 380 U | 380 U | 370 U | 370 U | 370 U | 370 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 370 U | 380 U | 380 UJ E | 370 UJ E | 370 UJ E | 370 U | 370 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 730 U | 770 U | 760 U | 750 U | 740 U | 750 U | 730 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 180 U | 190 U | 190 UJ E | 190 UJ E | 190 UJ E | 190 U | 180 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 370 U | 380 U | 380 U | 370 U | 370 U | 370 U | 370 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 180 U | 190 U | 190 UJ L | 190 UJ L | 190 UJ L | 190 U | 180 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 910 U | 960 U | 950 U | 930 U | 930 U | 930 U | 910 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 180 U | 190 U | 190 U | 190 U | 190 U | 190 U | 180 U |

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

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-163-NBZ-SS-0.0-0.5 | SL-164-NBZ-SS-0.0-0.5 | SL-165-NBZ-SS-0.0-0.5 | SL-166-NBZ-SS-0.0-0.5 | SL-167-NBZ-SS-0.0-0.5 | SL-168-NBZ-SS-0.0-0.5 | SL-169-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/11/2012 | 04/16/2012 | 04/05/2012 | 04/17/2012 | 04/09/2012 | 04/11/2012 | 04/03/2012 |
| | | | SDG | 12D106 | 12D146 | 12D048 | 12D154 | 12D084 | 12D106 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 390 U | 400 U | 370 U | 390 U | 360 U | 370 U | 370 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 390 U | 400 U | 370 U | 390 U | 360 U | 370 U | 370 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 390 U | 400 U | 370 U | 390 U | 360 U | 370 U | 370 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 200 U | 200 U | 180 U | 190 UJ Q | 180 U | 190 U | 180 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 390 U | 400 UJ E | 370 U | 390 U | 360 U | 370 U | 370 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 790 U | 800 U | 740 U | 770 U | 710 U | 750 U | 740 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 200 U | 200 UJ E | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 390 U | 400 U | 370 U | 390 U | 360 U | 370 U | 370 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 200 U | 200 UJ L | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 980 U | 990 U | 920 U | 960 R Q | 890 U | 930 U | 920 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 200 U | 200 U | 180 U | 190 UJ Q | 180 U | 190 U | 180 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 200 U | 200 U | 180 U | 190 U | 180 U | 190 U | 180 U |

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

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-170-NBZ-SS-0.0-0.5 | SL-171-NBZ-SS-0.0-0.5 | SL-172-NBZ-SS-0.0-0.5 | DUP-08-NBZ-QC-041612 | SL-173-NBZ-SS-0.0-0.5 | SL-174-NBZ-SS-0.0-0.5 | SL-175-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | FD | N | N | N |
| | | | Sample Date | 04/20/2012 | 04/20/2012 | 04/12/2012 | 04/16/2012 | 04/16/2012 | 04/09/2012 | 04/05/2012 |
| | | | SDG | 12D192 | 12D192 | 12D122 | 12D146 | 12D146 | 12D084 | 12D048 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 370 U | 360 U | 370 U | 400 U | 400 U | 360 U | 390 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 370 U | 360 U | 370 U | 400 U | 400 U | 360 U | 390 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 370 U | 360 U | 370 U | 400 U | 400 U | 360 U | 390 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 370 U | 360 U | 370 U | 400 UJ E | 400 UJ E | 360 U | 390 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 730 U | 730 U | 750 U | 790 U | 810 U | 730 U | 780 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 180 U | 180 U | 190 U | 200 UJ E | 200 R Q, E | 180 U | 200 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 370 U | 360 U | 370 U | 400 U | 400 U | 360 U | 390 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 180 U | 180 U | 190 U | 200 UJ L | 200 UJ L | 180 U | 200 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 910 U | 910 U | 930 U | 990 U | 1000 R Q | 910 U | 970 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 180 U | 180 U | 190 U | 200 U | 200 U | 180 U | 200 U |

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

| | | Sample Name | SL-176-NBZ-SS-0.0-0.5 | SL-177-NBZ-SS-0.0-0.5 | SL-178-NBZ-SS-0.0-0.5 | SL-179-NBZ-SS-0.0-0.5 | SL-180-NBZ-SS-0.0-0.5 | SL-181-NBZ-SS-0.0-0.5 | SL-182-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | Sample Type | N | N | N | N | N | N | N |
| | | Sample Date | 04/11/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 | 04/13/2012 | 04/04/2012 | 04/11/2012 |
| | | SDG | 12D106 | 12D092 | 12D176 | 12D176 | 12D135 | 12D031 | 12D106 |
| | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 390 U | 350 U | 370 U | 370 U | 420 U | 370 U | 390 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 200 U | 180 U | 190 UJ *# | 190 UJ *# | 210 U | 180 U | 190 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 200 U | 180 U | 190 UJ *# | 190 UJ *# | 210 U | 180 U | 190 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 200 U | 180 U | 190 UJ *# | 190 UJ *# | 210 U | 180 U | 190 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 390 U | 350 U | 370 U | 370 U | 420 U | 370 U | 390 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 390 U | 350 U | 370 U | 370 U | 420 U | 370 U | 390 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 390 U | 350 U | 370 U | 370 U | 420 U | 370 U | 390 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 780 U | 710 U | 750 U | 750 U | 830 U | 730 U | 780 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 390 U | 350 U | 370 U | 370 U | 420 U | 370 U | 390 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 970 U | 880 U | 930 U | 930 U | 1000 U | 910 U | 970 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 200 U | 180 U | 190 U | 190 U | 210 U | 180 U | 190 U |

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

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-183-NBZ-SS-0.0-0.5 | SL-184-NBZ-SS-0.0-0.5 | SL-185-NBZ-SS-0.0-0.5 | SL-186-NBZ-SS-0.0-0.5 | SL-187-NBZ-SS-0.0-0.5 | SL-188-NBZ-SS-0.0-0.5 | SL-189-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/13/2012 | 04/19/2012 | 04/09/2012 | 04/10/2012 | 04/04/2012 | 04/10/2012 | 04/18/2012 |
| | | | SDG | 12D135 | 12D176 | 12D084 | 12D092 | 12D031 | 12D092 | 12D166 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 400 U | 380 U | 370 U | 360 U | 360 U | 360 U | 380 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 400 U | 380 U | 370 U | 360 U | 360 U | 360 U | 380 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 400 U | 380 U | 370 U | 360 U | 360 U | 360 U | 380 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 400 U | 380 U | 370 U | 360 U | 360 U | 360 U | 380 UJ E |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 800 U | 760 U | 740 U | 720 U | 730 U | 720 U | 760 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 UJ E |
| 8270C | 78-59-1 | Isophorone | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 400 U | 380 U | 370 U | 360 U | 360 U | 360 U | 380 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 UJ L |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 990 U | 940 U | 920 U | 900 U | 910 U | 890 U | 950 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 200 U | 190 U | 190 U | 180 U | 180 U | 180 U | 190 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-190-NBZ-SS-0.0-0.5 | DUP-06-NBZ-QC-040912 | SL-191-NBZ-SS-0.0-0.5 | DUP-09-NBZ-QC-041912 | SL-193-NBZ-SS-0.0-0.5 | SL-194-NBZ-SS-0.0-0.5 | SL-195-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | FD | N | FD | N | N | N |
| | | | Sample Date | 04/05/2012 | 04/09/2012 | 04/09/2012 | 04/19/2012 | 04/19/2012 | 04/02/2012 | 03/26/2012 |
| | | | SDG | 12D048 | 12D084 | 12D084 | 12D176 | 12D176 | 12D004 | 12C261 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 350 U | 360 U | 360 U | 370 U | 370 U | 370 U | 380 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 350 U | 360 U | 360 U | 370 U | 370 U | 370 U | 380 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 350 U | 360 U | 360 U | 370 U | 370 U | 370 U | 380 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 350 U | 360 U | 360 U | 370 U | 370 U | 370 U | 380 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 700 U | 720 U | 730 U | 750 U | 750 U | 750 U | 760 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 350 U | 360 U | 360 U | 370 U | 370 U | 370 U | 380 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 870 U | 900 U | 910 UJ Q | 930 U | 930 R Q | 930 U | 940 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 180 U | 180 U | 180 U | 190 U | 190 U | 190 U | 190 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-196-NBZ-SS-0.0-0.5 | SL-197-NBZ-SS-0.0-0.5 | SL-198-NBZ-SS-0.0-0.5 | SL-199-NBZ-SS-0.0-0.5 | SL-200-NBZ-SS-0.0-0.5 | SL-201-NBZ-SS-0.0-0.5 | SL-202-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/29/2012 | 04/03/2012 | 04/23/2012 | 04/23/2012 | 04/23/2012 | 04/20/2012 |
| | | | SDG | 12C261 | 12C305 | 12D018 | 12D197 | 12D197 | 12D197 | 12D192 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8270C | 100-01-6 | 4-Nitroaniline | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 100-02-7 | 4-Nitrophenol | µg/kg | 400 U | 390 U | 360 U | 360 U | 360 U | 390 U | 360 U |
| 8270C | 100-51-6 | Benzyl Alcohol | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 101-55-3 | 4-Bromophenyl-phenylether | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 105-67-9 | 2,4-Dimethylphenol | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 106-44-5 | 4-Methylphenol | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 106-47-8 | 4-Chloroaniline | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 108-68-9 | 3,5-Dimethylphenol | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 108-95-2 | Phenol | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 111-44-4 | bis(2-chloroethyl) ether | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 111-76-2 | 2-butoxyethanol | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 111-91-1 | bis(2-chloroethoxy)methane | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 118-74-1 | Hexachlorobenzene | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 119-64-2 | Tetralin | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 120-83-2 | 2,4-Dichlorophenol | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 121-14-2 | 2,4-Dinitrotoluene | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 122-66-7 | 1,2-Diphenylhydrazine | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 122-99-6 | 2-phenoxyethanol | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 132-64-9 | Dibenzofuran | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 39638-32-9 | bis(2-chloroisopropyl) ether | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 51-28-5 | 2,4-Dinitrophenol | µg/kg | 400 U | 390 U | 360 U | 360 U | 360 U | 390 U | 360 U |
| 8270C | 534-52-1 | 4,6-Dinitro-2-methylphenol | µg/kg | 400 U | 390 U | 360 U | 360 U | 360 U | 390 U | 360 U |
| 8270C | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 59-50-7 | 4-Chloro-3-methylphenol | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 606-20-2 | 2,6-Dinitrotoluene | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 621-64-7 | N-Nitroso-di-n-propylamine | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 62-53-3 | Aniline | µg/kg | 400 U | 390 U | 360 U | 360 U | 360 U | 390 U | 360 U |
| 8270C | 65-85-0 | Benzoic Acid | µg/kg | 810 U | 770 U | 720 U | 720 U | 730 U | 790 U | 720 U |
| 8270C | 67-72-1 | Hexachloroethane | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 7005-72-3 | 4-Chlorophenyl-phenylether | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 77-47-4 | Hexachlorocyclopentadiene | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 78-59-1 | Isophorone | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 86-30-6 | N-Nitrosodiphenylamine | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 86-74-8 | Carbazole | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 87-68-3 | Hexachlorobutadiene | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 87-86-5 | Pentachlorophenol | µg/kg | 400 U | 390 U | 360 U | 360 U | 360 U | 390 U | 360 U |
| 8270C | 88-06-2 | 2,4,6-Trichlorophenol | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 88-74-4 | 2-Nitroaniline | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 88-75-5 | 2-Nitrophenol | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 91-58-7 | 2-Chloronaphthalene | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 91-94-1 | 3,3'-Dichlorobenzidine | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 92-87-5 | Benzidine | µg/kg | 1000 U | 960 U | 900 U | 900 U | 910 U | 980 U | 890 U |
| 8270C | 95-48-7 | 2-Methylphenol | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 95-57-8 | 2-Chlorophenol | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 95-95-4 | 2,4,5-Trichlorophenol | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 98-95-3 | Nitrobenzene | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |
| 8270C | 99-09-2 | 3-Nitroaniline | µg/kg | 200 U | 190 U | 180 U | 180 U | 180 U | 200 U | 180 U |

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

| | | | Sample Name | SL-001-NBZ-SS-0.0-0.5 | SL-002-NBZ-SS-0.0-0.5 | SL-002-NBZ-SB-4.0-5.0 | SL-002-NBZ-SB-7.5-8.5 | SL-003-NBZ-SS-0.0-0.5 | SL-003-NBZ-SB-4.0-5.0 | SL-005-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/09/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/13/2012 |
| | | | SDG | DE308 | DE296 | DE296 | DE296 | DE296 | DE296 | DE296 |
| | | | Start Depth | 0 | 0 | 4 | 7.5 | 0 | 4 | 4 |
| | | | End Depth | 0.5 | 0.5 | 5 | 8.5 | 0.5 | 5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B | 84-15-1 | o-Terphenyl | mg/kg | 3.9 U | 3.6 U | 3.8 U | 3.8 U | 3.7 U | 3.7 U | 3.8 U |
| 8015B | 92-06-8 | m-Terphenyl | mg/kg | 3.9 U | 3.6 U | 3.8 U | 3.8 U | 3.7 U | 3.7 U | 3.8 U |
| 8015B | 92-94-4 | p-Terphenyl | mg/kg | 3.9 U | 3.6 U | 3.8 U | 3.8 U | 3.7 U | 3.7 U | 3.8 U |

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

Appendix A23
Terphenyls-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-006-NBZ-SB-3.0-4.0 | SL-007-NBZ-SB-4.0-5.0 | SL-007-NBZ-SB-9.0-10.0 | SL-008-NBZ-SB-4.0-5.0 | DUP-07-NBZ-QC-041012 | SL-009-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | FD | N |
| | | | | Sample Date | 03/13/2012 | 03/12/2012 | 03/12/2012 | 04/18/2012 | 04/10/2012 | 04/10/2012 |
| | | | | SDG | DE296 | DE296 | DE296 | DE311 | DE308 | DE308 |
| | | | | Start Depth | 3 | 4 | 9 | 4 | 0 | 0 |
| | | | | End Depth | 4 | 5 | 10 | 5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B | 84-15-1 | o-Terphenyl | mg/kg | 3.7 U | 3.8 U | 3.8 U | 3.7 U | 4.0 U | 4.0 U |
| 8015B | 92-06-8 | m-Terphenyl | mg/kg | 3.7 U | 3.8 U | 3.8 U | 3.7 U | 4.0 U | 4.0 U |
| 8015B | 92-94-4 | p-Terphenyl | mg/kg | 3.7 U | 3.8 U | 3.8 U | 3.7 U | 4.0 U | 4.0 U |

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

| | | | | Sample Name | SL-010-NBZ-SB-4.0-5.0 | SL-011-NBZ-SS-0.0-0.5 | SL-012-NBZ-SS-0.0-0.5 | SL-012-NBZ-SB-0.5-1.5 | SL-013-NBZ-SS-0.0-0.5 | SL-014-NBZ-SS-0.0-0.5 | SL-015-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 03/12/2012 | 04/12/2012 | 04/19/2012 | 04/19/2012 | 04/16/2012 | 04/17/2012 | 03/13/2012 |
| | | | | SDG | DE296 | DE309 | DE312 | DE312 | DE310 | DE310 | DE296 |
| | | | | Start Depth | 4 | 0 | 0 | 0.5 | 0 | 0 | 0 |
| | | | | End Depth | 5 | 0.5 | 0.5 | 1.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8015B | 84-15-1 | o-Terphenyl | mg/kg | 3.7 U | 4.0 U | 4.1 U | 4.1 U | 5.2 U | 4.1 U | 3.5 U |
| 8015B | 92-06-8 | m-Terphenyl | mg/kg | 3.7 U | 4.0 U | 4.1 U | 4.1 U | 5.2 U | 4.1 U | 3.5 U |
| 8015B | 92-94-4 | p-Terphenyl | mg/kg | 3.7 U | 4.0 U | 4.1 U | 4.1 U | 5.2 U | 4.1 U | 3.5 U |

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

Appendix A23
Terphenyls-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-016-NBZ-SS-0.0-0.5 | SL-017-NBZ-SS-0.0-0.5 | SL-018-NBZ-SS-0.0-0.5 | SL-019-NBZ-SS-0.0-0.5 | SL-019-NBZ-SB-3.0-4.0 | SL-020-NBZ-SS-0.0-0.5 | SL-020-NBZ-SB-2.5-3.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/20/2012 | 04/19/2012 | 04/20/2012 | 03/13/2012 | 03/13/2012 | 04/04/2012 | 04/04/2012 |
| | | | | SDG | DE313 | DE313 | DE313 | DE297 | DE297 | DE307 | DE306 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 3 | 0 | 2.5 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 4 | 0.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8015B | 84-15-1 | o-Terphenyl | mg/kg | 4.4 U | 5.0 U | 4.4 U | 3.6 U | 3.7 U | 4.0 U | 3.9 U |
| 8015B | 92-06-8 | m-Terphenyl | mg/kg | 4.4 U | 5.0 U | 4.4 U | 3.6 U | 3.7 U | 4.0 U | 3.9 U |
| 8015B | 92-94-4 | p-Terphenyl | mg/kg | 4.4 U | 5.0 U | 4.4 U | 3.6 U | 3.7 U | 4.0 U | 3.9 U |

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

| | | | Sample Name | SL-021-NBZ-SS-0.0-0.5 | SL-021-NBZ-SB-4.0-5.0 | SL-022-NBZ-SS-0.0-0.5 | SL-022-NBZ-SB-4.0-5.0 | SL-022-NBZ-SB-9.0-10.0 | SL-023-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/13/2012 | 03/13/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 |
| | | | SDG | DE296 | DE296 | DE297 | DE297 | DE297 | DE297 |
| | | | Start Depth | 0 | 4 | 0 | 4 | 9 | 0 |
| | | | End Depth | 0.5 | 5 | 0.5 | 5 | 10 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B | 84-15-1 | o-Terphenyl | mg/kg | 3.6 U | 3.6 U | 3.6 U | 3.6 U | 3.7 U | 3.6 U |
| 8015B | 92-06-8 | m-Terphenyl | mg/kg | 3.6 U | 3.6 U | 3.6 U | 3.6 U | 3.7 U | 3.6 U |
| 8015B | 92-94-4 | p-Terphenyl | mg/kg | 3.6 U | 3.6 U | 3.6 U | 3.6 U | 3.7 U | 3.6 U |

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

Appendix A23
Terphenyls-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-023-NBZ-SB-4.0-5.0 | SL-023-NBZ-SB-8.5-9.5 | SL-024-NBZ-SS-0.0-0.5 | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 | SL-028-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 03/14/2012 | 03/14/2012 | 03/14/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 |
| | | | | SDG | DE297 | DE297 | DE297 | DE306 | DE306 | DE306 | DE306 |
| | | | | Start Depth | 4 | 8.5 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 5 | 9.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8015B | 84-15-1 | o-Terphenyl | mg/kg | 3.6 U | 3.7 U | 3.6 U | 3.8 U | 3.8 U | 4.1 U | 3.9 U |
| 8015B | 92-06-8 | m-Terphenyl | mg/kg | 3.6 U | 3.7 U | 3.6 U | 3.8 U | 3.8 U | 4.1 U | 3.9 U |
| 8015B | 92-94-4 | p-Terphenyl | mg/kg | 3.6 U | 3.7 U | 3.6 U | 3.8 U | 3.8 U | 4.1 U | 3.9 U |

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

| | | | | Sample Name | SL-029-NBZ-SS-0.0-0.5 | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 | SL-034-NBZ-SS-0.0-0.5 | SL-035-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 03/15/2012 | 03/14/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 |
| | | | | SDG | DE297 | DE297 | DE306 | DE306 | DE306 | DE306 | DE306 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8015B | 84-15-1 | o-Terphenyl | mg/kg | 3.6 U | 3.5 U | 3.8 U | 4.0 U | 3.8 U | 4.2 U | 4.0 U |
| 8015B | 92-06-8 | m-Terphenyl | mg/kg | 3.6 U | 3.5 U | 3.8 U | 4.0 U | 3.8 U | 4.2 U | 4.0 U |
| 8015B | 92-94-4 | p-Terphenyl | mg/kg | 3.6 U | 3.5 U | 3.8 U | 4.0 U | 3.8 U | 4.2 U | 4.0 U |

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

Appendix A23
Terphenyls-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-035-NBZ-SB-2.0-3.0 | SL-036-NBZ-SB-4.0-5.0 | SL-036-NBZ-SB-7.5-8.5 | SL-037-NBZ-SB-3.0-4.0 | SL-038-NBZ-SS-0.0-0.5 | SL-039-NBZ-SB-2.0-3.0 | SL-040-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/03/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/27/2012 | 03/28/2012 | 03/28/2012 |
| | | | | SDG | DE306 | DE303 | DE303 | DE303 | DE302 | DE303 | DE303 |
| | | | | Start Depth | 2 | 4 | 7.5 | 3 | 0 | 2 | 0 |
| | | | | End Depth | 3 | 5 | 8.5 | 4 | 0.5 | 3 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8015B | 84-15-1 | o-Terphenyl | mg/kg | 3.7 U | 4.0 U | 4.5 U | 3.9 U | 4.3 U | 3.9 U | 3.9 U | |
| 8015B | 92-06-8 | m-Terphenyl | mg/kg | 3.7 U | 4.0 U | 4.5 U | 3.9 U | 4.3 U | 3.9 U | 3.9 U | |
| 8015B | 92-94-4 | p-Terphenyl | mg/kg | 3.7 U | 4.0 U | 4.5 U | 3.9 U | 4.3 U | 3.9 U | 3.9 U | |

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

| | | | Sample Name | DUP-03-NBZ-QC-032812 | SL-040-NBZ-SB-2.5-3.5 | SL-042-NBZ-SS-0.0-0.5 | SL-043-NBZ-SS-0.0-0.5 | SL-044-NBZ-SS-0.0-0.5 | SL-045-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | FD | N | N | N | N | N |
| | | | Sample Date | 03/28/2012 | 03/28/2012 | 03/26/2012 | 03/26/2012 | 03/29/2012 | 03/26/2012 |
| | | | SDG | DE303 | DE303 | DE302 | DE302 | DE304 | DE302 |
| | | | Start Depth | 2.5 | 2.5 | 0 | 0 | 0 | 0 |
| | | | End Depth | 3.5 | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B | 84-15-1 | o-Terphenyl | mg/kg | 3.8 U | 3.6 U | 21 U | 3.8 U | 3.6 U | 20 U |
| 8015B | 92-06-8 | m-Terphenyl | mg/kg | 3.8 U | 3.6 U | 21 U | 3.8 U | 3.6 U | 20 U |
| 8015B | 92-94-4 | p-Terphenyl | mg/kg | 3.8 U | 3.6 U | 21 U | 3.8 U | 3.6 U | 20 U |

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

Appendix A23
Terphenyls-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-045-NBZ-SB-4.0-5.0 | SL-046-NBZ-SS-0.0-0.5 | SL-046-NBZ-SB-4.0-5.0 | SL-047-NBZ-SB-4.0-5.0 | SL-048-NBZ-SS-0.0-0.5 | SL-048-NBZ-SB-4.0-5.0 | SL-049-NBZ-SB-2.0-3.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 03/26/2012 | 03/26/2012 | 03/26/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 |
| | | | | SDG | DE302 | DE302 | DE302 | DE301 | DE301 | DE301 | DE301 |
| | | | | Start Depth | 4 | 0 | 4 | 4 | 0 | 4 | 2 |
| | | | | End Depth | 5 | 0.5 | 5 | 5 | 0.5 | 5 | 3 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8015B | 84-15-1 | o-Terphenyl | mg/kg | 3.7 U | 4.1 U | 3.7 U | 3.6 U | 3.9 U | 3.7 U | 3.6 U |
| 8015B | 92-06-8 | m-Terphenyl | mg/kg | 3.7 U | 4.1 U | 3.7 U | 3.6 U | 3.9 U | 3.7 U | 3.6 U |
| 8015B | 92-94-4 | p-Terphenyl | mg/kg | 3.7 U | 4.1 U | 3.7 U | 3.6 U | 3.9 U | 3.7 U | 3.6 U |

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

| | | | Sample Name | SL-050-NBZ-SS-0.0-0.5 | SL-051-NBZ-SB-1.5-2.5 | SL-052-NBZ-SS-0.0-0.5 | SL-053-NBZ-SS-0.0-0.5 | SL-053-NBZ-SB-3.5-4.5 | SL-054-NBZ-SS-0.0-0.5 | SL-055-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/23/2012 | 03/15/2012 | 03/15/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 |
| | | | SDG | DE302 | DE301 | DE297 | DE298 | DE298 | DE300 | DE300 |
| | | | Start Depth | 0 | 1.5 | 0 | 0 | 3.5 | 0 | 0 |
| | | | End Depth | 0.5 | 2.5 | 0.5 | 0.5 | 4.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B | 84-15-1 | o-Terphenyl | mg/kg | 19 U | 3.7 U | 3.5 U | 3.6 U | 3.6 U | 3.8 U | 3.9 U |
| 8015B | 92-06-8 | m-Terphenyl | mg/kg | 19 U | 3.7 U | 3.5 U | 3.6 U | 3.6 U | 3.8 U | 3.9 U |
| 8015B | 92-94-4 | p-Terphenyl | mg/kg | 19 U | 3.7 U | 3.5 U | 3.6 U | 3.6 U | 3.8 U | 3.9 U |

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

Appendix A23
Terphenyls-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-056-NBZ-SS-0.0-0.5 | SL-056-NBZ-SB-3.0-4.0 | DUP-02-NBZ-QC-032312 | SL-057-NBZ-SS-0.0-0.5 | SL-058-NBZ-SS-0.0-0.5 | SL-059-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | FD | N | N | N |
| | | | | Sample Date | 03/15/2012 | 03/15/2012 | 03/23/2012 | 03/23/2012 | 03/15/2012 | 03/22/2012 |
| | | | | SDG | DE298 | DE298 | DE301 | DE301 | DE297 | DE300 |
| | | | | Start Depth | 0 | 3 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 4 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B | 84-15-1 | o-Terphenyl | mg/kg | 4.7 U | 4.4 U | 3.8 U | 3.9 U | 3.6 U | 3.8 U |
| 8015B | 92-06-8 | m-Terphenyl | mg/kg | 4.7 U | 4.4 U | 3.8 U | 3.9 U | 3.6 U | 3.8 U |
| 8015B | 92-94-4 | p-Terphenyl | mg/kg | 4.7 U | 4.4 U | 5.4 J L | 4.7 J L | 3.6 U | 3.8 U |

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

| | | | Sample Name | SL-060-NBZ-SS-0.0-0.5 | SL-061-NBZ-SB-1.0-2.0 | SL-062-NBZ-SB-2.5-3.5 | SL-063-NBZ-SB-0.5-1.5 | SL-064-NBZ-SB-0.5-1.5 | SL-065-NBZ-SB-1.0-2.0 | SL-066-NBZ-SB-2.0-3.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/22/2012 | 03/22/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 |
| | | | SDG | DE300 | DE300 | DE300 | DE300 | DE300 | DE299 | DE299 |
| | | | Start Depth | 0 | 1 | 2.5 | 0.5 | 0.5 | 1 | 2 |
| | | | End Depth | 0.5 | 2 | 3.5 | 1.5 | 1.5 | 2 | 3 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B | 84-15-1 | o-Terphenyl | mg/kg | 3.7 U | 3.7 U | 3.6 U | 4.0 U | 3.7 U | 3.7 U | 3.6 U |
| 8015B | 92-06-8 | m-Terphenyl | mg/kg | 3.7 U | 3.7 U | 3.6 U | 4.0 U | 3.7 U | 3.7 U | 3.6 U |
| 8015B | 92-94-4 | p-Terphenyl | mg/kg | 3.7 U | 3.7 U | 3.6 U | 4.0 U | 3.7 U | 3.7 U | 3.6 U |

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

Appendix A23
Terphenyls-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-067-NBZ-SB-1.5-2.5 | DUP-01-NBZ-QC-031612 | SL-069-NBZ-SB-3.0-4.0 | SL-070-NBZ-SS-0.0-0.5 | SL-071-NBZ-SB-4.0-5.0 | SL-072-NBZ-SB-4.0-5.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | FD | N | N | N | N |
| | | | | Sample Date | 03/16/2012 | 03/16/2012 | 03/20/2012 | 03/20/2012 | 03/19/2012 | 03/16/2012 |
| | | | | SDG | DE298 | DE298 | DE299 | DE299 | DE299 | DE298 |
| | | | | Start Depth | 1.5 | 2.5 | 3 | 0 | 4 | 4 |
| | | | | End Depth | 2.5 | 3.5 | 4 | 0.5 | 5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B | 84-15-1 | o-Terphenyl | mg/kg | 3.8 U | 3.8 U | 3.7 U | 4.0 U | 3.6 U | 3.9 U |
| 8015B | 92-06-8 | m-Terphenyl | mg/kg | 3.8 U | 3.8 U | 3.7 U | 4.0 U | 3.6 U | 3.9 U |
| 8015B | 92-94-4 | p-Terphenyl | mg/kg | 3.8 U | 3.8 U | 3.7 U | 4.0 U | 3.6 U | 3.9 U |

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

| | | | Sample Name | SL-073-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-9.0-10.0 | SL-074-NBZ-SB-0.5-1.5 | SL-075-NBZ-SS-0.0-0.5 | SL-076-NBZ-SS-0.0-0.5 | SL-077-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/19/2012 | 03/19/2012 | 03/19/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 |
| | | | SDG | DE299 | DE299 | DE299 | DE299 | DE299 | DE299 |
| | | | Start Depth | 4 | 9 | 0.5 | 0 | 0 | 0 |
| | | | End Depth | 5 | 10 | 1.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B | 84-15-1 | o-Terphenyl | mg/kg | 3.8 U | 3.8 U | 3.6 U | 3.8 U | 4.0 U | 4.1 U |
| 8015B | 92-06-8 | m-Terphenyl | mg/kg | 3.8 U | 3.8 U | 3.6 U | 3.8 U | 4.0 U | 4.1 U |
| 8015B | 92-94-4 | p-Terphenyl | mg/kg | 3.8 U | 3.8 U | 3.6 U | 3.8 U | 4.0 U | 4.1 U |

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

Appendix A23
Terphenyls-Validated Data
NBZ - Phases 1 and 2

| | | | | Sample Name | SL-077-NBZ-SB-2.5-3.5 | SL-078-NBZ-SS-0.0-0.5 | SL-079-NBZ-SS-0.0-0.5 | SL-080-NBZ-SS-0.0-0.5 | SL-081-NBZ-SS-0.0-0.5 | SL-082-NBZ-SS-0.0-0.5 | SL-082-NBZ-SB-2.5-3.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 03/20/2012 | 03/27/2012 | 03/30/2012 | 04/20/2012 | 04/18/2012 | 04/18/2012 | 04/18/2012 |
| | | | | SDG | DE299 | DE302 | DE305 | DE313 | DE311 | DE311 | DE311 |
| | | | | Start Depth | 2.5 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| | | | | End Depth | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8015B | 84-15-1 | o-Terphenyl | mg/kg | 3.7 U | 3.9 U | 4.0 U | 3.9 U | 4.1 U | 4.0 U | 4.0 U | |
| 8015B | 92-06-8 | m-Terphenyl | mg/kg | 3.7 U | 3.9 U | 4.0 U | 3.9 U | 4.1 U | 4.0 U | 4.0 U | |
| 8015B | 92-94-4 | p-Terphenyl | mg/kg | 3.7 U | 3.9 U | 4.0 U | 3.9 U | 4.1 U | 4.0 U | 4.0 U | |

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

| | | | | Sample Name | SL-083-NBZ-SS-0.0-0.5 | SL-085-NBZ-SS-0.0-0.5 | SL-086-NBZ-SS-0.0-0.5 | SL-087-NBZ-SS-0.0-0.5 | SL-088-NBZ-SS-0.0-0.5 | SL-089-NBZ-SS-0.0-0.5 | SL-090-NBZ-SS-0.0-0.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N | N | N | N |
| | | | | Sample Date | 04/18/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 | 04/17/2012 | 04/20/2012 | 04/17/2012 |
| | | | | SDG | DE311 | DE309 | DE312 | DE312 | DE310 | DE313 | DE311 |
| | | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | | |
| 8015B | 84-15-1 | o-Terphenyl | mg/kg | 4.0 U | 4.1 U | 4.3 U | 5.0 U | 4.4 U | 4.0 U | 4.1 U |
| 8015B | 92-06-8 | m-Terphenyl | mg/kg | 4.0 U | 4.1 U | 4.3 U | 5.0 U | 4.4 U | 4.0 U | 4.1 U |
| 8015B | 92-94-4 | p-Terphenyl | mg/kg | 4.0 U | 4.1 U | 4.3 U | 5.0 U | 4.4 U | 4.0 U | 4.1 U |

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

Appendix A23
Terphenyls-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-091-NBZ-SS-0.0-0.5 | SL-091-NBZ-SB-4.0-5.0 | DUP-05-NBZ-QC-032912 | SL-092-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | FD | N |
| | | | Sample Date | 03/29/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 |
| | | | SDG | DE304 | DE304 | DE304 | DE304 |
| | | | Start Depth | 0 | 4 | 0 | 0 |
| | | | End Depth | 0.5 | 5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | |
| 8015B | 84-15-1 | o-Terphenyl | mg/kg | 4.3 U | 4.3 U | 4.4 U | 4.1 U |
| 8015B | 92-06-8 | m-Terphenyl | mg/kg | 4.3 U | 4.3 U | 4.4 U | 4.1 U |
| 8015B | 92-94-4 | p-Terphenyl | mg/kg | 4.3 U | 4.3 U | 4.4 U | 4.1 U |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-001-NBZ-SS-0.0-0.5 | SL-002-NBZ-SS-0.0-0.5 | SL-002-NBZ-SB-4.0-5.0 | SL-002-NBZ-SB-7.5-8.5 | SL-003-NBZ-SS-0.0-0.5 | SL-003-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/09/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/12/2012 |
| | | | SDG | 12D084 | 12C096 | 12C096 | 12C096 | 12C096 | 12C096 |
| | | | Start Depth | 0 | 0 | 4 | 7.5 | 0 | 4 |
| | | | End Depth | 0.5 | 0.5 | 5 | 8.5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B EFH | PHCC12C14 | EFH (C12-C14) | mg/kg | 1.1 U | 1.0 U | 1.1 U | 1.1 U | 1.0 U | 1.1 U |
| 8015B EFH | PHCC15C20 | EFH (C15-C20) | mg/kg | 0.57 J Z | 0.81 J Z | 1.1 U | 1.1 U | 0.56 J Z | 1.1 U |
| 8015B EFH | PHCC21C30 | EFH (C21-C30) | mg/kg | 10 | 2.7 | 1.1 U | 1.1 U | 3.2 | 1.1 U |
| 8015B EFH | PHCC30C40 | EFH (C30-C40) | mg/kg | 20 | 9.8 | 1.1 U | 1.1 U | 12 | 1.1 U |
| 8015B EFH | PHCC8C11 | EFH (C8-C11) | mg/kg | 1.1 U | 0.52 J Z | 0.58 J Z | 1.1 U | 0.56 J Z | 0.53 J Z |
| 8015B EFH | PHCC8C40 | Total EFH (C8-C40) | mg/kg | 31 | 14 | 0.58 J Z | 1.1 U | 16 | 1.0 J Z |

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

Appendix A24
TPHs-EFH-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-004-NBZ-SS-0.0-0.5 | SL-005-NBZ-SB-4.0-5.0 | SL-006-NBZ-SB-3.0-4.0 | SL-007-NBZ-SB-4.0-5.0 | SL-007-NBZ-SB-9.0-10.0 | SL-008-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/11/2012 | 03/13/2012 | 03/13/2012 | 03/12/2012 | 03/12/2012 | 04/18/2012 |
| | | | SDG | 12D106 | 12C106 | 12C106 | 12C096 | 12C096 | 12D166 |
| | | | Start Depth | 0 | 4 | 3 | 4 | 9 | 4 |
| | | | End Depth | 0.5 | 5 | 4 | 5 | 10 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B EFH | PHCC12C14 | EFH (C12-C14) | mg/kg | 1.2 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| 8015B EFH | PHCC15C20 | EFH (C15-C20) | mg/kg | 1.9 | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| 8015B EFH | PHCC21C30 | EFH (C21-C30) | mg/kg | 15 | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| 8015B EFH | PHCC30C40 | EFH (C30-C40) | mg/kg | 30 | 1.1 U | 1.1 U | 1.1 U | 0.74 J Z | 1.1 |
| 8015B EFH | PHCC8C11 | EFH (C8-C11) | mg/kg | 0.69 J Z | 1.1 U | 0.56 J Z | 0.62 J Z | 0.61 J Z | 1.1 U |
| 8015B EFH | PHCC8C40 | Total EFH (C8-C40) | mg/kg | 48 | 1.1 U | 0.56 J Z | 0.62 J Z | 1.4 | 1.1 |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | DUP-07-NBZ-QC-041012 | SL-009-NBZ-SS-0.0-0.5 | SL-010-NBZ-SB-4.0-5.0 | SL-011-NBZ-SS-0.0-0.5 | SL-012-NBZ-SS-0.0-0.5 | SL-012-NBZ-SB-0.5-1.5 |
| | | | Sample Type | FD | N | N | N | N | N |
| | | | Sample Date | 04/10/2012 | 04/10/2012 | 03/12/2012 | 04/12/2012 | 04/19/2012 | 04/19/2012 |
| | | | SDG | 12D092 | 12D092 | 12C096 | 12D122 | 12D176 | 12D176 |
| | | | Start Depth | 0 | 0 | 4 | 0 | 0 | 0.5 |
| | | | End Depth | 0.5 | 0.5 | 5 | 0.5 | 0.5 | 1.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B EFH | PHCC12C14 | EFH (C12-C14) | mg/kg | 1.1 U | 1.2 U | 1.1 U | 1.1 U | 1.2 U | 1.2 U |
| 8015B EFH | PHCC15C20 | EFH (C15-C20) | mg/kg | 2.5 | 2.1 | 1.1 U | 0.65 J Z | 0.69 J Z | 1.2 U |
| 8015B EFH | PHCC21C30 | EFH (C21-C30) | mg/kg | 17 | 20 | 1.1 U | 5.7 | 5.6 | 1.4 |
| 8015B EFH | PHCC30C40 | EFH (C30-C40) | mg/kg | 34 | 35 | 1.1 U | 12 | 12 | 2.7 |
| 8015B EFH | PHCC8C11 | EFH (C8-C11) | mg/kg | 1.1 UJ FD | 0.65 J FD, Z | 0.55 J Z | 1.1 U | 1.2 U | 1.2 U |
| 8015B EFH | PHCC8C40 | Total EFH (C8-C40) | mg/kg | 54 | 58 | 0.55 J Z | 18 | 18 | 4.1 |

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

Appendix A24
TPHs-EFH-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-013-NBZ-SS-0.0-0.5 | SL-014-NBZ-SS-0.0-0.5 | SL-016-NBZ-SS-0.0-0.5 | SL-017-NBZ-SS-0.0-0.5 | SL-018-NBZ-SS-0.0-0.5 | SL-019-NBZ-SB-3.0-4.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/16/2012 | 04/17/2012 | 04/20/2012 | 04/19/2012 | 04/20/2012 | 03/13/2012 |
| | | | SDG | 12D146 | 12D154 | 12D192 | 12D176 | 12D192 | 12C106 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 3 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 4 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B EFH | PHCC12C14 | EFH (C12-C14) | mg/kg | 0.95 J Z | 1.3 U | 1.3 U | 1.9 | 1.9 | 1.1 U |
| 8015B EFH | PHCC15C20 | EFH (C15-C20) | mg/kg | 4.3 | 2.4 | 1.8 | 13 | 12 | 1.1 U |
| 8015B EFH | PHCC21C30 | EFH (C21-C30) | mg/kg | 29 | 17 | 18 | 68 | 52 | 1.1 U |
| 8015B EFH | PHCC30C40 | EFH (C30-C40) | mg/kg | 49 | 33 | 30 | 100 | 66 | 1.1 U |
| 8015B EFH | PHCC8C11 | EFH (C8-C11) | mg/kg | 0.90 J Z | 0.71 J Z | 0.88 J Z | 3.8 | 3.8 | 0.57 J Z |
| 8015B EFH | PHCC8C40 | Total EFH (C8-C40) | mg/kg | 84 | 53 | 51 | 190 | 140 | 0.57 J Z |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-020-NBZ-SB-2.5-3.5 | SL-021-NBZ-SB-4.0-5.0 | SL-022-NBZ-SS-0.0-0.5 | SL-022-NBZ-SB-4.0-5.0 | SL-022-NBZ-SB-9.0-10.0 | SL-023-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/04/2012 | 03/13/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 | 03/14/2012 |
| | | | SDG | 12D031 | 12C106 | 12C121 | 12C121 | 12C121 | 12C121 |
| | | | Start Depth | 2.5 | 4 | 0 | 4 | 9 | 0 |
| | | | End Depth | 3.5 | 5 | 0.5 | 5 | 10 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B EFH | PHCC12C14 | EFH (C12-C14) | mg/kg | 1.1 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 8015B EFH | PHCC15C20 | EFH (C15-C20) | mg/kg | 1.1 U | 1.0 U | 1.4 | 1.0 U | 1.0 U | 1.2 |
| 8015B EFH | PHCC21C30 | EFH (C21-C30) | mg/kg | 2.7 | 1.0 U | 12 | 1.0 U | 1.0 U | 12 |
| 8015B EFH | PHCC30C40 | EFH (C30-C40) | mg/kg | 3.7 | 2.4 | 23 | 1.0 U | 1.0 U | 26 |
| 8015B EFH | PHCC8C11 | EFH (C8-C11) | mg/kg | 0.61 J Z | 0.60 J Z | 0.57 J Z | 0.56 J Z | 1.0 U | 1.0 U |
| 8015B EFH | PHCC8C40 | Total EFH (C8-C40) | mg/kg | 7 | 3 | 37 | 0.56 J Z | 1.0 U | 39 |

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

Appendix A24
TPHs-EFH-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-023-NBZ-SB-4.0-5.0 | SL-023-NBZ-SB-8.5-9.5 | SL-024-NBZ-SS-0.0-0.5 | SL-025-NBZ-SS-0.0-0.5 | SL-026-NBZ-SS-0.0-0.5 | SL-027-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 03/14/2012 | 03/14/2012 | 04/02/2012 | 04/02/2012 | 04/02/2012 |
| | | | SDG | 12C121 | 12C121 | 12C121 | 12D004 | 12D004 | 12D004 |
| | | | Start Depth | 4 | 8.5 | 0 | 0 | 0 | 0 |
| | | | End Depth | 5 | 9.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B EFH | PHCC12C14 | EFH (C12-C14) | mg/kg | 1.0 U | 1.1 U | 1.0 U | 0.88 J Z | 1.1 U | 1.2 U |
| 8015B EFH | PHCC15C20 | EFH (C15-C20) | mg/kg | 1.0 U | 1.1 U | 0.97 J Z | 1.4 | 1.1 U | 2.1 |
| 8015B EFH | PHCC21C30 | EFH (C21-C30) | mg/kg | 1.0 U | 1.1 U | 5.3 | 12 | 3.2 | 13 |
| 8015B EFH | PHCC30C40 | EFH (C30-C40) | mg/kg | 1.8 | 0.77 J Z | 10 | 19 | 3.8 | 23 |
| 8015B EFH | PHCC8C11 | EFH (C8-C11) | mg/kg | 0.58 J Z | 0.57 J Z | 0.53 J Z | 0.87 J Z | 1.1 U | 0.75 J Z |
| 8015B EFH | PHCC8C40 | Total EFH (C8-C40) | mg/kg | 2.4 | 1.3 | 17 | 34 | 7 | 39 |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-028-NBZ-SS-0.0-0.5 | SL-029-NBZ-SS-0.0-0.5 | SL-030-NBZ-SS-0.0-0.5 | SL-031-NBZ-SS-0.0-0.5 | SL-032-NBZ-SS-0.0-0.5 | SL-033-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/02/2012 | 03/15/2012 | 03/14/2012 | 04/03/2012 | 04/03/2012 | 04/03/2012 |
| | | | SDG | 12D004 | 12C135 | 12C121 | 12D018 | 12D018 | 12D018 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B EFH | PHCC12C14 | EFH (C12-C14) | mg/kg | 1.1 U | 1.1 | 0.86 J Z | 1.1 U | 1.1 U | 1.1 U |
| 8015B EFH | PHCC15C20 | EFH (C15-C20) | mg/kg | 1.1 U | 0.96 J Z | 0.91 J Z | 0.93 J Z | 0.76 J Z | 1.1 |
| 8015B EFH | PHCC21C30 | EFH (C21-C30) | mg/kg | 4.5 | 12 | 12 | 5 | 5.3 | 10 |
| 8015B EFH | PHCC30C40 | EFH (C30-C40) | mg/kg | 7.4 | 31 | 22 | 8.2 | 8.4 | 17 |
| 8015B EFH | PHCC8C11 | EFH (C8-C11) | mg/kg | 0.60 J Z | 1.1 | 0.89 J Z | 0.61 J Z | 0.62 J Z | 0.61 J Z |
| 8015B EFH | PHCC8C40 | Total EFH (C8-C40) | mg/kg | 13 | 46 | 37 | 15 | 15 | 29 |

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

Appendix A24
TPHs-EFH-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-034-NBZ-SS-0.0-0.5 | SL-035-NBZ-SS-0.0-0.5 | SL-035-NBZ-SB-2.0-3.0 | SL-036-NBZ-SB-4.0-5.0 | SL-036-NBZ-SB-7.5-8.5 | SL-037-NBZ-SB-3.0-4.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/03/2012 | 04/03/2012 | 04/03/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 |
| | | | SDG | 12D018 | 12D018 | 12D018 | 12C285 | 12C285 | 12C285 |
| | | | Start Depth | 0 | 0 | 2 | 4 | 7.5 | 3 |
| | | | End Depth | 0.5 | 0.5 | 3 | 5 | 8.5 | 4 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B EFH | PHCC12C14 | EFH (C12-C14) | mg/kg | 1.2 U | 1.1 U | 1.1 U | 1.1 U | 1.3 U | 1.1 U |
| 8015B EFH | PHCC15C20 | EFH (C15-C20) | mg/kg | 1.3 | 1.4 | 1.1 U | 1.1 U | 1.3 U | 1.1 U |
| 8015B EFH | PHCC21C30 | EFH (C21-C30) | mg/kg | 6.9 | 9.3 | 1.6 | 0.68 J Z | 1.3 U | 1.9 |
| 8015B EFH | PHCC30C40 | EFH (C30-C40) | mg/kg | 12 | 14 | 1.4 | 1.1 | 0.76 J Z | 2.6 |
| 8015B EFH | PHCC8C11 | EFH (C8-C11) | mg/kg | 0.70 J Z | 0.61 J Z | 0.54 J Z | 0.80 J Z | 1.3 U | 0.95 J Z |
| 8015B EFH | PHCC8C40 | Total EFH (C8-C40) | mg/kg | 21 | 25 | 3.5 | 2.6 | 0.76 J Z | 5.5 |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-038-NBZ-SS-0.0-0.5 | SL-039-NBZ-SB-2.0-3.0 | SL-040-NBZ-SS-0.0-0.5 | DUP-03-NBZ-QC-032812 | SL-040-NBZ-SB-2.5-3.5 | SL-042-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | FD | N | N |
| | | | Sample Date | 03/27/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 | 03/26/2012 |
| | | | SDG | 12C273 | 12C273 | 12C285 | 12C285 | 12C285 | 12C261 |
| | | | Start Depth | 0 | 2 | 0 | 2.5 | 2.5 | 0 |
| | | | End Depth | 0.5 | 3 | 0.5 | 3.5 | 3.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B EFH | PHCC12C14 | EFH (C12-C14) | mg/kg | 2.2 | 1.4 | 1.1 U | 0.90 J Z | 0.85 J Z | 23 U |
| 8015B EFH | PHCC15C20 | EFH (C15-C20) | mg/kg | 19 | 29 | 2.4 | 37 | 38 | 23 U |
| 8015B EFH | PHCC21C30 | EFH (C21-C30) | mg/kg | 44 | 25 | 6.8 | 43 | 41 | 210 |
| 8015B EFH | PHCC30C40 | EFH (C30-C40) | mg/kg | 42 | 7.3 | 12 | 8.3 | 12 | 200 |
| 8015B EFH | PHCC8C11 | EFH (C8-C11) | mg/kg | 1.7 | 0.73 J Z | 0.96 J Z | 0.55 J Z | 0.53 J Z | 23 U |
| 8015B EFH | PHCC8C40 | Total EFH (C8-C40) | mg/kg | 110 | 63 | 22 | 90 | 92 J Q | 410 |

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

Appendix A24
TPHs-EFH-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-043-NBZ-SS-0.0-0.5 | SL-044-NBZ-SS-0.0-0.5 | SL-045-NBZ-SS-0.0-0.5 | SL-045-NBZ-SB-4.0-5.0 | SL-046-NBZ-SS-0.0-0.5 | SL-046-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/26/2012 | 03/29/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 | 03/26/2012 |
| | | | SDG | 12C261 | 12C305 | 12C261 | 12C261 | 12C261 | 12C261 |
| | | | Start Depth | 0 | 0 | 0 | 4 | 0 | 4 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 5 | 0.5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B EFH | PHCC12C14 | EFH (C12-C14) | mg/kg | 0.72 J Z | 21 U | 11 U | 1.1 U | 12 U | 0.73 J Z |
| 8015B EFH | PHCC15C20 | EFH (C15-C20) | mg/kg | 2 | 51 | 11 U | 1.1 U | 12 U | 0.73 J Z |
| 8015B EFH | PHCC21C30 | EFH (C21-C30) | mg/kg | 16 | 300 | 200 | 5.9 | 61 | 2.1 |
| 8015B EFH | PHCC30C40 | EFH (C30-C40) | mg/kg | 17 | 220 | 140 | 4.3 | 92 | 1.2 |
| 8015B EFH | PHCC8C11 | EFH (C8-C11) | mg/kg | 0.93 J Z | 21 U | 11 U | 1.1 U | 12 U | 0.86 J Z |
| 8015B EFH | PHCC8C40 | Total EFH (C8-C40) | mg/kg | 37 | 570 | 340 | 10 | 150 | 5.6 |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-047-NBZ-SB-4.0-5.0 | SL-048-NBZ-SS-0.0-0.5 | SL-048-NBZ-SB-4.0-5.0 | SL-049-NBZ-SB-2.0-3.0 | SL-050-NBZ-SS-0.0-0.5 | SL-051-NBZ-SB-1.5-2.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/23/2012 | 03/26/2012 | 03/23/2012 |
| | | | SDG | 12C254 | 12C254 | 12C254 | 12C254 | 12C261 | 12C254 |
| | | | Start Depth | 4 | 0 | 4 | 2 | 0 | 1.5 |
| | | | End Depth | 5 | 0.5 | 5 | 3 | 0.5 | 2.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B EFH | PHCC12C14 | EFH (C12-C14) | mg/kg | 1.0 U | 0.85 J Z | 1.0 U | 1.0 U | 22 U | 1.0 U |
| 8015B EFH | PHCC15C20 | EFH (C15-C20) | mg/kg | 1.0 U | 2.5 | 1.0 U | 1.0 U | 22 U | 1.0 U |
| 8015B EFH | PHCC21C30 | EFH (C21-C30) | mg/kg | 1.4 | 22 | 3.3 | 3 | 160 | 0.89 J Z |
| 8015B EFH | PHCC30C40 | EFH (C30-C40) | mg/kg | 2.5 | 30 | 3.4 | 3.9 | 200 | 2.2 |
| 8015B EFH | PHCC8C11 | EFH (C8-C11) | mg/kg | 0.58 J Z | 0.95 J Z | 1.0 U | 1.0 U | 22 U | 0.54 J Z |
| 8015B EFH | PHCC8C40 | Total EFH (C8-C40) | mg/kg | 4.5 | 56 | 6.7 | 6.9 | 360 | 3.6 |

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

Appendix A24
TPHs-EFH-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-052-NBZ-SS-0.0-0.5 | SL-053-NBZ-SS-0.0-0.5 | SL-053-NBZ-SB-3.5-4.5 | SL-054-NBZ-SS-0.0-0.5 | SL-055-NBZ-SS-0.0-0.5 | SL-056-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/15/2012 | 03/15/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 | 03/15/2012 |
| | | | SDG | 12C135 | 12C135 | 12C135 | 12C229 | 12C229 | 12C135 |
| | | | Start Depth | 0 | 0 | 3.5 | 0 | 0 | 0 |
| | | | End Depth | 0.5 | 0.5 | 4.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B EFH | PHCC12C14 | EFH (C12-C14) | mg/kg | 1.0 U | 1.0 U | 1.0 U | 1.1 U | 1.1 U | 1.0 U |
| 8015B EFH | PHCC15C20 | EFH (C15-C20) | mg/kg | 1.0 U | 1.3 | 1.0 U | 0.84 J Z | 1.2 | 1.8 |
| 8015B EFH | PHCC21C30 | EFH (C21-C30) | mg/kg | 2.5 | 22 | 0.65 J Z | 20 | 8.3 | 18 |
| 8015B EFH | PHCC30C40 | EFH (C30-C40) | mg/kg | 7.7 | 37 | 1.3 | 44 | 24 | 37 |
| 8015B EFH | PHCC8C11 | EFH (C8-C11) | mg/kg | 1.0 U | 1.0 U | 1.0 U | 0.68 J Z | 0.71 J Z | 1.0 U |
| 8015B EFH | PHCC8C40 | Total EFH (C8-C40) | mg/kg | 10 | 60 | 2 | 66 | 34 | 57 |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-056-NBZ-SB-3.0-4.0 | DUP-02-NBZ-QC-032312 | SL-057-NBZ-SS-0.0-0.5 | SL-058-NBZ-SB-4.0-5.0 | SL-059-NBZ-SS-0.0-0.5 | SL-060-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | FD | N | N | N | N |
| | | | Sample Date | 03/15/2012 | 03/23/2012 | 03/23/2012 | 03/15/2012 | 03/22/2012 | 03/22/2012 |
| | | | SDG | 12C135 | 12C254 | 12C254 | 12C135 | 12C229 | 12C229 |
| | | | Start Depth | 3 | 0 | 0 | 5 | 0 | 0 |
| | | | End Depth | 4 | 0.5 | 0.5 | 5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B EFH | PHCC12C14 | EFH (C12-C14) | mg/kg | 1.0 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| 8015B EFH | PHCC15C20 | EFH (C15-C20) | mg/kg | 1.0 U | 0.67 J Z | 0.68 J Z | 1.1 U | 1.1 U | 8.6 |
| 8015B EFH | PHCC21C30 | EFH (C21-C30) | mg/kg | 1.4 | 2.3 | 3 | 0.67 J Z | 2.2 | 48 |
| 8015B EFH | PHCC30C40 | EFH (C30-C40) | mg/kg | 2.5 | 2.8 | 4.4 | 1.7 | 6.7 | 39 |
| 8015B EFH | PHCC8C11 | EFH (C8-C11) | mg/kg | 1.0 U | 0.62 J Z | 0.73 J Z | 0.54 J Z | 0.69 J Z | 0.74 J Z |
| 8015B EFH | PHCC8C40 | Total EFH (C8-C40) | mg/kg | 3.9 | 6.4 | 8.8 | 2.9 | 9.6 | 96 |

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

Appendix A24
TPHs-EFH-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-061-NBZ-SB-1.0-2.0 | SL-062-NBZ-SB-2.5-3.5 | SL-063-NBZ-SB-0.5-1.5 | SL-064-NBZ-SB-0.5-1.5 | SL-065-NBZ-SB-1.0-2.0 | SL-066-NBZ-SB-2.0-3.0 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/22/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 |
| | | | SDG | 12C229 | 12C209 | 12C209 | 12C209 | 12C209 | 12C209 |
| | | | Start Depth | 1 | 2.5 | 0.5 | 0.5 | 1 | 2 |
| | | | End Depth | 2 | 3.5 | 1.5 | 1.5 | 2 | 3 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B EFH | PHCC12C14 | EFH (C12-C14) | mg/kg | 1.1 U | 1.0 U | 1.1 U | 1.1 U | 1.1 U | 1.0 U |
| 8015B EFH | PHCC15C20 | EFH (C15-C20) | mg/kg | 1.1 U | 1.0 U | 0.64 J Z | 1.1 U | 1.1 U | 1.0 U |
| 8015B EFH | PHCC21C30 | EFH (C21-C30) | mg/kg | 5.6 | 2.6 | 6.7 | 0.98 J Z | 1.8 | 1.0 U |
| 8015B EFH | PHCC30C40 | EFH (C30-C40) | mg/kg | 13 | 6.7 | 11 | 2.7 | 3.8 | 1.7 |
| 8015B EFH | PHCC8C11 | EFH (C8-C11) | mg/kg | 0.55 J Z | 0.61 J Z | 0.69 J Z | 1.1 U | 0.90 J Z | 1.0 U |
| 8015B EFH | PHCC8C40 | Total EFH (C8-C40) | mg/kg | 19 | 9.9 | 19 | 3.7 | 6.5 | 1.7 |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-067-NBZ-SB-1.5-2.5 | DUP-01-NBZ-QC-031612 | SL-068-NBZ-SB-2.5-3.5 | SL-069-NBZ-SB-3.0-4.0 | SL-071-NBZ-SB-4.0-5.0 | SL-072-NBZ-SB-4.0-5.0 |
| | | | Sample Type | N | FD | N | N | N | N |
| | | | Sample Date | 03/16/2012 | 03/16/2012 | 03/16/2012 | 03/20/2012 | 03/19/2012 | 03/16/2012 |
| | | | SDG | 12C156 | 12C156 | 12C156 | 12C182 | 12C164 | 12C156 |
| | | | Start Depth | 1.5 | 2.5 | 2.5 | 3 | 4 | 4 |
| | | | End Depth | 2.5 | 3.5 | 3.5 | 4 | 5 | 5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B EFH | PHCC12C14 | EFH (C12-C14) | mg/kg | 1.1 U | 1.1 U | 1.1 U | 1.0 U | 1.0 U | 1.1 U |
| 8015B EFH | PHCC15C20 | EFH (C15-C20) | mg/kg | 1.1 U | 1.1 U | 1.1 U | 1.0 U | 1.0 U | 1.1 U |
| 8015B EFH | PHCC21C30 | EFH (C21-C30) | mg/kg | 0.76 J Z | 1.1 U | 1.1 U | 0.59 J Z | 1.0 U | 1.1 U |
| 8015B EFH | PHCC30C40 | EFH (C30-C40) | mg/kg | 2.2 | 0.73 J FD, Z | 1.3 J FD | 0.80 J Z | 1.0 U | 1.1 U |
| 8015B EFH | PHCC8C11 | EFH (C8-C11) | mg/kg | 1.1 U | 1.1 U | 1.1 U | 1.0 U | 1.0 U | 1.1 U |
| 8015B EFH | PHCC8C40 | Total EFH (C8-C40) | mg/kg | 3 | 0.73 J FD, Z | 1.3 J FD | 1.4 | 1.0 U | 1.1 U |

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

Appendix A24
TPHs-EFH-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-073-NBZ-SB-4.0-5.0 | SL-073-NBZ-SB-9.0-10.0 | SL-074-NBZ-SB-0.5-1.5 | SL-075-NBZ-SS-0.0-0.5 | SL-076-NBZ-SS-0.0-0.5 | SL-077-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/19/2012 | 03/19/2012 | 03/19/2012 | 03/20/2012 | 03/20/2012 | 03/20/2012 |
| | | | SDG | 12C164 | 12C164 | 12C164 | 12C182 | 12C182 | 12C182 |
| | | | Start Depth | 4 | 9 | 0.5 | 0 | 0 | 0 |
| | | | End Depth | 5 | 10 | 1.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B EFH | PHCC12C14 | EFH (C12-C14) | mg/kg | 1.1 U | 1.1 U | 1.0 U | 1.1 U | 2.5 | 0.63 J Z |
| 8015B EFH | PHCC15C20 | EFH (C15-C20) | mg/kg | 1.1 U | 1.1 U | 1.0 U | 2.4 | 4.1 | 1.5 |
| 8015B EFH | PHCC21C30 | EFH (C21-C30) | mg/kg | 1.1 U | 1.1 U | 0.59 J Z | 45 | 25 | 23 |
| 8015B EFH | PHCC30C40 | EFH (C30-C40) | mg/kg | 0.69 J Z | 1.1 U | 0.94 J Z | 44 | 31 | 34 |
| 8015B EFH | PHCC8C11 | EFH (C8-C11) | mg/kg | 1.1 U | 1.1 U | 1.0 U | 0.58 J Z | 2 | 1.2 U |
| 8015B EFH | PHCC8C40 | Total EFH (C8-C40) | mg/kg | 0.69 J Z | 1.1 U | 1.5 | 92 | 65 | 59 |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-077-NBZ-SB-2.5-3.5 | SL-078-NBZ-SS-0.0-0.5 | SL-079-NBZ-SS-0.0-0.5 | SL-080-NBZ-SS-0.0-0.5 | SL-081-NBZ-SS-0.0-0.5 | SL-082-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 03/20/2012 | 03/27/2012 | 03/30/2012 | 04/20/2012 | 04/18/2012 | 04/18/2012 |
| | | | SDG | 12C182 | 12C273 | 12C321 | 12D192 | 12D166 | 12D166 |
| | | | Start Depth | 2.5 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B EFH | PHCC12C14 | EFH (C12-C14) | mg/kg | 1.1 U | 1.1 U | 1.2 U | 1.2 U | 1.8 | 1.1 U |
| 8015B EFH | PHCC15C20 | EFH (C15-C20) | mg/kg | 1.1 U | 0.75 J Z | 1.2 U | 3.4 | 13 | 0.86 J Z |
| 8015B EFH | PHCC21C30 | EFH (C21-C30) | mg/kg | 1.6 | 5.1 | 2 | 29 | 27 | 23 |
| 8015B EFH | PHCC30C40 | EFH (C30-C40) | mg/kg | 1.5 | 11 | 4.5 | 44 | 46 | 30 |
| 8015B EFH | PHCC8C11 | EFH (C8-C11) | mg/kg | 1.1 U | 0.60 J Z | 0.60 J Z | 1.4 | 1.2 | 1.1 U |
| 8015B EFH | PHCC8C40 | Total EFH (C8-C40) | mg/kg | 3.1 | 17 | 7.1 | 78 | 89 | 54 |

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

Appendix A24
TPHs-EFH-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-082-NBZ-SB-2.5-3.5 | SL-083-NBZ-SS-0.0-0.5 | SL-084-NBZ-SS-0.0-0.5 | SL-085-NBZ-SS-0.0-0.5 | SL-086-NBZ-SS-0.0-0.5 | SL-087-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N | N | N | N | N | N |
| | | | Sample Date | 04/18/2012 | 04/18/2012 | 04/10/2012 | 04/10/2012 | 04/19/2012 | 04/19/2012 |
| | | | SDG | 12D166 | 12D166 | 12D092 | 12D092 | 12D176 | 12D176 |
| | | | Start Depth | 2.5 | 0 | 0 | 0 | 0 | 0 |
| | | | End Depth | 3.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B EFH | PHCC12C14 | EFH (C12-C14) | mg/kg | 1.1 U | 1.1 U | 1.2 U | 1.2 U | 1.3 U | 1.3 U |
| 8015B EFH | PHCC15C20 | EFH (C15-C20) | mg/kg | 1.1 U | 1.1 U | 2.4 | 1.8 | 2.7 | 1.1 J Z |
| 8015B EFH | PHCC21C30 | EFH (C21-C30) | mg/kg | 1.5 | 4.5 | 14 | 15 | 25 | 9 |
| 8015B EFH | PHCC30C40 | EFH (C30-C40) | mg/kg | 2.4 | 12 | 30 | 32 | 40 | 18 |
| 8015B EFH | PHCC8C11 | EFH (C8-C11) | mg/kg | 1.1 U | 1.1 U | 1.7 | 0.63 J Z | 2.2 | 0.69 J Z |
| 8015B EFH | PHCC8C40 | Total EFH (C8-C40) | mg/kg | 3.9 | 17 | 48 | 49 | 70 | 29 |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-088-NBZ-SS-0.0-0.5 | SL-089-NBZ-SS-0.0-0.5 | SL-090-NBZ-SS-0.0-0.5 | SL-091-NBZ-SS-0.0-0.5 | SL-091-NBZ-SB-4.0-5.0 | DUP-05-NBZ-QC-032912 |
| | | | Sample Type | N | N | N | N | N | FD |
| | | | Sample Date | 04/17/2012 | 04/20/2012 | 04/17/2012 | 03/29/2012 | 03/29/2012 | 03/29/2012 |
| | | | SDG | 12D154 | 12D192 | 12D154 | 12C305 | 12C305 | 12C305 |
| | | | Start Depth | 0 | 0 | 0 | 0 | 4 | 0 |
| | | | End Depth | 0.5 | 0.5 | 0.5 | 0.5 | 5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | |
| 8015B EFH | PHCC12C14 | EFH (C12-C14) | mg/kg | 0.76 J Z | 1.1 U | 1.2 U | 1.2 U | 1.2 U | 1.2 UJ FD |
| 8015B EFH | PHCC15C20 | EFH (C15-C20) | mg/kg | 3.7 | 1.9 | 2.2 | 1.7 | 1.2 U | 1.2 UJ FD |
| 8015B EFH | PHCC21C30 | EFH (C21-C30) | mg/kg | 25 | 14 | 18 | 16 | 0.81 J Z | 4.2 |
| 8015B EFH | PHCC30C40 | EFH (C30-C40) | mg/kg | 42 | 33 | 30 | 20 | 1.2 U | 8.6 |
| 8015B EFH | PHCC8C11 | EFH (C8-C11) | mg/kg | 0.97 J Z | 0.58 J Z | 0.70 J Z | 0.87 J Z | 0.70 J Z | 0.61 J FD, Z |
| 8015B EFH | PHCC8C40 | Total EFH (C8-C40) | mg/kg | 72 | 49 | 51 | 39 | 1.5 | 13 |

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

Appendix A24
TPHs-EFH-Validated Data
NBZ - Phases 1 and 2

| | | | | |
|---|---|---|---|---|
| | | | Sample Name | SL-092-NBZ-SS-0.0-0.5 |
| | | | Sample Type | N |
| | | | Sample Date | 03/29/2012 |
| | | | SDG | 12C305 |
| | | | Start Depth | 0 |
| | | | End Depth | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | |
| 8015B EFH | PHCC12C14 | EFH (C12-C14) | mg/kg | 1.9 J FD |
| 8015B EFH | PHCC15C20 | EFH (C15-C20) | mg/kg | 0.84 J FD, Z |
| 8015B EFH | PHCC21C30 | EFH (C21-C30) | mg/kg | 6.6 |
| 8015B EFH | PHCC30C40 | EFH (C30-C40) | mg/kg | 9.7 |
| 8015B EFH | PHCC8C11 | EFH (C8-C11) | mg/kg | 1.7 J FD |
| 8015B EFH | PHCC8C40 | Total EFH (C8-C40) | mg/kg | 21 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-002-NBZ-SB-4.5 | SL-002-NBZ-SB-8.0 | SL-003-NBZ-SB-4.5 | SL-005-NBZ-SB-4.5 | SL-006-NBZ-SB-3.5 | SL-007-NBZ-SB-4.5 | SL-007-NBZ-SB-9.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/12/2012 | 03/12/2012 | 03/12/2012 | 03/13/2012 | 03/13/2012 | 03/12/2012 | 03/12/2012 |
| | | | SDG | 12C096 | 12C096 | 12C096 | 12C106 | 12C106 | 12C096 | 12C096 |
| | | | Start Depth | 4.5 | 8 | 4.5 | 4.5 | 3.5 | 4.5 | 9.5 |
| | | | End Depth | 4.5 | 8 | 4.5 | 4.5 | 3.5 | 4.5 | 9.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B GRO | GROC5C12 | Gasoline Range Organics (C5-C12) | mg/kg | 0.99 U | 0.99 U | 1.1 U | 0.97 U | 1.1 U | 1.2 U | 1.0 U |

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

Appendix A25
TPHs-GRO-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-008-NBZ-SB-4.5 | SL-010-NBZ-SB-4.5 | SL-012-NBZ-SB-1.0 | SL-019-NBZ-SB-3.5 | SL-020-NBZ-SB-3.0 | SL-021-NBZ-SB-4.5 | SL-022-NBZ-SB-4.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 04/18/2012 | 03/12/2012 | 04/19/2012 | 03/13/2012 | 04/04/2012 | 03/13/2012 | 03/14/2012 |
| | | | SDG | 12D166 | 12C096 | 12D176 | 12C106 | 12D031 | 12C106 | 12C121 |
| | | | Start Depth | 4.5 | 4.5 | 1 | 3.5 | 3 | 4.5 | 4.5 |
| | | | End Depth | 4.5 | 4.5 | 1 | 3.5 | 3 | 4.5 | 4.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B GRO | GROC5C12 | Gasoline Range Organics (C5-C12) | mg/kg | 1.0 U | 1.1 U | 1.1 U | 1.1 U | 1.0 U | 1.0 U | 1.1 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-022-NBZ-SB-9.5 | SL-023-NBZ-SB-4.5 | SL-023-NBZ-SB-9.0 | SL-035-NBZ-SB-2.5 | SL-036-NBZ-SB-4.5 | SL-036-NBZ-SB-8.0 | SL-037-NBZ-SB-3.5 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/14/2012 | 03/14/2012 | 03/14/2012 | 04/03/2012 | 03/28/2012 | 03/28/2012 | 03/28/2012 |
| | | | SDG | 12C121 | 12C121 | 12C121 | 12D018 | 12C285 | 12C285 | 12C285 |
| | | | Start Depth | 9.5 | 4.5 | 9 | 2.5 | 4.5 | 8 | 3.5 |
| | | | End Depth | 9.5 | 4.5 | 9 | 2.5 | 4.5 | 8 | 3.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B GRO | GROC5C12 | Gasoline Range Organics (C5-C12) | mg/kg | 0.94 U | 1.1 U | 0.98 U | 2 | 1.1 U | 1.6 | 1.1 U |

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

Appendix A25
TPHs-GRO-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-039-NBZ-SB-2.5 | DUP-03-NBZ-QC-032812 | SL-040-NBZ-SB-3.0 | SL-045-NBZ-SB-4.5 | SL-046-NBZ-SB-4.5 | SL-047-NBZ-SB-4.5 | SL-048-NBZ-SB-4.5 |
| | | | Sample Type | N | FD | N | N | N | N | N |
| | | | Sample Date | 03/27/2012 | 03/28/2012 | 03/28/2012 | 03/26/2012 | 03/26/2012 | 03/23/2012 | 03/23/2012 |
| | | | SDG | 12C273 | 12C285 | 12C285 | 12C261 | 12C261 | 12C254 | 12C254 |
| | | | Start Depth | 2.5 | 2.5 | 3 | 4.5 | 4.5 | 4.5 | 4.5 |
| | | | End Depth | 2.5 | 3.5 | 3 | 4.5 | 4.5 | 4.5 | 4.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B GRO | GROC5C12 | Gasoline Range Organics (C5-C12) | mg/kg | 1.0 U | 1.0 U | 1.1 U | 1.1 U | 1.0 U | 1.1 U | 4.6 |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-049-NBZ-SB-2.5 | SL-051-NBZ-SB-2.0 | SL-053-NBZ-SB-4.0 | SL-056-NBZ-SB-3.5 | SL-058-NBZ-SB-4.5 | SL-061-NBZ-SB-1.5 | SL-062-NBZ-SB-3.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/23/2012 | 03/23/2012 | 03/15/2012 | 03/15/2012 | 03/15/2012 | 03/22/2012 | 03/21/2012 |
| | | | SDG | 12C254 | 12C254 | 12C135 | 12C135 | 12C135 | 12C229 | 12C209 |
| | | | Start Depth | 2.5 | 2 | 4 | 3.5 | 4.5 | 1.5 | 3 |
| | | | End Depth | 2.5 | 2 | 4 | 3.5 | 4.5 | 1.5 | 3 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B GRO | GROC5C12 | Gasoline Range Organics (C5-C12) | mg/kg | 1.0 U | 1.2 U | 1.1 U | 1.0 U | 1.1 U | 1.2 U | 1.1 U |

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

Appendix A25
TPHs-GRO-Validated Data
NBZ - Phases 1 and 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-063-NBZ-SB-1.0 | SL-064-NBZ-SB-1.0 | SL-065-NBZ-SB-1.5 | SL-066-NBZ-SB-2.5 | SL-067-NBZ-SB-2.0 | DUP-01-NBZ-QC-031612 | SL-068-NBZ-SB-3.0 |
| | | | Sample Type | N | N | N | N | N | FD | N |
| | | | Sample Date | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/21/2012 | 03/16/2012 | 03/16/2012 | 03/16/2012 |
| | | | SDG | 12C209 | 12C209 | 12C209 | 12C209 | 12C156 | 12C156 | 12C156 |
| | | | Start Depth | 1 | 1 | 1.5 | 2.5 | 2 | 2.5 | 3 |
| | | | End Depth | 1 | 1 | 1.5 | 2.5 | 2 | 3.5 | 3 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B GRO | GROC5C12 | Gasoline Range Organics (C5-C12) | mg/kg | 1.1 U | 1.2 U | 0.98 U | 1.0 U | 1.0 U | 1.1 U | 1.1 U |

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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | SL-069-NBZ-SB-3.5 | SL-071-NBZ-SB-4.5 | SL-072-NBZ-SB-4.5 | SL-073-NBZ-SB-4.5 | SL-073-NBZ-SB-9.5 | SL-074-NBZ-SB-1.0 | SL-077-NBZ-SB-3.0 |
| | | | Sample Type | N | N | N | N | N | N | N |
| | | | Sample Date | 03/20/2012 | 03/19/2012 | 03/16/2012 | 03/19/2012 | 03/19/2012 | 03/19/2012 | 03/20/2012 |
| | | | SDG | 12C182 | 12C164 | 12C156 | 12C164 | 12C164 | 12C164 | 12C182 |
| | | | Start Depth | 3.5 | 4.5 | 4.5 | 4.5 | 9.5 | 1 | 3 |
| | | | End Depth | 3.5 | 4.5 | 4.5 | 4.5 | 9.5 | 1 | 3 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | | | |
| 8015B GRO | GROC5C12 | Gasoline Range Organics (C5-C12) | mg/kg | 1.1 U | 1.2 U | 1.1 U | 0.99 U | 1.0 U | 1.0 U | 1.2 U |

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

Appendix A25
TPHs-GRO-Validated Data
NBZ - Phases 1 and 2

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | Sample Name | SL-082-NBZ-SB-3.0 | SL-087-NBZ-SS-0.5 | SL-091-NBZ-SB-4.5 |
| | | | Sample Type | N | N | N |
| | | | Sample Date | 04/18/2012 | 04/19/2012 | 03/29/2012 |
| | | | SDG | 12D166 | 12D176 | 12C305 |
| | | | Start Depth | 3 | 0 | 4.5 |
| | | | End Depth | 3 | 0.5 | 4.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | |
| 8015B GRO | GROC5C12 | Gasoline Range Organics (C5-C12) | mg/kg | 0.97 U | 1.3 U | 1.1 U |

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

| | | | | Sample Name | SL-012-NBZ-SB-1.0 | SL-020-NBZ-SB-3.0 | SL-039-NBZ-SB-2.5 | SL-087-NBZ-SS-0.5 |
|---|---|---|---|---|---|---|---|---|
| | | | | Sample Type | N | N | N | N |
| | | | | Sample Date | 04/19/2012 | 04/04/2012 | 03/27/2012 | 04/19/2012 |
| | | | | SDG | 12D176 | 12D031 | 12C273 | 12D176 |
| | | | | Start Depth | 1 | 3 | 2.5 | 0 |
| | | | | End Depth | 1 | 3 | 2.5 | 0.5 |
| Analytic Method | CAS Number | Chemical Name | Unit | | | | | |
| 8260B | 100-41-4 | Ethylbenzene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 100-42-5 | Styrene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 10061-01-5 | cis-1,3-Dichloropropene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 10061-02-6 | trans-1,3-Dichloropropene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 103-65-1 | n-Propylbenzene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 104-51-8 | n-Butylbenzene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 106-43-4 | 4-Chlorotoluene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 106-46-7 | 1,4-Dichlorobenzene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 106-93-4 | 1,2-Dibromoethane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 107-06-2 | 1,2-Dichloroethane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 108-10-1 | 4-Methyl-2-pentanone (MIBK) | µg/kg | 9.5 U | 11 U | 10 U | 12 U |
| 8260B | 108-67-8 | 1,3,5-Trimethylbenzene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 108-86-1 | Bromobenzene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 108-88-3 | Toluene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 108-90-7 | Chlorobenzene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 110-75-8 | 2-Chloroethyl Vinyl Ether | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 120-82-1 | 1,2,4-Trichlorobenzene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 124-48-1 | Dibromochloromethane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 127-18-4 | Tetrachloroethene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 135-98-8 | 2-Phenylbutane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 142-28-9 | 1,3-Dichloropropane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 156-59-2 | cis-1,2-Dichloroethene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 156-60-5 | trans-1,2-Dichloroethene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 1634-04-4 | Methyl Tert-Butyl Ether | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 179601-23-1 | m,p-Xylene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 541-73-1 | 1,3-Dichlorobenzene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 56-23-5 | Carbon Tetrachloride | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 563-58-6 | 1,1-Dichloropropene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 591-78-6 | 2-Hexanone | µg/kg | 9.5 U | 11 U | 10 U | 12 U |
| 8260B | 594-20-7 | 2,2-Dichloropropane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 630-20-6 | 1,1,1,2-Tetrachloroethane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 67-64-1 | Acetone | µg/kg | 9.5 U | 11 U | 10 U | 12 U |
| 8260B | 67-66-3 | Chloroform | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 71-43-2 | Benzene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 71-55-6 | 1,1,1-Trichloroethane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 74-83-9 | Bromomethane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 74-87-3 | Chloromethane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 74-95-3 | Dibromomethane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 74-97-5 | Bromochloromethane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 75-00-3 | Chloroethane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 75-01-4 | Vinyl Chloride | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 75-09-2 | Methylene Chloride | µg/kg | 4.7 U | 4.2 J Z | 5.1 U | 6.0 U |
| 8260B | 75-25-2 | Bromoform | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 75-27-4 | Bromodichloromethane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 75-34-3 | 1,1-Dichloroethane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 75-35-4 | 1,1-Dichloroethene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 75-69-4 | Trichlorofluoromethane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 UJ C |
| 8260B | 75-71-8 | Dichlorodifluoromethane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 75-88-7 | 2-Chloro-1,1,1-trifluoroethane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 78-87-5 | 1,2-Dichloropropane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 78-93-3 | 2-Butanone (MEK) | µg/kg | 9.5 U | 11 U | 10 U | 12 U |
| 8260B | 79-00-5 | 1,1,2-Trichloroethane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 79-01-6 | Trichloroethene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 79-34-5 | 1,1,2,2-Tetrachloroethane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 79-38-9 | Chlorotrifluoroethylene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 87-61-6 | 1,2,3-Trichlorobenzene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 87-68-3 | Hexachloro-1,3-butadiene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 95-47-6 | o-Xylene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 95-49-8 | 2-Chlorotoluene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 95-50-1 | 1,2-Dichlorobenzene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 95-63-6 | 1,2,4-Trimethylbenzene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 96-12-8 | 1,2-Dibromo-3-chloropropane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 96-18-4 | 1,2,3-Trichloropropane | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 98-06-6 | tert-Butylbenzene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 98-82-8 | Isopropylbenzene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |
| 8260B | 99-87-6 | Cymene | µg/kg | 4.7 U | 5.5 U | 5.1 U | 6.0 U |

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

# Appendix B
# Laboratory Reports
**(On CD)**

**Reporting Limit Note:**

For the NBZ sampling, CDM Smith also evaluated the RFI QAPP detection limits relative to risk-based soil criteria. There were several instances where risk-based soil values were lower than the RFI QAPP limits. To determine whether the analytical MDL could be lowered, method modifications were discussed with DTSC and LLI chemists at the time of implementation. The ability of the laboratory to achieve project reporting limits (RLs) and QC goals using these method modifications was checked by performing an RL study for a select set of samples for herbicide analysis (DOE Herbicide Method Verification Summary [CDM Smith March 13, 2012]. This study determined that these lower level RLs could not be verified through accuracy and precision studies on these method modifications. It was determined that for herbicides, pesticides and PCBs/PCTs these method modifications did not produce accurate and precise results at the lower method reporting limit (MRL). The laboratories supplied the preparation factors for the modified and standard methods and all associated nondetect RLs for these three methods were raised accordingly by multiplying the preparation factor against the current RLs. A procedure was established to perform this function in the database. A thorough quality control check system was developed to verify this RL adjustment. All sample data reported in this report has the corrected/adjusted RLs for herbicides, pesticides and PCBs/PCTs. If the result was adjusted the data was qualified with a "Y" flag.

The original nondetect sample results and reporting limits for both detect and nondetect results presented in the laboratory data summary packages (Appendix B), full laboratory data reports (on CD in project files) and validation reports (Appendix C) for these methods have been changed in the database. The adjusted results are accurately presented in Appendix A of this report and all associated databases. The results have been qualified with a "Y" qualifier.

Further details are provided in the main text and the above referenced verification summary is presented in Appendix G.

# SAMPLE DELIVERY GROUP

# DE296

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

March 30, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/14/2012
Group Number: 1295118
SDG: DE296
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-002-NBZ-SS-0.0-0.5 Soil | 6577275 |
| SL-002-NBZ-SB-4.0-5.0 Soil | 6577276 |
| SL-002-NBZ-SB-7.5-8.5 Soil | 6577277 |
| SL-003-NBZ-SS-0.0-0.5 Soil | 6577278 |
| SL-003-NBZ-SB-4.0-5.0 Soil | 6577279 |
| SL-007-NBZ-SB-4.0-5.0 Soil | 6577280 |
| SL-007-NBZ-SB-9.0-10.0 Soil | 6577281 |
| SL-010-NBZ-SB-4.0-5.0 Soil | 6577282 |
| SL-005-NBZ-SB-4.0-5.0 Soil | 6577283 |
| SL-006-NBZ-SB-3.0-4.0 Soil | 6577284 |
| SL-015-NBZ-SS-0.0-0.5 Soil | 6577285 |
| SL-021-NBZ-SS-0.0-0.5 Soil | 6577286 |
| SL-021-NBZ-SB-4.0-5.0 Soil | 6577287 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| 1 COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

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eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

# Analysis Report



**Sample Description:** SL-002-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-NBZ-SS

**LLI Sample # SW 6577275**
**LLI Group # 1295118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 11:15

Submitted: 03/14/2012 09:25
Reported: 03/30/2012 09:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9601 SDG#: DE296-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.3 | U | 17.3 | 34.5 | 1 |
| | The internal standard peak areas were outside of QC limits. The matrix spike and matrix spike duplicate samples were analyzed and internal standard peak areas were again outside of QC limits, indicating a matrix effect. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 620 | U | 620 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 3.4 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLB026 | 03/20/2012 17:34 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLB026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120770009A | 03/20/2012 18:07 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120770009A | 03/19/2012 10:30 | Joseph S Feister | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120770034A | 03/25/2012 18:23 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120770034A | 03/20/2012 07:20 | Katheryne V Sponheimer | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401A | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-002-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-NBZ-SB

**LLI Sample # SW 6577276**
**LLI Group # 1295118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 11:30

Submitted: 03/14/2012 09:25
Reported: 03/30/2012 09:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9602 SDG#: DE296-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.9 | U | 17.9 | 35.8 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 640 | U | 640 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.8 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.0 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLB026 | 03/20/2012 18:32 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLB026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120770009A | 03/20/2012 18:36 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120770009A | 03/19/2012 10:30 | Joseph S Feister | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120770034A | 03/25/2012 14:17 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120770034A | 03/20/2012 07:20 | Katheryne V Sponheimer | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401A | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-002-NBZ-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-NBZ-SB

**LLI Sample # SW 6577277**
**LLI Group # 1295118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 11:40

Submitted: 03/14/2012 09:25
Reported: 03/30/2012 09:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9603 SDG#: DE296-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 18.2 | U | 18.2 | 36.3 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 640 | U | 640 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.8 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.2 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLB026 | 03/20/2012 18:51 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLB026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120770009A | 03/20/2012 18:46 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120770009A | 03/19/2012 10:30 | Joseph S Feister | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120770034A | 03/25/2012 14:39 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120770034A | 03/20/2012 07:20 | Katheryne V Sponheimer | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401A | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-003-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-NBZ-SS

**LLI Sample # SW 6577278**
**LLI Group # 1295118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 08:50

Submitted: 03/14/2012 09:25
Reported: 03/30/2012 09:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9604 SDG#: DE296-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.5 | U | 17.5 | 34.9 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 630 | U | 630 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 4.6 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLB026 | 03/20/2012 19:29 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLB026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120770009A | 03/20/2012 18:55 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120770009A | 03/19/2012 10:30 | Joseph S Feister | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120770034A | 03/25/2012 18:46 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120770034A | 03/20/2012 07:20 | Katheryne V Sponheimer | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401A | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-003-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-NBZ-SB

**LLI Sample # SW 6577279**
**LLI Group # 1295118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 09:50

Submitted: 03/14/2012 09:25
Reported: 03/30/2012 09:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9605 SDG#: DE296-05

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.7 | U | 17.7 | 35.4 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 640 | U | 640 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 5.9 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLB026 | 03/20/2012 19:48 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLB026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120770009A | 03/20/2012 19:05 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120770009A | 03/19/2012 10:30 | Joseph S Feister | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120770034A | 03/25/2012 15:24 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120770034A | 03/20/2012 07:20 | Katheryne V Sponheimer | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401A | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-007-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-NBZ-SB

**LLI Sample # SW 6577280**
**LLI Group # 1295118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 15:50

Submitted: 03/14/2012 09:25
Reported: 03/30/2012 09:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9606 SDG#: DE296-06

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 18.1 | U | 18.1 | 36.2 | 1 |
| | The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and no target analytes were detected, the data is reported. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 650 | U | 650 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.8 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.0 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLB026 | 03/20/2012 20:07 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLB026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120770009A | 03/20/2012 19:14 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120770009A | 03/19/2012 10:30 | Joseph S Feister | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120770034A | 03/25/2012 15:46 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120770034A | 03/20/2012 07:20 | Katheryne V Sponheimer | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401B | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-007-NBZ-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-NBZ-SB

**LLI Sample # SW 6577281**
**LLI Group # 1295118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 16:00

Submitted: 03/14/2012 09:25
Reported: 03/30/2012 09:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9607 SDG#: DE296-07

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 18.3 | U | 18.3 | 36.5 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 650 | U | 650 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.8 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.8 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLB026 | 03/20/2012 20:27 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLB026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120770009A | 03/20/2012 19:33 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120770009A | 03/19/2012 10:30 | Joseph S Feister | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120770034A | 03/25/2012 16:09 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120770034A | 03/20/2012 07:20 | Katheryne V Sponheimer | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401B | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-010-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-NBZ-SB

**LLI Sample # SW 6577282**
**LLI Group # 1295118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 14:26

Submitted: 03/14/2012 09:25
Reported: 03/30/2012 09:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9608 SDG#: DE296-08

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.8 | U | 17.8 | 35.6 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 640 | U | 640 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 6.3 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLB026 | 03/20/2012 20:46 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLB026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120770009A | 03/20/2012 19:43 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120770009A | 03/19/2012 10:30 | Joseph S Feister | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120770034A | 03/25/2012 16:31 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120770034A | 03/20/2012 07:20 | Katheryne V Sponheimer | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401B | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-005-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-NBZ-SB

**LLI Sample # SW 6577283**
**LLI Group # 1295118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 10:25

Submitted: 03/14/2012 09:25
Reported: 03/30/2012 09:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9609 SDG#: DE296-09

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 18.3 | U | 18.3 | 36.7 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 660 | U | 660 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.8 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 9.1 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLB026 | 03/20/2012 21:04 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLB026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120770009A | 03/20/2012 19:52 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120770009A | 03/19/2012 10:30 | Joseph S Feister | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120770034A | 03/25/2012 16:54 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120770034A | 03/20/2012 07:20 | Katheryne V Sponheimer | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401B | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-006-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-NBZ-SB

**LLI Sample # SW 6577284**
**LLI Group # 1295118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 09:00

Submitted: 03/14/2012 09:25
Reported: 03/30/2012 09:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9610 SDG#: DE296-10

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.9 | U | 17.9 | 35.8 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 640 | U | 640 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 6.8 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLB026 | 03/20/2012 21:23 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLB026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120770009A | 03/20/2012 20:02 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120770009A | 03/19/2012 10:30 | Joseph S Feister | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120770034A | 03/25/2012 17:16 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120770034A | 03/20/2012 07:20 | Katheryne V Sponheimer | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401B | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-015-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-NBZ-SS

**LLI Sample # SW 6577285**
**LLI Group # 1295118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 11:30

Submitted: 03/14/2012 09:25
Reported: 03/30/2012 09:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9611 SDG#: DE296-11

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 16.9 | U | 16.9 | 33.8 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 600 | U | 600 | 1,500 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.5 | U | 1.5 | 3.5 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.5 | U | 1.5 | 3.5 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.5 | U | 1.5 | 3.5 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 1.5 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLB026 | 03/20/2012 21:42 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLB026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120770009A | 03/20/2012 20:11 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120770009A | 03/19/2012 10:30 | Joseph S Feister | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120770034A | 03/25/2012 17:38 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120770034A | 03/20/2012 07:20 | Katheryne V Sponheimer | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401B | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-021-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-NBZ-SS

**LLI Sample # SW 6577286**
**LLI Group # 1295118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 15:30

Submitted: 03/14/2012 09:25
Reported: 03/30/2012 09:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9612 SDG#: DE296-12

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.1 | U | 17.1 | 34.3 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 740 | J | 620 | 1,500 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.5 | U | 1.5 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 2.7 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLB026 | 03/20/2012 22:01 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLB026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120770009A | 03/20/2012 20:21 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120770009A | 03/19/2012 10:30 | Joseph S Feister | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120770034A | 03/25/2012 18:01 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120770034A | 03/20/2012 07:20 | Katheryne V Sponheimer | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401B | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-021-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-NBZ-SB

**LLI Sample # SW 6577287**
**LLI Group # 1295118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 15:45

Submitted: 03/14/2012 09:25
Reported: 03/30/2012 09:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9613 SDG#: DE296-13*

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.3 | U | 17.3 | 34.7 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 620 | U | 620 | 1,500 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 3.9 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLB026 | 03/20/2012 22:20 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLB026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120770009A | 03/20/2012 20:31 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120770009A | 03/19/2012 10:30 | Joseph S Feister | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120770034A | 03/25/2012 19:30 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120770034A | 03/20/2012 07:20 | Katheryne V Sponheimer | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401B | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1295118
Reported: 03/30/12 at 09:59 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12077SLB026 | Sample number(s): 6577275-6577287 | | | | | | | | |
| N-Nitrosodimethylamine | 16.7 U | 16.7 | 33.3 | ng/kg | 87 | | 70-130 | | |
| Batch number: 120770009A | Sample number(s): 6577275-6577287 | | | | | | | | |
| 20a Formaldehyde 8315A | 600 U | 600. | 1,500 | ug/kg | 104 | | 80-126 | | |
| Batch number: 120770034A | Sample number(s): 6577275-6577287 | | | | | | | | |
| m-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 101 | 103 | 64-111 | 2 | 20 |
| o-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 95 | 97 | 75-125 | 2 | 20 |
| p-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 99 | 101 | 69-109 | 2 | 20 |
| Batch number: 12082162401A | Sample number(s): 6577275-6577279 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Batch number: 12082162401B | Sample number(s): 6577280-6577287 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12077SLB026 | Sample number(s): 6577275-6577287 UNSPK: 6577275 | | | | | | | | |
| N-Nitrosodimethylamine | 80 | 79 | 70-130 | 2 | 30 | | | | |
| Batch number: 120770009A | Sample number(s): 6577275-6577287 UNSPK: 6577275 | | | | | | | | |
| 20a Formaldehyde 8315A | 85 | 99 | 80-120 | 16 | 50 | | | | |
| Batch number: 12082162401A | Sample number(s): 6577275-6577279 BKG: 6577276 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 7.0 | 7.0 | 0 | 20 |
| Batch number: 12082162401B | Sample number(s): 6577280-6577287 BKG: 6577280 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 8.0 | 8.0 | 1 | 20 |

## Surrogate Quality Control

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1295118
Reported: 03/30/12 at 09:59 AM

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21a NDMA by 1625C
Batch number: 12077SLB026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6577275 | 69 |
| 6577276 | 144 |
| 6577277 | 149 |
| 6577278 | 62 |
| 6577279 | 83 |
| 6577280 | 192* |
| 6577281 | 78 |
| 6577282 | 92 |
| 6577283 | 98 |
| 6577284 | 105 |
| 6577285 | 64 |
| 6577286 | 59 |
| 6577287 | 89 |
| Blank | 64 |
| LCS | 67 |
| MS | 63 |
| MSD | 66 |
| Limits: | 50-150 |

Analysis Name: 20a Formaldehyde 8315A
Batch number: 120770009A

| | Butyraldehyde |
|---|---|
| 6577275 | 113 |
| 6577276 | 105 |
| 6577277 | 108 |
| 6577278 | 121 |
| 6577279 | 99 |
| 6577280 | 107 |
| 6577281 | 106 |
| 6577282 | 97 |
| 6577283 | 109 |
| 6577284 | 107 |
| 6577285 | 95 |
| 6577286 | 115 |
| 6577287 | 111 |
| Blank | 108 |
| LCS | 101 |
| MS | 105 |
| MSD | 111 |
| Limits: | 64-126 |

Analysis Name: 22a Terphenyls by 8015B
Batch number: 120770034A

| | n-Triacontane-d62 |
|---|---|
| 6577275 | 182* |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1295118
Reported: 03/30/12 at 09:59 AM

## Surrogate Quality Control

| | |
|---|---|
| 6577276 | 91 |
| 6577277 | 86 |
| 6577278 | 213* |
| 6577279 | 90 |
| 6577280 | 84 |
| 6577281 | 81 |
| 6577282 | 100 |
| 6577283 | 154* |
| 6577284 | 119 |
| 6577285 | 133 |
| 6577286 | 94 |
| 6577287 | 157* |
| Blank | 223* |
| LCS | 296* |
| LCSD | 101 |
| Limits: | 19-152 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1295118 Sample# 6577275-87

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | PRIMARY ANALYSIS | SECONDARY ANALYSIS | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | |
| Samplers Signatures: | | | | | | |

| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B |
|---|---|---|---|---|---|---|---|---|---|
| SL-002-NBZ-SS-0.0-0.5 | 3.12.12 | 1115 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-002-NBZ-SB-4.0-5.0 | 3.12.12 | 1130 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-002-NBZ-SB-7.5-8.5 | 3.12.12 | 1140 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-003-NBZ-SS-0.0-0.5 | 3.12.12 | 0850 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-003-NBZ-SB-4.0-5.0 | 3.12.12 | 0950 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-007-NBZ-SB-4.0-5.0 | 3.12.12 | 1550 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-007-NBZ-SB-9.0-10.0 | 3.12.12 | 1600 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-010-NBZ-SB-4.0-5.0 | 3.12.12 | 1426 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-005-NBZ-SB-4.0-5.0 | 3.13.12 | 1025 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-006-NBZ-SB-3.0-4.0 | 3.13.12 | 0900 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-015-NBZ-SS-0.0-0.5 | 3.13.12 | 1130 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-021-NBZ-SS-0.0-0.5 | 3.13.12 | 1530 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-021-NBZ-SB-4.0-5.0 | 3.13.12 | 1545 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |

| Relinquished by: (*Signature*) | Date/Time | Received for Laboratory by: (*Signature*) | Laboratory: |
|---|---|---|---|
| | 3/13/2012 / 1630 | | Lancaster Laboratories, Inc. |
| **Received by: (*Signature*)** | **Date/Time** | **Airbill No.(s)** | |
| Brandy Burk | 3-14-12 925 | 8767 9858 7560 | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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# SAMPLE DELIVERY GROUP

# DE297

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

March 30, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/16/2012
Group Number: 1295739
SDG: DE297
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-019-NBZ-SB-3.0-4.0 Soil | 6580644 |
| SL-019-NBZ-SS-0.0-0.5 Soil | 6580645 |
| SL-022-NBZ-SB-4.0-5.0 Soil | 6580646 |
| SL-022-NBZ-SB-9.0-10.0 Soil | 6580647 |
| SL-023-NBZ-SB-4.0-5.0 Soil | 6580648 |
| SL-023-NBZ-SB-8.5-9.5 Soil | 6580649 |
| SL-022-NBZ-SS-0.0-0.5 Soil | 6580650 |
| SL-023-NBZ-SS-0.0-0.5 Soil | 6580651 |
| SL-024-NBZ-SS-0.0-0.5 Soil | 6580652 |
| SL-030-NBZ-SS-0.0-0.5 Soil | 6580653 |
| SL-029-NBZ-SS-0.0-0.5 Soil | 6580654 |
| SL-052-NBZ-SS-0.0-0.5 Soil | 6580655 |
| SL-058-NBZ-SS-0.0-0.5 Soil | 6580656 |
| EB-NBZ-SB-031512 Water | 6580657 |
| EB-NBZ-SS-031512 Water | 6580658 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| 1 COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-019-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-NBZ-SB

**LLI Sample # SW 6580644**
**LLI Group # 1295739**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 14:35

Submitted: 03/16/2012 10:25
Reported: 03/30/2012 10:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9701 SDG#: DE297-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.7 | U | 17.7 | 35.4 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 640 | U | 640 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 5.8 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLC026 | 03/20/2012 12:29 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLC026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120790002A | 03/21/2012 21:12 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120790002A | 03/20/2012 12:35 | Denise L Trimby | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120820008A | 03/25/2012 21:23 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120820008A | 03/23/2012 12:25 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402A | 03/22/2012 18:06 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-019-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-NBZ-SS

**LLI Sample # SW 6580645**
**LLI Group # 1295739**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 13:50

Submitted: 03/16/2012 10:25
Reported: 03/30/2012 10:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9702 SDG#: DE297-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.1 | U | 17.1 | 34.3 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 610 | U | 610 | 1,500 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.5 | U | 1.5 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 2.7 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLC026 | 03/20/2012 13:26 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLC026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120790002A | 03/21/2012 21:22 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120790002A | 03/20/2012 12:35 | Denise L Trimby | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120820008A | 03/26/2012 09:34 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120820008A | 03/23/2012 12:25 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402A | 03/22/2012 18:06 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-022-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-NBZ-SB

**LLI Sample # SW 6580646**
**LLI Group # 1295739**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 10:10

Submitted: 03/16/2012 10:25
Reported: 03/30/2012 10:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9703 SDG#: DE297-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.3 | U | 17.3 | 34.5 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 610 | U | 610 | 1,500 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.5 | U | 1.5 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 3.4 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLC026 | 03/20/2012 13:45 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLC026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120790002A | 03/21/2012 22:00 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120790002A | 03/20/2012 12:35 | Denise L Trimby | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120820008A | 03/25/2012 21:45 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120820008A | 03/23/2012 12:25 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402A | 03/22/2012 18:06 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-022-NBZ-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-NBZ-SB

**LLI Sample # SW 6580647**
**LLI Group # 1295739**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 10:20

Submitted: 03/16/2012 10:25
Reported: 03/30/2012 10:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9704 SDG#: DE297-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.6 | U | 17.6 | 35.2 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 630 | U | 630 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 5.4 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLC026 | 03/20/2012 14:04 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLC026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120790002A | 03/21/2012 22:09 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120790002A | 03/20/2012 12:35 | Denise L Trimby | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120820008A | 03/25/2012 22:07 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120820008A | 03/23/2012 12:25 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402A | 03/22/2012 18:06 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-023-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-NBZ-SB

**LLI Sample # SW 6580648**
**LLI Group # 1295739**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 12:45

Submitted: 03/16/2012 10:25
Reported: 03/30/2012 10:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9705 SDG#: DE297-05

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.2 | U | 17.2 | 34.4 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 620 | U | 620 | 1,500 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.5 | U | 1.5 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 3.1 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLC026 | 03/20/2012 14:23 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLC026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120790002A | 03/21/2012 22:19 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120790002A | 03/20/2012 12:35 | Denise L Trimby | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120820008A | 03/25/2012 22:30 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120820008A | 03/23/2012 12:25 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402A | 03/22/2012 18:06 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-023-NBZ-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-NBZ-SB

**LLI Sample # SW 6580649**
**LLI Group # 1295739**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 12:55

Submitted: 03/16/2012 10:25
Reported: 03/30/2012 10:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9706 SDG#: DE297-06

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.5 | U | 17.5 | 35.0 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 630 | U | 630 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 4.7 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLC026 | 03/20/2012 14:42 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLC026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120790002A | 03/21/2012 22:28 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120790002A | 03/20/2012 12:35 | Denise L Trimby | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120820008A | 03/25/2012 22:52 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120820008A | 03/23/2012 12:25 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402A | 03/22/2012 18:06 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-022-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-NBZ-SS

**LLI Sample # SW 6580650**
**LLI Group # 1295739**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 09:03

Submitted: 03/16/2012 10:25
Reported: 03/30/2012 10:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9707 SDG#: DE297-07

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 174 | U | 174 | 347 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 620 | U | 620 | 1,500 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 4.0 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLC026 | 03/20/2012 15:01 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLC026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120790002A | 03/21/2012 22:38 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120790002A | 03/20/2012 12:35 | Denise L Trimby | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120820008A | 03/26/2012 11:26 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120820008A | 03/23/2012 12:25 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402A | 03/22/2012 18:06 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-023-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-NBZ-SS

**LLI Sample # SW 6580651**
**LLI Group # 1295739**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 11:38

Submitted: 03/16/2012 10:25
Reported: 03/30/2012 10:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9708 SDG#: DE297-08

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 172 | U | 172 | 344 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 610 | U | 610 | 1,500 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.5 | U | 1.5 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 3.0 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLC026 | 03/20/2012 15:20 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLC026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120790002A | 03/21/2012 22:48 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120790002A | 03/20/2012 12:35 | Denise L Trimby | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120820008A | 03/26/2012 12:11 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120820008A | 03/23/2012 12:25 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402B | 03/22/2012 18:06 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-024-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-NBZ-SS

**LLI Sample # SW 6580652**
**LLI Group # 1295739**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 10:50

Submitted: 03/16/2012 10:25
Reported: 03/30/2012 10:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9709 SDG#: DE297-09

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.2 | U | 17.2 | 34.4 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 610 | U | 610 | 1,500 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.5 | U | 1.5 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 3.1 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLC026 | 03/20/2012 15:59 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLC026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120790002A | 03/21/2012 22:57 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120790002A | 03/20/2012 12:35 | Denise L Trimby | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120820008A | 03/26/2012 09:12 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120820008A | 03/23/2012 12:25 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402B | 03/22/2012 18:06 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-030-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-NBZ-SS

**LLI Sample # SW 6580653**
**LLI Group # 1295739**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 15:00

Submitted: 03/16/2012 10:25
Reported: 03/30/2012 10:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9710 SDG#: DE297-10

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 169 | U | 169 | 338 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 600 | U | 600 | 1,500 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.5 | U | 1.5 | 3.5 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.5 | U | 1.5 | 3.5 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.5 | U | 1.5 | 3.5 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 1.4 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLC026 | 03/20/2012 16:18 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLC026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120790002A | 03/21/2012 23:07 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120790002A | 03/20/2012 12:35 | Denise L Trimby | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120820008A | 03/26/2012 10:19 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120820008A | 03/23/2012 12:25 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402B | 03/22/2012 18:06 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-029-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-NBZ-SS

**LLI Sample # SW 6580654**
**LLI Group # 1295739**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 09:00

Submitted: 03/16/2012 10:25
Reported: 03/30/2012 10:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9711 SDG#: DE297-11

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 171 | U | 171 | 343 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 600 | U | 600 | 1,500 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.5 | U | 1.5 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 2.7 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLC026 | 03/20/2012 16:37 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLC026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120790002A | 03/21/2012 23:16 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120790002A | 03/20/2012 12:35 | Denise L Trimby | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120820008A | 03/26/2012 10:41 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120820008A | 03/23/2012 12:25 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402B | 03/22/2012 18:06 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-052-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-NBZ-SS

**LLI Sample # SW 6580655**
**LLI Group # 1295739**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 12:05

Submitted: 03/16/2012 10:25
Reported: 03/30/2012 10:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9712 SDG#: DE297-12

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 169 | U | 169 | 337 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 600 | U | 600 | 1,500 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.5 | U | 1.5 | 3.5 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.5 | U | 1.5 | 3.5 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.5 | U | 1.5 | 3.5 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 1.2 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLC026 | 03/20/2012 16:56 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLC026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120790002A | 03/21/2012 23:26 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120790002A | 03/20/2012 12:35 | Denise L Trimby | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120820008A | 03/26/2012 09:56 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120820008A | 03/23/2012 12:25 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402B | 03/22/2012 18:06 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-058-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-NBZ-SS

**LLI Sample # SW 6580656**
**LLI Group # 1295739**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 11:30

Submitted: 03/16/2012 10:25
Reported: 03/30/2012 10:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9713 SDG#: DE297-13

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.4 | U | 17.4 | 34.8 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 620 | U | 620 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 4.2 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12077SLC026 | 03/20/2012 17:15 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12077SLC026 | 03/19/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120790002A | 03/21/2012 23:45 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120790002A | 03/20/2012 12:35 | Denise L Trimby | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120820008A | 03/26/2012 08:49 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120820008A | 03/23/2012 12:25 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402B | 03/22/2012 18:06 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** EB-NBZ-SB-031512 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SB

**LLI Sample # WW 6580657**
**LLI Group # 1295739**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 15:00

Submitted: 03/16/2012 10:25
Reported: 03/30/2012 10:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9714 SDG#: DE297-14EB

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/l** | | **ng/l** | **ng/l** | |
| 10962 | N-Nitrosodimethylamine | 62-75-9 | 0.521 | U | 0.521 | 1.04 | 1 |
| | Reporting limits were raised due to limited sample volume. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/l** | | **ug/l** | **ug/l** | |
| 04144 | 20b Formaldehyde 8315A | 50-00-0 | 10 | U | 10 | 50 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/l** | | **mg/l** | **mg/l** | |
| 10319 | m-Terphenyl | 92-06-8 | 0.078 | U | 0.078 | 0.24 | 1 |
| 10319 | o-Terphenyl | 84-15-1 | 0.078 | U | 0.078 | 0.24 | 1 |
| 10319 | p-Terphenyl | 92-94-4 | 0.078 | U | 0.078 | 0.24 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10962 | 21b NDMA by 1625C | EPA 1625C | 1 | 12082WAD026 | 03/29/2012 09:38 | Matthew S Woods | 1 |
| 11629 | NDMA Liquid/Liquid Extraction | SW-846 3520C | 1 | 12082WAD026 | 03/22/2012 13:00 | Wanda F Oswald | 1 |
| 04144 | 20b Formaldehyde 8315A | SW-846 8315A | 1 | 120760020A | 03/19/2012 11:04 | Jamie L Brillhart | 1 |
| 01013 | Formaldehyde Extraction | SW-846 8315A | 1 | 120760020A | 03/16/2012 17:00 | Sally L Appleyard | 1 |
| 10319 | 22b Terphenyls by 8015B | SW-846 8015B | 1 | 120800017A | 03/25/2012 12:25 | Robert Brown | 1 |
| 10304 | Terphenyls water prep | SW-846 3510C | 1 | 120800017A | 03/21/2012 07:30 | Katheryne V Sponheimer | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** EB-NBZ-SS-031512 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SS

**LLI Sample # WW 6580658**
**LLI Group # 1295739**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 14:30

Submitted: 03/16/2012 10:25
Reported: 03/30/2012 10:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9715 SDG#: DE297-15EB*

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/l** | | **ng/l** | **ng/l** | |
| 10962 | N-Nitrosodimethylamine | 62-75-9 | 0.487 | U | 0.487 | 0.975 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/l** | | **ug/l** | **ug/l** | |
| 04144 | 20b Formaldehyde 8315A | 50-00-0 | 10 | U | 10 | 50 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/l** | | **mg/l** | **mg/l** | |
| 10319 | m-Terphenyl | 92-06-8 | 0.078 | U | 0.078 | 0.24 | 1 |
| 10319 | o-Terphenyl | 84-15-1 | 0.078 | U | 0.078 | 0.24 | 1 |
| 10319 | p-Terphenyl | 92-94-4 | 0.078 | U | 0.078 | 0.24 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10962 | 21b NDMA by 1625C | EPA 1625C | 1 | 12082WAD026 | 03/29/2012 09:57 | Matthew S Woods | 1 |
| 11629 | NDMA Liquid/Liquid Extraction | SW-846 3520C | 1 | 12082WAD026 | 03/22/2012 13:00 | Wanda F Oswald | 1 |
| 04144 | 20b Formaldehyde 8315A | SW-846 8315A | 1 | 120760020A | 03/19/2012 11:14 | Jamie L Brillhart | 1 |
| 01013 | Formaldehyde Extraction | SW-846 8315A | 1 | 120760020A | 03/16/2012 17:00 | Sally L Appleyard | 1 |
| 10319 | 22b Terphenyls by 8015B | SW-846 8015B | 1 | 120800017A | 03/25/2012 12:47 | Robert Brown | 1 |
| 10304 | Terphenyls water prep | SW-846 3510C | 1 | 120800017A | 03/21/2012 07:30 | Katheryne V Sponheimer | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1295739
Reported: 03/30/12 at 10:00 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12077SLC026 | Sample number(s): 6580644-6580656 | | | | | | | | | |
| N-Nitrosodimethylamine | 16.7 | U | 16.7 | 33.3 | ng/kg | 86 | | 70-130 | | |
| Batch number: 12082WAD026 | Sample number(s): 6580657-6580658 | | | | | | | | | |
| N-Nitrosodimethylamine | 0.500 | U | 0.500 | 1.00 | ng/l | 103 | 106 | 70-130 | 2 | 30 |
| Batch number: 120760020A | Sample number(s): 6580657-6580658 | | | | | | | | | |
| 20b Formaldehyde 8315A | 10 | U | 10. | 50 | ug/l | 110 | 94 | 69-130 | 16 | 30 |
| Batch number: 120790002A | Sample number(s): 6580644-6580656 | | | | | | | | | |
| 20a Formaldehyde 8315A | 630 J | | 600. | 1,500 | ug/kg | 105 | | 80-126 | | |
| Batch number: 120800017A | Sample number(s): 6580657-6580658 | | | | | | | | | |
| m-Terphenyl | 0.080 | U | 0.080 | 0.25 | mg/l | 100 | 104 | 61-108 | 4 | 20 |
| o-Terphenyl | 0.080 | U | 0.080 | 0.25 | mg/l | 92 | 96 | 75-125 | 4 | 20 |
| p-Terphenyl | 0.080 | U | 0.080 | 0.25 | mg/l | 98 | 100 | 63-110 | 2 | 20 |
| Batch number: 120820008A | Sample number(s): 6580644-6580656 | | | | | | | | | |
| m-Terphenyl | 1.5 | U | 1.5 | 3.5 | mg/kg | 103 | 106 | 64-111 | 3 | 20 |
| o-Terphenyl | 1.5 | U | 1.5 | 3.5 | mg/kg | 96 | 99 | 75-125 | 3 | 20 |
| p-Terphenyl | 1.5 | U | 1.5 | 3.5 | mg/kg | 100 | 104 | 69-109 | 3 | 20 |
| Batch number: 12082162402A | Sample number(s): 6580644-6580650 | | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 100 | | 80-120 | | |
| Batch number: 12082162402B | Sample number(s): 6580651-6580656 | | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 100 | | 80-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12077SLC026 | Sample number(s): 6580644-6580656 UNSPK: 6580644 | | | | | | | | |
| N-Nitrosodimethylamine | 67* | 81 | 70-130 | 20 | 30 | | | | |
| Batch number: 120790002A | Sample number(s): 6580644-6580656 UNSPK: 6580645 | | | | | | | | |
| 20a Formaldehyde 8315A | 99 | 99 | 80-120 | 2 | 50 | | | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1295739
Reported: 03/30/12 at 10:00 AM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12082162402A | Sample number(s): 6580644-6580650 | | | | | BKG: 6580647 | | | |
| Moisture Content by 160.3 | | | | | | 5.4 | 5.4 | 1 | 20 |
| Batch number: 12082162402B | Sample number(s): 6580651-6580656 | | | | | BKG: 6580651 | | | |
| Moisture Content by 160.3 | | | | | | 3.0 | 2.6 | 14 | 20 |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21a NDMA by 1625C
Batch number: 12077SLC026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6580644 | 83 |
| 6580645 | 76 |
| 6580646 | 81 |
| 6580647 | 92 |
| 6580648 | 99 |
| 6580649 | 83 |
| 6580650 | 86 |
| 6580651 | 82 |
| 6580652 | 76 |
| 6580653 | 93 |
| 6580654 | 89 |
| 6580655 | 90 |
| 6580656 | 82 |
| Blank | 79 |
| LCS | 79 |
| MS | 186* |
| MSD | 99 |
| Limits: | 50-150 |

Analysis Name: 21b. NDMA in Water
Batch number: 12082WAD026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6580657 | 86 |
| 6580658 | 90 |
| Blank | 95 |
| LCS | 98 |
| LCSD | 95 |
| Limits: | 50-150 |

Analysis Name: 20b Formaldehyde 8315A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1295739
Reported: 03/30/12 at 10:00 AM

## Surrogate Quality Control

Batch number: 120760020A

| | Butyraldehyde |
|---|---|
| 6580657 | 104 |
| 6580658 | 107 |
| Blank | 109 |
| LCS | 120 |
| LCSD | 94 |
| Limits: | 45-145 |

Analysis Name: 20a Formaldehyde 8315A
Batch number: 120790002A

| | Butyraldehyde |
|---|---|
| 6580644 | 101 |
| 6580645 | 101 |
| 6580646 | 101 |
| 6580647 | 102 |
| 6580648 | 103 |
| 6580649 | 104 |
| 6580650 | 99 |
| 6580651 | 102 |
| 6580652 | 100 |
| 6580653 | 101 |
| 6580654 | 104 |
| 6580655 | 101 |
| 6580656 | 103 |
| Blank | 102 |
| LCS | 102 |
| MS | 96 |
| MSD | 100 |
| Limits: | 64-126 |

Analysis Name: 22b Terphenyls by 8015B
Batch number: 120800017A

| | n-Triacontane-d62 |
|---|---|
| 6580657 | 102* |
| 6580658 | 103* |
| Blank | 111* |
| LCS | 103* |
| LCSD | 104* |
| Limits: | 46-100 |

Analysis Name: 22a Terphenyls by 8015B
Batch number: 120820008A

| | n-Triacontane-d62 |
|---|---|
| 6580644 | 107 |
| 6580645 | 136 |
| 6580646 | 102 |
| 6580647 | 103 |
| 6580648 | 100 |
| 6580649 | 104 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1295739
Reported: 03/30/12 at 10:00 AM

## Surrogate Quality Control

| | |
|---|---|
| 6580650 | 129 |
| 6580651 | 146 |
| 6580652 | 171* |
| 6580653 | 129 |
| 6580654 | 124 |
| 6580655 | 131 |
| 6580656 | 109 |
| Blank | 106 |
| LCS | 111 |
| LCSD | 114 |
| Limits: | 19-152 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1295739 sample# 6580644-58

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | PRIMARY ANALYSES | SECONDARY ANALYSES | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | |
| Samplers Signatures: | | | | | | |

| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B |
|---|---|---|---|---|---|---|---|---|---|
| SL-019-NBZ-SB-3.0-4.0 | 3.13.12 | 1435 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-019-NBZ-SB-0.0-0.5 SS | 3.13.12 | 1350 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-022-NBZ-SB-4.0-5.0 | 3.14.12 | 1010 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-022-NBZ-SB-9.0-10.0 | 3.14.12 | 1020 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-023-NBZ-SB-4.0-5.0 | 3.14.12 | 1245 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-023-NBZ-SB-8.5-9.5 | 3.14.12 | 1255 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-022-NBZ-SS-0.0-0.5 | 3.14.12 | 0903 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-023-NBZ-SS-0.0-0.5 | 3.14.12 | 1138 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-024-NBZ-SS-0.0-0.5 | 3.14.12 | 1050 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-030-NBZ-SS-0.0-0.5 | 3.14.12 | 1500 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-029-NBZ-SS-0.0-0.5 | 3.15.12 | 0900 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-052-NBZ-SS-0.0-0.5 | 3.15.12 | 1205 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |
| SL-058-NBZ-SS-0.0-0.5 | 3.15.12 | 1130 | SOIL | NONE | 1-8 oz Jar | X | X | X | X |

| Relinquished by: (*Signature*) | Date/Time | Received for Laboratory by: (*Signature*) | Laboratory: |
|---|---|---|---|
| | 3/15/2012 / 1630 | | Lancaster Laboratories, Inc. |
| Received by: (*Signature*) Suzette Lehman | Date/Time 3/16/12 1025 | Airbill No.(s) | |

SL-019-NBZ-SB-0.0-0.5 was updated to SL-019-NBZ-SS-0.0-0.5 per bottle labels.
This was confirmed by PH. NM 3/22/12

acct#13013 Cup#1295739 Sample# 6580644-58

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSES | | SECONDARY ANALYSES | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| EB-NBZ-SB-031512 | 03.15.12 | 1500 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SB-031512 | 03.15.12 | 1500 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| EB-NBZ-SB-031512 | 03.15.12 | 1430 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SB-031512 | 03.15.12 | 1430 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| Relinquished by: (*Signature*) | Date/Time 3/15/2012 / 1630 | | Received for Laboratory by: (*Signature*) Suzette Lehman | | | | | | | Laboratory: Lancaster Laboratories, Inc. |
| Received by: (*Signature*) Suzette Lehman | Date/Time 3/16/12 1025 | | Airbill No.(s) | | | | | | | |

**Nicole Maljovec**

**From:** Nicole Maljovec
**Sent:** Thursday, March 22, 2012 12:34 PM
**To:** Nicole Maljovec
**Subject:** FW: SSFL COC

**Attachments:** COC_LLI_03_21_12.xlsx

COC_LLI_03_21_12
.xlsx (17 KB)

Adjusted spacing to fit on one page- NLM 3/22/12 -----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Wednesday, March 21, 2012 7:47 PM
To: Nicole Maljovec; SA Env Entry
Subject: SSFL COC

Nicole,

You are right, it should be "SS".

We shipped samples and one set of EBs today. We will ship another set tomorrow.

Thanks!

Pam
Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

---

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Wednesday, March 21, 2012 8:20 AM
To: Hartman, Pamela
Subject: Sample Discrepancies

Hi Pam,
I don't think my emails made it to you. So I'm trying again, but this time I'm replying to one of your emails.

I have COC and sample label discrepancies for you. Both SL-019-NBZ-SB-0.0-0.5 and SL-NBZ-SB-0.0-0.5 (on COC) have "SS" on the bottle labels. Based on the depth, we assume the "SS" is correct.
Pleas confirm and I'll update the COCs.

Thanks!
Nicole
-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Tuesday, March 13, 2012 7:39 PM
To: Natalie R. Luciano; SA Env Entry
Cc: Nicole Maljovec
Subject: SSFL COC 3/13/12

Please see attached COC for samples to arrive tomorrow.

Thank you,
Pamela Hartman
CDM Smith
532 W 6th St #400
Los Angeles, CA 90014
Cell- 714-900-0916
Direct 818-466-8007

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# DE298

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 06, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/17/2012
Group Number: 1296007
SDG: DE298
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-053-NBZ-SS-0.0-0.5 Soil | 6582497 |
| SL-053-NBZ-SB-3.5-4.5 Soil | 6582498 |
| SL-056-NBZ-SS-0.0-0.5 Soil | 6582499 |
| SL-056-NBZ-SB-3.0-4.0 Soil | 6582500 |
| SL-067-NBZ-SB-1.5-2.5 Soil | 6582501 |
| SL-068-NBZ-SB-2.5-3.5 Soil | 6582502 |
| SL-068-NBZ-SB-2.5-3.5 MS Soil | 6582503 |
| SL-068-NBZ-SB-2.5-3.5 MSD Soil | 6582504 |
| SL-068-NBZ-SB-2.5-3.5 RL MS Soil | 6582505 |
| SL-068-NBZ-SB-2.5-3.5 RL LCS Soil | 6582506 |
| SL-072-NBZ-SB-4.0-5.0 Soil | 6582507 |
| DUP-01-NBZ-QC-031612 Soil | 6582508 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| 1 COPY TO | Data Package Group | |

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Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-053-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-NBZ-SS

**LLI Sample # SW 6582497**
**LLI Group # 1296007**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 14:20

Submitted: 03/17/2012 09:30
Reported: 04/06/2012 20:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9801 SDG#: DE298-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 169 | U | 169 | 338 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 610 | U | 610 | 1,500 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.5 | U | 1.5 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 1.6 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 15:01 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120810003A | 03/23/2012 19:34 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120810003A | 03/22/2012 20:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120860024A | 03/28/2012 21:34 | Tracy A Cole | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120860024A | 03/27/2012 10:30 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401A | 03/23/2012 17:42 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-053-NBZ-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-NBZ-SB

**LLI Sample # SW 6582498**
**LLI Group # 1296007**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 15:00

Submitted: 03/17/2012 09:30
Reported: 04/06/2012 20:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9802 SDG#: DE298-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.4 | U | 17.4 | 34.7 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 630 | U | 630 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 4.0 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 15:20 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120810003A | 03/23/2012 19:44 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120810003A | 03/22/2012 20:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120860024A | 03/28/2012 20:50 | Tracy A Cole | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120860024A | 03/27/2012 10:30 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401A | 03/23/2012 17:42 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-056-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-NBZ-SS

**LLI Sample # SW 6582499**
**LLI Group # 1296007**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 15:35

Submitted: 03/17/2012 09:30
Reported: 04/06/2012 20:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9803 SDG#: DE298-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 221 | U | 221 | 442 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 790 | U | 790 | 2,000 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 2.0 | U | 2.0 | 4.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 2.0 | U | 2.0 | 4.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 2.0 | U | 2.0 | 4.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 24.9 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 15:40 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120810003A | 03/23/2012 19:53 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120810003A | 03/22/2012 20:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120860024A | 03/28/2012 22:19 | Tracy A Cole | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120860024A | 03/27/2012 10:30 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401A | 03/23/2012 17:42 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-056-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-NBZ-SB

**LLI Sample # SW 6582500**
**LLI Group # 1296007**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 15:50

Submitted: 03/17/2012 09:30
Reported: 04/06/2012 20:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9804 SDG#: DE298-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 20.9 | U | 20.9 | 41.9 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 750 | U | 750 | 1,900 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.9 | U | 1.9 | 4.4 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.9 | U | 1.9 | 4.4 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.9 | U | 1.9 | 4.4 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 20.4 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 15:59 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120810003A | 03/23/2012 20:03 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120810003A | 03/22/2012 20:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120860024A | 03/28/2012 20:05 | Tracy A Cole | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120860024A | 03/27/2012 10:30 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401A | 03/23/2012 17:42 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-067-NBZ-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-NBZ-SB

**LLI Sample # SW 6582501**
**LLI Group # 1296007**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 11:45

Submitted: 03/17/2012 09:30
Reported: 04/06/2012 20:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9805 SDG#: DE298-05

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 18.0 | U | 18.0 | 36.1 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 910 | J | 640 | 1,600 | 1 |
| | Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts. | | | | | | |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.8 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.6 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 16:18 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120810003A | 03/23/2012 20:12 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120810003A | 03/22/2012 20:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120860024A | 03/28/2012 18:57 | Tracy A Cole | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120860024A | 03/27/2012 10:30 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401A | 03/23/2012 17:42 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-068-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-NBZ-SB

**LLI Sample # SW 6582502**
**LLI Group # 1296007**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 10:15

Submitted: 03/17/2012 09:30
Reported: 04/06/2012 20:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9806 SDG#: DE298-06BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 18.6 | U | 18.6 | 37.1 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 660 | U | 660 | 1,600 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.7 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 16:37 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120810003A | 03/23/2012 20:22 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120810003A | 03/22/2012 20:30 | Kelli M Barto | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 2 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-068-NBZ-SB-2.5-3.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-068-NBZ-SB

**LLI Sample # SW 6582503**
**LLI Group # 1296007**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 10:15

Submitted: 03/17/2012 09:30
Reported: 04/06/2012 20:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9806 SDG#: DE298-06MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | ng/kg | ng/kg | ng/kg | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 942 | 18.6 | 37.1 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | ug/kg | ug/kg | ug/kg | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 5,500 | 660 | 1,600 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 8.7 | 0.50 | 0.50 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 16:56 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120810003A | 03/23/2012 20:31 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120810003A | 03/22/2012 20:30 | Kelli M Barto | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 2 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-068-NBZ-SB-2.5-3.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-068-NBZ-SB

**LLI Sample # SW 6582504**
**LLI Group # 1296007**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 10:15

Submitted: 03/17/2012 09:30
Reported: 04/06/2012 20:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9806 SDG#: DE298-06MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 1,100 | 18.6 | 37.1 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 5,500 | 660 | 1,600 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | **%** | **%** | |
| 11626 | 28a Moisture Content by 160.3 | n.a. | 8.8 | 0.50 | 0.50 | 1 |
| | The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations. | | | | | |
| 11625 | Moisture Content by 160.3 | n.a. | 8.7 | 0.50 | 0.50 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 17:16 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120810003A | 03/23/2012 20:41 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120810003A | 03/22/2012 20:30 | Kelli M Barto | 1 |
| 11626 | 28a Moisture Content by 160.3 | EPA 160.3 modified | 2 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 2 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-068-NBZ-SB-2.5-3.5 RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-068-NBZ-SB

**LLI Sample # SW 6582505**
**LLI Group # 1296007**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 10:15

Submitted: 03/17/2012 09:30
Reported: 04/06/2012 20:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9806 SDG#: DE298-06RLR

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **HPLC Organics** | **SW-846 8315A** | | ug/kg | ug/kg | ug/kg | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 2,300 | 660 | 1,600 | 1 |
| | Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. Sufficient sample was not available to repeat the analysis. The client was contacted and the data reported. | | | | | |
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 8.7 | 0.50 | 0.50 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120810003A | 03/23/2012 21:00 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120810003A | 03/22/2012 20:30 | Kelli M Barto | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 2 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-068-NBZ-SB-2.5-3.5 RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-068-NBZ-SB

**LLI Sample # SW 6582506**
**LLI Group # 1296007**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 10:15

Submitted: 03/17/2012 09:30
Reported: 04/06/2012 20:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9806 SDG#: DE298-06RLQ

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 600 | U | 600 | 1,500 | 1 |
| | The holding time was not met. The client was notified and the data reported. | | | | | | |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | J | 1.5 | 3.5 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | J | 1.5 | 3.5 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | J | 1.5 | 3.5 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 2 | 120870007A | 03/29/2012 19:03 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 2 | 120870007A | 03/27/2012 13:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120860024A | 04/03/2012 19:59 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120860024A | 03/27/2012 10:30 | Olivia Arosemena | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-072-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-NBZ-SB

**LLI Sample # SW 6582507**
**LLI Group # 1296007**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 14:45

Submitted: 03/17/2012 09:30
Reported: 04/06/2012 20:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9807 SDG#: DE298-07

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 18.4 | U | 18.4 | 36.9 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 660 | U | 660 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 3.9 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 9.9 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 17:35 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120810003A | 03/23/2012 21:19 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120810003A | 03/22/2012 20:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120860024A | 03/28/2012 20:27 | Tracy A Cole | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120860024A | 03/27/2012 10:30 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401A | 03/23/2012 17:42 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** DUP-01-NBZ-QC-031612 Soil
SSFL Area IV Collocated Soil Sampling
DUP-01-NBZ

**LLI Sample # SW 6582508**
**LLI Group # 1296007**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 11:45

Submitted: 03/17/2012 09:30
Reported: 04/06/2012 20:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9808 SDG#: DE298-08FD*

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 18.2 | U | 18.2 | 36.3 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 660 | U | 660 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.8 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.5 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 17:54 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120810003A | 03/23/2012 21:29 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120810003A | 03/22/2012 20:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120860024A | 03/28/2012 19:42 | Tracy A Cole | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120860024A | 03/27/2012 10:30 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401A | 03/23/2012 17:42 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1296007
Reported: 04/06/12 at 08:30 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12086SLF026 | Sample number(s): 6582497-6582504,6582507-6582508 | | | | | | | | |
| N-Nitrosodimethylamine | 16.7 U | 16.7 | 33.3 | ng/kg | 114 | | 70-130 | | |
| Batch number: 120810003A | Sample number(s): 6582497-6582505,6582507-6582508 | | | | | | | | |
| 20a Formaldehyde 8315A | 1,300 J | 600. | 1,500 | ug/kg | 104 | | 80-126 | | |
| Batch number: 120870007A | Sample number(s): 6582506 | | | | | | | | |
| 20a Formaldehyde 8315A | 600 U | 600. | 1,500 | ug/kg | 96 | 87 | 80-126 | 10 | 50 |
| Batch number: 120860024A | Sample number(s): 6582497-6582501,6582506-6582508 | | | | | | | | |
| m-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 95 | 97 | 64-111 | 2 | 20 |
| o-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 93 | 95 | 75-125 | 2 | 20 |
| p-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 95 | 97 | 69-109 | 2 | 20 |
| Batch number: 12083162401A | Sample number(s): 6582497-6582501,6582507-6582508 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Batch number: 12086162401A | Sample number(s): 6582502-6582505 | | | | | | | | |
| 28a Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12086SLF026 | Sample number(s): 6582497-6582504,6582507-6582508 UNSPK: 6582502 | | | | | | | | |
| N-Nitrosodimethylamine | 102 | 119 | 70-130 | 16 | 30 | | | | |
| Batch number: 120810003A | Sample number(s): 6582497-6582505,6582507-6582508 UNSPK: 6582502 | | | | | | | | |
| 20a Formaldehyde 8315A | 101 | 100 | 80-120 | 0 | 50 | | | | |
| Batch number: 12083162401A | Sample number(s): 6582497-6582501,6582507-6582508 BKG: P582502 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 7.4 | 6.0 | 21* | 20 |
| Batch number: 12086162401A | Sample number(s): 6582502-6582505 BKG: 6582502 | | | | | | | | |
| 28a Moisture Content by 160.3 | | | | | | 8.7 | 8.8 | 1 | 20 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1296007
Reported: 04/06/12 at 08:30 PM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Moisture Content by 160.3 | | | | | | 8.7 | 8.8 | 1 | 20 |
| Moisture Content by 160.3 | | | | | | 8.7 | 8.8 | 1 | 20 |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21a NDMA by 1625C
Batch number: 12086SLF026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6582497 | 118 |
| 6582498 | 87 |
| 6582499 | 106 |
| 6582500 | 90 |
| 6582501 | 95 |
| 6582502 | 108 |
| 6582503 | 102 |
| 6582504 | 93 |
| 6582507 | 98 |
| 6582508 | 98 |
| Blank | 104 |
| LCS | 106 |
| MS | 102 |
| MSD | 93 |
| Limits: | 50-150 |

Analysis Name: 20a Formaldehyde 8315A
Batch number: 120810003A

| | Butyraldehyde |
|---|---|
| 6582497 | 96 |
| 6582498 | 103 |
| 6582499 | 101 |
| 6582500 | 94 |
| 6582501 | 102 |
| 6582502 | 97 |
| 6582503 | 100 |
| 6582504 | 97 |
| 6582505 | 100 |
| 6582507 | 99 |
| 6582508 | 103 |
| Blank | 100 |
| LCS | 99 |
| MS | 100 |
| MSD | 97 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1296007
Reported: 04/06/12 at 08:30 PM

## Surrogate Quality Control

Limits: 64-126

Analysis Name: 20a Formaldehyde 8315A
Batch number: 120870007A

| | Butyraldehyde |
|---|---|
| 6582506 | 86 |
| Blank | 86 |
| LCS | 73 |
| LCSD | 65 |

Limits: 64-126

Analysis Name: 22a Terphenyls by 8015B
Batch number: 120860024A

| | n-Triacontane-d62 |
|---|---|
| 6582497 | 93 |
| 6582498 | 84 |
| 6582499 | 93 |
| 6582500 | 80 |
| 6582501 | 79 |
| 6582506 | 76 |
| 6582507 | 79 |
| 6582508 | 78 |
| Blank | 76 |
| LCS | 84 |
| LCSD | 82 |

Limits: 19-152

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp# 1296007 Sample# 6582491-508

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSES | | SECONDARY ANALYSES | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C.<br><br>Samplers Signatures: | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-053-NBZ-SS-0.0-0.5 | 3.15.12 | 1420 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-053-NBZ-SB-3.5-4.5 | 3.15.12 | 1500 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-056-NBZ-~~SB~~-0.0-0.5 SS | 3.15.12 | 1535 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-056-NBZ-SB-3.0-4.0 | 3.15.12 | 1550 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-067-NBZ-SB-1.5-2.5 | 3.16.12 | 1145 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-068-NBZ-SB-2.5-3.5MS | 3.16.12 | 1015 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | MS/MSD |
| SL-072-NBZ-SB-4.0-5.0 | 3.16.12 | 1445 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| DUP-01-NBZ-QC-031612 | 3.16.12 | 1145 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| Relinquished by: (*Signature*) | Date/Time<br>3/16/2012 / 1630 | | Received for Laboratory by: (*Signature*) | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s)<br>8767 9858 7537 | | | | | | | |

3-17-12 930

SL-056-NBZ-SS-0.0-0.5 was updated per the bottle labels and confirmed by PH.
NLM 3/22/12

**Nicole Maljovec**

**From:** Nicole Maljovec
**Sent:** Thursday, March 22, 2012 12:34 PM
**To:** Nicole Maljovec
**Subject:** FW: SSFL COC

**Attachments:** COC_LLI_03_21_12.xlsx

COC_LLI_03_21_12
.xlsx (17 KB)

Adjusted spacing to fit on one page- NLM 3/22/12 -----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Wednesday, March 21, 2012 7:47 PM
To: Nicole Maljovec; SA Env Entry
Subject: SSFL COC

Nicole,

You are right, it should be "SS".

We shipped samples and one set of EBs today. We will ship another set tomorrow.

Thanks!

Pam
Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

---

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Wednesday, March 21, 2012 8:20 AM
To: Hartman, Pamela
Subject: Sample Discrepancies

Hi Pam,
I don't think my emails made it to you. So I'm trying again, but this time I'm replying to one of your emails.

I have COC and sample label discrepancies for you. Both SL-019-NBZ-SB-0.0-0.5 and SL-NBZ-SB-0.0-0.5 (on COC) have "SS" on the bottle labels. Based on the depth, we assume the "SS" is correct.
Pleas confirm and I'll update the COCs.

Thanks!
Nicole
-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Tuesday, March 13, 2012 7:39 PM
To: Natalie R. Luciano; SA Env Entry
Cc: Nicole Maljovec
Subject: SSFL COC 3/13/12

Please see attached COC for samples to arrive tomorrow.

Thank you,
Pamela Hartman
CDM Smith
532 W 6th St #400
Los Angeles, CA 90014
Cell- 714-900-0916
Direct 818-466-8007

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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# SAMPLE DELIVERY GROUP

# DE299

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 04, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/22/2012
Group Number: 1296971
SDG: DE299
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-071-NBZ-SB-4.0-5.0 Soil | 6587615 |
| SL-073-NBZ-SB-4.0-5.0 Soil | 6587616 |
| SL-073-NBZ-SB-9.0-10.0 Soil | 6587617 |
| SL-074-NBZ-SB-0.5-1.5 Soil | 6587618 |
| SL-069-NBZ-SB-3.0-4.0 Soil | 6587619 |
| SL-070-NBZ-SS-0.0-0.5 Soil | 6587620 |
| SL-075-NBZ-SS-0.0-0.5 Soil | 6587621 |
| SL-076-NBZ-SS-0.0-0.5 Soil | 6587622 |
| SL-077-NBZ-SS-0.0-0.5 Soil | 6587623 |
| SL-077-NBZ-SB-2.5-3.5 Soil | 6587624 |
| SL-065-NBZ-SB-1.0-2.0 Soil | 6587625 |
| SL-066-NBZ-SB-2.0-3.0 Soil | 6587626 |
| EB-NBZ-SS-032112 Water | 6587627 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| 1 COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-071-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-NBZ-SB

**LLI Sample # SW 6587615**
**LLI Group # 1296971**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/19/2012 09:35

Submitted: 03/22/2012 09:50
Reported: 04/04/2012 13:22

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9901 SDG#: DE299-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.2 | U | 17.2 | 34.4 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 620 | U | 620 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.5 | U | 1.5 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 3.4 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 18:33 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120840006A | 03/27/2012 21:38 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120840006A | 03/26/2012 14:30 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120880015A | 04/04/2012 00:33 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120880015A | 03/29/2012 02:30 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-073-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-NBZ-SB

**LLI Sample # SW 6587616**
**LLI Group # 1296971**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/19/2012 14:40

Submitted: 03/22/2012 09:50
Reported: 04/04/2012 13:22

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9902 SDG#: DE299-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 18.0 | U | 18.0 | 35.9 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 650 | U | 650 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.8 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.5 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 18:52 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120840006A | 03/27/2012 22:07 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120840006A | 03/26/2012 14:30 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120880015A | 04/04/2012 00:56 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120880015A | 03/29/2012 02:30 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-073-NBZ-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-NBZ-SB

**LLI Sample # SW 6587617**
**LLI Group # 1296971**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/19/2012 13:40

Submitted: 03/22/2012 09:50
Reported: 04/04/2012 13:22

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9903 SDG#: DE299-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 18.2 | U | 18.2 | 36.5 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 660 | U | 660 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.8 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.6 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 19:11 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120840006A | 03/27/2012 22:26 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120840006A | 03/26/2012 14:30 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120880015A | 04/04/2012 01:18 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120880015A | 03/29/2012 02:30 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-074-NBZ-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-NBZ-SB

**LLI Sample # SW 6587618**
**LLI Group # 1296971**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/19/2012 10:55

Submitted: 03/22/2012 09:50
Reported: 04/04/2012 13:22

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9904 SDG#: DE299-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.1 | U | 17.1 | 34.3 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 620 | U | 620 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 3.4 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 19:30 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120840006A | 03/27/2012 22:35 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120840006A | 03/26/2012 14:30 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120880015A | 04/04/2012 01:41 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120880015A | 03/29/2012 02:30 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-069-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-NBZ-SB

**LLI Sample # SW 6587619**
**LLI Group # 1296971**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 14:30

Submitted: 03/22/2012 09:50
Reported: 04/04/2012 13:22

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9905 SDG#: DE299-05

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.5 | U | 17.5 | 34.9 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 630 | U | 630 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 4.8 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 19:49 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120840006A | 03/27/2012 22:45 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120840006A | 03/26/2012 14:30 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120880015A | 04/04/2012 02:03 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120880015A | 03/29/2012 02:30 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-070-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-NBZ-SS

**LLI Sample # SW 6587620**
**LLI Group # 1296971**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 15:25

Submitted: 03/22/2012 09:50
Reported: 04/04/2012 13:22

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9906 SDG#: DE299-06

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 190 | U | 190 | 381 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 690 | U | 690 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 4.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 12.7 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 20:08 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120840006A | 03/27/2012 22:55 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120840006A | 03/26/2012 14:30 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120880015A | 04/04/2012 05:03 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120880015A | 03/29/2012 02:30 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-075-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-NBZ-SS

**LLI Sample # SW 6587621**
**LLI Group # 1296971**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 09:00

Submitted: 03/22/2012 09:50
Reported: 04/04/2012 13:22

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9907 SDG#: DE299-07

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 182 | U | 182 | 363 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 660 | U | 660 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.8 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.9 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 20:28 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120840006A | 03/27/2012 23:04 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120840006A | 03/26/2012 14:30 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120880015A | 04/04/2012 05:48 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120880015A | 03/29/2012 02:30 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-076-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-NBZ-SS

**LLI Sample # SW 6587622**
**LLI Group # 1296971**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 09:35

Submitted: 03/22/2012 09:50
Reported: 04/04/2012 13:22

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9908 SDG#: DE299-08

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 190 | U | 190 | 381 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 690 | U | 690 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 4.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 12.7 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 20:47 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120840006A | 03/27/2012 23:14 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120840006A | 03/26/2012 14:30 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120880015A | 04/04/2012 06:32 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120880015A | 03/29/2012 02:30 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-077-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-NBZ-SS

**LLI Sample # SW 6587623**
**LLI Group # 1296971**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 10:20

Submitted: 03/22/2012 09:50
Reported: 04/04/2012 13:22

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9909 SDG#: DE299-09

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 193 | U | 193 | 386 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 700 | U | 700 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 4.1 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 4.1 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 4.1 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 14.0 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 21:06 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120840006A | 03/27/2012 23:23 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120840006A | 03/26/2012 14:30 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120880015A | 04/04/2012 07:18 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120880015A | 03/29/2012 02:30 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-077-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-NBZ-SB

**LLI Sample # SW 6587624**
**LLI Group # 1296971**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 10:50

Submitted: 03/22/2012 09:50
Reported: 04/04/2012 13:22

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9910 SDG#: DE299-10

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.7 | U | 17.7 | 35.4 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 640 | U | 640 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 6.2 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 21:25 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120840006A | 03/27/2012 23:33 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120840006A | 03/26/2012 14:30 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120880015A | 04/04/2012 03:11 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120880015A | 03/29/2012 02:30 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-065-NBZ-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-NBZ-SB

**LLI Sample # SW 6587625**
**LLI Group # 1296971**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 10:55

Submitted: 03/22/2012 09:50
Reported: 04/04/2012 13:22

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9911 SDG#: DE299-11

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.6 | U | 17.6 | 35.2 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 640 | U | 640 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 5.7 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 22:03 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120840006A | 03/27/2012 23:42 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120840006A | 03/26/2012 14:30 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120880015A | 04/04/2012 03:33 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120880015A | 03/29/2012 02:30 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-066-NBZ-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-NBZ-SB

**LLI Sample # SW 6587626**
**LLI Group # 1296971**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 09:30

Submitted: 03/22/2012 09:50
Reported: 04/04/2012 13:22

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9912 SDG#: DE299-12

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.1 | U | 17.1 | 34.2 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 620 | U | 620 | 1,500 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.5 | U | 1.5 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 2.8 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12086SLF026 | 03/29/2012 22:22 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12086SLF026 | 03/27/2012 03:30 | Sherry L Morrow | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120840006A | 03/27/2012 23:52 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120840006A | 03/26/2012 14:30 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120880015A | 04/04/2012 02:26 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120880015A | 03/29/2012 02:30 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** EB-NBZ-SS-032112 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SS

**LLI Sample # WW 6587627**
**LLI Group # 1296971**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 15:00

Submitted: 03/22/2012 09:50
Reported: 04/04/2012 13:22

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E9913 SDG#: DE299-13EB*

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/l** | | **ng/l** | **ng/l** | |
| 10962 | N-Nitrosodimethylamine | 62-75-9 | 0.478 | U | 0.478 | 0.957 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/l** | | **ug/l** | **ug/l** | |
| 04144 | 20b Formaldehyde 8315A | 50-00-0 | 10 | U | 10 | 50 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/l** | | **mg/l** | **mg/l** | |
| 10319 | m-Terphenyl | 92-06-8 | 0.076 | U | 0.076 | 0.24 | 1 |
| 10319 | o-Terphenyl | 84-15-1 | 0.076 | U | 0.076 | 0.24 | 1 |
| 10319 | p-Terphenyl | 92-94-4 | 0.076 | U | 0.076 | 0.24 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10962 | 21b NDMA by 1625C | EPA 1625C | 1 | 12084WAF026 | 03/29/2012 22:41 | Matthew S Woods | 1 |
| 11629 | NDMA Liquid/Liquid Extraction | SW-846 3520C | 1 | 12084WAF026 | 03/25/2012 10:45 | Joseph S Feister | 1 |
| 04144 | 20b Formaldehyde 8315A | SW-846 8315A | 1 | 120830001A | 03/24/2012 04:00 | James H Place | 1 |
| 01013 | Formaldehyde Extraction | SW-846 8315A | 1 | 120830001A | 03/23/2012 12:15 | Kelli M Barto | 1 |
| 10319 | 22b Terphenyls by 8015B | SW-846 8015B | 1 | 120860031A | 03/29/2012 00:11 | Tracy A Cole | 1 |
| 10304 | Terphenyls water prep | SW-846 3510C | 1 | 120860031A | 03/27/2012 09:20 | William H Saadeh | 1 |

*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1296971
Reported: 04/04/12 at 01:22 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12084WAF026 | Sample number(s): 6587627 | | | | | | | | | |
| N-Nitrosodimethylamine | 0.500 | U | 0.500 | 1.00 | ng/l | 101 | 107 | 70-130 | 6 | 30 |
| Batch number: 12086SLF026 | Sample number(s): 6587615-6587626 | | | | | | | | | |
| N-Nitrosodimethylamine | 16.7 | U | 16.7 | 33.3 | ng/kg | 114 | | 70-130 | | |
| Batch number: 120830001A | Sample number(s): 6587627 | | | | | | | | | |
| 20b Formaldehyde 8315A | 10 | U | 10. | 50 | ug/l | 102 | | 69-130 | | |
| Batch number: 120840006A | Sample number(s): 6587615-6587626 | | | | | | | | | |
| 20a Formaldehyde 8315A | 600 U | | 600. | 1,500 | ug/kg | 109 | | 80-126 | | |
| Batch number: 120860031A | Sample number(s): 6587627 | | | | | | | | | |
| m-Terphenyl | 0.080 | U | 0.080 | 0.25 | mg/l | 96 | 100 | 61-108 | 4 | 20 |
| o-Terphenyl | 0.080 | U | 0.080 | 0.25 | mg/l | 92 | 94 | 75-125 | 2 | 20 |
| p-Terphenyl | 0.080 | U | 0.080 | 0.25 | mg/l | 94 | 98 | 63-110 | 4 | 20 |
| Batch number: 120880015A | Sample number(s): 6587615-6587626 | | | | | | | | | |
| m-Terphenyl | 1.5 | U | 1.5 | 3.5 | mg/kg | 101 | 117* | 64-111 | 15 | 20 |
| o-Terphenyl | 1.5 | U | 1.5 | 3.5 | mg/kg | 97 | 114 | 75-125 | 16 | 20 |
| p-Terphenyl | 1.5 | U | 1.5 | 3.5 | mg/kg | 99 | 116* | 69-109 | 15 | 20 |
| Batch number: 12083162401B | Sample number(s): 6587615-6587626 | | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 100 | | 80-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12086SLF026 | Sample number(s): 6587615-6587626 UNSPK: P582502 | | | | | | | | |
| N-Nitrosodimethylamine | 102 | 119 | 70-130 | 16 | 30 | | | | |
| Batch number: 120830001A | Sample number(s): 6587627 UNSPK: P587460 | | | | | | | | |
| 20b Formaldehyde 8315A | 92 | 92 | 80-120 | 0 | 30 | | | | |
| Batch number: 120840006A | Sample number(s): 6587615-6587626 UNSPK: 6587615 | | | | | | | | |
| 20a Formaldehyde 8315A | 110 | 112 | 80-120 | 1 | 50 | | | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1296971
Reported: 04/04/12 at 01:22 PM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12083162401B | Sample number(s): 6587615-6587626 | | | | | BKG: 6587616 | | | |
| Moisture Content by 160.3 | | | | | | 7.5 | 7.6 | 2 | 20 |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21b. NDMA in Water
Batch number: 12084WAF026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6587627 | 168* |
| Blank | 99 |
| LCS | 104 |
| LCSD | 92 |
| Limits: | 50-150 |

Analysis Name: 21a NDMA by 1625C
Batch number: 12086SLF026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6587615 | 104 |
| 6587616 | 108 |
| 6587617 | 101 |
| 6587618 | 94 |
| 6587619 | 99 |
| 6587620 | 133 |
| 6587621 | 126 |
| 6587622 | 119 |
| 6587623 | 114 |
| 6587624 | 91 |
| 6587625 | 82 |
| 6587626 | 86 |
| Blank | 104 |
| LCS | 106 |
| MS | 102 |
| MSD | 93 |
| Limits: | 50-150 |

Analysis Name: 20b Formaldehyde 8315A
Batch number: 120830001A

| | Butyraldehyde |
|---|---|
| 6587627 | 101 |
| Blank | 105 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1296971
Reported: 04/04/12 at 01:22 PM

## Surrogate Quality Control

| | |
|---|---|
| LCS | 100 |
| MS | 106 |
| MSD | 106 |

Limits: 45-145

Analysis Name: 20a Formaldehyde 8315A
Batch number: 120840006A

Butyraldehyde

| | |
|---|---|
| 6587615 | 104 |
| 6587616 | 100 |
| 6587617 | 102 |
| 6587618 | 100 |
| 6587619 | 102 |
| 6587620 | 101 |
| 6587621 | 98 |
| 6587622 | 101 |
| 6587623 | 103 |
| 6587624 | 100 |
| 6587625 | 100 |
| 6587626 | 101 |
| Blank | 103 |
| LCS | 100 |
| MS | 100 |
| MSD | 101 |

Limits: 64-126

Analysis Name: 22b Terphenyls by 8015B
Batch number: 120860031A

n-Triacontane-d62

| | |
|---|---|
| 6587627 | 78 |
| Blank | 83 |
| LCS | 81 |
| LCSD | 82 |

Limits: 46-100

Analysis Name: 22a Terphenyls by 8015B
Batch number: 120880015A

n-Triacontane-d62

| | |
|---|---|
| 6587615 | 76 |
| 6587616 | 82 |
| 6587617 | 82 |
| 6587618 | 77 |
| 6587619 | 77 |
| 6587620 | 97 |
| 6587621 | 127 |
| 6587622 | 94 |
| 6587623 | 92 |
| 6587624 | 93 |
| 6587625 | 83 |
| 6587626 | 78 |
| Blank | 75 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1296971
Reported: 04/04/12 at 01:22 PM

## Surrogate Quality Control

| | |
|---|---|
| LCS | 77 |
| LCSD | 82 |
| Limits: | 19-152 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Ap# 1296971 Sample# 6587615-27

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | PRIMARY ANALYSIS | SECONDARY ANALYSIS | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| SL-071-NBZ-SB-4.0-5.0 | 3/19/12 | 0935 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-073-NBZ-SB-4.0-5.0 | 3/19/12 | 1440 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-073-NBZ-SB-9.0-10.0 | 3/19/12 | 1340 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-074-NBZ-SB-0.5-1.5 | 3/19/12 | 1055 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-069-NBZ-SB-3.0-4.0 | 3/20/12 | 1430 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-070-NBZ-SB-0.0-0.5 SS | 3/20/12 | 1525 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-075-NBZ-SS-0.0-0.5 | 3/20/12 | 0900 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-076-NBZ-SS-0.0-0.5 | 3/201/2 | 0935 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-077-NBZ-SB-0.0-0.5 SS | 3/20/12 | 1020 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-077-NBZ-SB-2.5-3.5 | 3/20/12 | 1050 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-065-NBZ-SB-1.0-2.0 | 3/21/12 | 1055 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-066-NBZ-SB-2.0-3.0 | 3/21/12 | 0930 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| EB-NBZ-SS-032112 | 03.21.12 | 1500 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SS-032112 | 03.21.12 | 1500 | WATER | NONE | 1-250 mL glass | X | X | X | X | |

| Relinquished by: (*Signature*) | Date/Time | Received for Laboratory by: (*Signature*) | Laboratory: |
|---|---|---|---|
| | 3/20/2012 / 1630 | LLI 3/22/12 0950 | Lancaster Laboratories, Inc. |
| **Received by: (*Signature*)** | **Date/Time** | **Airbill No.(s)** | |

The above changes were made per the bottle labels and were confirmed by PH.
NM 3/23/12

**Nicole Maljovec**

**From:** Hartman, Pamela [HartmanPM@cdmsmith.com]
**Sent:** Friday, March 23, 2012 2:13 PM
**To:** Nicole Maljovec
**Subject:** RE: SSFL 3/21: 2 Sample ID Discrepancies

Yes, they should be SS. Thank you!!

Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

---

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Friday, March 23, 2012 10:09 AM
To: Hartman, Pamela
Subject: SSFL 3/21: 2 Sample ID Discrepancies

Hi Pam,
We found two sample discrepancies between the COC and bottle labels for the 3/21 COC. It looks like samples SL-070 and SL-077 @0.0-0.5 should be "SS" per the depths and bottle labels. Can you confirm?

Thanks!
Nicole

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# DE300

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 05, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/23/2012
Group Number: 1297264
SDG: DE300
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-062-NBZ-SB-2.5-3.5 Soil | 6589217 |
| SL-063-NBZ-SB-0.5-1.5 Soil | 6589218 |
| SL-064-NBZ-SB-0.5-1.5 Soil | 6589219 |
| SL-054-NBZ-SS-0.0-0.5 Soil | 6589220 |
| SL-055-NBZ-SS-0.0-0.5 Soil | 6589221 |
| SL-059-NBZ-SS-0.0-0.5 Soil | 6589222 |
| SL-060-NBZ-SS-0.0-0.5 Soil | 6589223 |
| SL-061-NBZ-SB-1.0-2.0 Soil | 6589224 |
| EB-NBZ-SB-032212 Water | 6589225 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| 1 COPY TO | Data Package Group | |

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Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-062-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-NBZ-SB

**LLI Sample # SW 6589217**
**LLI Group # 1297264**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 15:40

Submitted: 03/23/2012 09:10
Reported: 04/05/2012 11:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0001 SDG#: DE300-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.2 | U | 17.2 | 34.5 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 620 | U | 620 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 3.6 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12088SLB026 | 03/30/2012 11:03 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12088SLB026 | 03/29/2012 07:00 | Joseph S Feister | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120840006A | 03/28/2012 00:11 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120840006A | 03/26/2012 14:30 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120880015A | 04/04/2012 04:18 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120880015A | 03/29/2012 02:30 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-063-NBZ-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-NBZ-SB

**LLI Sample # SW 6589218**
**LLI Group # 1297264**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 14:45

Submitted: 03/23/2012 09:10
Reported: 04/05/2012 11:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0002 SDG#: DE300-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 190 | U | 190 | 380 | 10 |
| | Reporting limits were raised due to limited sample volume. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 690 | U | 690 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 4.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 12.5 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12088SLB026 | 03/30/2012 11:22 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12088SLB026 | 03/29/2012 07:00 | Joseph S Feister | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120840006A | 03/28/2012 00:20 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120840006A | 03/26/2012 14:30 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120880015A | 04/04/2012 09:40 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120880015A | 03/29/2012 02:30 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-064-NBZ-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-NBZ-SB

**LLI Sample # SW 6589219**
**LLI Group # 1297264**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 13:30

Submitted: 03/23/2012 09:10
Reported: 04/05/2012 11:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0003 SDG#: DE300-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.6 | U | 17.6 | 35.2 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 630 | U | 630 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 5.3 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12088SLB026 | 03/30/2012 11:41 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12088SLB026 | 03/29/2012 07:00 | Joseph S Feister | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120840006A | 03/28/2012 00:30 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120840006A | 03/26/2012 14:30 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120880015A | 04/04/2012 02:48 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120880015A | 03/29/2012 02:30 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-054-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-NBZ-SS

**LLI Sample # SW 6589220**
**LLI Group # 1297264**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 13:45

Submitted: 03/23/2012 09:10
Reported: 04/05/2012 11:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0004 SDG#: DE300-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.9 | U | 17.9 | 35.8 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 650 | U | 650 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.8 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.6 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12088SLB026 | 03/30/2012 12:00 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12088SLB026 | 03/29/2012 07:00 | Joseph S Feister | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120840006A | 03/28/2012 00:39 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120840006A | 03/26/2012 14:30 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120880015A | 04/04/2012 12:40 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120880015A | 03/29/2012 02:30 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-055-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-NBZ-SS

**LLI Sample # SW 6589221**
**LLI Group # 1297264**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 11:25

Submitted: 03/23/2012 09:10
Reported: 04/05/2012 11:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0005 SDG#: DE300-05

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 183 | U | 183 | 367 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 660 | U | 660 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 3.9 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 9.7 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12088SLB026 | 03/30/2012 12:19 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12088SLB026 | 03/29/2012 07:00 | Joseph S Feister | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120840006A | 03/28/2012 00:49 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120840006A | 03/26/2012 14:30 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120880015A | 04/04/2012 10:25 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120880015A | 03/29/2012 02:30 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-059-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-NBZ-SS

**LLI Sample # SW 6589222**
**LLI Group # 1297264**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 10:50

Submitted: 03/23/2012 09:10
Reported: 04/05/2012 11:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0006 SDG#: DE300-06

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 179 | U | 179 | 358 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 650 | U | 650 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.8 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.8 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12088SLB026 | 03/30/2012 12:37 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12088SLB026 | 03/29/2012 07:00 | Joseph S Feister | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120840006A | 03/28/2012 00:59 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120840006A | 03/26/2012 14:30 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120880015A | 04/04/2012 04:40 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120880015A | 03/29/2012 02:30 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-060-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-NBZ-SS

**LLI Sample # SW 6589223**
**LLI Group # 1297264**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 10:25

Submitted: 03/23/2012 09:10
Reported: 04/05/2012 11:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0007 SDG#: DE300-07

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 177 | U | 177 | 353 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 640 | U | 640 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 5.7 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12088SLB026 | 03/30/2012 12:57 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12088SLB026 | 03/29/2012 07:00 | Joseph S Feister | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120840006A | 03/28/2012 01:08 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120840006A | 03/26/2012 14:30 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120880015A | 04/04/2012 11:55 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120880015A | 03/29/2012 02:30 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-061-NBZ-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-NBZ-SB

**LLI Sample # SW 6589224**
**LLI Group # 1297264**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 09:30

Submitted: 03/23/2012 09:10
Reported: 04/05/2012 11:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0008 SDG#: DE300-08

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.4 | U | 17.4 | 34.9 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 630 | U | 630 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 4.7 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12088SLB026 | 03/30/2012 13:16 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12088SLB026 | 03/29/2012 07:00 | Joseph S Feister | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120840006A | 03/28/2012 01:18 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120840006A | 03/26/2012 14:30 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120880015A | 04/04/2012 11:10 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120880015A | 03/29/2012 02:30 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** EB-NBZ-SB-032212 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SB

**LLI Sample # WW 6589225**
**LLI Group # 1297264**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 15:30

Submitted: 03/23/2012 09:10
Reported: 04/05/2012 11:30

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0009 SDG#: DE300-09EB*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/l** | **ng/l** | **ng/l** | |
| 10962 | N-Nitrosodimethylamine | 62-75-9 | 0.500 U | 0.500 | 0.999 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/l** | **ug/l** | **ug/l** | |
| 04144 | 20b Formaldehyde 8315A | 50-00-0 | 10 U | 10 | 50 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/l** | **mg/l** | **mg/l** | |
| 10319 | m-Terphenyl | 92-06-8 | 0.076 U | 0.076 | 0.24 | 1 |
| 10319 | o-Terphenyl | 84-15-1 | 0.076 U | 0.076 | 0.24 | 1 |
| 10319 | p-Terphenyl | 92-94-4 | 0.076 U | 0.076 | 0.24 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10962 | 21b NDMA by 1625C | EPA 1625C | 1 | 12084WAF026 | 03/29/2012 23:00 | Matthew S Woods | 1 |
| 11629 | NDMA Liquid/Liquid Extraction | SW-846 3520C | 1 | 12084WAF026 | 03/25/2012 10:45 | Joseph S Feister | 1 |
| 04144 | 20b Formaldehyde 8315A | SW-846 8315A | 1 | 120830016A | 03/26/2012 17:13 | James H Place | 1 |
| 01013 | Formaldehyde Extraction | SW-846 8315A | 1 | 120830016A | 03/24/2012 08:30 | Kelli M Barto | 1 |
| 10319 | 22b Terphenyls by 8015B | SW-846 8015B | 1 | 120860031A | 03/29/2012 00:34 | Tracy A Cole | 1 |
| 10304 | Terphenyls water prep | SW-846 3510C | 1 | 120860031A | 03/27/2012 09:20 | William H Saadeh | 1 |

*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1297264
Reported: 04/05/12 at 11:30 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12084WAF026 | Sample number(s): 6589225 | | | | | | | | |
| N-Nitrosodimethylamine | 0.500 U | 0.500 | 1.00 | ng/l | 101 | 107 | 70-130 | 6 | 30 |
| Batch number: 12088SLB026 | Sample number(s): 6589217-6589224 | | | | | | | | |
| N-Nitrosodimethylamine | 16.7 U | 16.7 | 33.3 | ng/kg | 110 | | 70-130 | | |
| Batch number: 120830016A | Sample number(s): 6589225 | | | | | | | | |
| 20b Formaldehyde 8315A | 10 U | 10. | 50 | ug/l | 102 | 106 | 69-130 | 4 | 30 |
| Batch number: 120840006A | Sample number(s): 6589217-6589224 | | | | | | | | |
| 20a Formaldehyde 8315A | 600 U | 600. | 1,500 | ug/kg | 109 | | 80-126 | | |
| Batch number: 120860031A | Sample number(s): 6589225 | | | | | | | | |
| m-Terphenyl | 0.080 U | 0.080 | 0.25 | mg/l | 96 | 100 | 61-108 | 4 | 20 |
| o-Terphenyl | 0.080 U | 0.080 | 0.25 | mg/l | 92 | 94 | 75-125 | 2 | 20 |
| p-Terphenyl | 0.080 U | 0.080 | 0.25 | mg/l | 94 | 98 | 63-110 | 4 | 20 |
| Batch number: 120880015A | Sample number(s): 6589217-6589224 | | | | | | | | |
| m-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 101 | 117* | 64-111 | 15 | 20 |
| o-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 97 | 114 | 75-125 | 16 | 20 |
| p-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 99 | 116* | 69-109 | 15 | 20 |
| Batch number: 12086162401A | Sample number(s): 6589217-6589224 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12088SLB026 | Sample number(s): 6589217-6589224 UNSPK: P590844 | | | | | | | | |
| N-Nitrosodimethylamine | 117 | 97 | 70-130 | 19 | 30 | | | | |
| Batch number: 120840006A | Sample number(s): 6589217-6589224 UNSPK: P587615 | | | | | | | | |
| 20a Formaldehyde 8315A | 110 | 112 | 80-120 | 1 | 50 | | | | |
| Batch number: 12086162401A | Sample number(s): 6589217-6589224 BKG: P582502 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 8.7 | 8.8 | 1 | 20 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1297264
Reported: 04/05/12 at 11:30 AM

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21b. NDMA in Water
Batch number: 12084WAF026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6589225 | 132 |
| Blank | 99 |
| LCS | 104 |
| LCSD | 92 |
| Limits: | 50-150 |

Analysis Name: 21a NDMA by 1625C
Batch number: 12088SLB026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6589217 | 65 |
| 6589218 | 105 |
| 6589219 | 77 |
| 6589220 | 121 |
| 6589221 | 115 |
| 6589222 | 96 |
| 6589223 | 104 |
| 6589224 | 115 |
| Blank | 102 |
| LCS | 101 |
| MS | 130 |
| MSD | 120 |
| Limits: | 50-150 |

Analysis Name: 20b Formaldehyde 8315A
Batch number: 120830016A

| | Butyraldehyde |
|---|---|
| 6589225 | 110 |
| Blank | 104 |
| LCS | 102 |
| LCSD | 103 |
| Limits: | 45-145 |

Analysis Name: 20a Formaldehyde 8315A
Batch number: 120840006A

| | Butyraldehyde |
|---|---|
| 6589217 | 103 |
| 6589218 | 101 |
| 6589219 | 103 |
| 6589220 | 100 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1297264
Reported: 04/05/12 at 11:30 AM

## Surrogate Quality Control

| | |
|---|---|
| 6589221 | 100 |
| 6589222 | 100 |
| 6589223 | 95 |
| 6589224 | 98 |
| Blank | 103 |
| LCS | 100 |
| MS | 100 |
| MSD | 101 |
| Limits: | 64-126 |

Analysis Name: 22b Terphenyls by 8015B
Batch number: 120860031A

n-Triacontane-d62

| | |
|---|---|
| 6589225 | 85 |
| Blank | 83 |
| LCS | 81 |
| LCSD | 82 |
| Limits: | 46-100 |

Analysis Name: 22a Terphenyls by 8015B
Batch number: 120880015A

n-Triacontane-d62

| | |
|---|---|
| 6589217 | 82 |
| 6589218 | 73 |
| 6589219 | 82 |
| 6589220 | 96 |
| 6589221 | 86 |
| 6589222 | 93 |
| 6589223 | 72 |
| 6589224 | 90 |
| Blank | 75 |
| LCS | 77 |
| LCSD | 82 |
| Limits: | 19-152 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1297264 Sample# 6589217-25

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSES | | | | SECONDARY ANALYSES | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | | Other Instructions and Notes |
| Samplers Signatures: | | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | | |
| SL-062-NBZ-SB-2.5-3.5 | 3/21/12 | 1540 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | | |
| SL-063-NBZ-SB-0.5-1.5 | 3/21/12 | 1445 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | | |
| SL-064-NBZ-SB-0.5-1.5 | 3/21/12 | 1330 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | | |
| SL-104-NBZ-SS-0.0-0.5 | 3/21/12 | 1345 | SOIL | NONE | 1-8 oz Jar | X | | | | | |
| SL-054-NBZ-SS-0.0-0.5 | 3/22/12 | 1345 | SOIL | NONE | 1-4 oz Jar | X | X | X | X | | |
| SL-055-NBZ-SS-0.0-0.5 | 3/22/12 | 1125 | SOIL | NONE | 1-4 oz Jar | X | X | X | X | | |
| SL-059-NBZ-SB-0.0-1.0 | 3/22/12 | 1050 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | | |
| SL-060-NBZ-SB-0.0-1.0 | 3/22/12 | 1025 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | | |
| SL-061-NBZ-SB-1.0-2.0 | 3/22/12 | 0930 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | | |
| SL-116-NBZ-SS-0.0-0.5 | 3/22/12 | 1500 | SOIL | NONE | 1-8 oz Jar | X | | | | | |
| EB-NBZ-SB-032212 | 03.22.12 | 1530 | WATER | NONE | 4-1 L Ambers | X | X | X | X | | |
| EB-NBZ-SB-032212 | 03.22.12 | 1530 | WATER | NONE | 1-250 mL glass | X | X | X | X | | |
| Relinquished by: (*Signature*) | Date/Time | | Received for Laboratory by: (*Signature*) | | | | | | | | Laboratory: |
| | 3/22/2012 / 1630 | | Kathy Brinkley | | 3-23-12/ 0910 | | | | | | Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s) | | | | | | | | |

**Nicole Maljovec**

**From:** Hartman, Pamela [HartmanPM@cdmsmith.com]
**Sent:** Friday, March 23, 2012 11:00 AM
**To:** Nicole Maljovec
**Subject:** RE: 3/22: Sample ID Question

**Attachments:** COC_LLI_03_22_12.xlsx

COC_LLI_03_22_12
.xlsx (22 KB)

Hi Nicole

You are correct, it is odd. The sampler collected them as Subsurface, but they are better as surface. I would like to change the sample names to the following:

SL-059-NBZ-SS-0.0-0.5
SL-060-NBZ-SS-0.0-0.5

Thanks Nicole!!

Pam
Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

---

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Friday, March 23, 2012 7:46 AM
To: Hartman, Pamela
Subject: 3/22: Sample ID Question

Good morning Pam,
Can you confirm the sample IDs for SL-059-NBZ-SB-0.0-1.0 and SL-060-NBZ-SB-0.0-1.0? The SB looks odd with the 0.0 depth. The coolers are here but not unpacked yet, so I'm not sure what's on the labels.

Thanks!
Nicole

acct# 13013 Grp# 1297264 Sample# 6589217-25

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSIS | SECONDARY ANALYSIS | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | | | | | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| SL-062-NBZ-SB-2.5-3.5 | 3/21/12 | 1540 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-063-NBZ-SB-0.5-1.5 | 3/21/12 | 1445 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-064-NBZ-SB-0.5-1.5 | 3/21/12 | 1330 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-104-NBZ-SS-0.0-0.5 | 3/21/12 | 1345 | SOIL | NONE | 1-8 oz Jar | X | | | | |
| SL-054-NBZ-SS-0.0-0.5 | 3/22/12 | 1345 | SOIL | NONE | 1-4 oz Jar | X | X | X | X | |
| SL-055-NBZ-SS-0.0-0.5 | 3/22/12 | 1125 | SOIL | NONE | 1-4 oz Jar | X | X | X | X | |
| SL-059-NBZ-SS-0.0-0.5 | 3/22/12 | 1050 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-060-NBZ-SS-0.0-0.5 | 3/22/12 | 1025 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-061-NBZ-SB-1.0-2.0 | 3/22/12 | 0930 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-116-NBZ-SS-0.0-0.5 | 3/22/12 | 1500 | SOIL | NONE | 1-8 oz Jar | X | | | | |
| EB-NBZ-SB-032212 | 03.22.12 | 1530 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SB-032212 | 03.22.12 | 1530 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| Relinquished by: (*Signature*) | Date/Time<br>3/22/2012 / 1630 | | Received for Laboratory by: (*Signature*) | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s) | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# DE301

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 06, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/26/2012
Group Number: 1297482
SDG: DE301
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-048-NBZ-SS-0.0-0.5 Soil | 6590840 |
| SL-048-NBZ-SB-4.0-5.0 Soil | 6590841 |
| SL-049-NBZ-SB-2.0-3.0 Soil | 6590842 |
| SL-051-NBZ-SB-1.5-2.5 Soil | 6590843 |
| SL-057-NBZ-SS-0.0-0.5 Soil | 6590844 |
| SL-057-NBZ-SS-0.0-0.5 MS Soil | 6590845 |
| SL-057-NBZ-SS-0.0-0.5 MSD Soil | 6590846 |
| SL-057-NBZ-SS-0.0-0.5 RL MS Soil | 6590847 |
| SL-057-NBZ-SS-0.0-0.5 RL LCS Soil | 6590848 |
| DUP-02-NBZ-QC-032312 Soil | 6590849 |
| SL-047-NBZ-SB-4.0-5.0 Soil | 6590850 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| 1 COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681• www.lancasterlabs.com

# Analysis Report



**Sample Description:** SL-048-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-NBZ-SS

**LLI Sample # SW 6590840**
**LLI Group # 1297482**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/23/2012 12:00

Submitted: 03/26/2012 08:20
Reported: 04/06/2012 19:26

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0101 SDG#: DE301-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 186 | U | 186 | 371 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 670 | U | 670 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 3.9 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 10.2 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10 C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 14.3-15.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12088SLB026 | 03/30/2012 13:35 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12088SLB026 | 03/29/2012 07:00 | Joseph S Feister | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120870008A | 03/29/2012 19:32 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120870008A | 03/27/2012 13:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120900021A | 04/04/2012 20:31 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120900021A | 03/31/2012 09:00 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401B | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-048-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-NBZ-SB

**LLI Sample # SW 6590841**
**LLI Group # 1297482**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/23/2012 12:30

Submitted: 03/26/2012 08:20
Reported: 04/06/2012 19:26

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0102 SDG#: DE301-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.5 | U | 17.5 | 34.9 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 630 | U | 630 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 4.8 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10 C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 14.3-15.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12088SLB026 | 03/30/2012 13:54 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12088SLB026 | 03/29/2012 07:00 | Joseph S Feister | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120870008A | 03/29/2012 19:41 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120870008A | 03/27/2012 13:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120900021A | 04/04/2012 14:54 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120900021A | 03/31/2012 09:00 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401B | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-049-NBZ-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-NBZ-SB

**LLI Sample # SW 6590842**
**LLI Group # 1297482**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/23/2012 11:15

Submitted: 03/26/2012 08:20
Reported: 04/06/2012 19:26

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0103 SDG#: DE301-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 16.9 | U | 16.9 | 33.9 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 620 | U | 620 | 1,500 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.5 | U | 1.5 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 3.2 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10 C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 14.3-15.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12088SLB026 | 03/30/2012 14:32 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12088SLB026 | 03/29/2012 07:00 | Joseph S Feister | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120870008A | 03/29/2012 19:51 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120870008A | 03/27/2012 13:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120900021A | 04/04/2012 15:17 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120900021A | 03/31/2012 09:00 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401B | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-051-NBZ-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-NBZ-SB

**LLI Sample # SW 6590843**
**LLI Group # 1297482**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/23/2012 10:15

Submitted: 03/26/2012 08:20
Reported: 04/06/2012 19:26

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0104 SDG#: DE301-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.5 | U | 17.5 | 34.9 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 630 | U | 630 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 4.9 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10 C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 14.3-15.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12088SLB026 | 03/30/2012 14:51 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12088SLB026 | 03/29/2012 07:00 | Joseph S Feister | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120870008A | 03/29/2012 20:10 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120870008A | 03/27/2012 13:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120900021A | 04/04/2012 15:39 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120900021A | 03/31/2012 09:00 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401B | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-057-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-NBZ-SS

**LLI Sample # SW 6590844**
**LLI Group # 1297482**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/23/2012 09:20

Submitted: 03/26/2012 08:20
Reported: 04/06/2012 19:26

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0105 SDG#: DE301-05BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 183 | U | 183 | 367 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 660 | U | 660 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 4.7 | | 1.7 | 3.9 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 9.1 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10 C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 14.3-15.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12088SLB026 | 03/30/2012 15:10 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12088SLB026 | 03/29/2012 07:00 | Joseph S Feister | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120870008A | 03/29/2012 20:19 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120870008A | 03/27/2012 13:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120900021A | 04/05/2012 17:13 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120900021A | 03/31/2012 09:00 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401B | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-057-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-057-NBZ-SS

**LLI Sample # SW 6590845**
**LLI Group # 1297482**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/23/2012 09:20

Submitted: 03/26/2012 08:20
Reported: 04/06/2012 19:26

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0105 SDG#: DE301-05MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 1,060 | 182 | 363 | 10 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 5,700 | 660 | 1,700 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | **%** | **%** | |
| 11625 | Moisture Content by 160.3 | n.a. | 9.1 | 0.50 | 0.50 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10 C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 14.3-15.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12088SLB026 | 03/30/2012 15:29 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12088SLB026 | 03/29/2012 07:00 | Joseph S Feister | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120870008A | 03/29/2012 20:29 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120870008A | 03/27/2012 13:15 | Kelli M Barto | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401B | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-057-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-057-NBZ-SS

**LLI Sample # SW 6590846**
**LLI Group # 1297482**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/23/2012 09:20

Submitted: 03/26/2012 08:20
Reported: 04/06/2012 19:26

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0105 SDG#: DE301-05MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 872 | 180 | 361 | 10 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 5,200 | 660 | 1,700 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | **%** | **%** | |
| 11626 | 28a Moisture Content by 160.3 | n.a. | 9.2 | 0.50 | 0.50 | 1 |
| | The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations. | | | | | |
| 11625 | Moisture Content by 160.3 | n.a. | 9.1 | 0.50 | 0.50 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10 C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 14.3-15.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12088SLB026 | 03/30/2012 15:48 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12088SLB026 | 03/29/2012 07:00 | Joseph S Feister | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120870008A | 03/29/2012 20:39 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120870008A | 03/27/2012 13:15 | Kelli M Barto | 1 |
| 11626 | 28a Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401B | 03/26/2012 18:49 | Scott W Freisher | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401B | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-057-NBZ-SS-0.0-0.5 RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-057-NBZ-SS

**LLI Sample # SW 6590847**
**LLI Group # 1297482**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/23/2012 09:20

Submitted: 03/26/2012 08:20
Reported: 04/06/2012 19:26

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0105 SDG#: DE301-05RLR

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 1,900 | | 660 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 2.1 | J | 1.7 | 3.9 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.9 | J | 1.7 | 3.9 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 4.9 | | 1.7 | 3.9 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11625 | Moisture Content by 160.3 | n.a. | 9.1 | | 0.50 | 0.50 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10 C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 14.3-15.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120870008A | 03/29/2012 20:48 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120870008A | 03/27/2012 13:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120900021A | 04/05/2012 16:51 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120900021A | 03/31/2012 09:00 | Olivia Arosemena | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401B | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-057-NBZ-SS-0.0-0.5 RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-057-NBZ-SS

**LLI Sample # SW 6590848**
**LLI Group # 1297482**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/23/2012 09:20

Submitted: 03/26/2012 08:20
Reported: 04/06/2012 19:26

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0105 SDG#: DE301-05RLQ

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 1,800 | | 600 | 1,500 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.8 | J | 1.5 | 3.5 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | J | 1.5 | 3.5 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.9 | J | 1.5 | 3.5 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10 C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 14.3-15.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120870008A | 03/29/2012 20:58 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120870008A | 03/27/2012 13:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120900021A | 04/05/2012 16:06 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120900021A | 03/31/2012 09:00 | Olivia Arosemena | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** DUP-02-NBZ-QC-032312 Soil
SSFL Area IV Collocated Soil Sampling
DUP-02-NBZ

**LLI Sample # SW 6590849**
**LLI Group # 1297482**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/23/2012 09:28

Submitted: 03/26/2012 08:20
Reported: 04/06/2012 19:26

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0106 SDG#: DE301-06FD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 18.0 | U | 18.0 | 35.9 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 650 | U | 650 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 5.4 | | 1.6 | 3.8 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.2 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10 C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 14.3-15.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12088SLB026 | 03/30/2012 16:07 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12088SLB026 | 03/29/2012 07:00 | Joseph S Feister | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120870008A | 03/29/2012 21:07 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120870008A | 03/27/2012 13:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120900021A | 04/05/2012 16:28 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120900021A | 03/31/2012 09:00 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401B | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-047-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-NBZ-SB

**LLI Sample # SW 6590850**
**LLI Group # 1297482**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/23/2012 15:20

Submitted: 03/26/2012 08:20
Reported: 04/06/2012 19:26

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0107 SDG#: DE301-07*

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.3 | U | 17.3 | 34.6 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 630 | U | 630 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 4.0 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10 C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 14.3-15.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12088SLB026 | 03/31/2012 01:11 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12088SLB026 | 03/29/2012 07:00 | Joseph S Feister | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120870008A | 03/29/2012 21:17 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120870008A | 03/27/2012 13:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120900021A | 04/04/2012 16:24 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120900021A | 03/31/2012 09:00 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401B | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1297482
Reported: 04/06/12 at 07:26 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12088SLB026 | Sample number(s): 6590840-6590846,6590849-6590850 | | | | | | | | |
| N-Nitrosodimethylamine | 16.7 U | 16.7 | 33.3 | ng/kg | 110 | | 70-130 | | |
| Batch number: 120870008A | Sample number(s): 6590840-6590850 | | | | | | | | |
| 20a Formaldehyde 8315A | 600 U | 600. | 1,500 | ug/kg | 122 | | 80-126 | | |
| Batch number: 120900021A | Sample number(s): 6590840-6590844,6590847-6590850 | | | | | | | | |
| m-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 112* | 121* | 64-111 | 8 | 20 |
| o-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 105 | 113 | 75-125 | 7 | 20 |
| p-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 111* | 120* | 69-109 | 8 | 20 |
| Batch number: 12086162401B | Sample number(s): 6590840-6590847,6590849-6590850 | | | | | | | | |
| 28a Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12088SLB026 | Sample number(s): 6590840-6590846,6590849-6590850 UNSPK: 6590844 | | | | | | | | |
| N-Nitrosodimethylamine | 117 | 97 | 70-130 | 19 | 30 | | | | |
| Batch number: 120870008A | Sample number(s): 6590840-6590850 UNSPK: 6590844 | | | | | | | | |
| 20a Formaldehyde 8315A | 103 | 94 | 80-120 | 9 | 50 | | | | |
| Batch number: 12086162401B | Sample number(s): 6590840-6590847,6590849-6590850 BKG: 6590844 | | | | | | | | |
| 28a Moisture Content by 160.3 | | | | | | 9.1 | 9.2 | 1 | 20 |
| Moisture Content by 160.3 | | | | | | 9.1 | 9.2 | 1 | 20 |
| Moisture Content by 160.3 | | | | | | 9.1 | 9.2 | 1 | 20 |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1297482
Reported: 04/06/12 at 07:26 PM

## Surrogate Quality Control

Analysis Name: 21a NDMA by 1625C
Batch number: 12088SLB026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6590840 | 127 |
| 6590841 | 83 |
| 6590842 | 83 |
| 6590843 | 92 |
| 6590844 | 95 |
| 6590845 | 130 |
| 6590846 | 120 |
| 6590849 | 88 |
| 6590850 | 86 |
| Blank | 102 |
| LCS | 101 |
| MS | 130 |
| MSD | 120 |
| Limits: | 50-150 |

Analysis Name: 20a Formaldehyde 8315A
Batch number: 120870008A

| | Butyraldehyde |
|---|---|
| 6590840 | 95 |
| 6590841 | 90 |
| 6590842 | 88 |
| 6590843 | 85 |
| 6590844 | 94 |
| 6590845 | 91 |
| 6590846 | 89 |
| 6590847 | 88 |
| 6590848 | 88 |
| 6590849 | 88 |
| 6590850 | 86 |
| Blank | 92 |
| LCS | 86 |
| MS | 91 |
| MSD | 89 |
| Limits: | 64-126 |

Analysis Name: 22a Terphenyls by 8015B
Batch number: 120900021A

| | n-Triacontane-d62 |
|---|---|
| 6590840 | 78 |
| 6590841 | 70 |
| 6590842 | 69 |
| 6590843 | 69 |
| 6590844 | 76 |
| 6590847 | 75 |
| 6590848 | 70 |
| 6590849 | 72 |
| 6590850 | 70 |
| Blank | 74 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1297482
Reported: 04/06/12 at 07:26 PM

## Surrogate Quality Control

| | |
|---|---|
| LCS | 74 |
| LCSD | 78 |
| Limits: | 19-152 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 | 297482 | 6590840-50

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSIS | SECONDARY ANALYSIS | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-048-NBZ-SS-0.0-0.5 | 3.23.12 | 1200 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-048-NBZ-SB-4.0-5.0 | 3.23.12 | 1230 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-049-NBZ-SB-2.0-3.0 | 3.23.12 | 1115 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-051-NBZ-SB-1.5-2.5 | 3.23.12 | 1015 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-057-NBZ-SS-0.0-0.5MS | 3.23.12 | 0920 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | MS/MSD |
| DUP-02-NBZ-QC-032312 | 3.23.12 | 0928 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-047-NBZ-SB-4.0-5.0 | 3.23.12 | 1520 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| Relinquished by: (*Signature*) | Date/Time<br>3/23/2012 / 1630 | | Received for Laboratory by: (*Signature*)<br>LI 3/26/12 0820 | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No(s) | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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# SAMPLE DELIVERY GROUP

# DE302

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 11, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/28/2012
Group Number: 1298318
SDG: DE302
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-042-NBZ-SS-0.0-0.5 Soil | 6595127 |
| SL-043-NBZ-SS-0.0-0.5 Soil | 6595128 |
| SL-045-NBZ-SS-0.0-0.5 Soil | 6595129 |
| SL-045-NBZ-SB-4.0-5.0 Soil | 6595130 |
| SL-046-NBZ-SS-0.0-0.5 Soil | 6595131 |
| SL-046-NBZ-SB-4.0-5.0 Soil | 6595132 |
| SL-050-NBZ-SS-0.0-0.5 Soil | 6595133 |
| SL-038-NBZ-SS-0.0-0.5 Soil | 6595134 |
| SL-078-NBZ-SS-0.0-0.5 Soil | 6595135 |
| EB-NBZ-SB-032712 Water | 6595136 |
| EB-NBZ-SS-032712 Water | 6595137 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| 1 COPY TO | Data Package Group | |

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Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-042-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-NBZ-SS

**LLI Sample # SW 6595127**
**LLI Group # 1298318**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 14:10

Submitted: 03/28/2012 09:15
Reported: 04/11/2012 14:33

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0201 SDG#: DE302-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 197 | U | 197 | 394 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 710 | U | 710 | 1,800 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 8.9 | U | 8.9 | 21 | 5 |
| 10318 | o-Terphenyl | 84-15-1 | 8.9 | U | 8.9 | 21 | 5 |
| 10318 | p-Terphenyl | 92-94-4 | 8.9 | U | 8.9 | 21 | 5 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 15.4 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12094SLB026 | 04/10/2012 09:39 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12094SLB026 | 04/03/2012 16:05 | JoElla L Rice | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120930001A | 04/04/2012 21:20 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120930001A | 04/02/2012 13:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120900021A | 04/05/2012 02:29 | Robert Brown | 5 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120900021A | 03/31/2012 09:00 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-043-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-NBZ-SS

**LLI Sample # SW 6595128**
**LLI Group # 1298318**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 15:35

Submitted: 03/28/2012 09:15
Reported: 04/11/2012 14:33

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0202 SDG#: DE302-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 183 | U | 183 | 366 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 660 | U | 660 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.8 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.9 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12094SLB026 | 04/10/2012 09:52 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12094SLB026 | 04/03/2012 16:05 | JoElla L Rice | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120930001A | 04/04/2012 21:29 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120930001A | 04/02/2012 13:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120900021A | 04/04/2012 19:46 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120900021A | 03/31/2012 09:00 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-045-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-NBZ-SS

**LLI Sample # SW 6595129**
**LLI Group # 1298318**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 11:41

Submitted: 03/28/2012 09:15
Reported: 04/11/2012 14:33

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0203 SDG#: DE302-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 186 | U | 186 | 372 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 670 | U | 670 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 8.4 | U | 8.4 | 20 | 5 |
| 10318 | o-Terphenyl | 84-15-1 | 8.4 | U | 8.4 | 20 | 5 |
| 10318 | p-Terphenyl | 92-94-4 | 8.4 | U | 8.4 | 20 | 5 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 10.3 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12094SLB026 | 04/10/2012 10:11 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12094SLB026 | 04/03/2012 16:05 | JoElla L Rice | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120930001A | 04/04/2012 21:39 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120930001A | 04/02/2012 13:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120900021A | 04/05/2012 00:15 | Robert Brown | 5 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120900021A | 03/31/2012 09:00 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-045-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-NBZ-SB

**LLI Sample # SW 6595130**
**LLI Group # 1298318**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 11:55

Submitted: 03/28/2012 09:15
Reported: 04/11/2012 14:33

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0204 SDG#: DE302-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.6 | U | 17.6 | 35.1 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 630 | U | 630 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 5.1 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12094SLB026 | 04/04/2012 16:21 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12094SLB026 | 04/03/2012 16:05 | JoElla L Rice | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120930001A | 04/04/2012 21:58 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120930001A | 04/02/2012 13:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120900021A | 04/04/2012 17:54 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120900021A | 03/31/2012 09:00 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-046-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-NBZ-SS

**LLI Sample # SW 6595131**
**LLI Group # 1298318**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 09:20

Submitted: 03/28/2012 09:15
Reported: 04/11/2012 14:33

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0205 SDG#: DE302-05

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 197 | U | 197 | 394 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 710 | U | 710 | 1,800 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.8 | U | 1.8 | 4.1 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.8 | U | 1.8 | 4.1 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.8 | U | 1.8 | 4.1 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 15.3 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12094SLB026 | 04/10/2012 10:30 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12094SLB026 | 04/03/2012 16:05 | JoElla L Rice | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120930001A | 04/04/2012 22:07 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120930001A | 04/02/2012 13:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120900021A | 04/04/2012 23:08 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120900021A | 03/31/2012 09:00 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-046-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-NBZ-SB

**LLI Sample # SW 6595132**
**LLI Group # 1298318**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 10:15

Submitted: 03/28/2012 09:15
Reported: 04/11/2012 14:33

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0206 SDG#: DE302-06

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.5 | U | 17.5 | 35.0 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 630 | U | 630 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 4.8 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12094SLB026 | 04/04/2012 16:59 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12094SLB026 | 04/03/2012 16:05 | JoElla L Rice | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120930001A | 04/04/2012 22:17 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120930001A | 04/02/2012 13:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120900021A | 04/04/2012 16:46 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120900021A | 03/31/2012 09:00 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-050-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-NBZ-SS

**LLI Sample # SW 6595133**
**LLI Group # 1298318**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 14:30

Submitted: 03/28/2012 09:15
Reported: 04/11/2012 14:33

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0207 SDG#: DE302-07

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 185 | U | 185 | 369 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 660 | U | 660 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 8.3 | U | 8.3 | 19 | 5 |
| 10318 | o-Terphenyl | 84-15-1 | 8.3 | U | 8.3 | 19 | 5 |
| 10318 | p-Terphenyl | 92-94-4 | 8.3 | U | 8.3 | 19 | 5 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 9.7 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12094SLB026 | 04/10/2012 10:49 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12094SLB026 | 04/03/2012 16:05 | JoElla L Rice | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120930001A | 04/04/2012 22:26 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120930001A | 04/02/2012 13:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120900021A | 04/05/2012 00:59 | Robert Brown | 5 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120900021A | 03/31/2012 09:00 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-038-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-NBZ-SS

**LLI Sample # SW 6595134**
**LLI Group # 1298318**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 11:10

Submitted: 03/28/2012 09:15
Reported: 04/11/2012 14:33

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0208 SDG#: DE302-08

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 206 | U | 206 | 412 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 740 | U | 740 | 1,900 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.9 | U | 1.9 | 4.3 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.9 | U | 1.9 | 4.3 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.9 | U | 1.9 | 4.3 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 19.1 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12094SLB026 | 04/10/2012 11:08 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12094SLB026 | 04/03/2012 16:05 | JoElla L Rice | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120930001A | 04/04/2012 22:36 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120930001A | 04/02/2012 13:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120900021A | 04/04/2012 22:00 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120900021A | 03/31/2012 09:00 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-078-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-NBZ-SS

**LLI Sample # SW 6595135**
**LLI Group # 1298318**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 09:40

Submitted: 03/28/2012 09:15
Reported: 04/11/2012 14:33

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0209 SDG#: DE302-09

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 188 | U | 188 | 375 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 670 | U | 670 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 3.9 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.1 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12094SLB026 | 04/10/2012 11:27 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12094SLB026 | 04/03/2012 16:05 | JoElla L Rice | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120930001A | 04/04/2012 22:45 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120930001A | 04/02/2012 13:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120900021A | 04/04/2012 18:16 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120900021A | 03/31/2012 09:00 | Olivia Arosemena | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401A | 04/04/2012 19:16 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** EB-NBZ-SB-032712 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SB

**LLI Sample # WW 6595136**
**LLI Group # 1298318**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 15:00

Submitted: 03/28/2012 09:15
Reported: 04/11/2012 14:33

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E02EB SDG#: DE302-10EB

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/l** | | **ng/l** | **ng/l** | |
| 10962 | N-Nitrosodimethylamine | 62-75-9 | 0.525 | U | 0.525 | 1.05 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/l** | | **ug/l** | **ug/l** | |
| 04144 | 20b Formaldehyde 8315A | 50-00-0 | 27 | J | 10 | 50 | 1 |

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-analyzed outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second analysis so the original results are reported. Results for the second analysis are: <10 ug/L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/l** | | **mg/l** | **mg/l** | |
| 10319 | m-Terphenyl | 92-06-8 | 0.17 | U | 0.17 | 0.53 | 1 |
| 10319 | o-Terphenyl | 84-15-1 | 0.17 | U | 0.17 | 0.53 | 1 |
| 10319 | p-Terphenyl | 92-94-4 | 0.17 | U | 0.17 | 0.53 | 1 |

The final sample volume was increased due to a preparation error and there is insufficient sample for re-extraction. The reporting limits are raised accordingly. The client was contacted and the data reported.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10962 | 21b NDMA by 1625C | EPA 1625C | 1 | 12094WAC026 | 04/10/2012 19:47 | Matthew S Woods | 1 |
| 11629 | NDMA Liquid/Liquid Extraction | SW-846 3520C | 1 | 12094WAC026 | 04/03/2012 13:30 | Wanda F Oswald | 1 |
| 04144 | 20b Formaldehyde 8315A | SW-846 8315A | 1 | 120880036A | 03/29/2012 22:04 | James H Place | 1 |
| 01013 | Formaldehyde Extraction | SW-846 8315A | 1 | 120880036A | 03/29/2012 09:10 | Denise L Trimby | 1 |
| 10319 | 22b Terphenyls by 8015B | SW-846 8015B | 1 | 120910011A | 04/03/2012 21:30 | Robert Brown | 1 |
| 10304 | Terphenyls water prep | SW-846 3510C | 1 | 120910011A | 04/02/2012 10:10 | Catherine R Wiker | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** EB-NBZ-SS-032712 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SS

**LLI Sample # WW 6595137**
**LLI Group # 1298318**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 15:30

Submitted: 03/28/2012 09:15
Reported: 04/11/2012 14:33

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E02E2 SDG#: DE302-11EB*

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/l** | | **ng/l** | **ng/l** | |
| 10962 | N-Nitrosodimethylamine | 62-75-9 | 0.504 | U | 0.504 | 1.01 | 1 |
| | The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and no target analytes were detected, the data is reported. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/l** | | **ug/l** | **ug/l** | |
| 04144 | 20b Formaldehyde 8315A | 50-00-0 | 230 | | 10 | 50 | 1 |
| | Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken: The sample was re-analyzed outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second analysis so the original results are reported. Results for the second analysis are: <10 ug/L | | | | | | |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/l** | | **mg/l** | **mg/l** | |
| 10319 | m-Terphenyl | 92-06-8 | 0.15 | U | 0.15 | 0.48 | 1 |
| 10319 | o-Terphenyl | 84-15-1 | 0.15 | U | 0.15 | 0.48 | 1 |
| 10319 | p-Terphenyl | 92-94-4 | 0.15 | U | 0.15 | 0.48 | 1 |
| | The final sample volume was increased due to a preparation error and there is insufficient sample for re-extraction. The reporting limits are raised accordingly. The client was contacted and the data reported. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10962 | 21b NDMA by 1625C | EPA 1625C | 1 | 12094WAC026 | 04/10/2012 20:07 | Matthew S Woods | 1 |
| 11629 | NDMA Liquid/Liquid Extraction | SW-846 3520C | 1 | 12094WAC026 | 04/03/2012 13:30 | Wanda F Oswald | 1 |
| 04144 | 20b Formaldehyde 8315A | SW-846 8315A | 1 | 120880036A | 03/29/2012 22:14 | James H Place | 1 |
| 01013 | Formaldehyde Extraction | SW-846 8315A | 1 | 120880036A | 03/29/2012 09:10 | Denise L Trimby | 1 |
| 10319 | 22b Terphenyls by 8015B | SW-846 8015B | 1 | 120910011A | 04/03/2012 21:53 | Robert Brown | 1 |
| 10304 | Terphenyls water prep | SW-846 3510C | 1 | 120910011A | 04/02/2012 10:10 | Catherine R Wiker | 1 |

*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1298318
Reported: 04/11/12 at 02:33 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12094SLB026 | Sample number(s): 6595127-6595135 | | | | | | | | |
| N-Nitrosodimethylamine | 16.7 U | 16.7 | 33.3 | ng/kg | 112 | | 70-130 | | |
| Batch number: 12094WAC026 | Sample number(s): 6595136-6595137 | | | | | | | | |
| N-Nitrosodimethylamine | 0.500 U | 0.500 | 1.00 | ng/l | 105 | 102 | 70-130 | 3 | 30 |
| Batch number: 120880036A | Sample number(s): 6595136-6595137 | | | | | | | | |
| 20b Formaldehyde 8315A | 33 J | 10. | 50 | ug/l | 100 | 104 | 69-130 | 4 | 30 |
| Batch number: 120930001A | Sample number(s): 6595127-6595135 | | | | | | | | |
| 20a Formaldehyde 8315A | 600 U | 600. | 1,500 | ug/kg | 113 | | 80-126 | | |
| Batch number: 120900021A | Sample number(s): 6595127-6595135 | | | | | | | | |
| m-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 112* | 121* | 64-111 | 8 | 20 |
| o-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 105 | 113 | 75-125 | 7 | 20 |
| p-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 111* | 120* | 69-109 | 8 | 20 |
| Batch number: 120910011A | Sample number(s): 6595136-6595137 | | | | | | | | |
| m-Terphenyl | 0.16 U | 0.16 | 0.50 | mg/l | 96 | 88 | 61-108 | 9 | 20 |
| o-Terphenyl | 0.16 U | 0.16 | 0.50 | mg/l | 92 | 84 | 75-125 | 9 | 20 |
| p-Terphenyl | 0.16 U | 0.16 | 0.50 | mg/l | 94 | 86 | 63-110 | 9 | 20 |
| Batch number: 12094162401A | Sample number(s): 6595127-6595134 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Batch number: 12095162401A | Sample number(s): 6595135 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12094SLB026 | Sample number(s): 6595127-6595135 UNSPK: P599821 | | | | | | | | |
| N-Nitrosodimethylamine | 122 | 130 | 70-130 | 6 | 30 | | | | |
| Batch number: 120930001A | Sample number(s): 6595127-6595135 UNSPK: P599821 | | | | | | | | |
| 20a Formaldehyde 8315A | 121* | 116 | 80-120 | 4 | 50 | | | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1298318
Reported: 04/11/12 at 02:33 PM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12094162401A | Sample number(s): 6595127-6595134 | | | | | BKG: P599821 | | | |
| Moisture Content by 160.3 | | | | | | 4.0 | 4.1 | 2 | 20 |
| Batch number: 12095162401A | Sample number(s): 6595135 | | | | | BKG: P595150 | | | |
| Moisture Content by 160.3 | | | | | | 18.7 | 18.2 | 3 | 20 |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21a NDMA by 1625C
Batch number: 12094SLB026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6595127 | 815* |
| 6595128 | 956* |
| 6595129 | 1013* |
| 6595130 | 79 |
| 6595131 | 940* |
| 6595132 | 74 |
| 6595133 | 945* |
| 6595134 | 943* |
| 6595135 | 990* |
| Blank | 56 |
| LCS | 76 |
| MS | 1048* |
| MSD | 1065* |
| Limits: | 50-150 |

Analysis Name: 21b. NDMA in Water
Batch number: 12094WAC026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6595136 | 135 |
| 6595137 | 157* |
| Blank | 89 |
| LCS | 110 |
| LCSD | 97 |
| Limits: | 50-150 |

Analysis Name: 20b Formaldehyde 8315A
Batch number: 120880036A

| | Butyraldehyde |
|---|---|
| 6595136 | 93 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1298318
Reported: 04/11/12 at 02:33 PM

## Surrogate Quality Control

| | |
|---|---|
| 6595137 | 90 |
| Blank | 85 |
| LCS | 87 |
| LCSD | 89 |

Limits: 45-145

Analysis Name: 20a Formaldehyde 8315A
Batch number: 120930001A
Butyraldehyde

| | |
|---|---|
| 6595127 | 112 |
| 6595128 | 103 |
| 6595129 | 115 |
| 6595130 | 103 |
| 6595131 | 112 |
| 6595132 | 108 |
| 6595133 | 113 |
| 6595134 | 109 |
| 6595135 | 111 |
| Blank | 107 |
| LCS | 107 |
| MS | 114 |
| MSD | 113 |

Limits: 64-126

Analysis Name: 22a Terphenyls by 8015B
Batch number: 120900021A
n-Triacontane-d62

| | |
|---|---|
| 6595127 | 212* |
| 6595128 | 97 |
| 6595129 | 80 |
| 6595130 | 74 |
| 6595131 | 79 |
| 6595132 | 73 |
| 6595133 | 131 |
| 6595134 | 100 |
| 6595135 | 77 |
| Blank | 74 |
| LCS | 74 |
| LCSD | 78 |

Limits: 19-152

Analysis Name: 22b Terphenyls by 8015B
Batch number: 120910011A
n-Triacontane-d62

| | |
|---|---|
| 6595136 | 68 |
| 6595137 | 72 |
| Blank | 76 |
| LCS | 72 |
| LCSD | 68 |

Limits: 46-100

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1298318
Reported: 04/11/12 at 02:33 PM

## Surrogate Quality Control

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1298318 Sample#6595127-37

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSES | SECONDARY ANALYSES | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-042-NBZ-SS-0.0-0.5 | 3.26.12 | 1410 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-043-NBZ-SS-0.0-0.5 | 3.26.12 | 1535 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-045-NBZ-SS-0.0-0.5 | 3.26.12 | 1141 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-045-NBZ-SS-4.0-5.0 | 3.26.12 | 1155 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-046-NBZ-SS-0.0-0.5 | 3.26.12 | 0920 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-046-NBZ-SS-4.0-5.0 | 3.26.12 | 1015 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-050-NBZ-SS-0.0-0.5 | 3.26.12 | 1430 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-123-NBZ-SS-0.0-0.5 | 3.26.12 | 1455 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-133-NBZ-SS-0.0-0.5 | 3.26.12 | 1515 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-124-NBZ-SS-0.0-0.5 | 3.26.12 | 1020 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-126-NBZ-SS-0.0-0.5 | 3.26.12 | 1120 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-195-NBZ-SS-0.0-0.5 | 3.26.12 | 1540 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-196-NBZ-SS-0.0-0.5 | 3.26.12 | 1145 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-038-NBZ-SS-0.0-0.5 | 3.27.12 | 1110 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-078-NBZ-SS-0.0-0.5 | 3.27.12 | 0940 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-095-NBZ-SS-0.0-0.5 | 3.27.12 | 1017 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-119-NBZ-SS-0.0-0.5 | 3.27.12 | 1050 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-130-NBZ-SS-0.0-0.5 | 3.27.12 | 1020 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| EB-NBZ-SB-032712 | 3.27.12 | 1500 | WATER | NONE | 4-1 L Ambers | | | | | |
| EB-NBZ-SB-032712 | 3.27.12 | 1500 | WATER | NONE | 1-250 mL glass | | | | | |
| EB-NBZ-SS-032712 | 3.27.12 | 1530 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SS-032712 | 3.27.12 | 1530 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| Relinquished by: (*Signature*) | Date/Time<br>3/22/2012 / 1630 | Received for Laboratory by: (*Signature*)<br>LLI 3/28/12 0915 | | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | Airbill No.(s) | | | | | | | | |

**Nicole Maljovec**

**From:** Hartman, Pamela [HartmanPM@cdmsmith.com]
**Sent:** Thursday, March 29, 2012 12:26 PM
**To:** Nicole Maljovec
**Subject:** RE: 3/26 & 3/27 COC Question

The COC with SB for SL-045 and SL-046 is correct. sorry!

Could we have some more 1 L ambers sent out? I think about 30 would be good! Also, is it ok to use the small ambers for the formaldehyde? We seem to have at ton of those.

Thanks

Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

---

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Thursday, March 29, 2012 9:21 AM
To: Hartman, Pamela
Subject: 3/26 & 3/27 COC Question

Hi Pam,
I was about to email you about two samples where the sample code "SS" was used but the depths were 4.0-5.0. However, I just realized the COC that was in the cooler doesn't match the COC in the email below. The COC in the cooler had SL-045 and SL-046 @4.0-5.0 with SS and the attached COC has SB instead.

Can you confirm that the attached COC is correct? I can add this to the groups and add a note.

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Tuesday, March 27, 2012 7:15 PM
To: Nicole Maljovec
Subject: Wrong COC

Actually, use this COC!

Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | PRI MA ONDARY ANAL RY | | | | |
|---|---|---|---|---|---|---|

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| SL-042-NBZ-SS-0.0-0.5 | 3.26.12 | 1410 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-043-NBZ-SS-0.0-0.5 | 3.26.12 | 1535 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-045-NBZ-SS-0.0-0.5 | 3.26.12 | 1141 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-045-NBZ-SB-4.0-5.0 | 3.26.12 | 1155 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-046-NBZ-SS-0.0-0.5 | 3.26.12 | 0920 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-046-NBZ-SB-4.0-5.0 | 3.26.12 | 1015 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-050-NBZ-SS-0.0-0.5 | 3.26.12 | 1430 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-123-NBZ-SS-0.0-0.5 | 3.26.12 | 1455 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-133-NBZ-SS-0.0-0.5 | 3.26.12 | 1515 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-124-NBZ-SS-0.0-0.5 | 3.26.12 | 1020 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-126-NBZ-SS-0.0-0.5 | 3.26.12 | 1120 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-195-NBZ-SS-0.0-0.5 | 3.26.12 | 1540 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-196-NBZ-SS-0.0-0.5 | 3.26.12 | 1145 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-038-NBZ-SS-0.0-0.5 | 3.27.12 | 1110 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-078-NBZ-SS-0.0-0.5 | 3.27.12 | 0940 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-095-NBZ-SS-0.0-0.5 | 3.27.12 | 1017 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-119-NBZ-SS-0.0-0.5 | 3.27.12 | 1050 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-130-NBZ-SS-0.0-0.5 | 3.27.12 | 1020 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| EB-NBZ-SB-032712 | 3.27.12 | 1500 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SB-032712 | 3.27.12 | 1500 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| EB-NBZ-SS-032712 | 3.27.12 | 1530 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SS-032712 | 3.27.12 | 1530 | WATER | NONE | 1-250 mL glass | X | X | X | X | |

| Relinquished by: (*Signature*) | Date/Time | Received for Laboratory by: (*Signature*) | Laboratory: |
|---|---|---|---|
| | 3/22/2012 / 1630 | | Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | Airbill No.(s) | |
| | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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# SAMPLE DELIVERY GROUP

# DE303

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 16, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/30/2012
Group Number: 1299117
SDG: DE303
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-036-NBZ-SB-4.0-5.0 Soil | 6599815 |
| SL-036-NBZ-SB-7.5-8.5 Soil | 6599816 |
| DUP-03-NBZ-QC-032812 Soil | 6599817 |
| SL-037-NBZ-SB-3.0-4.0 Soil | 6599818 |
| SL-039-NBZ-SB-2.0-3.0 Soil | 6599819 |
| SL-040-NBZ-SS-0.0-0.5 Soil | 6599820 |
| SL-040-NBZ-SB-2.5-3.5 Soil | 6599821 |
| SL-040-NBZ-SB-2.5-3.5 MS Soil | 6599822 |
| SL-040-NBZ-SB-2.5-3.5 MSD Soil | 6599823 |
| SL-040-NBZ-SB-2.5-3.5 RL MS Soil | 6599824 |
| SL-040-NBZ-SB-2.5-3.5 RL LCS Soil | 6599825 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| 1 COPY TO | Data Package Group | |

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Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-036-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-NBZ-SB

**LLI Sample # SW 6599815**
**LLI Group # 1299117**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 11:03

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:50

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E3-01 SDG#: DE303-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 19.0 | U | 19.0 | 38.0 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 680 | U | 680 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 4.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 12.3 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12094SLB026 | 04/04/2012 18:15 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12094SLB026 | 04/03/2012 16:05 | JoElla L Rice | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120930001A | 04/04/2012 22:55 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120930001A | 04/02/2012 13:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120950007A | 04/05/2012 08:50 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120950007A | 04/04/2012 18:30 | Sally L Appleyard | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-036-NBZ-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-NBZ-SB

**LLI Sample # SW 6599816**
**LLI Group # 1299117**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 12:30

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:50

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E3-02 SDG#: DE303-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 21.2 | U | 21.2 | 42.5 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 760 | U | 760 | 1,900 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.9 | U | 1.9 | 4.5 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.9 | U | 1.9 | 4.5 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.9 | U | 1.9 | 4.5 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 21.5 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12094SLB026 | 04/04/2012 18:53 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12094SLB026 | 04/03/2012 16:05 | JoElla L Rice | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120930001A | 04/04/2012 23:04 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120930001A | 04/02/2012 13:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120950007A | 04/05/2012 09:13 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120950007A | 04/04/2012 18:30 | Sally L Appleyard | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** DUP-03-NBZ-QC-032812 Soil
SSFL Area IV Collocated Soil Sampling
DUP-03-NBZ

**LLI Sample # SW 6599817**
**LLI Group # 1299117**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:10

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:50

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E3-03 SDG#: DE303-03FD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 181 | U | 181 | 363 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 650 | U | 650 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.8 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.1 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12094SLB026 | 04/10/2012 11:46 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12094SLB026 | 04/03/2012 16:05 | JoElla L Rice | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120930001A | 04/04/2012 23:14 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 2 | 120930001A | 04/02/2012 13:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120950007A | 04/05/2012 14:58 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120950007A | 04/04/2012 18:30 | Sally L Appleyard | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-037-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-NBZ-SB

**LLI Sample # SW 6599818**
**LLI Group # 1299117**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 15:12

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:50

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E3-04 SDG#: DE303-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 18.7 | U | 18.7 | 37.5 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 1,300 | U | 1,300 | 3,400 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 3.9 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.0 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12094SLB026 | 04/04/2012 19:31 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12094SLB026 | 04/03/2012 16:05 | JoElla L Rice | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120930001A | 04/04/2012 23:24 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 2 | 120930001A | 04/02/2012 13:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120950007A | 04/05/2012 10:28 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120950007A | 04/04/2012 18:30 | Sally L Appleyard | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-039-NBZ-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-NBZ-SB

**LLI Sample # SW 6599819**
**LLI Group # 1299117**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 14:35

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:50

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E3-05 SDG#: DE303-05

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 18.5 | U | 18.5 | 37.1 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 670 | U | 670 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 3.9 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 10.1 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12094SLB026 | 04/04/2012 19:49 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12094SLB026 | 04/03/2012 16:05 | JoElla L Rice | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120930001A | 04/04/2012 23:43 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120930001A | 04/02/2012 13:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120950007A | 04/05/2012 10:51 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120950007A | 04/04/2012 18:30 | Sally L Appleyard | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-040-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-NBZ-SS

**LLI Sample # SW 6599820**
**LLI Group # 1299117**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 08:51

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:50

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E3-06 SDG#: DE303-06

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 188 | U | 188 | 376 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 680 | U | 680 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 3.9 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.3 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12094SLB026 | 04/10/2012 12:05 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12094SLB026 | 04/03/2012 16:05 | JoElla L Rice | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120930001A | 04/04/2012 23:52 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120930001A | 04/02/2012 13:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120950007A | 04/05/2012 11:13 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120950007A | 04/04/2012 18:30 | Sally L Appleyard | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-040-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-NBZ-SB

**LLI Sample # SW 6599821**
**LLI Group # 1299117**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:00

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:50

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E3-07 SDG#: DE303-07BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 174 | U | 174 | 347 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 630 | U | 630 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 4.0 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12094SLB026 | 04/10/2012 12:43 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12094SLB026 | 04/03/2012 16:05 | JoElla L Rice | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120930001A | 04/05/2012 00:02 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120930001A | 04/02/2012 13:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120950007A | 04/05/2012 12:43 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120950007A | 04/04/2012 18:30 | Sally L Appleyard | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-040-NBZ-SB-2.5-3.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-040-NBZ-SB

**LLI Sample # SW 6599822**
**LLI Group # 1299117**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:00

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:50

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E3-07 SDG#: DE303-07MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 1,060 | 174 | 347 | 10 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 6,400 | 630 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 9.6 | 1.6 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 8.8 | 1.6 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 9.6 | 1.6 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | **%** | **%** | |
| 11625 | Moisture Content by 160.3 | n.a. | 4.0 | 0.50 | 0.50 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12094SLB026 | 04/10/2012 13:02 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12094SLB026 | 04/03/2012 16:05 | JoElla L Rice | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120930001A | 04/05/2012 00:11 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120930001A | 04/02/2012 13:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120950007A | 04/05/2012 13:29 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120950007A | 04/04/2012 18:30 | Sally L Appleyard | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-040-NBZ-SB-2.5-3.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-040-NBZ-SB

**LLI Sample # SW 6599823**
**LLI Group # 1299117**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:00

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:50

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E3-07 SDG#: DE303-07MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 1,130 | 174 | 347 | 10 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 6,100 | 630 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 10 | 1.6 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 9.3 | 1.6 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 10 | 1.6 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | **%** | **%** | |
| 11626 | 28a Moisture Content by 160.3 | n.a. | 4.1 | 0.50 | 0.50 | 1 |
| | The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations. | | | | | |
| 11625 | Moisture Content by 160.3 | n.a. | 4.0 | 0.50 | 0.50 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12094SLB026 | 04/10/2012 13:20 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12094SLB026 | 04/03/2012 16:05 | JoElla L Rice | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120930001A | 04/05/2012 00:21 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120930001A | 04/02/2012 13:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120950007A | 04/05/2012 14:14 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120950007A | 04/04/2012 18:30 | Sally L Appleyard | 1 |
| 11626 | 28a Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-040-NBZ-SB-2.5-3.5 RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-040-NBZ-SB

**LLI Sample # SW 6599824**
**LLI Group # 1299117**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:00

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:50

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E3-07 SDG#: DE303-07RLR

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 2,300 | | 630 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 2.0 | J | 1.6 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | J | 1.6 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.9 | J | 1.6 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11625 | Moisture Content by 160.3 | n.a. | 4.0 | | 0.50 | 0.50 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120930001A | 04/05/2012 00:30 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120930001A | 04/02/2012 13:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120950007A | 04/05/2012 11:35 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120950007A | 04/04/2012 18:30 | Sally L Appleyard | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-040-NBZ-SB-2.5-3.5 RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-040-NBZ-SB

**LLI Sample # SW 6599825**
**LLI Group # 1299117**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:00

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:50

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E3-07 SDG#: DE303-07RLQ*

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 1,700 | | 600 | 1,500 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.8 | J | 1.5 | 3.5 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.8 | J | 1.5 | 3.5 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.9 | J | 1.5 | 3.5 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120930001A | 04/05/2012 00:40 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120930001A | 04/02/2012 13:30 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120950007A | 04/05/2012 09:35 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120950007A | 04/04/2012 18:30 | Sally L Appleyard | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299117
Reported: 04/16/12 at 10:50 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12094SLB026 | Sample number(s): 6599815-6599823 | | | | | | | | |
| N-Nitrosodimethylamine | 16.7 U | 16.7 | 33.3 | ng/kg | 112 | | 70-130 | | |
| Batch number: 120930001A | Sample number(s): 6599815-6599825 | | | | | | | | |
| 20a Formaldehyde 8315A | 600 U | 600. | 1,500 | ug/kg | 113 | | 80-126 | | |
| Batch number: 120950007A | Sample number(s): 6599815-6599825 | | | | | | | | |
| m-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 111 | | 64-111 | | |
| o-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 103 | | 75-125 | | |
| p-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 111* | | 69-109 | | |
| Batch number: 12094162401A | Sample number(s): 6599815-6599824 | | | | | | | | |
| 28a Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12094SLB026 | Sample number(s): 6599815-6599823 UNSPK: 6599821 | | | | | | | | |
| N-Nitrosodimethylamine | 122 | 130 | 70-130 | 6 | 30 | | | | |
| Batch number: 120930001A | Sample number(s): 6599815-6599825 UNSPK: 6599821 | | | | | | | | |
| 20a Formaldehyde 8315A | 121* | 116 | 80-120 | 4 | 50 | | | | |
| Batch number: 120950007A | Sample number(s): 6599815-6599825 UNSPK: 6599821 | | | | | | | | |
| m-Terphenyl | 113 | 119 | 75-125 | 5 | 20 | | | | |
| o-Terphenyl | 101 | 106 | 75-125 | 5 | 20 | | | | |
| p-Terphenyl | 109 | 115 | 75-125 | 5 | 20 | | | | |
| Batch number: 12094162401A | Sample number(s): 6599815-6599824 BKG: 6599821 | | | | | | | | |
| 28a Moisture Content by 160.3 | | | | | | 4.0 | 4.1 | 2 | 20 |
| Moisture Content by 160.3 | | | | | | 4.0 | 4.1 | 2 | 20 |
| Moisture Content by 160.3 | | | | | | 4.0 | 4.1 | 2 | 20 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299117
Reported: 04/16/12 at 10:50 AM

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21a NDMA by 1625C
Batch number: 12094SLB026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6599815 | 77 |
| 6599816 | 142 |
| 6599817 | 1087* |
| 6599818 | 80 |
| 6599819 | 92 |
| 6599820 | 1023* |
| 6599821 | 1168* |
| 6599822 | 1048* |
| 6599823 | 1065* |
| Blank | 56 |
| LCS | 76 |
| MS | 1048* |
| MSD | 1065* |
| Limits: | 50-150 |

Analysis Name: 20a Formaldehyde 8315A
Batch number: 120930001A

| | Butyraldehyde |
|---|---|
| 6599815 | 100 |
| 6599816 | 95 |
| 6599817 | 100 |
| 6599818 | 65 |
| 6599819 | 111 |
| 6599820 | 122 |
| 6599821 | 112 |
| 6599822 | 114 |
| 6599823 | 113 |
| 6599824 | 120 |
| 6599825 | 88 |
| Blank | 107 |
| LCS | 107 |
| MS | 114 |
| MSD | 113 |
| Limits: | 64-126 |

Analysis Name: 22a Terphenyls by 8015B
Batch number: 120950007A

| | n-Triacontane-d62 |
|---|---|
| 6599815 | 70 |
| 6599816 | 68 |
| 6599817 | 97 |
| 6599818 | 76 |
| 6599819 | 80 |
| 6599820 | 69 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299117
Reported: 04/16/12 at 10:50 AM

## Surrogate Quality Control

| | |
|---|---|
| 6599821 | 84 |
| 6599822 | 81 |
| 6599823 | 90 |
| 6599824 | 80 |
| 6599825 | 74 |
| Blank | 79 |
| LCS | 75 |
| MS | 81 |
| MSD | 90 |
| Limits: | 19-152 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acd# 13013 Cup# 1299117 Sample# 6319315-25

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSIS | SECONDARY ANALYSIS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | | | | | |
| Samplers Signatures: | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-036-NBZ-SB-4.0-5.0 | 3.28.12 | 1103 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-036-NBZ-SB-7.5-8.5 | 3.28.12 | 1230 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| DUP-03-NBZ-QC-032812 | 3.28.12 | 1010 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-037-NBZ-SB-3.0-4.0 | 3.28.12 | 1512 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-039-NBZ-SB-2.-3.0 | 3.28.12 | 1435 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-040-NBZ-SS-0.0-0.5 | 3.28.12 | 0851 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-040-NBZ-SB-2.5-3.5MS | 3.28.12 | 1000 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | MS/MSD |
| SL-094-NBZ-SS-0.0.-0.5 | 3.28.12 | 1420 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-096-NBZ-SS-0.0.-0.5 | 3.28.12 | 0905 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-102-NBZ-SS-0.0.-0.5 | 3.27.12 | 1355 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-109-NBZ-SS-0.0.-0.5 | 3.27.12 | 1455 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-129-NBZ-SS-0.0.-0.5 | 3.27.12 | 1435 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-135-NBZ-SS-0.0.-0.5 | 3.28.12 | 1050 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-136-NBZ-SS-0.0.-0.5 | 3.28.12 | 1345 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-139-NBZ-SS-0.0.-0.5 | 3.28.12 | 1515 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-141-NBZ-SS-0.0.-0.5 | 3.28.12 | 1450 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-143-NBZ-SS-0.0.-0.5 | 3.28.12 | 0915 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-044-NBZ-SS-0.0-0.5 | 3.29.12 | 1020 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-091-NBZ-SS-0.0-0.5 | 3.29.12 | 1120 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-092-NBZ-SS-0.0-0.5MS | 3.29.12 | 1540 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | MS/MSD |
| SL-101-NBZ-SS-0.0-0.5 | 3.29.12 | 1145 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-103-NBZ-SS-0.0-0.5 | 3.29.12 | 1110 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-130-NBZ-SS-0.0-0.5 | 3.29.12 | 0940 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| DUP-05-NBZ-QC-032912 | 3.29.12 | 1017 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| EB-NBZ-SS-032912 | 3.29.12 | 1500 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SS-032912 | 3.29.12 | 1500 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| EB-NBZ-SS-032912 | 3.29.12 | 1545 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SS-032912 | 3.29.12 | 1545 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| Relinquished by: (*Signature*) | Date/Time | Received for Laboratory by: (*Signature*) | | | | | | | | Laboratory: |
| | 3/29/2012 / 1630 | | 3/30/12 0930 | | | | | | | Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | Airbill No.(s) | | | | | | | | |
| | | | | | | | | | | |

**Nicole Maljovec**

**From:** Hartman, Pamela [HartmanPM@cdmsmith.com]
**Sent:** Friday, March 30, 2012 3:19 PM
**To:** Nicole Maljovec
**Subject:** RE: 3/29 COC: Missing 2 samples, 1 extra, and time discrepancies

**Attachments:** COC_LLI_03_29_12.xlsx

COC_LLI_03_29_12
.xlsx (26 KB)

Hi Nicole

Sorry for the mess! I am getting help next week, so hopefully things will improve

I do have SL-103 and SL-130-I'll send them today.

Yes, please add SL-091-I updated the COC

The times on the jars are correct. I don't know what I did with the COC to mess up the times-too much Copy+Paste I think

The samples for SL-141 and SL-143 should be ok. The times probably did just get flipped. Our crews are out hiking around in steep terrain, so I think the tiny details are getting missed!

Thanks!

Pam
Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

---

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Friday, March 30, 2012 11:03 AM
To: Hartman, Pamela
Subject: 3/29 COC: Missing 2 samples, 1 extra, and time discrepancies

Hi Pam,
We received the coolers and everything is in temp and intact. I have a few questions for you.

1. We did not receive SL-103-NBZ-SS-0.0-0.5 and SL-130-NBZ-SS-0.0-0.5.
Do you have these?

2. We did receive SL-091-NBZ-SB-4.0-5.0 (collected 3/29 @1020)but it isn't on the COC. Should we analyze this sample?

3. There were time discrepancies on 6 samples.
SL-096: 9:45 on labels, 9:05 on COC
SL-044: 13:11 on labels, 10:20 on COC
SL-091: 9:09 on labels, 11:20 on COC
Sl-092: 11:43 on labels, 15:40 on COC
SL-141: 9:15 on labels, 14:50 on COC
SL-143: 14:50 on labels, 9:15 on COC

Should we enter per the COC or label?

4. SL-141 and SL-143 have flipped times. Is there a chance that the bottles labeled SL-141 are really from 143 and vice versa? This has happened in the past with other clients, so I just want to make sure.

Thanks!
Nicole

acct# 13013 Cyp# 129117 Sample# 623493-5 25

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSIS | SECONDARY ANALYSIS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | | | | | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes |
| SL-036-NBZ-SB-4.0-5.0 | 3.28.12 | 1103 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | Amended COC NM 4/5/12 |
| SL-036-NBZ-SB-7.5-8.5 | 3.28.12 | 1230 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| DUP-03-NBZ-QC-032812 | 3.28.12 | 1010 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-037-NBZ-SB-3.0-4.0 | 3.28.12 | 1512 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-039-NBZ-SB-2.-3.0 | 3.28.12 | 1435 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-040-NBZ-SS-0.0-0.5 | 3.28.12 | 0851 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-040-NBZ-SB-2.5-3.5MS | 3.28.12 | 1000 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | MS/MSD |
| SL-094-NBZ-SS-0.0.-0.5 | 3.28.12 | 1420 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-096-NBZ-SS-0.0.-0.5 | 3.28.12 | 0945 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-102-NBZ-SS-0.0.-0.5 | 3.27.12 | 1355 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-109-NBZ-SS-0.0.-0.5 | 3.27.12 | 1455 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-129-NBZ-SS-0.0.-0.5 | 3.27.12 | 1435 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-135-NBZ-SS-0.0.-0.5 | 3.28.12 | 1050 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-136-NBZ-SS-0.0.-0.5 | 3.28.12 | 1345 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-139-NBZ-SS-0.0.-0.5 | 3.28.12 | 1515 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-141-NBZ-SS-0.0.-0.5 | 3.28.12 | 0915 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-143-NBZ-SS-0.0.-0.5 | 3.28.12 | 1450 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-044-NBZ-SS-0.0-0.5 | 3.29.12 | 1311 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-091-NBZ-SS-0.0-0.5 | 3.29.12 | 0909 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-091-NBZ-SB-4.0-5.0 | 3.29.12 | 1020 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-092-NBZ-SS-0.0-0.5MS | 3.29.12 | 1143 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | MS/MSD |
| SL-101-NBZ-SS-0.0-0.5 | 3.29.12 | 1145 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| DUP-05-NBZ-QC-032912 | 3.29.12 | 1017 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| EB-NBZ-SB-032912 | 3.29.12 | 1500 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SB-032912 | 3.29.12 | 1500 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| EB-NBZ-SS-032912 | 3.29.12 | 1545 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SS-032912 | 3.29.12 | 1545 | WATER | NONE | 1-250 mL glass | X | X | X | X | |

| Relinquished by: (*Signature*) | Date/Time | Received for Laboratory by: (*Signature*) | Laboratory: |
|---|---|---|---|
| | 3/29/2012 / 1630 | | Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | Airbill No.(s) | |
| | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# DE304

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 16, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/30/2012
Group Number: 1299119
SDG: DE304
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-044-NBZ-SS-0.0-0.5 Soil | 6599845 |
| SL-091-NBZ-SS-0.0-0.5 Soil | 6599846 |
| SL-091-NBZ-SB-4.0-5.0 Soil | 6599847 |
| SL-092-NBZ-SS-0.0-0.5 Soil | 6599848 |
| SL-092-NBZ-SS-0.0-0.5 MS Soil | 6599849 |
| SL-092-NBZ-SS-0.0-0.5 MSD Soil | 6599850 |
| SL-092-NBZ-SS-0.0-0.5 RL MS Soil | 6599851 |
| SL-092-NBZ-SS-0.0-0.5 RL LCS Soil | 6599852 |
| DUP-05-NBZ-QC-032912 Soil | 6599854 |
| EB-NBZ-SB-032912 Water | 6599855 |
| EB-NBZ-SS-032912 Water | 6599856 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| 1 COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

# Analysis Report



**Sample Description:** SL-044-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-NBZ-SS

**LLI Sample # SW 6599845**
**LLI Group # 1299119**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 13:11

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0401 SDG#: DE304-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 172 | U | 172 | 344 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 1,200 | J | 620 | 1,500 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.5 | U | 1.5 | 3.6 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.5 | U | 1.5 | 3.6 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 3.2 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12096SLF026 | 04/10/2012 21:04 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12096SLF026 | 04/06/2012 14:00 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120950004A | 04/06/2012 00:12 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120950004A | 04/04/2012 15:00 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120960004A | 04/06/2012 17:55 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120960004A | 04/05/2012 16:15 | JoElla L Rice | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401B | 04/04/2012 19:16 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-091-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-NBZ-SS

**LLI Sample # SW 6599846**
**LLI Group # 1299119**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 09:09

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0402 SDG#: DE304-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 204 | U | 204 | 407 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 73,000 | U | 73,000 | 180,000 | 1 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.8 | U | 1.8 | 4.3 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.8 | U | 1.8 | 4.3 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.8 | U | 1.8 | 4.3 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 18.1 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12096SLF026 | 04/10/2012 21:23 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12096SLF026 | 04/06/2012 14:00 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120950004A | 04/06/2012 00:22 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120950004A | 04/04/2012 15:00 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120960004A | 04/06/2012 16:03 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120960004A | 04/05/2012 16:15 | JoElla L Rice | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401B | 04/04/2012 19:16 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-091-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-NBZ-SB

**LLI Sample # SW 6599847**
**LLI Group # 1299119**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:20

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0403 SDG#: DE304-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 20.3 | U | 20.3 | 40.6 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 730 | U | 730 | 1,800 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.8 | U | 1.8 | 4.3 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.8 | U | 1.8 | 4.3 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.8 | U | 1.8 | 4.3 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 17.8 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12096SLF026 | 04/10/2012 21:42 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12096SLF026 | 04/06/2012 14:00 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120950004A | 04/06/2012 00:31 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120950004A | 04/04/2012 15:00 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120960004A | 04/06/2012 10:27 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120960004A | 04/05/2012 16:15 | JoElla L Rice | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401B | 04/04/2012 19:16 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-092-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-NBZ-SS

**LLI Sample # SW 6599848**
**LLI Group # 1299119**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 11:43

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0404 SDG#: DE304-04BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 19.7 | U | 19.7 | 39.3 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 71,000 | U | 71,000 | 180,000 | 1 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.8 | U | 1.8 | 4.1 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.8 | U | 1.8 | 4.1 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.8 | U | 1.8 | 4.1 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 15.2 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12096SLF026 | 04/10/2012 22:01 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12096SLF026 | 04/06/2012 14:00 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120950004A | 04/06/2012 00:41 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120950004A | 04/04/2012 15:00 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120960004A | 04/06/2012 10:50 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120960004A | 04/05/2012 16:15 | JoElla L Rice | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401B | 04/04/2012 19:16 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-092-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-092-NBZ-SS

**LLI Sample # SW 6599849**
**LLI Group # 1299119**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 11:43

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0404 SDG#: DE304-04MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 868 | 19.7 | 39.3 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 580,000 | 71,000 | 180,000 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 9.9 | 1.8 | 4.1 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 9.3 | 1.8 | 4.1 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 10 | 1.8 | 4.1 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | **%** | **%** | |
| 11625 | Moisture Content by 160.3 | n.a. | 15.2 | 0.50 | 0.50 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12096SLF026 | 04/10/2012 22:20 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12096SLF026 | 04/06/2012 14:00 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120950004A | 04/06/2012 00:50 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120950004A | 04/04/2012 15:00 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120960004A | 04/06/2012 11:12 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120960004A | 04/05/2012 16:15 | JoElla L Rice | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401B | 04/04/2012 19:16 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-092-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-092-NBZ-SS

**LLI Sample # SW 6599850**
**LLI Group # 1299119**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 11:43

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0404 SDG#: DE304-04MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 915 | 19.7 | 39.3 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 560,000 | 71,000 | 180,000 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 9.9 | 1.8 | 4.1 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 9.3 | 1.8 | 4.1 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 10 | 1.8 | 4.1 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | **%** | **%** | |
| 11626 | 28a Moisture Content by 160.3 | n.a. | 14.9 | 0.50 | 0.50 | 1 |
| | The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations. | | | | | |
| 11625 | Moisture Content by 160.3 | n.a. | 15.2 | 0.50 | 0.50 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12096SLF026 | 04/10/2012 22:39 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12096SLF026 | 04/06/2012 14:00 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120950004A | 04/06/2012 01:00 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120950004A | 04/04/2012 15:00 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120960004A | 04/06/2012 11:34 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120960004A | 04/05/2012 16:15 | JoElla L Rice | 1 |
| 11626 | 28a Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401B | 04/04/2012 19:16 | Scott W Freisher | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401B | 04/04/2012 19:16 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-092-NBZ-SS-0.0-0.5 RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-092-NBZ-SS

**LLI Sample # SW 6599851**
**LLI Group # 1299119**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 11:43

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0404 SDG#: DE304-04RLR

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 210,000 | | 71,000 | 180,000 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.9 | J | 1.8 | 4.1 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.8 | J | 1.8 | 4.1 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 2.0 | J | 1.8 | 4.1 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11625 | Moisture Content by 160.3 | n.a. | 15.2 | | 0.50 | 0.50 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120950004A | 04/06/2012 01:09 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120950004A | 04/04/2012 15:00 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120960004A | 04/06/2012 11:57 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120960004A | 04/05/2012 16:15 | JoElla L Rice | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401B | 04/04/2012 19:16 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-092-NBZ-SS-0.0-0.5 RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-092-NBZ-SS

**LLI Sample # SW 6599852**
**LLI Group # 1299119**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 11:43

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0404 SDG#: DE304-04RLQ

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 1,800 | | 600 | 1,500 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.8 | J | 1.5 | 3.5 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | J | 1.5 | 3.5 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.9 | J | 1.5 | 3.5 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120950004A | 04/06/2012 01:19 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120950004A | 04/04/2012 15:00 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120960004A | 04/06/2012 12:19 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120960004A | 04/05/2012 16:15 | JoElla L Rice | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** DUP-05-NBZ-QC-032912 Soil
SSFL Area IV Collocated Soil Sampling
DUP-05-NBZ

**LLI Sample # SW 6599854**
**LLI Group # 1299119**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:17

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0406 SDG#: DE304-06FD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 209 | U | 209 | 419 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 75,000 | U | 75,000 | 190,000 | 1 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.9 | U | 1.9 | 4.4 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.9 | U | 1.9 | 4.4 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.9 | U | 1.9 | 4.4 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 20.4 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12096SLF026 | 04/10/2012 23:17 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12096SLF026 | 04/06/2012 14:00 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120950004A | 04/06/2012 01:28 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120950004A | 04/04/2012 15:00 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120960004A | 04/06/2012 12:42 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120960004A | 04/05/2012 16:15 | JoElla L Rice | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401B | 04/04/2012 19:16 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** EB-NBZ-SB-032912 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SB

**LLI Sample # WW 6599855**
**LLI Group # 1299119**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:00

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0407 SDG#: DE304-07EB

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/l** | | **ng/l** | **ng/l** | |
| 10962 | N-Nitrosodimethylamine | 62-75-9 | 0.480 | U | 0.480 | 0.960 | 1 |
| | The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and no target analytes were detected, the data is reported. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/l** | | **ug/l** | **ug/l** | |
| 04144 | 20b Formaldehyde 8315A | 50-00-0 | 10 | U | 10 | 50 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/l** | | **mg/l** | **mg/l** | |
| 10319 | m-Terphenyl | 92-06-8 | 0.15 | U | 0.15 | 0.48 | 1 |
| 10319 | o-Terphenyl | 84-15-1 | 0.15 | U | 0.15 | 0.48 | 1 |
| 10319 | p-Terphenyl | 92-94-4 | 0.15 | U | 0.15 | 0.48 | 1 |
| | The final sample volume was increased due to a preparation error and there is insufficient sample for re-extraction. The reporting limits are raised accordingly. The client was contacted and the data reported. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10962 | 21b NDMA by 1625C | EPA 1625C | 1 | 12094WAC026 | 04/10/2012 20:26 | Matthew S Woods | 1 |
| 11629 | NDMA Liquid/Liquid Extraction | SW-846 3520C | 1 | 12094WAC026 | 04/03/2012 13:30 | Wanda F Oswald | 1 |
| 04144 | 20b Formaldehyde 8315A | SW-846 8315A | 1 | 120910001A | 04/02/2012 17:44 | James H Place | 1 |
| 01013 | Formaldehyde Extraction | SW-846 8315A | 1 | 120910001A | 03/31/2012 11:20 | Denise L Trimby | 1 |
| 10319 | 22b Terphenyls by 8015B | SW-846 8015B | 1 | 120910011A | 04/03/2012 22:16 | Robert Brown | 1 |
| 10304 | Terphenyls water prep | SW-846 3510C | 1 | 120910011A | 04/02/2012 10:10 | Catherine R Wiker | 1 |

*=This limit was used in the evaluation of the final result

eurofins | Lancaster Laboratories

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# Analysis Report



**Sample Description: EB-NBZ-SS-032912 Water**
**SSFL Area IV Collocated Soil Sampling**
**EB-NBZ-SS**

**LLI Sample # WW 6599856**
**LLI Group # 1299119**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:45

Submitted: 03/30/2012 09:30
Reported: 04/16/2012 10:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0408 SDG#: DE304-08EB*

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/l** | | **ng/l** | **ng/l** | |
| 10962 | N-Nitrosodimethylamine | 62-75-9 | 0.519 | U | 0.519 | 1.04 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/l** | | **ug/l** | **ug/l** | |
| 04144 | 20b Formaldehyde 8315A | 50-00-0 | 10 | U | 10 | 50 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/l** | | **mg/l** | **mg/l** | |
| 10319 | m-Terphenyl | 92-06-8 | 0.17 | U | 0.17 | 0.54 | 1 |
| 10319 | o-Terphenyl | 84-15-1 | 0.17 | U | 0.17 | 0.54 | 1 |
| 10319 | p-Terphenyl | 92-94-4 | 0.17 | U | 0.17 | 0.54 | 1 |

The final sample volume was increased due to a preparation error and there is insufficient sample for re-extraction. The reporting limits are raised accordingly. The client was contacted and the data reported.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10962 | 21b NDMA by 1625C | EPA 1625C | 1 | 12094WAC026 | 04/10/2012 20:45 | Matthew S Woods | 1 |
| 11629 | NDMA Liquid/Liquid Extraction | SW-846 3520C | 1 | 12094WAC026 | 04/03/2012 13:30 | Wanda F Oswald | 1 |
| 04144 | 20b Formaldehyde 8315A | SW-846 8315A | 1 | 120910001A | 04/02/2012 17:54 | James H Place | 1 |
| 01013 | Formaldehyde Extraction | SW-846 8315A | 1 | 120910001A | 03/31/2012 11:20 | Denise L Trimby | 1 |
| 10319 | 22b Terphenyls by 8015B | SW-846 8015B | 1 | 120910011A | 04/03/2012 22:39 | Robert Brown | 1 |
| 10304 | Terphenyls water prep | SW-846 3510C | 1 | 120910011A | 04/02/2012 10:10 | Catherine R Wiker | 1 |

*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299119
Reported: 04/16/12 at 10:52 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12094WAC026 | Sample number(s): 6599855-6599856 | | | | | | | | |
| N-Nitrosodimethylamine | 0.500 U | 0.500 | 1.00 | ng/l | 105 | 102 | 70-130 | 3 | 30 |
| Batch number: 12096SLF026 | Sample number(s): 6599845-6599850,6599854 | | | | | | | | |
| N-Nitrosodimethylamine | 16.7 U | 16.7 | 33.3 | ng/kg | 106 | | 70-130 | | |
| Batch number: 120910001A | Sample number(s): 6599855-6599856 | | | | | | | | |
| 20b Formaldehyde 8315A | 10 U | 10. | 50 | ug/l | 114 | 110 | 69-130 | 4 | 30 |
| Batch number: 120950004A | Sample number(s): 6599845-6599852,6599854 | | | | | | | | |
| 20a Formaldehyde 8315A | 600 U | 600. | 1,500 | ug/kg | 101 | | 80-126 | | |
| Batch number: 120910011A | Sample number(s): 6599855-6599856 | | | | | | | | |
| m-Terphenyl | 0.16 U | 0.16 | 0.50 | mg/l | 96 | 88 | 61-108 | 9 | 20 |
| o-Terphenyl | 0.16 U | 0.16 | 0.50 | mg/l | 92 | 84 | 75-125 | 9 | 20 |
| p-Terphenyl | 0.16 U | 0.16 | 0.50 | mg/l | 94 | 86 | 63-110 | 9 | 20 |
| Batch number: 120960004A | Sample number(s): 6599845-6599852,6599854 | | | | | | | | |
| m-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 110 | | 64-111 | | |
| o-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 102 | | 75-125 | | |
| p-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 109 | | 69-109 | | |
| Batch number: 12095162401B | Sample number(s): 6599845-6599851,6599854 | | | | | | | | |
| 28a Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12096SLF026 | Sample number(s): 6599845-6599850,6599854 UNSPK: 6599848 | | | | | | | | |
| N-Nitrosodimethylamine | 88 | 93 | 70-130 | 5 | 30 | | | | |
| Batch number: 120950004A | Sample number(s): 6599845-6599852,6599854 UNSPK: 6599848 | | | | | | | | |
| 20a Formaldehyde 8315A | 98 | 95 | 80-120 | 3 | 50 | | | | |
| Batch number: 120960004A | Sample number(s): 6599845-6599852,6599854 UNSPK: 6599848 | | | | | | | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299119
Reported: 04/16/12 at 10:52 AM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| m-Terphenyl | 102 | 103 | 75-125 | 0 | 20 | | | | |
| o-Terphenyl | 94 | 94 | 75-125 | 1 | 20 | | | | |
| p-Terphenyl | 103 | 103 | 75-125 | 0 | 20 | | | | |
| Batch number: 12095162401B | Sample number(s): 6599845-6599851,6599854 BKG: 6599848 | | | | | | | | |
| 28a Moisture Content by 160.3 | | | | | | 15.2 | 14.9 | 2 | 20 |
| Moisture Content by 160.3 | | | | | | 15.2 | 14.9 | 2 | 20 |
| Moisture Content by 160.3 | | | | | | 15.2 | 14.9 | 2 | 20 |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21b. NDMA in Water
Batch number: 12094WAC026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6599855 | 184* |
| 6599856 | 131 |
| Blank | 89 |
| LCS | 110 |
| LCSD | 97 |
| Limits: | 50-150 |

Analysis Name: 21a NDMA by 1625C
Batch number: 12096SLF026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6599845 | 104 |
| 6599846 | 113 |
| 6599847 | 73 |
| 6599848 | 84 |
| 6599849 | 82 |
| 6599850 | 90 |
| 6599854 | 114 |
| Blank | 84 |
| LCS | 87 |
| MS | 82 |
| MSD | 90 |
| Limits: | 50-150 |

Analysis Name: 20b Formaldehyde 8315A
Batch number: 120910001A

| | Butyraldehyde |
|---|---|

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299119
Reported: 04/16/12 at 10:52 AM

## Surrogate Quality Control

| | |
|---|---|
| 6599855 | 104 |
| 6599856 | 105 |
| Blank | 93 |
| LCS | 96 |
| LCSD | 89 |

Limits: 45-145

Analysis Name: 20a Formaldehyde 8315A
Batch number: 120950004A

Butyraldehyde

| | |
|---|---|
| 6599845 | 104 |
| 6599846 | 103 |
| 6599847 | 104 |
| 6599848 | 109 |
| 6599849 | 106 |
| 6599850 | 99 |
| 6599851 | 104 |
| 6599852 | 108 |
| 6599854 | 99 |
| Blank | 106 |
| LCS | 115 |
| MS | 106 |
| MSD | 99 |

Limits: 64-126

Analysis Name: 22b Terphenyls by 8015B
Batch number: 120910011A

n-Triacontane-d62

| | |
|---|---|
| 6599855 | 71 |
| 6599856 | 71 |
| Blank | 76 |
| LCS | 72 |
| LCSD | 68 |

Limits: 46-100

Analysis Name: 22a Terphenyls by 8015B
Batch number: 120960004A

n-Triacontane-d62

| | |
|---|---|
| 6599845 | 57 |
| 6599846 | 95 |
| 6599847 | 70 |
| 6599848 | 67 |
| 6599849 | 69 |
| 6599850 | 70 |
| 6599851 | 69 |
| 6599852 | 71 |
| 6599854 | 74 |
| Blank | 72 |
| LCS | 70 |
| MS | 69 |
| MSD | 70 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299119
Reported: 04/16/12 at 10:52 AM

## Surrogate Quality Control

Limits: 19-152

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1299119 Sample# 6599545-56

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSES | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | | | | | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes |
| SL-036-NBZ-SB-4.0-5.0 | 3.28.12 | 1103 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-036-NBZ-SB-7.5-8.5 | 3.28.12 | 1230 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| DUP-03-NBZ-QC-032812 | 3.28.12 | 1010 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-037-NBZ-SB-3.0-4.0 | 3.28.12 | 1512 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-039-NBZ-SB-2.-3.0 | 3.28.12 | 1435 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-040-NBZ-SS-0.0-0.5 | 3.28.12 | 0851 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-040-NBZ-SB-2.5-3.5MS | 3.28.12 | 1000 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | MS/MSD |
| SL-094-NBZ-SS-0.0.-0.5 | 3.28.12 | 1420 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-096-NBZ-SS-0.0.-0.5 | 3.28.12 | 0905 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-102-NBZ-SS-0.0.-0.5 | 3.27.12 | 1355 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-109-NBZ-SS-0.0.-0.5 | 3.27.12 | 1455 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-129-NBZ-SS-0.0.-0.5 | 3.27.12 | 1435 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-135-NBZ-SS-0.0.-0.5 | 3.28.12 | 1050 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-136-NBZ-SS-0.0.-0.5 | 3.28.12 | 1345 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-139-NBZ-SS-0.0.-0.5 | 3.28.12 | 1515 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-141-NBZ-SS-0.0.-0.5 | 3.28.12 | 1450 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-143-NBZ-SS-0.0.-0.5 | 3.28.12 | 0915 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-044-NBZ-SS-0.0-0.5 | 3.29.12 | 1020 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-091-NBZ-SS-0.0-0.5 | 3.29.12 | 1120 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-092-NBZ-SS-0.0-0.5MS | 3.29.12 | 1540 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | MS/MSD |
| SL-101-NBZ-SS-0.0-0.5 | 3.29.12 | 1145 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-103-NBZ-SS-0.0-0.5 | 3.29.12 | 1110 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-130-NBZ-SS-0.0-0.5 | 3.29.12 | 0940 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| DUP-05-NBZ-QC-032912 | 3.29.12 | 1017 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| EB-NBZ-SB-032912 | 3.29.12 | 1500 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SB-032912 | 3.29.12 | 1500 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| EB-NBZ-SS-032912 | 3.29.12 | 1545 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SS-032912 | 3.29.12 | 1545 | WATER | NONE | 1-250 mL glass | X | X | X | X | |

| Relinquished by: (Signature) | Date/Time | Received for Labbratory by: (Signature) | Laboratory: |
|---|---|---|---|
| | 3/29/2012 / 1630 | 3/30/12 0930 | Lancaster Laboratories, Inc. |
| Received by: (Signature) | Date/Time | Airbill No.(s) | |
| | | | |

**Nicole Maljovec**

**From:** Hartman, Pamela [HartmanPM@cdmsmith.com]
**Sent:** Friday, March 30, 2012 3:19 PM
**To:** Nicole Maljovec
**Subject:** RE: 3/29 COC: Missing 2 samples, 1 extra, and time discrepancies

**Attachments:** COC_LLI_03_29_12.xlsx

COC_LLI_03_29_12
.xlsx (26 KB)

Hi Nicole

Sorry for the mess! I am getting help next week, so hopefully things will improve

I do have SL-103 and SL-130-I'll send them today.

Yes, please add SL-091-I updated the COC

The times on the jars are correct. I don't know what I did with the COC to mess up the times-too much Copy+Paste I think

The samples for SL-141 and SL-143 should be ok. The times probably did just get flipped. Our crews are out hiking around in steep terrain, so I think the tiny details are getting missed!

Thanks!

Pam
Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

---

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Friday, March 30, 2012 11:03 AM
To: Hartman, Pamela
Subject: 3/29 COC: Missing 2 samples, 1 extra, and time discrepancies

Hi Pam,
We received the coolers and everything is in temp and intact. I have a few questions for you.

1. We did not receive SL-103-NBZ-SS-0.0-0.5 and SL-130-NBZ-SS-0.0-0.5.
Do you have these?

2. We did receive SL-091-NBZ-SB-4.0-5.0 (collected 3/29 @1020)but it isn't on the COC. Should we analyze this sample?

3. There were time discrepancies on 6 samples.
SL-096: 9:45 on labels, 9:05 on COC
SL-044: 13:11 on labels, 10:20 on COC
SL-091: 9:09 on labels, 11:20 on COC
Sl-092: 11:43 on labels, 15:40 on COC
SL-141: 9:15 on labels, 14:50 on COC
SL-143: 14:50 on labels, 9:15 on COC

Should we enter per the COC or label?

4. SL-141 and SL-143 have flipped times. Is there a chance that the bottles labeled SL-141 are really from 143 and vice versa? This has happened in the past with other clients, so I just want to make sure.

Thanks!
Nicole

acct#13013 Cap# 1299119 Sample# 6596345-56

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRI MA ONDARY ANAL PY | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | | | | | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes |
| SL-036-NBZ-SB-4.0-5.0 | 3.28.12 | 1103 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | Amended COC NLH 4/9/12 |
| SL-036-NBZ-SB-7.5-8.5 | 3.28.12 | 1230 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| DUP-03-NBZ-QC-032812 | 3.28.12 | 1010 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-037-NBZ-SB-3.0-4.0 | 3.28.12 | 1512 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-039-NBZ-SB-2.-3.0 | 3.28.12 | 1435 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-040-NBZ-SS-0.0-0.5 | 3.28.12 | 0851 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-040-NBZ-SB-2.5-3.5MS | 3.28.12 | 1000 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | MS/MSD |
| SL-094-NBZ-SS-0.0.-0.5 | 3.28.12 | 1420 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-096-NBZ-SS-0.0.-0.5 | 3.28.12 | 0945 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-102-NBZ-SS-0.0.-0.5 | 3.27.12 | 1355 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-109-NBZ-SS-0.0.-0.5 | 3.27.12 | 1455 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-129-NBZ-SS-0.0.-0.5 | 3.27.12 | 1435 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-135-NBZ-SS-0.0.-0.5 | 3.28.12 | 1050 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-136-NBZ-SS-0.0.-0.5 | 3.28.12 | 1345 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-139-NBZ-SS-0.0.-0.5 | 3.28.12 | 1515 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-141-NBZ-SS-0.0.-0.5 | 3.28.12 | 0915 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-143-NBZ-SS-0.0.-0.5 | 3.28.12 | 1450 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-044-NBZ-SS-0.0-0.5 | 3.29.12 | 1311 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-091-NBZ-SS-0.0-0.5 | 3.29.12 | 0909 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-091-NBZ-SB-4.0-5.0 | 3.29.12 | 1020 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-092-NBZ-SS-0.0-0.5MS | 3.29.12 | 1143 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | MS/MSD |
| SL-101-NBZ-SS-0.0-0.5 | 3.29.12 | 1145 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| DUP-05-NBZ-QC-032912 | 3.29.12 | 1017 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| EB-NBZ-SB-032912 | 3.29.12 | 1500 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SB-032912 | 3.29.12 | 1500 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| EB-NBZ-SS-032912 | 3.29.12 | 1545 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SS-032912 | 3.29.12 | 1545 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| Relinquished by: (*Signature*) | Date/Time 3/29/2012 / 1630 | | Received for Laboratory by: (*Signature*) | | | | | | | Laboratory: Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s) | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# DE305

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 16, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/31/2012
Group Number: 1299283
SDG: DE305
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-079-NBZ-SS-0.0-0.5 Soil | 6600769 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| 1 COPY TO | Data Package Group | |

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report

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# Analysis Report



**Sample Description:** SL-079-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-NBZ-SS

**LLI Sample # SW 6600769**
**LLI Group # 1299283**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/30/2012 09:50

Submitted: 03/31/2012 09:35
Reported: 04/16/2012 10:56

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL079 SDG#: DE305-01*

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 188 | U | 188 | 377 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 680 | U | 680 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 4.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.5 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12096SLF026 | 04/10/2012 23:36 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12096SLF026 | 04/06/2012 14:00 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 120950004A | 04/06/2012 01:38 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 120950004A | 04/04/2012 15:00 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120960004A | 04/06/2012 13:04 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120960004A | 04/05/2012 16:15 | JoElla L Rice | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401B | 04/03/2012 18:52 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299283
Reported: 04/16/12 at 10:56 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12096SLF026 | Sample number(s): 6600769 | | | | | | | | |
| N-Nitrosodimethylamine | 16.7 U | 16.7 | 33.3 | ng/kg | 106 | | 70-130 | | |
| Batch number: 120950004A | Sample number(s): 6600769 | | | | | | | | |
| 20a Formaldehyde 8315A | 600 U | 600. | 1,500 | ug/kg | 101 | | 80-126 | | |
| Batch number: 120960004A | Sample number(s): 6600769 | | | | | | | | |
| m-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 110 | | 64-111 | | |
| o-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 102 | | 75-125 | | |
| p-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 109 | | 69-109 | | |
| Batch number: 12094162401B | Sample number(s): 6600769 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12096SLF026 | Sample number(s): 6600769 UNSPK: P599848 | | | | | | | | |
| N-Nitrosodimethylamine | 88 | 93 | 70-130 | 5 | 30 | | | | |
| Batch number: 120950004A | Sample number(s): 6600769 UNSPK: P599848 | | | | | | | | |
| 20a Formaldehyde 8315A | 98 | 95 | 80-120 | 3 | 50 | | | | |
| Batch number: 120960004A | Sample number(s): 6600769 UNSPK: P599848 | | | | | | | | |
| m-Terphenyl | 102 | 103 | 75-125 | 0 | 20 | | | | |
| o-Terphenyl | 94 | 94 | 75-125 | 1 | 20 | | | | |
| p-Terphenyl | 103 | 103 | 75-125 | 0 | 20 | | | | |
| Batch number: 12094162401B | Sample number(s): 6600769 BKG: 6600769 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 11.5 | 11.9 | 3 | 20 |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299283
Reported: 04/16/12 at 10:56 AM

## Surrogate Quality Control

Analysis Name: 21a NDMA by 1625C
Batch number: 12096SLF026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6600769 | 119 |
| Blank | 84 |
| LCS | 87 |
| MS | 82 |
| MSD | 90 |
| Limits: | 50-150 |

Analysis Name: 20a Formaldehyde 8315A
Batch number: 120950004A

| | Butyraldehyde |
|---|---|
| 6600769 | 115 |
| Blank | 106 |
| LCS | 115 |
| MS | 106 |
| MSD | 99 |
| Limits: | 64-126 |

Analysis Name: 22a Terphenyls by 8015B
Batch number: 120960004A

| | n-Triacontane-d62 |
|---|---|
| 6600769 | 73 |
| Blank | 72 |
| LCS | 70 |
| MS | 69 |
| MSD | 70 |
| Limits: | 19-152 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Qp# 1299283 Sample# 6600769

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | | PRIMARY ANALYSES | SECONDARY ANALYSES | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | | | | | | |
| Samplers Signatures: | | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| SL-079-NBZ-SS-0.0-0.5 | 3.30.12 | 0950 | SOIL | NONE | 1-8 oz Jar | | X | X | X | X | |
| SL-121-NBZ-SS-0.0-0.5 | 3.30.12 | 1110 | SOIL | NONE | 1-4 oz Jar | | X | | | | |
| SL-134-NBZ-SS-0.0-0.5 | 3.30.12 | 1030 | SOIL | NONE | 1-4 oz Jar | | X | | | | |
| SL-101-NBZ-SS-0.0-0.5 | 3.29.12 | 1005 | SOIL | NONE | 1-4 oz Jar | | X | | | | |
| SL-103-NBZ-SS-0.0-0.5 | 3.29.12 | 0925 | SOIL | NONE | 1-4 oz Jar | | X | | | | |
| SL-118-NBZ-SS-0.0-0.5MS | 3.29.12 | 1510 | SOIL | NONE | 1-16 oz Jar | | X | | | | MS/MSD |
| SL-130-NBZ-SS-0.0-0.5 | 3.29.12 | 1035 | SOIL | NONE | 1-4 oz Jar | | X | | | | |
| SL-197-NBZ-SS-0.0-0.5 | 3.29.12 | 1355 | SOIL | NONE | 1-4 oz Jar | | X | | | | |
| DUP-004-NBZ-QC-032912 | 3.29.12 | 1510 | SOIL | NONE | 1-4 oz Jar | | X | | | | |
| Relinquished by: (*Signature*) | Date/Time | | Received for Laboratory by: (*Signature*) | | | | | | | | Laboratory: |
| | 3/30/2012 / 1630 | | LLI 3/31/12 0935 | | | | | | | | Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s) | | | | | | | | |
| | | | 7934 0303 2826 | | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 18, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/05/2012
Group Number: 1300395
SDG: DE306
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-032-NBZ-SS-0.0-0.5 Soil | 6607516 |
| SL-035-NBZ-SS-0.0-0.5 Soil | 6607517 |
| SL-035-NBZ-SB-2.0-3.0 Soil | 6607518 |
| SL-020-NBZ-SB-2.5-3.5 Soil | 6607519 |
| EB-NBZ-SB-040412 Water | 6607520 |
| EB-NBZ-SS-040412 Water | 6607521 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| 1 COPY TO | Data Package Group | |

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Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

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# Analysis Report



**Sample Description:** SL-032-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-NBZ-SS

**LLI Sample # SW 6607516**
**LLI Group # 1300395**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:00

Submitted: 04/05/2012 09:05
Reported: 04/18/2012 13:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

06-01 SDG#: DE306-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 189 | U | 189 | 378 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 680 | U | 680 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 4.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.7 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12101SLD026 | 04/12/2012 13:52 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12101SLD026 | 04/11/2012 03:30 | David V Hershey Jr | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121000005A | 04/11/2012 21:03 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121000005A | 04/09/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121020023A | 04/16/2012 20:11 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121020023A | 04/12/2012 03:00 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-035-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-NBZ-SS

**LLI Sample # SW 6607517**
**LLI Group # 1300395**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:30

Submitted: 04/05/2012 09:05
Reported: 04/18/2012 13:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

06-02 SDG#: DE306-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 188 | U | 188 | 377 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 680 | U | 680 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 4.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.5 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12101SLD026 | 04/12/2012 14:11 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12101SLD026 | 04/11/2012 03:30 | David V Hershey Jr | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121000005A | 04/11/2012 21:12 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121000005A | 04/09/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121020023A | 04/16/2012 20:33 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121020023A | 04/12/2012 03:00 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-035-NBZ-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-NBZ-SB

**LLI Sample # SW 6607518**
**LLI Group # 1300395**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:40

Submitted: 04/05/2012 09:05
Reported: 04/18/2012 13:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

06-03 SDG#: DE306-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.3 | U | 17.3 | 34.7 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 630 | U | 630 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 4.2 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12101SLD026 | 04/12/2012 14:30 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12101SLD026 | 04/11/2012 03:30 | David V Hershey Jr | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121000005A | 04/11/2012 21:22 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121000005A | 04/09/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121020023A | 04/16/2012 19:49 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121020023A | 04/12/2012 03:00 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-020-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-NBZ-SB

**LLI Sample # SW 6607519**
**LLI Group # 1300395**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 13:40

Submitted: 04/05/2012 09:05
Reported: 04/18/2012 13:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

06-04 SDG#: DE306-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 185 | U | 185 | 371 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 670 | U | 670 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 3.9 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.0 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12101SLD026 | 04/12/2012 15:26 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12101SLD026 | 04/11/2012 03:30 | David V Hershey Jr | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121000005A | 04/11/2012 21:31 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121000005A | 04/09/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121020023A | 04/16/2012 18:20 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121020023A | 04/12/2012 03:00 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** EB-NBZ-SB-040412 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SB

**LLI Sample # WW 6607520**
**LLI Group # 1300395**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 14:30

Submitted: 04/05/2012 09:05
Reported: 04/18/2012 13:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

06-05 SDG#: DE306-05EB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/l** | **ng/l** | **ng/l** | |
| 10962 | N-Nitrosodimethylamine | 62-75-9 | 0.477 U | 0.477 | 0.954 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/l** | **ug/l** | **ug/l** | |
| 04144 | 20b Formaldehyde 8315A | 50-00-0 | 10 U | 10 | 50 | 1 |
| | The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and surrogate recoveries are within the QC acceptance limits. Since the hold time had expired prior to the second extraction all results are reported from the original extract. Similar results were obtained in both extracts. | | | | | |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/l** | **mg/l** | **mg/l** | |
| 10319 | m-Terphenyl | 92-06-8 | 0.076 U | 0.076 | 0.24 | 1 |
| 10319 | o-Terphenyl | 84-15-1 | 0.076 U | 0.076 | 0.24 | 1 |
| 10319 | p-Terphenyl | 92-94-4 | 0.076 U | 0.076 | 0.24 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10962 | 21b NDMA by 1625C | EPA 1625C | 1 | 12098WAH026 | 04/11/2012 02:26 | Matthew S Woods | 1 |
| 11629 | NDMA Liquid/Liquid Extraction | SW-846 3520C | 1 | 12098WAH026 | 04/09/2012 01:00 | David V Hershey Jr | 1 |
| 04144 | 20b Formaldehyde 8315A | SW-846 8315A | 1 | 120980001A | 04/09/2012 18:29 | James H Place | 1 |
| 01013 | Formaldehyde Extraction | SW-846 8315A | 1 | 120980001A | 04/07/2012 08:15 | Joseph S Feister | 1 |
| 10319 | 22b Terphenyls by 8015B | SW-846 8015B | 1 | 121000024A | 04/16/2012 16:28 | Robert Brown | 1 |
| 10304 | Terphenyls water prep | SW-846 3510C | 1 | 121000024A | 04/10/2012 11:00 | Olivia Arosemena | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** EB-NBZ-SS-040412 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SS

**LLI Sample # WW 6607521**
**LLI Group # 1300395**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 15:45

Submitted: 04/05/2012 09:05
Reported: 04/18/2012 13:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

06-06 SDG#: DE306-06EB*

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/l** | | **ng/l** | **ng/l** | |
| 10962 | N-Nitrosodimethylamine | 62-75-9 | 0.476 | U | 0.476 | 0.951 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/l** | | **ug/l** | **ug/l** | |
| 04144 | 20b Formaldehyde 8315A | 50-00-0 | 10 | U | 10 | 50 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/l** | | **mg/l** | **mg/l** | |
| 10319 | m-Terphenyl | 92-06-8 | 0.076 | U | 0.076 | 0.24 | 1 |
| 10319 | o-Terphenyl | 84-15-1 | 0.076 | U | 0.076 | 0.24 | 1 |
| 10319 | p-Terphenyl | 92-94-4 | 0.076 | U | 0.076 | 0.24 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10962 | 21b NDMA by 1625C | EPA 1625C | 1 | 12098WAH026 | 04/11/2012 02:45 | Matthew S Woods | 1 |
| 11629 | NDMA Liquid/Liquid Extraction | SW-846 3520C | 1 | 12098WAH026 | 04/09/2012 01:00 | David V Hershey Jr | 1 |
| 04144 | 20b Formaldehyde 8315A | SW-846 8315A | 1 | 120980001A | 04/09/2012 18:39 | James H Place | 1 |
| 01013 | Formaldehyde Extraction | SW-846 8315A | 1 | 120980001A | 04/07/2012 08:15 | Joseph S Feister | 1 |
| 10319 | 22b Terphenyls by 8015B | SW-846 8015B | 1 | 121000024A | 04/16/2012 16:51 | Robert Brown | 1 |
| 10304 | Terphenyls water prep | SW-846 3510C | 1 | 121000024A | 04/10/2012 11:00 | Olivia Arosemena | 1 |

*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300395
Reported: 04/18/12 at 01:59 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12098WAH026 | Sample number(s): 6607520-6607521 | | | | | | | | | |
| N-Nitrosodimethylamine | 0.500 | U | 0.500 | 1.00 | ng/l | 99 | 95 | 70-130 | 4 | 30 |
| Batch number: 12101SLD026 | Sample number(s): 6607516-6607519 | | | | | | | | | |
| N-Nitrosodimethylamine | 16.7 | U | 16.7 | 33.3 | ng/kg | 109 | | 70-130 | | |
| Batch number: 120980001A | Sample number(s): 6607520-6607521 | | | | | | | | | |
| 20b Formaldehyde 8315A | 10 | U | 10. | 50 | ug/l | 100 | 92 | 69-130 | 8 | 30 |
| Batch number: 121000005A | Sample number(s): 6607516-6607519 | | | | | | | | | |
| 20a Formaldehyde 8315A | 600 U | | 600. | 1,500 | ug/kg | 94 | | 80-126 | | |
| Batch number: 121000024A | Sample number(s): 6607520-6607521 | | | | | | | | | |
| m-Terphenyl | 0.080 | U | 0.080 | 0.25 | mg/l | 92 | 94 | 61-108 | 2 | 20 |
| o-Terphenyl | 0.080 | U | 0.080 | 0.25 | mg/l | 92 | 92 | 75-125 | 0 | 20 |
| p-Terphenyl | 0.080 | U | 0.080 | 0.25 | mg/l | 90 | 92 | 63-110 | 2 | 20 |
| Batch number: 121020023A | Sample number(s): 6607516-6607519 | | | | | | | | | |
| m-Terphenyl | 1.5 | U | 1.5 | 3.5 | mg/kg | 91 | | 64-111 | | |
| o-Terphenyl | 1.5 | U | 1.5 | 3.5 | mg/kg | 91 | | 75-125 | | |
| p-Terphenyl | 1.5 | U | 1.5 | 3.5 | mg/kg | 91 | | 69-109 | | |
| Batch number: 12102162401A | Sample number(s): 6607516-6607519 | | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 100 | | 80-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12101SLD026 | Sample number(s): 6607516-6607519 UNSPK: 6607518 | | | | | | | | |
| N-Nitrosodimethylamine | 114 | 113 | 70-130 | 1 | 30 | | | | |
| Batch number: 121000005A | Sample number(s): 6607516-6607519 UNSPK: P605174 | | | | | | | | |
| 20a Formaldehyde 8315A | 94 | 101 | 80-120 | 7 | 50 | | | | |
| Batch number: 121020023A | Sample number(s): 6607516-6607519 UNSPK: P612343 | | | | | | | | |
| m-Terphenyl | 99 | 96 | 75-125 | 3 | 20 | | | | |
| o-Terphenyl | 92 | 90 | 75-125 | 3 | 20 | | | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300395
Reported: 04/18/12 at 01:59 PM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| p-Terphenyl | 97 | 96 | 75-125 | 2 | 20 | | | | |
| Batch number: 12102162401A | Sample number(s): 6607516-6607519 | | | | | BKG: P600775 | | | |
| Moisture Content by 160.3 | | | | | | 9.0 | 9.1 | 1 | 20 |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21b. NDMA in Water
Batch number: 12098WAH026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6607520 | 159* |
| 6607521 | 155* |
| Blank | 126 |
| LCS | 110 |
| LCSD | 112 |
| Limits: | 50-150 |

Analysis Name: 21a NDMA by 1625C
Batch number: 12101SLD026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6607516 | 93 |
| 6607517 | 95 |
| 6607518 | 81 |
| 6607519 | 100 |
| Blank | 69 |
| LCS | 60 |
| MS | 71 |
| MSD | 74 |
| Limits: | 50-150 |

Analysis Name: 20b Formaldehyde 8315A
Batch number: 120980001A

| | Butyraldehyde |
|---|---|
| 6607520 | 11* |
| 6607521 | 85 |
| Blank | 86 |
| LCS | 94 |
| LCSD | 84 |
| Limits: | 45-145 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300395
Reported: 04/18/12 at 01:59 PM

## Surrogate Quality Control

Analysis Name: 20a Formaldehyde 8315A
Batch number: 121000005A

| | Butyraldehyde |
|---|---|
| 6607516 | 108 |
| 6607517 | 106 |
| 6607518 | 89 |
| 6607519 | 100 |
| Blank | 110 |
| LCS | 97 |
| MS | 110 |
| MSD | 110 |
| Limits: | 64-126 |

Analysis Name: 22b Terphenyls by 8015B
Batch number: 121000024A

| | n-Triacontane-d62 |
|---|---|
| 6607520 | 146* |
| 6607521 | 106* |
| Blank | 233* |
| LCS | 237* |
| LCSD | 141* |
| Limits: | 46-100 |

Analysis Name: 22a Terphenyls by 8015B
Batch number: 121020023A

| | n-Triacontane-d62 |
|---|---|
| 6607516 | 115 |
| 6607517 | 232* |
| 6607518 | 107 |
| 6607519 | 110 |
| Blank | 102 |
| LCS | 105 |
| MS | 139 |
| MSD | 164* |
| Limits: | 19-152 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Acct#13013 Ap#1300395 Sample#6607516-21

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMA ONDARY ANAL | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C.<br>Samplers Signatures: | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-032-NBZ-SS-0.0-0.5 | 4.03.12 | 1400 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-035-NBZ-SS-0.0-0.5 | 4.03.12 | 1430 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-035-NBZ-SS-2.0-3.0 | 4.03.12 | 1440 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-115-NBZ-SS-0.0-0.5 | 4.03.12 | 1432 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-140-NBZ-SS-0.0-0.5 | 4.03.12 | 1406 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-198-NBZ-SS-0.0-0.5 | 4.03.12 | 1526 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-020-NBZ-SS-0.0-0.5 | 4.04.12 | 1440 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-020-NBZ-SB-2.5-3.5 | 4.04.12 | 1340 | SOIL | NONE | 1-4oz Jar | X | | | | |
| SL-097-NBZ-SS-0.0-0.5 | 4.04.12 | 0914 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-099-NBZ-SS-0.0-0.5 | 4.04.12 | 1041 | SOIL | NONE | 1-4oz Jar | X | | | | |
| SL-100-NBZ-SS-0.0-0.5 | 4.04.12 | 951 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-104-NBZ-SS-0.0-0.5 | 4.04.12 | 1040 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-110-NBZ-SS-0.0-0.5 | 4.04.12 | 0900 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-114-NBZ-SS-0.0-0.5 | 4.04.12 | 0925 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-120-NBZ-SS-0.0-0.5 | 4.04.12 | 1105 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| EB-NBZ-SB-040412 | 4.04.12 | 1430 | WATER | NONE | 4-1 L Ambers | X | | X | X | |
| EB-NBZ-SB-040412 | 4.04.12 | 1430 | WATER | NONE | 1-250 mL glass | | X | | | |
| EB-NBZ-SS-040412 | 4.04.12 | 1545 | WATER | NONE | 4-1 L Ambers | X | | X | X | |
| EB-NBZ-SS-040412 | 4.04.12 | 1545 | WATER | NONE | 1-250 mL glass | | X | | | |
| Relinquished by: (*Signature*) | Date/Time<br>4/04/2012 / 1630 | | Received for Laboratory by: (*Signature*)<br>~~2516~~ LI 4/5/12 0905 | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s) | | | | | | | |

## Tamara J. Helsel

**From:** Nicole Maljovec
**Sent:** Thursday, April 05, 2012 2:46 PM
**To:** Tamara J. Helsel
**Subject:** FW: SSFL COC 4/4: SL-020-SS & SB Samples

FYI :)

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Thursday, April 05, 2012 2:44 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 4/4: SL-020-SS & SB Samples

Nicole

yes, we do have SL-20 and the SL-020-NBZ-SB-2.5-3.5 is for all four analyses!

thank you!

Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

---

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Thursday, April 05, 2012 9:21 AM
To: Hartman, Pamela
Subject: SSFL COC 4/4: SL-020-SS & SB Samples

Hi Pam,
We received the samples you sent last night, except for SL-020-NBZ-SS-0.0-0.5. Do you have this sample?

We did receive a 16 oz jar for SL-020-NBZ-SB-2.5-3.5, but only dioxins are checked off for this test. Can you confirm the analyses for
SL-020-SB-2.5-3.5 and let me know if we should only analyze for dioxins?

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Wednesday, April 04, 2012 7:35 PM
To: Nicole Maljovec; SA Env Entry
Subject: SSLF COC 4/4/12

Nicole

We shipped two coolers today.

Thanks!

Pam

Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# DE306

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 16, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/04/2012
Group Number: 1299986
SDG: DE306
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-025-NBZ-SS-0.0-0.5 Soil | 6605174 |
| SL-026-NBZ-SS-0.0-0.5 Soil | 6605175 |
| SL-027-NBZ-SS-0.0-0.5 Soil | 6605176 |
| SL-028-NBZ-SS-0.0-0.5 Soil | 6605177 |
| SL-031-NBZ-SS-0.0-0.5 Soil | 6605178 |
| SL-033-NBZ-SS-0.0-0.5 Soil | 6605179 |
| SL-034-NBZ-SS-0.0-0.5 Soil | 6605180 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| 1 COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-025-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-NBZ-SS

**LLI Sample # SW 6605174**
**LLI Group # 1299986**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 10:05

Submitted: 04/04/2012 09:30
Reported: 04/16/2012 13:50

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0601 SDG#: DE306-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 182 | U | 182 | 364 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 660 | U | 660 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.8 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.5 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12096SLF026 | 04/10/2012 23:55 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12096SLF026 | 04/06/2012 14:00 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121000005A | 04/11/2012 19:27 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121000005A | 04/09/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120960004A | 04/06/2012 16:48 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120960004A | 04/05/2012 16:15 | JoElla L Rice | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401B | 04/05/2012 18:33 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-026-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-NBZ-SS

**LLI Sample # SW 6605175**
**LLI Group # 1299986**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 12:50

Submitted: 04/04/2012 09:30
Reported: 04/16/2012 13:50

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0602 SDG#: DE306-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 18.0 | U | 18.0 | 36.0 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 650 | U | 650 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.8 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.4 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12096SLF026 | 04/11/2012 00:14 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12096SLF026 | 04/06/2012 14:00 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121000005A | 04/11/2012 20:05 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121000005A | 04/09/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120960004A | 04/06/2012 13:49 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120960004A | 04/05/2012 16:15 | JoElla L Rice | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401B | 04/05/2012 18:33 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-027-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-NBZ-SS

**LLI Sample # SW 6605176**
**LLI Group # 1299986**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 10:05

Submitted: 04/04/2012 09:30
Reported: 04/16/2012 13:50

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0603 SDG#: DE306-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 195 | U | 195 | 389 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 700 | U | 700 | 1,800 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.8 | U | 1.8 | 4.1 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.8 | U | 1.8 | 4.1 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.8 | U | 1.8 | 4.1 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 14.3 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12096SLF026 | 04/11/2012 00:33 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12096SLF026 | 04/06/2012 14:00 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121000005A | 04/11/2012 20:15 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121000005A | 04/09/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120960004A | 04/06/2012 14:11 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120960004A | 04/05/2012 16:15 | JoElla L Rice | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401B | 04/05/2012 18:33 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-028-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-NBZ-SS

**LLI Sample # SW 6605177**
**LLI Group # 1299986**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 09:10

Submitted: 04/04/2012 09:30
Reported: 04/16/2012 13:50

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0604 SDG#: DE306-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 79.4 | | 18.4 | 36.8 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 660 | U | 660 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 3.9 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 9.4 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12096SLF026 | 04/11/2012 00:52 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12096SLF026 | 04/06/2012 14:00 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121000005A | 04/11/2012 20:24 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121000005A | 04/09/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120960004A | 04/06/2012 14:34 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120960004A | 04/05/2012 16:15 | JoElla L Rice | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401B | 04/05/2012 18:33 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-031-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-NBZ-SS

**LLI Sample # SW 6605178**
**LLI Group # 1299986**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 09:30

Submitted: 04/04/2012 09:30
Reported: 04/16/2012 13:50

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0605 SDG#: DE306-05

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 18.1 | U | 18.1 | 36.2 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 650 | U | 650 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.8 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.8 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12096SLF026 | 04/11/2012 01:11 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12096SLF026 | 04/06/2012 14:00 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121000005A | 04/11/2012 20:34 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121000005A | 04/09/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120960004A | 04/06/2012 14:56 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120960004A | 04/05/2012 16:15 | JoElla L Rice | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401B | 04/05/2012 18:33 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-033-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-NBZ-SS

**LLI Sample # SW 6605179**
**LLI Group # 1299986**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 10:30

Submitted: 04/04/2012 09:30
Reported: 04/16/2012 13:50

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0606 SDG#: DE306-06

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 182 | U | 182 | 365 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 660 | U | 660 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.8 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.8 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.6 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12096SLF026 | 04/11/2012 01:30 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12096SLF026 | 04/06/2012 14:00 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121000005A | 04/11/2012 20:44 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121000005A | 04/09/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120960004A | 04/06/2012 15:18 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120960004A | 04/05/2012 16:15 | JoElla L Rice | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401B | 04/05/2012 18:33 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-034-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-NBZ-SS

**LLI Sample # SW 6605180**
**LLI Group # 1299986**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 11:22

Submitted: 04/04/2012 09:30
Reported: 04/16/2012 13:50

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0607 SDG#: DE306-07*

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 199 | U | 199 | 398 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 720 | U | 720 | 1,800 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.8 | U | 1.8 | 4.2 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.8 | U | 1.8 | 4.2 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.8 | U | 1.8 | 4.2 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 16.2 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12096SLF026 | 04/11/2012 01:48 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12096SLF026 | 04/06/2012 14:00 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121000005A | 04/11/2012 20:53 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121000005A | 04/09/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 120960004A | 04/06/2012 15:41 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 120960004A | 04/05/2012 16:15 | JoElla L Rice | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401B | 04/05/2012 18:33 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299986
Reported: 04/16/12 at 01:50 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12096SLF026 | Sample number(s): 6605174-6605180 | | | | | | | | |
| N-Nitrosodimethylamine | 16.7 U | 16.7 | 33.3 | ng/kg | 106 | | 70-130 | | |
| Batch number: 121000005A | Sample number(s): 6605174-6605180 | | | | | | | | |
| 20a Formaldehyde 8315A | 600 U | 600. | 1,500 | ug/kg | 94 | | 80-126 | | |
| Batch number: 120960004A | Sample number(s): 6605174-6605180 | | | | | | | | |
| m-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 110 | | 64-111 | | |
| o-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 102 | | 75-125 | | |
| p-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 109 | | 69-109 | | |
| Batch number: 12096162401B | Sample number(s): 6605174-6605180 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12096SLF026 | Sample number(s): 6605174-6605180 UNSPK: P599848 | | | | | | | | |
| N-Nitrosodimethylamine | 88 | 93 | 70-130 | 5 | 30 | | | | |
| Batch number: 121000005A | Sample number(s): 6605174-6605180 UNSPK: 6605174 | | | | | | | | |
| 20a Formaldehyde 8315A | 94 | 101 | 80-120 | 7 | 50 | | | | |
| Batch number: 120960004A | Sample number(s): 6605174-6605180 UNSPK: P599848 | | | | | | | | |
| m-Terphenyl | 102 | 103 | 75-125 | 0 | 20 | | | | |
| o-Terphenyl | 94 | 94 | 75-125 | 1 | 20 | | | | |
| p-Terphenyl | 103 | 103 | 75-125 | 0 | 20 | | | | |
| Batch number: 12096162401B | Sample number(s): 6605174-6605180 BKG: 6605177 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 9.4 | 9.5 | 0 | 20 |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299986
Reported: 04/16/12 at 01:50 PM

## Surrogate Quality Control

Analysis Name: 21a NDMA by 1625C
Batch number: 12096SLF026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6605174 | 101 |
| 6605175 | 54 |
| 6605176 | 115 |
| 6605177 | 72 |
| 6605178 | 81 |
| 6605179 | 110 |
| 6605180 | 109 |
| Blank | 84 |
| LCS | 87 |
| MS | 82 |
| MSD | 90 |
| Limits: | 50-150 |

Analysis Name: 20a Formaldehyde 8315A
Batch number: 121000005A

| | Butyraldehyde |
|---|---|
| 6605174 | 110 |
| 6605175 | 110 |
| 6605176 | 108 |
| 6605177 | 106 |
| 6605178 | 105 |
| 6605179 | 108 |
| 6605180 | 109 |
| Blank | 110 |
| LCS | 97 |
| MS | 110 |
| MSD | 110 |
| Limits: | 64-126 |

Analysis Name: 22a Terphenyls by 8015B
Batch number: 120960004A

| | n-Triacontane-d62 |
|---|---|
| 6605174 | 81 |
| 6605175 | 72 |
| 6605176 | 92 |
| 6605177 | 75 |
| 6605178 | 73 |
| 6605179 | 116 |
| 6605180 | 75 |
| Blank | 72 |
| LCS | 70 |
| MS | 69 |
| MSD | 70 |
| Limits: | 19-152 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299986
Reported: 04/16/12 at 01:50 PM

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1299986 Sample# 6605174-80

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSES | SECONDARY ANALYSES | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C.<br>Samplers Signatures: | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-025-NBZ-SS-0.0-0.5 | 4.02.12 | 1005 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-026-NBZ-SS-0.0-0.5 | 4.02.12 | 1250 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-027-NBZ-SS-0.0-0.5 | 4.02.12 | 1005 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-028-NBZ-SS-0.0-0.5 | 4.02.12 | 0910 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-107-NBZ-SS-0.0-0.5 | 4.02.12 | 1358 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-111-NBZ-SS-0.0-0.5 | 4.02.12 | 1393 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-112-NBZ-SS-0.0-0.5 | 4.02.12 | 1040 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-113-NBZ-SS-0.0-0.5 | 4.02.12 | 0929 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-138-NBZ-SS-0.0-0.5 | 4.02.12 | 1011 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-194-NBZ-SS-0.0-0.5 | 4.02.12 | 1440 | SOIL | NONE | 1-16 oz Jar | X | | | | |
| SL-031-NBZ-SS-0.0-0.5 | 4.03.12 | 0930 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-033-NBZ-SS-0.0-0.5 | 4.03.12 | 1030 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-034-NBZ-SS-0.0-0.5 | 4.03.12 | 1122 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-108-NBZ-SS-0.0-0.5 | 4.03.12 | 0945 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-122-NBZ-SS-0.0-0.5 | 4.03.12 | 1103 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-127-NBZ-SS-0.0-0.5 | 4.03.12 | 1010 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-169-NBZ-SS-0.0-0.5 | 4.03.12 | 0911 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| Relinquished by: (*Signature*) | Date/Time<br>4/03/2012 / 1630 | | Received for Laboratory by: (*Signature*)<br>Brandy Bundy 4.4.12 930 | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s)<br>7982 4521 9334 | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 18, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/05/2012
Group Number: 1300395
SDG: DE306
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-032-NBZ-SS-0.0-0.5 Soil | 6607516 |
| SL-035-NBZ-SS-0.0-0.5 Soil | 6607517 |
| SL-035-NBZ-SB-2.0-3.0 Soil | 6607518 |
| SL-020-NBZ-SB-2.5-3.5 Soil | 6607519 |
| EB-NBZ-SB-040412 Water | 6607520 |
| EB-NBZ-SS-040412 Water | 6607521 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| 1 COPY TO | Data Package Group | |

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Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-032-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-NBZ-SS

**LLI Sample # SW 6607516**
**LLI Group # 1300395**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:00

Submitted: 04/05/2012 09:05
Reported: 04/18/2012 13:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

06-01 SDG#: DE306-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 189 | U | 189 | 378 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 680 | U | 680 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 4.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.7 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12101SLD026 | 04/12/2012 13:52 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12101SLD026 | 04/11/2012 03:30 | David V Hershey Jr | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121000005A | 04/11/2012 21:03 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121000005A | 04/09/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121020023A | 04/16/2012 20:11 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121020023A | 04/12/2012 03:00 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-035-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-NBZ-SS

**LLI Sample # SW 6607517**
**LLI Group # 1300395**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:30

Submitted: 04/05/2012 09:05
Reported: 04/18/2012 13:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

06-02 SDG#: DE306-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 188 | U | 188 | 377 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 680 | U | 680 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 4.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.5 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12101SLD026 | 04/12/2012 14:11 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12101SLD026 | 04/11/2012 03:30 | David V Hershey Jr | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121000005A | 04/11/2012 21:12 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121000005A | 04/09/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121020023A | 04/16/2012 20:33 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121020023A | 04/12/2012 03:00 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-035-NBZ-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-NBZ-SB

**LLI Sample # SW 6607518**
**LLI Group # 1300395**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:40

Submitted: 04/05/2012 09:05
Reported: 04/18/2012 13:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

06-03 SDG#: DE306-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 17.3 | U | 17.3 | 34.7 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 630 | U | 630 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 4.2 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12101SLD026 | 04/12/2012 14:30 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12101SLD026 | 04/11/2012 03:30 | David V Hershey Jr | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121000005A | 04/11/2012 21:22 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121000005A | 04/09/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121020023A | 04/16/2012 19:49 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121020023A | 04/12/2012 03:00 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-020-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-NBZ-SB

**LLI Sample # SW 6607519**
**LLI Group # 1300395**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 13:40

Submitted: 04/05/2012 09:05
Reported: 04/18/2012 13:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

06-04 SDG#: DE306-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 185 | U | 185 | 371 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 670 | U | 670 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 3.9 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.0 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12101SLD026 | 04/12/2012 15:26 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12101SLD026 | 04/11/2012 03:30 | David V Hershey Jr | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121000005A | 04/11/2012 21:31 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121000005A | 04/09/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121020023A | 04/16/2012 18:20 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121020023A | 04/12/2012 03:00 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** EB-NBZ-SB-040412 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SB

**LLI Sample # WW 6607520**
**LLI Group # 1300395**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 14:30

Submitted: 04/05/2012 09:05
Reported: 04/18/2012 13:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

06-05 SDG#: DE306-05EB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/l** | **ng/l** | **ng/l** | |
| 10962 | N-Nitrosodimethylamine | 62-75-9 | 0.477 U | 0.477 | 0.954 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/l** | **ug/l** | **ug/l** | |
| 04144 | 20b Formaldehyde 8315A | 50-00-0 | 10 U | 10 | 50 | 1 |
| | The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and surrogate recoveries are within the QC acceptance limits. Since the hold time had expired prior to the second extraction all results are reported from the original extract. Similar results were obtained in both extracts. | | | | | |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/l** | **mg/l** | **mg/l** | |
| 10319 | m-Terphenyl | 92-06-8 | 0.076 U | 0.076 | 0.24 | 1 |
| 10319 | o-Terphenyl | 84-15-1 | 0.076 U | 0.076 | 0.24 | 1 |
| 10319 | p-Terphenyl | 92-94-4 | 0.076 U | 0.076 | 0.24 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10962 | 21b NDMA by 1625C | EPA 1625C | 1 | 12098WAH026 | 04/11/2012 02:26 | Matthew S Woods | 1 |
| 11629 | NDMA Liquid/Liquid Extraction | SW-846 3520C | 1 | 12098WAH026 | 04/09/2012 01:00 | David V Hershey Jr | 1 |
| 04144 | 20b Formaldehyde 8315A | SW-846 8315A | 1 | 120980001A | 04/09/2012 18:29 | James H Place | 1 |
| 01013 | Formaldehyde Extraction | SW-846 8315A | 1 | 120980001A | 04/07/2012 08:15 | Joseph S Feister | 1 |
| 10319 | 22b Terphenyls by 8015B | SW-846 8015B | 1 | 121000024A | 04/16/2012 16:28 | Robert Brown | 1 |
| 10304 | Terphenyls water prep | SW-846 3510C | 1 | 121000024A | 04/10/2012 11:00 | Olivia Arosemena | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** EB-NBZ-SS-040412 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SS

**LLI Sample # WW 6607521**
**LLI Group # 1300395**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 15:45

Submitted: 04/05/2012 09:05
Reported: 04/18/2012 13:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

06-06 SDG#: DE306-06EB*

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/l** | | **ng/l** | **ng/l** | |
| 10962 | N-Nitrosodimethylamine | 62-75-9 | 0.476 | U | 0.476 | 0.951 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/l** | | **ug/l** | **ug/l** | |
| 04144 | 20b Formaldehyde 8315A | 50-00-0 | 10 | U | 10 | 50 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/l** | | **mg/l** | **mg/l** | |
| 10319 | m-Terphenyl | 92-06-8 | 0.076 | U | 0.076 | 0.24 | 1 |
| 10319 | o-Terphenyl | 84-15-1 | 0.076 | U | 0.076 | 0.24 | 1 |
| 10319 | p-Terphenyl | 92-94-4 | 0.076 | U | 0.076 | 0.24 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10962 | 21b NDMA by 1625C | EPA 1625C | 1 | 12098WAH026 | 04/11/2012 02:45 | Matthew S Woods | 1 |
| 11629 | NDMA Liquid/Liquid Extraction | SW-846 3520C | 1 | 12098WAH026 | 04/09/2012 01:00 | David V Hershey Jr | 1 |
| 04144 | 20b Formaldehyde 8315A | SW-846 8315A | 1 | 120980001A | 04/09/2012 18:39 | James H Place | 1 |
| 01013 | Formaldehyde Extraction | SW-846 8315A | 1 | 120980001A | 04/07/2012 08:15 | Joseph S Feister | 1 |
| 10319 | 22b Terphenyls by 8015B | SW-846 8015B | 1 | 121000024A | 04/16/2012 16:51 | Robert Brown | 1 |
| 10304 | Terphenyls water prep | SW-846 3510C | 1 | 121000024A | 04/10/2012 11:00 | Olivia Arosemena | 1 |

*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300395
Reported: 04/18/12 at 01:59 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12098WAH026 | Sample number(s): 6607520-6607521 | | | | | | | | | |
| N-Nitrosodimethylamine | 0.500 | U | 0.500 | 1.00 | ng/l | 99 | 95 | 70-130 | 4 | 30 |
| Batch number: 12101SLD026 | Sample number(s): 6607516-6607519 | | | | | | | | | |
| N-Nitrosodimethylamine | 16.7 | U | 16.7 | 33.3 | ng/kg | 109 | | 70-130 | | |
| Batch number: 120980001A | Sample number(s): 6607520-6607521 | | | | | | | | | |
| 20b Formaldehyde 8315A | 10 | U | 10. | 50 | ug/l | 100 | 92 | 69-130 | 8 | 30 |
| Batch number: 121000005A | Sample number(s): 6607516-6607519 | | | | | | | | | |
| 20a Formaldehyde 8315A | 600 U | | 600. | 1,500 | ug/kg | 94 | | 80-126 | | |
| Batch number: 121000024A | Sample number(s): 6607520-6607521 | | | | | | | | | |
| m-Terphenyl | 0.080 | U | 0.080 | 0.25 | mg/l | 92 | 94 | 61-108 | 2 | 20 |
| o-Terphenyl | 0.080 | U | 0.080 | 0.25 | mg/l | 92 | 92 | 75-125 | 0 | 20 |
| p-Terphenyl | 0.080 | U | 0.080 | 0.25 | mg/l | 90 | 92 | 63-110 | 2 | 20 |
| Batch number: 121020023A | Sample number(s): 6607516-6607519 | | | | | | | | | |
| m-Terphenyl | 1.5 | U | 1.5 | 3.5 | mg/kg | 91 | | 64-111 | | |
| o-Terphenyl | 1.5 | U | 1.5 | 3.5 | mg/kg | 91 | | 75-125 | | |
| p-Terphenyl | 1.5 | U | 1.5 | 3.5 | mg/kg | 91 | | 69-109 | | |
| Batch number: 12102162401A | Sample number(s): 6607516-6607519 | | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 100 | | 80-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12101SLD026 | Sample number(s): 6607516-6607519 UNSPK: 6607518 | | | | | | | | |
| N-Nitrosodimethylamine | 114 | 113 | 70-130 | 1 | 30 | | | | |
| Batch number: 121000005A | Sample number(s): 6607516-6607519 UNSPK: P605174 | | | | | | | | |
| 20a Formaldehyde 8315A | 94 | 101 | 80-120 | 7 | 50 | | | | |
| Batch number: 121020023A | Sample number(s): 6607516-6607519 UNSPK: P612343 | | | | | | | | |
| m-Terphenyl | 99 | 96 | 75-125 | 3 | 20 | | | | |
| o-Terphenyl | 92 | 90 | 75-125 | 3 | 20 | | | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300395
Reported: 04/18/12 at 01:59 PM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| p-Terphenyl | 97 | 96 | 75-125 | 2 | 20 | | | | |
| Batch number: 12102162401A | Sample number(s): 6607516-6607519 | | | | | BKG: P600775 | | | |
| Moisture Content by 160.3 | | | | | | 9.0 | 9.1 | 1 | 20 |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21b. NDMA in Water
Batch number: 12098WAH026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6607520 | 159* |
| 6607521 | 155* |
| Blank | 126 |
| LCS | 110 |
| LCSD | 112 |
| Limits: | 50-150 |

Analysis Name: 21a NDMA by 1625C
Batch number: 12101SLD026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6607516 | 93 |
| 6607517 | 95 |
| 6607518 | 81 |
| 6607519 | 100 |
| Blank | 69 |
| LCS | 60 |
| MS | 71 |
| MSD | 74 |
| Limits: | 50-150 |

Analysis Name: 20b Formaldehyde 8315A
Batch number: 120980001A

| | Butyraldehyde |
|---|---|
| 6607520 | 11* |
| 6607521 | 85 |
| Blank | 86 |
| LCS | 94 |
| LCSD | 84 |
| Limits: | 45-145 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300395
Reported: 04/18/12 at 01:59 PM

## Surrogate Quality Control

Analysis Name: 20a Formaldehyde 8315A
Batch number: 121000005A

| | Butyraldehyde |
|---|---|
| 6607516 | 108 |
| 6607517 | 106 |
| 6607518 | 89 |
| 6607519 | 100 |
| Blank | 110 |
| LCS | 97 |
| MS | 110 |
| MSD | 110 |
| Limits: | 64-126 |

Analysis Name: 22b Terphenyls by 8015B
Batch number: 121000024A

| | n-Triacontane-d62 |
|---|---|
| 6607520 | 146* |
| 6607521 | 106* |
| Blank | 233* |
| LCS | 237* |
| LCSD | 141* |
| Limits: | 46-100 |

Analysis Name: 22a Terphenyls by 8015B
Batch number: 121020023A

| | n-Triacontane-d62 |
|---|---|
| 6607516 | 115 |
| 6607517 | 232* |
| 6607518 | 107 |
| 6607519 | 110 |
| Blank | 102 |
| LCS | 105 |
| MS | 139 |
| MSD | 164* |
| Limits: | 19-152 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Acct#13013 Ap#1300395 Sample#6607516-21

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMA ONDARY ANAL | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C.<br>Samplers Signatures: | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-032-NBZ-SS-0.0-0.5 | 4.03.12 | 1400 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-035-NBZ-SS-0.0-0.5 | 4.03.12 | 1430 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-035-NBZ-SS-2.0-3.0 | 4.03.12 | 1440 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-115-NBZ-SS-0.0-0.5 | 4.03.12 | 1432 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-140-NBZ-SS-0.0-0.5 | 4.03.12 | 1406 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-198-NBZ-SS-0.0-0.5 | 4.03.12 | 1526 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-020-NBZ-SS-0.0-0.5 | 4.04.12 | 1440 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-020-NBZ-SB-2.5-3.5 | 4.04.12 | 1340 | SOIL | NONE | 1-4oz Jar | X | | | | |
| SL-097-NBZ-SS-0.0-0.5 | 4.04.12 | 0914 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-099-NBZ-SS-0.0-0.5 | 4.04.12 | 1041 | SOIL | NONE | 1-4oz Jar | X | | | | |
| SL-100-NBZ-SS-0.0-0.5 | 4.04.12 | 951 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-104-NBZ-SS-0.0-0.5 | 4.04.12 | 1040 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-110-NBZ-SS-0.0-0.5 | 4.04.12 | 0900 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-114-NBZ-SS-0.0-0.5 | 4.04.12 | 0925 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-120-NBZ-SS-0.0-0.5 | 4.04.12 | 1105 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| EB-NBZ-SB-040412 | 4.04.12 | 1430 | WATER | NONE | 4-1 L Ambers | X | | X | X | |
| EB-NBZ-SB-040412 | 4.04.12 | 1430 | WATER | NONE | 1-250 mL glass | | X | | | |
| EB-NBZ-SS-040412 | 4.04.12 | 1545 | WATER | NONE | 4-1 L Ambers | X | | X | X | |
| EB-NBZ-SS-040412 | 4.04.12 | 1545 | WATER | NONE | 1-250 mL glass | | X | | | |
| Relinquished by: (*Signature*) | Date/Time<br>4/04/2012 / 1630 | | Received for Laboratory by: (*Signature*)<br>~~2516~~ LI 4/5/12 0905 | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s) | | | | | | | |

## Tamara J. Helsel

**From:** Nicole Maljovec
**Sent:** Thursday, April 05, 2012 2:46 PM
**To:** Tamara J. Helsel
**Subject:** FW: SSFL COC 4/4: SL-020-SS & SB Samples

FYI :)

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Thursday, April 05, 2012 2:44 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 4/4: SL-020-SS & SB Samples

Nicole

yes, we do have SL-20 and the SL-020-NBZ-SB-2.5-3.5 is for all four analyses!

thank you!

Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

---

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Thursday, April 05, 2012 9:21 AM
To: Hartman, Pamela
Subject: SSFL COC 4/4: SL-020-SS & SB Samples

Hi Pam,
We received the samples you sent last night, except for SL-020-NBZ-SS-0.0-0.5. Do you have this sample?

We did receive a 16 oz jar for SL-020-NBZ-SB-2.5-3.5, but only dioxins are checked off for this test. Can you confirm the analyses for
SL-020-SB-2.5-3.5 and let me know if we should only analyze for dioxins?

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Wednesday, April 04, 2012 7:35 PM
To: Nicole Maljovec; SA Env Entry
Subject: SSLF COC 4/4/12

Nicole

We shipped two coolers today.

Thanks!

Pam

Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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# SAMPLE DELIVERY GROUP

# DE307

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 18, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/06/2012
Group Number: 1300638
SDG: DE307
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-020-NBZ-SS-0.0-0.5 Soil | 6608611 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| 1 COPY TO | Data Package Group | |

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report

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# Analysis Report



**Sample Description:** SL-020-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-NBZ-SS

**LLI Sample # SW 6608611**
**LLI Group # 1300638**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 14:40

Submitted: 04/06/2012 09:05
Reported: 04/18/2012 13:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0701 SDG#: DE307-01*

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 18.7 | U | 18.7 | 37.4 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 680 | U | 680 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 4.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.4 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12101SLD026 | 04/12/2012 15:45 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12101SLD026 | 04/11/2012 03:30 | David V Hershey Jr | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121000005A | 04/11/2012 21:50 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121000005A | 04/09/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121020023A | 04/16/2012 18:42 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121020023A | 04/12/2012 03:00 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401B | 04/11/2012 11:50 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300638
Reported: 04/18/12 at 01:58 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12101SLD026 | Sample number(s): 6608611 | | | | | | | | |
| N-Nitrosodimethylamine | 16.7 U | 16.7 | 33.3 | ng/kg | 109 | | 70-130 | | |
| Batch number: 121000005A | Sample number(s): 6608611 | | | | | | | | |
| 20a Formaldehyde 8315A | 600 U | 600. | 1,500 | ug/kg | 94 | | 80-126 | | |
| Batch number: 121020023A | Sample number(s): 6608611 | | | | | | | | |
| m-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 91 | | 64-111 | | |
| o-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 91 | | 75-125 | | |
| p-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 91 | | 69-109 | | |
| Batch number: 12102162401B | Sample number(s): 6608611 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12101SLD026 | Sample number(s): 6608611 UNSPK: P607518 | | | | | | | | |
| N-Nitrosodimethylamine | 114 | 113 | 70-130 | 1 | 30 | | | | |
| Batch number: 121000005A | Sample number(s): 6608611 UNSPK: P605174 | | | | | | | | |
| 20a Formaldehyde 8315A | 94 | 101 | 80-120 | 7 | 50 | | | | |
| Batch number: 121020023A | Sample number(s): 6608611 UNSPK: P612343 | | | | | | | | |
| m-Terphenyl | 99 | 96 | 75-125 | 3 | 20 | | | | |
| o-Terphenyl | 92 | 90 | 75-125 | 3 | 20 | | | | |
| p-Terphenyl | 97 | 96 | 75-125 | 2 | 20 | | | | |
| Batch number: 12102162401B | Sample number(s): 6608611 BKG: P608539 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 8.7 | 8.6 | 2 | 20 |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300638
Reported: 04/18/12 at 01:58 PM

## Surrogate Quality Control

Analysis Name: 21a NDMA by 1625C
Batch number: 12101SLD026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6608611 | 93 |
| Blank | 69 |
| LCS | 60 |
| MS | 71 |
| MSD | 74 |
| Limits: | 50-150 |

Analysis Name: 20a Formaldehyde 8315A
Batch number: 121000005A

| | Butyraldehyde |
|---|---|
| 6608611 | 84 |
| Blank | 110 |
| LCS | 97 |
| MS | 110 |
| MSD | 110 |
| Limits: | 64-126 |

Analysis Name: 22a Terphenyls by 8015B
Batch number: 121020023A

| | n-Triacontane-d62 |
|---|---|
| 6608611 | 109 |
| Blank | 102 |
| LCS | 105 |
| MS | 139 |
| MSD | 164* |
| Limits: | 19-152 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Ap# 1300633 Sample# 6603611

# CHAIN OF CUSTODY RECORD

**CDM** | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | PRIMARY ANALYSES *Dioxin/Furan EPA 1613B | SECONDARY ANALYSES **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| SL-020-NBZ-SS-0.0-0.5 | | 14:40 | | | | | | | | |
| ~~SL-020-NBZ-SB-2.5-3.5~~ | 4.04.12 | ~~1340~~ | SOIL | NONE | 1-16 oz Jar | X | X | X | X | PID = 120 ppm |
| SL-155-NBZ-SS-0.0-0.5 | 4.04.12 | 1455 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-181-NBZ-SS-0.0-0.5 | 4.04.12 | 1422 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-187-NBZ-SS-0.0-0.5 | 4.04.12 | 1349 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-149-NBZ-SS-0.0-0.5 | 4.05.12 | 1040 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-165-NBZ-SS-0.0-0.5 | 4.05.12 | 1120 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-175-NBZ-SS-0.0-0.5 | 4.05.12 | 955 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-190-NBZ-SS-0.0-0.5 | 4.05.12 | 925 | SOIL | NONE | 1-4 oz Jar | X | | | | |

| | | | |
|---|---|---|---|
| Relinquished by: (*Signature*) | Date/Time 4/05/2012 / 1630 | Received for Laboratory by: (*Signature*) | Laboratory: Lancaster Laboratories, Inc. |
| Received by: (*Signature*) Brandy Bundy | Date/Time 4-6-12 905 | Airbill No.(s) | |

Sample SL-020 was updated per PH. NLH 4/9/12

**Nicole Maljovec**

**From:** Nicole Maljovec
**Sent:** Friday, April 06, 2012 1:33 PM
**To:** 'Hartman, Pamela'
**Subject:** RE: SSFL COC 4/4: SL-020-SS & SB Samples

Sure, I'll call the entry person right now. Thanks!

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Friday, April 06, 2012 1:32 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 4/4: SL-020-SS & SB Samples

Ugh! Sorry!

It is actually the surface sample, but was mislabeled. We just figured this out. The two sample were stored in two different coolers so I am confident it is the surface sample.

Can you rename it as SL-020-NBZ-SS-0.0-0.5 and analyze it for all four parameters?

Thanks

Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Friday, April 06, 2012 10:21 AM
To: Hartman, Pamela
Subject: RE: SSFL COC 4/4: SL-020-SS & SB Samples

Hi Pam,
We received SL-020-NBZ-SB-2.5-3.5 again, but not SL-20-NBZ-SS-0.0-0.5.
I'm assuming that we shouldn't analyze the duplicate. Can you check and let me know?

I have the sample on hold and we have plenty of holding time, so this can wait until Monday.

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Thursday, April 05, 2012 2:44 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 4/4: SL-020-SS & SB Samples

Nicole

yes, we do have SL-20 and the SL-020-NBZ-SB-2.5-3.5 is for all four analyses!

thank you!

Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]

Sent: Thursday, April 05, 2012 9:21 AM
To: Hartman, Pamela
Subject: SSFL COC 4/4: SL-020-SS & SB Samples

Hi Pam,
We received the samples you sent last night, except for SL-020-NBZ-SS-0.0-0.5. Do you have this sample?

We did receive a 16 oz jar for SL-020-NBZ-SB-2.5-3.5, but only dioxins are checked off for this test. Can you confirm the analyses for
SL-020-SB-2.5-3.5 and let me know if we should only analyze for dioxins?

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Wednesday, April 04, 2012 7:35 PM
To: Nicole Maljovec; SA Env Entry
Subject: SSLF COC 4/4/12

Nicole

We shipped two coolers today.

Thanks!

Pam

Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# DE308

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

May 01, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/11/2012
Group Number: 1301392
SDG: DE308
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-001-NBZ-SS-0.0-0.5 Soil | 6612342 |
| SL-009-NBZ-SS-0.0-0.5 Soil | 6612343 |
| SL-009-NBZ-SS-0.0-0.5 MS Soil | 6612344 |
| SL-009-NBZ-SS-0.0-0.5 MSD Soil | 6612345 |
| SL-009-NBZ-SS-0.0-0.5 RL MS Soil | 6612346 |
| SL-009-NBZ-SS-0.0-0.5 RL LCS Soil | 6612347 |
| DUP-07-NBZ-QC-041012 Soil | 6612348 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| 1 COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-001-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-NBZ-SS

**LLI Sample # SW 6612342**
**LLI Group # 1301392**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 09:36

Submitted: 04/11/2012 09:10
Reported: 05/01/2012 10:34

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0801 SDG#: DE308-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 18.8 | U | 18.8 | 37.5 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 680 | U | 680 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 3.9 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.2 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12107SLA026 | 04/17/2012 11:22 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12107SLA026 | 04/16/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121070003A | 04/17/2012 22:04 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121070003A | 04/16/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121020023A | 04/16/2012 19:26 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121020023A | 04/12/2012 03:00 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401A | 04/18/2012 11:49 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-009-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-NBZ-SS

**LLI Sample # SW 6612343**
**LLI Group # 1301392**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:30

Submitted: 04/11/2012 09:10
Reported: 05/01/2012 10:34

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0802 SDG#: DE308-02BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 190 | U | 190 | 380 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 680 | U | 680 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 4.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 12.2 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12107SLA026 | 04/17/2012 11:41 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12107SLA026 | 04/16/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121070003A | 04/17/2012 22:14 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121070003A | 04/16/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121020023A | 04/16/2012 23:31 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121020023A | 04/12/2012 03:00 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401A | 04/18/2012 11:49 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-009-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-009-NBZ-SS

**LLI Sample # SW 6612344**
**LLI Group # 1301392**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:30

Submitted: 04/11/2012 09:10
Reported: 05/01/2012 10:34

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0802 SDG#: DE308-02MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 879 | 190 | 380 | 10 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 5,600 | 680 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 9.2 | 1.7 | 4.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 8.8 | 1.7 | 4.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 9.4 | 1.7 | 4.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | **%** | **%** | |
| 11625 | Moisture Content by 160.3 | n.a. | 12.2 | 0.50 | 0.50 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12107SLA026 | 04/17/2012 12:00 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12107SLA026 | 04/16/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121070003A | 04/17/2012 22:23 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121070003A | 04/16/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121020023A | 04/17/2012 00:15 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121020023A | 04/12/2012 03:00 | Sherry L Morrow | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401A | 04/18/2012 11:49 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-009-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-009-NBZ-SS

**LLI Sample # SW 6612345**
**LLI Group # 1301392**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:30

Submitted: 04/11/2012 09:10
Reported: 05/01/2012 10:34

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0802 SDG#: DE308-02MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 942 | 190 | 380 | 10 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 5,400 | 680 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 8.9 | 1.7 | 4.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 8.5 | 1.7 | 4.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 9.2 | 1.7 | 4.0 | 1 |
| | The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. | | | | | |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | **%** | **%** | |
| 11626 | 28a Moisture Content by 160.3 | n.a. | 12.0 | 0.50 | 0.50 | 1 |
| | The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations. | | | | | |
| 11625 | Moisture Content by 160.3 | n.a. | 12.2 | 0.50 | 0.50 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12107SLA026 | 04/17/2012 12:19 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12107SLA026 | 04/16/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121070003A | 04/17/2012 22:33 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121070003A | 04/16/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121020023A | 04/17/2012 00:59 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121020023A | 04/12/2012 03:00 | Sherry L Morrow | 1 |
| 11626 | 28a Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401A | 04/18/2012 11:49 | William C Schwebel | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401A | 04/18/2012 11:49 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-009-NBZ-SS-0.0-0.5 RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-009-NBZ-SS

**LLI Sample # SW 6612346**
**LLI Group # 1301392**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:30

Submitted: 04/11/2012 09:10
Reported: 05/01/2012 10:34

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0802 SDG#: DE308-02RLR

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 2,000 | | 680 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.8 | J | 1.7 | 4.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | J | 1.7 | 4.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | J | 1.7 | 4.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11625 | Moisture Content by 160.3 | n.a. | 12.2 | | 0.50 | 0.50 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121070003A | 04/17/2012 22:52 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121070003A | 04/16/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121020023A | 04/16/2012 22:24 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121020023A | 04/12/2012 03:00 | Sherry L Morrow | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401A | 04/18/2012 11:49 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-009-NBZ-SS-0.0-0.5 RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-009-NBZ-SS

**LLI Sample # SW 6612347**
**LLI Group # 1301392**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:30

Submitted: 04/11/2012 09:10
Reported: 05/01/2012 10:34

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0802 SDG#: DE308-02RLQ

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 1,800 | | 600 | 1,500 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.5 | J | 1.5 | 3.5 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | J | 1.5 | 3.5 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | J | 1.5 | 3.5 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121070003A | 04/17/2012 23:01 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121070003A | 04/16/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121020023A | 04/16/2012 17:57 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121020023A | 04/12/2012 03:00 | Sherry L Morrow | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** DUP-07-NBZ-QC-041012 Soil
SSFL Area IV Collocated Soil Sampling
DUP-07-NBZ

**LLI Sample # SW 6612348**
**LLI Group # 1301392**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:25

Submitted: 04/11/2012 09:10
Reported: 05/01/2012 10:34

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0803 SDG#: DE308-03FD*

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 191 | U | 191 | 382 | 10 |

Reporting limits were raised due to interference from the sample matrix.

The internal standard peak area of n-NDMA-d6 was outside of QC limits. The sample was re-extracted outside of the method required holding time, and n-NDMA-d6 was within QC limits. Comparable data was observed between the two extractions. The data reported here is from the initial extraction of the sample.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 690 | U | 690 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 4.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 12.8 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12107SLA026 | 04/17/2012 12:38 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12107SLA026 | 04/16/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121070003A | 04/17/2012 23:11 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121070003A | 04/16/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121020023A | 04/16/2012 21:18 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121020023A | 04/12/2012 03:00 | Sherry L Morrow | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401A | 04/18/2012 11:49 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1301392
Reported: 05/01/12 at 10:34 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12107SLA026 | Sample number(s): 6612342-6612345,6612348 | | | | | | | | | |
| N-Nitrosodimethylamine | 16.7 | U | 16.7 | 33.3 | ng/kg | 105 | | 70-130 | | |
| Batch number: 121070003A | Sample number(s): 6612342-6612348 | | | | | | | | | |
| 20a Formaldehyde 8315A | 600 U | | 600. | 1,500 | ug/kg | 97 | | 80-126 | | |
| Batch number: 121020023A | Sample number(s): 6612342-6612348 | | | | | | | | | |
| m-Terphenyl | 1.5 | U | 1.5 | 3.5 | mg/kg | 91 | | 64-111 | | |
| o-Terphenyl | 1.5 | U | 1.5 | 3.5 | mg/kg | 91 | | 75-125 | | |
| p-Terphenyl | 1.5 | U | 1.5 | 3.5 | mg/kg | 91 | | 69-109 | | |
| Batch number: 12109162401A | Sample number(s): 6612342-6612346,6612348 | | | | | | | | | |
| 28a Moisture Content by 160.3 | | | | | | 100 | | 80-120 | | |
| Moisture Content by 160.3 | | | | | | 100 | | 80-120 | | |
| Moisture Content by 160.3 | | | | | | 100 | | 80-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12107SLA026 | Sample number(s): 6612342-6612345,6612348 UNSPK: 6612343 | | | | | | | | |
| N-Nitrosodimethylamine | 93 | 99 | 70-130 | 7 | 30 | | | | |
| Batch number: 121070003A | Sample number(s): 6612342-6612348 UNSPK: 6612343 | | | | | | | | |
| 20a Formaldehyde 8315A | 98 | 94 | 80-120 | 4 | 50 | | | | |
| Batch number: 121020023A | Sample number(s): 6612342-6612348 UNSPK: 6612343 | | | | | | | | |
| m-Terphenyl | 99 | 96 | 75-125 | 3 | 20 | | | | |
| o-Terphenyl | 92 | 90 | 75-125 | 3 | 20 | | | | |
| p-Terphenyl | 97 | 96 | 75-125 | 2 | 20 | | | | |
| Batch number: 12109162401A | Sample number(s): 6612342-6612346,6612348 BKG: 6612343 | | | | | | | | |
| 28a Moisture Content by 160.3 | | | | | | 12.2 | 12.0 | 2 | 20 |
| Moisture Content by 160.3 | | | | | | 12.2 | 12.0 | 2 | 20 |
| Moisture Content by 160.3 | | | | | | 12.2 | 12.0 | 2 | 20 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1301392
Reported: 05/01/12 at 10:34 AM

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21a NDMA by 1625C
Batch number: 12107SLA026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6612342 | 62 |
| 6612343 | 1133* |
| 6612344 | 967* |
| 6612345 | 915* |
| 6612348 | 105 |
| Blank | 64 |
| LCS | 60 |
| MS | 967* |
| MSD | 915* |
| Limits: | 50-150 |

Analysis Name: 20a Formaldehyde 8315A
Batch number: 121070003A

| | Butyraldehyde |
|---|---|
| 6612342 | 101 |
| 6612343 | 99 |
| 6612344 | 98 |
| 6612345 | 97 |
| 6612346 | 100 |
| 6612347 | 100 |
| 6612348 | 97 |
| Blank | 104 |
| LCS | 95 |
| MS | 98 |
| MSD | 97 |
| Limits: | 64-126 |

Analysis Name: 22a Terphenyls by 8015B
Batch number: 121020023A

| | n-Triacontane-d62 |
|---|---|
| 6612342 | 150 |
| 6612343 | 139 |
| 6612344 | 139 |
| 6612345 | 164* |
| 6612346 | 144 |
| 6612347 | 105 |
| 6612348 | 209* |
| Blank | 102 |
| LCS | 105 |
| MS | 139 |
| MSD | 164* |
| Limits: | 19-152 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1301392
Reported: 05/01/12 at 10:34 AM

## Surrogate Quality Control

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1301392 Sample# GG12342-48

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSES | SECONDARY ANALYSES | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-001-NBZ-SS-0.0-0.5 | 4.09.12 | 0936 | SOIL | NONE | 2-8 oz Jar | X | X | X | X | |
| SL-151-NBZ-SS-0.0-0.5 | 4.09.12 | 1015 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-157-NBZ-SS-0.0-0.5 | 4.09.12 | 1347 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-167-NBZ-SS-0.0-0.5 | 4.09.12 | 1412 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-174-NBZ-SS-0.0-0.5 | 4.09.12 | 1446 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-185-NBZ-SS-0.0-0.5 | 4.09.12 | 1050 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-191-NBZ-SS-0.0-0.5MS | 4.09.12 | 1122 | SOIL | NONE | 1-8 oz Jar | X | | | | MS/MSD |
| DUP-06-NBZ-QC-040912 | 4.09.12 | 1520 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-009-NBZ-SS-0.0-0.5MS | 4.10.12 | 0930 | SOIL | NONE | 2-16 oz Jar | X | X | X | X | |
| SL-084-NBZ-SS-0.0-0.5 | 4.10.12 | 1110 | SOIL | NONE | 1-16 oz Jar | X | | | | |
| SL-186-NBZ-SS-0.0-0.5 | 4.10.12 | 1040 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| DUP-07-NBZ-QC-041012 | 4.10.12 | 0925 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| Relinquished by: (*Signature*) | Date/Time<br>4/10/2012 / 1630 | | Received for Laboratory by: (*Signature*)<br>Suzette Pothman 4/11/12 0910 | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s) | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# DE309

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 26, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/13/2012
Group Number: 1302046
SDG: DE309
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-085-NBZ-SS-0.0-0.5 Soil | 6615656 |
| SL-011-NBZ-SS-0.0-0.5 Soil | 6615657 |
| EB-NBZ-SS-041212 Water | 6615658 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| 1 COPY TO | Data Package Group | |

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Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-085-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-NBZ-SS

**LLI Sample # SW 6615656**
**LLI Group # 1302046**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 14:02

Submitted: 04/13/2012 09:30
Reported: 04/26/2012 12:32

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0901 SDG#: DE309-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 198 | U | 198 | 397 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 710 | U | 710 | 1,800 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.8 | U | 1.8 | 4.1 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.8 | U | 1.8 | 4.1 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.8 | U | 1.8 | 4.1 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 16.0 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12107SLA026 | 04/17/2012 12:57 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12107SLA026 | 04/16/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121070003A | 04/17/2012 23:20 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121070003A | 04/16/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121070032A | 04/20/2012 14:02 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121070032A | 04/17/2012 08:40 | Kerrie A Freeburn | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-011-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-NBZ-SS

**LLI Sample # SW 6615657**
**LLI Group # 1302046**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 11:22

Submitted: 04/13/2012 09:30
Reported: 04/26/2012 12:32

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0902 SDG#: DE309-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 189 | U | 189 | 378 | 10 |
| | Reporting limits were raised due to interference from the sample matrix. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 680 | U | 680 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 4.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.9 | | 0.50 | 0.50 | 1 |
| | "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. | | | | | | |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12107SLA026 | 04/17/2012 13:16 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12107SLA026 | 04/16/2012 18:30 | Sally L Appleyard | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121070003A | 04/17/2012 23:30 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121070003A | 04/16/2012 18:00 | Wanda F Oswald | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121070032A | 04/20/2012 13:18 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121070032A | 04/17/2012 08:40 | Kerrie A Freeburn | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** EB-NBZ-SS-041212 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SS

**LLI Sample # WW 6615658**
**LLI Group # 1302046**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 15:00

Submitted: 04/13/2012 09:30
Reported: 04/26/2012 12:32

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E0903 SDG#: DE309-03EB*

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/l** | | **ng/l** | **ng/l** | |
| 10962 | N-Nitrosodimethylamine | 62-75-9 | 6.67 | | 0.515 | 1.03 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/l** | | **ug/l** | **ug/l** | |
| 04144 | 20b Formaldehyde 8315A | 50-00-0 | 22 | U | 22 | 110 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/l** | | **mg/l** | **mg/l** | |
| 10319 | m-Terphenyl | 92-06-8 | 0.17 | U | 0.17 | 0.52 | 1 |
| 10319 | o-Terphenyl | 84-15-1 | 0.17 | U | 0.17 | 0.52 | 1 |
| 10319 | p-Terphenyl | 92-94-4 | 0.17 | U | 0.17 | 0.52 | 1 |

The final sample volume was increased due to a preparation error and there is insufficient sample for re-extraction. The reporting limits are raised accordingly. The client was contacted and the data reported.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10962 | 21b NDMA by 1625C | EPA 1625C | 1 | 12110WAA026 | 04/23/2012 15:25 | Matthew S Woods | 1 |
| 11629 | NDMA Liquid/Liquid Extraction | SW-846 3520C | 1 | 12110WAA026 | 04/19/2012 16:25 | Wanda F Oswald | 1 |
| 04144 | 20b Formaldehyde 8315A | SW-846 8315A | 1 | 121050005A | 04/16/2012 15:39 | James H Place | 1 |
| 01013 | Formaldehyde Extraction | SW-846 8315A | 1 | 121050005A | 04/15/2012 12:20 | Olivia Arosemena | 1 |
| 10319 | 22b Terphenyls by 8015B | SW-846 8015B | 1 | 121070027A | 04/20/2012 11:24 | Robert Brown | 1 |
| 10304 | Terphenyls water prep | SW-846 3510C | 1 | 121070027A | 04/17/2012 09:15 | William H Saadeh | 1 |

*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1302046
Reported: 04/26/12 at 12:32 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12107SLA026 | Sample number(s): 6615656-6615657 | | | | | | | | | |
| N-Nitrosodimethylamine | 16.7 | U | 16.7 | 33.3 | ng/kg | 105 | | 70-130 | | |
| Batch number: 12110WAA026 | Sample number(s): 6615658 | | | | | | | | | |
| N-Nitrosodimethylamine | 0.500 | U | 0.500 | 1.00 | ng/l | 120 | 117 | 70-130 | 2 | 30 |
| Batch number: 121050005A | Sample number(s): 6615658 | | | | | | | | | |
| 20b Formaldehyde 8315A | 10 | U | 10. | 50 | ug/l | 96 | 98 | 69-130 | 2 | 30 |
| Batch number: 121070003A | Sample number(s): 6615656-6615657 | | | | | | | | | |
| 20a Formaldehyde 8315A | 600 U | | 600. | 1,500 | ug/kg | 97 | | 80-126 | | |
| Batch number: 121070027A | Sample number(s): 6615658 | | | | | | | | | |
| m-Terphenyl | 0.16 | U | 0.16 | 0.50 | mg/l | 90 | 92 | 61-108 | 2 | 20 |
| o-Terphenyl | 0.16 | U | 0.16 | 0.50 | mg/l | 88 | 90 | 75-125 | 2 | 20 |
| p-Terphenyl | 0.16 | U | 0.16 | 0.50 | mg/l | 90 | 92 | 63-110 | 2 | 20 |
| Batch number: 121070032A | Sample number(s): 6615656-6615657 | | | | | | | | | |
| m-Terphenyl | 1.5 | U | 1.5 | 3.5 | mg/kg | 95 | 95 | 64-111 | 1 | 20 |
| o-Terphenyl | 1.5 | U | 1.5 | 3.5 | mg/kg | 92 | 92 | 75-125 | 0 | 20 |
| p-Terphenyl | 1.5 | U | 1.5 | 3.5 | mg/kg | 95 | 96 | 69-109 | 1 | 20 |
| Batch number: 12109162401B | Sample number(s): 6615656-6615657 | | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 100 | | 80-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12107SLA026 | Sample number(s): 6615656-6615657 UNSPK: P612343 | | | | | | | | |
| N-Nitrosodimethylamine | 93 | 99 | 70-130 | 7 | 30 | | | | |
| Batch number: 121070003A | Sample number(s): 6615656-6615657 UNSPK: P612343 | | | | | | | | |
| 20a Formaldehyde 8315A | 98 | 94 | 80-120 | 4 | 50 | | | | |
| Batch number: 12109162401B | Sample number(s): 6615656-6615657 BKG: P612355 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 8.6 | 8.6 | 0 | 20 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1302046
Reported: 04/26/12 at 12:32 PM

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21a NDMA by 1625C
Batch number: 12107SLA026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6615656 | 966* |
| 6615657 | 1052* |
| Blank | 64 |
| LCS | 60 |
| MS | 967* |
| MSD | 915* |
| Limits: | 50-150 |

Analysis Name: 21b. NDMA in Water
Batch number: 12110WAA026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6615658 | 112 |
| Blank | 79 |
| LCS | 71 |
| LCSD | 75 |
| Limits: | 50-150 |

Analysis Name: 20b Formaldehyde 8315A
Batch number: 121050005A

| | Butyraldehyde |
|---|---|
| 6615658 | 94 |
| Blank | 73 |
| LCS | 102 |
| LCSD | 104 |
| Limits: | 45-145 |

Analysis Name: 20a Formaldehyde 8315A
Batch number: 121070003A

| | Butyraldehyde |
|---|---|
| 6615656 | 97 |
| 6615657 | 94 |
| Blank | 104 |
| LCS | 95 |
| MS | 98 |
| MSD | 97 |
| Limits: | 64-126 |

Analysis Name: 22b Terphenyls by 8015B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1302046
Reported: 04/26/12 at 12:32 PM

## Surrogate Quality Control

Batch number: 121070027A

| | n-Triacontane-d62 |
|---|---|
| 6615658 | 92 |
| Blank | 95 |
| LCS | 89 |
| LCSD | 91 |
| Limits: | 46-100 |

Analysis Name: 22a Terphenyls by 8015B
Batch number: 121070032A

| | n-Triacontane-d62 |
|---|---|
| 6615656 | 138 |
| 6615657 | 102 |
| Blank | 100 |
| LCS | 95 |
| LCSD | 88 |
| Limits: | 19-152 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Acct#13013 Cp#1302046 Sample#6615656-58

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSES | SECONDARY ANALYSES | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-188-NBZ-SS-0.0-0.5 | 4/10/12 | 1441 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-177-NBZ-SS-0.0-0.5 | 4/10/12 | 1510 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-085-NBZ-SS-0.0-0.5 | 4/10/12 | 1402 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-004-NBZ-SS-0.0-0.5 | 4/11/12 | 0912 | SOIL | NONE | 1-16 oz Jar | X | | | | |
| SL-145-NBZ-SS-0.0-0.5 | 4/11/12 | 1435 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-148-NBZ-SS-0.0-0.5 | 4/11/12 | 1403 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-154-NBZ-SS-0.0-0.5 | 4/11/12 | 1006 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-163-NBZ-SS-0.0-0.5 | 4/11/12 | 1323 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-168-NBZ-SS-0.0-0.5 | 4/11/12 | 0938 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-176-NBZ-SS-0.0-0.5 | 4/11/12 | 1348 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-182-NBZ-SS-0.0-0.5 | 4/11/12 | 1041 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-011-NBZ-SS-0.0-0.5 | 4.12.12 | 1122 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-144-NBZ-SS-0.0-0.5 | 4.12.12 | 0922 | SOIL | NONE | 1-4 0z Jar | X | | | | |
| SL-152-NBZ-SS-0.0-0.5 | 4.12.12 | 0955 | SOIL | NONE | 1-4 0z Jar | X | | | | |
| EB-NBZ-SS-041212 | 4.12.12 | 1500 | WATER | NONE | 4-1 L Ambers | X | | X | X | |
| EB-NBZ-SS-041212 | 4.12.12 | 1500 | WATER | NONE | 1-250 mL glass | | X | | | |
| Relinquished by: (*Signature*) | Date/Time<br>4/12/2012 / 1630 | | Received for Laboratory by: (*Signature*)<br>Swetta Lehman 4/13/12 0930 | | | | | | | Laboratory: LL<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s) | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# DE310

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 30, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/18/2012
Group Number: 1303086
SDG: DE310
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-013-NBZ-SS-0.0-0.5 Soil | 6620874 |
| SL-014-NBZ-SS-0.0-0.5 Soil | 6620875 |
| SL-088-NBZ-SS-0.0-0.5 Soil | 6620876 |
| EB-NBZ-SB-041712 Water | 6620877 |
| EB-NBZ-SS-041712 Water | 6620878 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| 1 COPY TO | Data Package Group | |

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Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

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# Analysis Report



**Sample Description:** SL-013-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-NBZ-SS

**LLI Sample # SW 6620874**
**LLI Group # 1303086**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 10:07

Submitted: 04/18/2012 09:40
Reported: 04/30/2012 15:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1001 SDG#: DE310-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 248 | U | 248 | 496 | 10 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 890 | U | 890 | 2,200 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 2.2 | U | 2.2 | 5.2 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 2.2 | U | 2.2 | 5.2 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 2.2 | U | 2.2 | 5.2 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 32.8 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 13:04 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14:15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121130004A | 04/24/2012 23:04 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121130004A | 04/23/2012 13:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 21:52 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11:55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12116162401A | 04/25/2012 12:05 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-014-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-NBZ-SS

**LLI Sample # SW 6620875**
**LLI Group # 1303086**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 10:10

Submitted: 04/18/2012 09:40
Reported: 04/30/2012 15:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1002 SDG#: DE310-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 195 | U | 195 | 389 | 10 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 700 | U | 700 | 1,800 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 4.1 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 4.1 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 4.1 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 14.4 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 14:00 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14:15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121130004A | 04/24/2012 23:33 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121130004A | 04/23/2012 13:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 17:04 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11:55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12116162401A | 04/25/2012 12:05 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-088-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-NBZ-SS

**LLI Sample # SW 6620876**
**LLI Group # 1303086**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 11:00

Submitted: 04/18/2012 09:40
Reported: 04/30/2012 15:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1003 SDG#: DE310-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 471 | | 211 | 421 | 10 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 760 | U | 760 | 1,900 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.9 | U | 1.9 | 4.4 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.9 | U | 1.9 | 4.4 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.9 | U | 1.9 | 4.4 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 20.9 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 14:19 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14:15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121130004A | 04/24/2012 23:52 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121130004A | 04/23/2012 13:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 21:08 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11:55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12116162401A | 04/25/2012 12:05 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** EB-NBZ-SB-041712 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SB

**LLI Sample # WW 6620877**
**LLI Group # 1303086**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 15:45

Submitted: 04/18/2012 09:40
Reported: 04/30/2012 15:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1004 SDG#: DE310-04EB

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/l** | | **ng/l** | **ng/l** | |
| 10962 | N-Nitrosodimethylamine | 62-75-9 | 2.31 | | 0.519 | 1.04 | 1 |
| | The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/l** | | **ug/l** | **ug/l** | |
| 04144 | 20b Formaldehyde 8315A | 50-00-0 | 10 | U | 10 | 50 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/l** | | **mg/l** | **mg/l** | |
| 10319 | m-Terphenyl | 92-06-8 | 0.082 | U | 0.082 | 0.26 | 1 |
| 10319 | o-Terphenyl | 84-15-1 | 0.082 | U | 0.082 | 0.26 | 1 |
| 10319 | p-Terphenyl | 92-94-4 | 0.082 | U | 0.082 | 0.26 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10962 | 21b NDMA by 1625C | EPA 1625C | 1 | 12110WAA026 | 04/23/2012 15:44 | Matthew S Woods | 1 |
| 11629 | NDMA Liquid/Liquid Extraction | SW-846 3520C | 1 | 12110WAA026 | 04/19/2012 16:25 | Wanda F Oswald | 1 |
| 04144 | 20b Formaldehyde 8315A | SW-846 8315A | 1 | 121100001A | 04/19/2012 19:12 | James H Place | 1 |
| 01013 | Formaldehyde Extraction | SW-846 8315A | 1 | 121100001A | 04/19/2012 09:45 | Denise L Trimby | 1 |
| 10319 | 22b Terphenyls by 8015B | SW-846 8015B | 1 | 121100011A | 04/24/2012 09:35 | Robert Brown | 1 |
| 10304 | Terphenyls water prep | SW-846 3510C | 1 | 121100011A | 04/20/2012 07:40 | Catherine R Wiker | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** EB-NBZ-SS-041712 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SS

**LLI Sample #** WW 6620878
**LLI Group #** 1303086
**Account #** 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 15:00

Submitted: 04/18/2012 09:40
Reported: 04/30/2012 15:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1005 SDG#: DE310-05EB*

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/l** | | **ng/l** | **ng/l** | |
| 10962 | N-Nitrosodimethylamine | 62-75-9 | 2.36 | | 0.516 | 1.03 | 1 |
| | The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken. | | | | | | |
| **HPLC Organics** | **SW-846 8315A** | | **ug/l** | | **ug/l** | **ug/l** | |
| 04144 | 20b Formaldehyde 8315A | 50-00-0 | 10 | U | 10 | 50 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/l** | | **mg/l** | **mg/l** | |
| 10319 | m-Terphenyl | 92-06-8 | 0.080 | U | 0.080 | 0.25 | 1 |
| 10319 | o-Terphenyl | 84-15-1 | 0.080 | U | 0.080 | 0.25 | 1 |
| 10319 | p-Terphenyl | 92-94-4 | 0.080 | U | 0.080 | 0.25 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10962 | 21b NDMA by 1625C | EPA 1625C | 1 | 12110WAA026 | 04/23/2012 16:03 | Matthew S Woods | 1 |
| 11629 | NDMA Liquid/Liquid Extraction | SW-846 3520C | 1 | 12110WAA026 | 04/19/2012 16:25 | Wanda F Oswald | 1 |
| 04144 | 20b Formaldehyde 8315A | SW-846 8315A | 1 | 121100001A | 04/19/2012 19:21 | James H Place | 1 |
| 01013 | Formaldehyde Extraction | SW-846 8315A | 1 | 121100001A | 04/19/2012 09:45 | Denise L Trimby | 1 |
| 10319 | 22b Terphenyls by 8015B | SW-846 8015B | 1 | 121100011A | 04/24/2012 09:57 | Robert Brown | 1 |
| 10304 | Terphenyls water prep | SW-846 3510C | 1 | 121100011A | 04/20/2012 07:40 | Catherine R Wiker | 1 |

*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303086
Reported: 04/30/12 at 03:21 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12110WAA026 | Sample number(s): 6620877-6620878 | | | | | | | | |
| N-Nitrosodimethylamine | 0.500 U | 0.500 | 1.00 | ng/l | 120 | 117 | 70-130 | 2 | 30 |
| Batch number: 12116SLA026 | Sample number(s): 6620874-6620876 | | | | | | | | |
| N-Nitrosodimethylamine | 16.7 U | 16.7 | 33.3 | ng/kg | 104 | | 70-130 | | |
| Batch number: 121100001A | Sample number(s): 6620877-6620878 | | | | | | | | |
| 20b Formaldehyde 8315A | 10 U | 10. | 50 | ug/l | 90 | 92 | 69-130 | 2 | 30 |
| Batch number: 121130004A | Sample number(s): 6620874-6620876 | | | | | | | | |
| 20a Formaldehyde 8315A | 600 U | 600. | 1,500 | ug/kg | 98 | | 80-126 | | |
| Batch number: 121100011A | Sample number(s): 6620877-6620878 | | | | | | | | |
| m-Terphenyl | 0.080 U | 0.080 | 0.25 | mg/l | 92 | 98 | 61-108 | 6 | 20 |
| o-Terphenyl | 0.080 U | 0.080 | 0.25 | mg/l | 88 | 92 | 75-125 | 4 | 20 |
| p-Terphenyl | 0.080 U | 0.080 | 0.25 | mg/l | 90 | 96 | 63-110 | 6 | 20 |
| Batch number: 121160015A | Sample number(s): 6620874-6620876 | | | | | | | | |
| m-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 98 | | 64-111 | | |
| o-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 94 | | 75-125 | | |
| p-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 98 | | 69-109 | | |
| Batch number: 12116162401A | Sample number(s): 6620874-6620876 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 99 | | 80-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12116SLA026 | Sample number(s): 6620874-6620876 UNSPK: 6620874 | | | | | | | | |
| N-Nitrosodimethylamine | 75 | 55* | 70-130 | 31* | 30 | | | | |
| Batch number: 121130004A | Sample number(s): 6620874-6620876 UNSPK: 6620874 | | | | | | | | |
| 20a Formaldehyde 8315A | 97 | 85 | 80-120 | 13 | 50 | | | | |
| Batch number: 121160015A | Sample number(s): 6620874-6620876 UNSPK: 6620874 | | | | | | | | |
| m-Terphenyl | 95 | 98 | 75-125 | 3 | 20 | | | | |
| o-Terphenyl | 89 | 89 | 75-125 | 0 | 20 | | | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303086
Reported: 04/30/12 at 03:21 PM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| p-Terphenyl | 99 | 102 | 75-125 | 3 | 20 | | | | |
| Batch number: 12116162401A | Sample number(s): 6620874-6620876 | | | | | BKG: P620868 | | | |
| Moisture Content by 160.3 | | | | | | 15.8 | 15.3 | 3 | 20 |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21b. NDMA in Water
Batch number: 12110WAA026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6620877 | 172* |
| 6620878 | 163* |
| Blank | 79 |
| LCS | 71 |
| LCSD | 75 |
| Limits: | 50-150 |

Analysis Name: 21a NDMA by 1625C
Batch number: 12116SLA026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6620874 | 223* |
| 6620875 | 178* |
| 6620876 | 221* |
| Blank | 122 |
| LCS | 130 |
| MS | 2046* |
| MSD | 2709* |
| Limits: | 50-150 |

Analysis Name: 20b Formaldehyde 8315A
Batch number: 121100001A

| | Butyraldehyde |
|---|---|
| 6620877 | 100 |
| 6620878 | 102 |
| Blank | 90 |
| LCS | 96 |
| LCSD | 95 |
| Limits: | 45-145 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303086
Reported: 04/30/12 at 03:21 PM

## Surrogate Quality Control

Analysis Name: 20a Formaldehyde 8315A
Batch number: 121130004A

| | Butyraldehyde |
|---|---|
| 6620874 | 94 |
| 6620875 | 92 |
| 6620876 | 89 |
| Blank | 98 |
| LCS | 94 |
| MS | 92 |
| MSD | 93 |
| Limits: | 64-126 |

Analysis Name: 22b Terphenyls by 8015B
Batch number: 121100011A

| | n-Triacontane-d62 |
|---|---|
| 6620877 | 98 |
| 6620878 | 90 |
| Blank | 94 |
| LCS | 90 |
| LCSD | 95 |
| Limits: | 46-100 |

Analysis Name: 22a Terphenyls by 8015B
Batch number: 121160015A

| | n-Triacontane-d62 |
|---|---|
| 6620874 | 192* |
| 6620875 | 130 |
| 6620876 | 176* |
| Blank | 93 |
| LCS | 94 |
| MS | 191* |
| MSD | 194* |
| Limits: | 19-152 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cup# 1303086 Sample# 6620874-78

# CHAIN OF CUSTODY RECORD

**CDM** | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | PRIMARY ANALYSES | SECONDARY ANALYSES | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| SL-013-NBZ-SS-0.0-0.5 | 4.16.12 | 1007 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-159-NBZ-SS-0.0-0.5 | 4.16.12 | 1101 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-160-NBZ-SS-0.0-0.5 | 4.16.12 | 1440 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-164-NBZ-SS-0.0-0.5 | 4.16.12 | 1135 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-173-NBZ-SS-0.0-0.5MS | 4.16.12 | 1518 | SOIL | NONE | 1-8 oz Jar | X | | | | |
| DUP-08-NBZ-QC-041612 | 4.16.12 | 1523 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-014-NBZ-SS-0.0-0.5 | 4.17.12 | 1010 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-088-NBZ-SS-0.0-0.5 | 4.17.12 | 1100 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-156-NBZ-SS-0.0-0.5 | 4.17.12 | 1117 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-161-NBZ-SS-0.0-0.5 | 4.17.12 | 1150 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-162-NBZ-SS-0.0-0.5 | 4.17.12 | 0955 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-166-NBZ-SS-0.0-0.5 | 4.17.12 | 1030 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| EB-NBZ-SB-041712 | 04.17.12 | 1545 | WATER | NONE | 4-1L Ambers | X | | X | X | |
| EB-NBZ-SB-041712 | 04.17.12 | 1545 | WATER | NONE | 1-250mL Amber | | X | | | |
| EB-NBZ-SS-041712 | 04.17.12 | 1500 | WATER | NONE | 4-1L Ambers | X | | X | X | |
| EB-NBZ-SS-041712 | 04.17.12 | 1500 | WATER | NONE | 1-250mL Amber | | X | | | |

| Relinquished by: (*Signature*) | Date/Time | Received for Laboratory by: (*Signature*) | Laboratory: |
|---|---|---|---|
| | 4/17/2012 / 1630 | LLI 4/18/12 0940 | Lancaster Laboratories, Inc. |
| **Received by: (*Signature*)** | **Date/Time** | **Airbill No.(s)** | |
| | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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# SAMPLE DELIVERY GROUP

# DE311

**NBZ – Data Package Amendment**
**SDG 12D166, SDG DE311, SDG DX170**
**6-17-13**

During the database check, an inconsistency in sample identification was discovered that needed to be corrected. They are listed below:

- Methods (NDMA, Formaldehyde, Terphenyls, and Dioxins) from sample SL-083-NBZ-SB-0.0-0.5 were moved to SL-083-NBZ-SS-0.0-0.5.
- Sample SL-083-NBZ-SB-0.0-0.5 was removed.

All changes have been documented and verified by the field personnel and data group.

Pam Hartman
Catherine Love
Cherie Zakowski

eurofins | Lancaster Laboratories

# Analysis Report

CZ 6/7/13



Sample Description: SL-083-NBZ-~~SB~~SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-NBZ-SB

LLI Sample # SW 6622564
LLI Group # 1303405
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected 04/18/2012 14 06

Submitted 04/19/2012 09 10
Reported 04/30/2012 15 25

CDM Federal Programs Corp
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1106 SDG# DE311-06*

| CAT No | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | ng/kg | | ng/kg | ng/kg | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 19 2 | U | 19 2 | 38 4 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | ug/kg | | ug/kg | ug/kg | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 690 | U | 690 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | mg/kg | | mg/kg | mg/kg | |
| 10318 | m-Terphenyl | 92-06-8 | 1 7 | U | 1 7 | 4 0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1 7 | U | 1 7 | 4 0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1 7 | U | 1 7 | 4 0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | % | | % | % | |
| 11624 | Moisture Content by 160 3 | n a | 13 2 | | 0 50 | 0 50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius The moisture result reported above is on an as-received basis

## General Sample Comments

State of California Lab Certification No 2501

All QC is compliant unless otherwise noted Please refer to the Quality Control Summary for overall QC performance data and associated samples

## Laboratory Sample Analysis Record

| CAT No | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 16 32 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14 15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121130004A | 04/25/2012 00 49 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121130004A | 04/23/2012 13 15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 12 37 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11 55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160 3 | EPA 160 3 modified | 1 | 12115162401A | 04/24/2012 12 21 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc
2425 New Holland Pike
PO Box 12425
Lancaster PA 17605-2425
717-656-2300 Fax 717-656-2681

eurofins | Lancaster Laboratories

# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

SS C2 6/17/13



**Sample Description:** SL-083-NBZ-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-NBZ-SB

**LLI Sample #** SW 6622571
**LLI Group #** 1303406
**Account #** 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 14:06

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7014 SDG#: DX170-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 13.2 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-083-NBZ-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-NBZ-SB

LLI Sample # SW 6622571
LLI Group # 1303406
Account # 13013

**Project Name:** SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2012 14:06

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7014 SDG#: DX170-11

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0337 | J | 0.0276 | 1.13 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0388 | J | 0.0385 | 5.64 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0986 | JB | 0.0396 | 5.64 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.313 | JB | 0.0406 | 5.64 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.243 | JB | 0.0396 | 5.64 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 6.08 | B | 0.0445 | 5.64 | 1 |
| 11031 | OCDD | 3268-87-9 | 75.3 | B | 0.0327 | 11.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.417 | JB | 0.273 | 1.13 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 9.82 | B | 0.113 | 5.64 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.416 | JB | 0.118 | 5.64 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 2.50 | JB | 0.0661 | 5.64 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.146 | J | 0.0603 | 5.64 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.188 | JBQ | 0.0737 | 5.64 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.196 | JB | 0.0609 | 5.64 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.811 | JB | 0.0228 | 5.64 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.156 | JB | 0.0355 | 5.64 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.27 | JB | 0.0291 | 11.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 74 | 25 - 164 |
| 13C12-12378-PeCDD | 75 | 25 - 181 |
| 13C12-123478-HxCDD | 82 | 32 - 141 |
| 13C12-123678-HxCDD | 81 | 28 - 130 |
| 13C12-123789-HxCDD | 80 | 28 - 130 |
| 13C12-1234678-HpCDD | 80 | 23 - 140 |
| 13C12-OCDD | 82 | 17 - 157 |
| 13C12-2378-TCDF | 65 | 24 - 169 |
| 13C12-12378-PeCDF | 76 | 24 - 185 |
| 13C12-23478-PeCDF | 71 | 21 - 178 |
| 13C12-123478-HxCDF | 73 | 26 - 152 |
| 13C12-123678-HxCDF | 78 | 26 - 123 |
| 13C12-234678-HxCDF | 76 | 28 - 136 |
| 13C12-123789-HxCDF | 66 | 29 - 147 |
| 13C12-1234678-HpCDF | 97 | 28 - 143 |
| 13C12-1234789-HpCDF | 66 | 26 - 138 |
| 13C12-OCDF | 61 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

C2 6/19/13

Sample Description: SL-083-NBZ-~~SB~~SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-NBZ-SB

LLI Sample # SW 6622571
LLI Group # 1303406
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2012 14:06

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7014 SDG#: DX170-11

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 06:25 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12115162401A | 04/24/2012 12:21 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/1211:53 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 20:20 |
| Lab Samp ID: D166-07 | Dilution Factor: 1 |
| Lab File ID: REL076 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 12.6 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 96 |
| 1,2-DICHLOROBENZENE | ND | 190 | 96 |
| 1,3-DICHLOROBENZENE | ND | 190 | 96 |
| 1,4-DICHLOROBENZENE | ND | 190 | 96 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 96 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 96 |
| 2,6-DINITROTOLUENE | ND | 190 | 96 |
| 2-CHLORONAPHTHALENE | ND | 190 | 96 |
| 2-CHLOROPHENOL | ND | 190 | 96 |
| 2-METHYLNAPHTHALENE | ND | 190 | 96 |
| 2-METHYLPHENOL | ND | 190 | 96 |
| 2-NITROANILINE | ND | 190 | 96 |
| 2-NITROPHENOL | ND | 190 | 96 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 96 |
| 3-NITROANILINE | ND | 190 | 96 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 96 |
| 4-CHLOROANILINE | ND | 190 | 96 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-METHYLPHENOL (1) | ND | 190 | 96 |
| 4-NITROANILINE | ND | 190 | 96 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 96 |
| ACENAPHTHYLENE | ND | 190 | 96 |
| ANTHRACENE | ND | 190 | 96 |
| BENZO(A)ANTHRACENE | ND | 190 | 96 |
| BENZO(A)PYRENE | ND | 190 | 96 |
| BENZO(B)FLUORANTHENE | ND | 190 | 96 |
| BENZO(K)FLUORANTHENE | ND | 190 | 96 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 96 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 96 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 96 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 96 |
| CHRYSENE | ND | 190 | 96 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 96 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 96 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 96 |
| DIBENZOFURAN | ND | 190 | 96 |
| DIETHYLPHTHALATE | ND | 190 | 96 |
| DIMETHYLPHTHALATE | ND | 190 | 96 |
| FLUORANTHENE | ND | 190 | 96 |
| FLUORENE | ND | 190 | 96 |
| HEXACHLOROBENZENE | ND | 190 | 96 |
| HEXACHLOROBUTADIENE | ND | 190 | 96 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 96 |
| HEXACHLOROETHANE | ND | 190 | 96 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 96 |
| ISOPHORONE | ND | 190 | 96 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 96 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 96 |
| NAPHTHALENE | ND | 190 | 96 |
| NITROBENZENE | ND | 190 | 96 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 96 |
| PHENOL | ND | 190 | 96 |
| PYRENE | ND | 190 | 96 |
| BENZYL ALCOHOL | ND | 190 | 96 |
| 1-METHYLNAPHTHALENE | ND | 190 | 96 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 96 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 96 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 950 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 96 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 96 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 780 | 1144 | 68.2 | 35-130 |
| 2-FLUOROBIPHENYL | 240 | 381.4 | 63.0 | 45-130 |
| 2-FLUOROPHENOL | 663 | 1144 | 58.0 | 25-130 |
| NITROBENZENE-D5 | 209 | 381.4 | 54.7 | 40-130 |
| PHENOL-D5 | 664 | 1144 | 58.1 | 25-120 |
| TERPHENYL-D14 | 356 | 381.4 | 93.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 20:20 |
| Lab Samp ID: D166-07 | Dilution Factor: 1 |
| Lab File ID: REL076 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 12.6 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.97 |
| ACENAPHTHYLENE | ND | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)PYRENE | ND | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.97 |
| CHRYSENE | ND | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | ND | 1.9 | 0.97 |
| FLUORENE | ND | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.97 |
| NAPHTHALENE | ND | 1.9 | 0.97 |
| PHENANTHRENE | ND | 1.9 | 0.97 |
| PYRENE | ND | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 19 | 9.6 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.6 |
| DIETHYLPHTHALATE | ND | 19 | 9.6 |
| DIMETHYLPHTHALATE | ND | 19 | 9.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 202 | 381.4 | 53.1 | 40-130 |
| 2-FLUOROBIPHENYL | 210 | 381.4 | 55.2 | 45-130 |
| TERPHENYL-D14 | 327 | 381.4 | 85.8 | 45-135 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/24/12 14:55 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 10:11 |
| Lab Samp ID: D166-07 | Dilution Factor: 1 |
| Lab File ID: LD24067A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : 12.6 |
| Calib. Ref.: LD24062A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.57 |
| EFH(C12-C14) | ND | 1.1 | 0.57 |
| EFH(C15-C20) | ND | 1.1 | 0.57 |
| EFH(C21-C30) | 4.5 | 1.1 | 0.57 |
| EFH(C30-C40) | 12 | 1.1 | 0.57 |
| TOTAL EFH(C8-C40) | 17 | 1.1 | 0.57 |

| SURROGATE PARAMETERS | RESULTS | SPK AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.77 | 11.44 | 59.2 | 50-150 |
| HEXACOSANE | 2.81 | 2.860 | 98.2 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 17:41 |
| Lab Samp ID: D166-07 | Dilution Factor: 1 |
| Lab File ID: MD27023A | Matrix : SOIL |
| Ext Btch ID: CPD054S | % Moisture : 12.6 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.29 | 0.19 | 0.097 \| 0.097 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.14J | 0.19 | 0.097 \| 0.097 |
| BETA-BHC | (ND) \| 0.19 | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR | (ND) \| 0.23 | 0.19 | 0.097 \| 0.097 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| ALDRIN | (ND) \| 0.30 | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR EPOXIDE | (ND) \| 0.31 | 0.19 | 0.097 \| 0.097 |
| ENDOSULFAN I | (ND) \| 0.18J | 0.19 | 0.097 \| 0.097 |
| 4,4'-DDE | 0.64 \| (ND) | 0.39 | 0.19 \| 0.19 |
| DIELDRIN | 1.6 \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDRIN | 0.60 \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.31J \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDT | (ND) \| 5.1 | 0.39 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | 1.6 \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| 0.40 | 0.39 | 0.19 \| 0.19 |
| ENDRIN KETONE | 0.40 \| (ND) | 0.39 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| ND | 1.9 | 0.97 \| 0.97 |
| MIREX | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.511 \| (6.130) | 6.102 | 73.9 \| (100) | 50-130 |
| DECACHLOROBIPHENYL | (5.656) \| 5.271 | 6.102 | (92.7) \| 86.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| Batch No. | : 12D166 | Date Extracted | : 04/26/12 17:43 |
| Sample ID | : SL-083-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/14/12 20:23 |
| Lab Samp ID | : D166-07T | Dilution Factor | : 2 |
| Lab File ID | : KE14014A | Matrix | : SOIL |
| Ext Btch ID | : CPD063S | % Moisture | : 12.6 |
| Calib. Ref. | : KE14003A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1221 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1232 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1242 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1248 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1254 | 180 \| (100) | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1260 | (92) \| 98 | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1262 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1268 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 5432 | (ND) \| ND | 7.6 | 3.9 \| 3.9 |
| AROCLOR 5442 | (ND) \| ND | 7.6 | 3.9 \| 3.9 |
| AROCLOR 5460 | (ND) \| ND | 7.6 | 3.9 \| 3.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.995) \| 4.356 | 6.100 | (98.3) \| 71.4 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.355) \| 3.892 | 6.100 | (87.8) \| 63.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 8151A
HERBICIDES

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| Batch No. | : 12D166 | Date Extracted | : 04/23/12 17:23 |
| Sample ID | : SL-083-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/25/12 18:05 |
| Lab Samp ID | : D166-07 | Dilution Factor | : 1 |
| Lab File ID | : WD25024A | Matrix | : SOIL |
| Ext Btch ID | : HED012S | % Moisture | : 12.6 |
| Calib. Ref. | : WD25020A | Instrument ID | : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 4.1 | 2.1 \| 2.1 |
| 2,4-DB | (ND) \| ND | 1.9 | 0.97 \| 0.97 |
| 2,4,5-T | (ND) \| 1.5 | 0.19 | 0.097 \| 0.097 |
| 2,4,5-TP(SILVEX) | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| DALAPON | (ND) \| ND | 10 | 5.1 \| 5.1 |
| DICAMBA | (ND) \| ND | 1.4 | 0.69 \| 0.69 |
| DICHLOROPROP | (ND) \| ND | 2.7 | 1.4 \| 1.4 |
| DINOSEB | (ND) \| ND | 1.9 | 0.97 \| 0.97 |
| MCPA | (ND) \| ND | 290 | 140 \| 140 |
| MCPP | (ND) \| ND | 290 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (250.4) \| 209.5 | 171.6 | (146) \| 122 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 00:43 |
| Lab Samp ID: D166-07 | Dilution Factor: .99 |
| Lab File ID: XD25021A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25012A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1890 | 1980 | 95.3 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 04/18/12 |
| Batch No. | : 12D166 | Date Extracted: | 04/24/12 18:47 |
| Sample ID: | SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: | 04/25/12 20:31 |
| Lab Samp ID: | D166-07 | Dilution Factor: | .99 |
| Lab File ID: | PD25026A | Matrix : | SOIL |
| Ext Btch ID: | EXD018S | % Moisture : | NA |
| Calib. Ref.: | PD25017A | Instrument ID : | T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2580 | 1980 | 130 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 04/18/12 |
| SDG NO. | : 12D166 | Date Extracted: | 04/25/12 10:28 |
| Sample ID: | SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: | 04/30/12 17:41 # 05/01/12 18:52 |
| Lab Samp ID: | D166-07 #D166-07W | Dilution Factor: | 1.00 |
| Lab File ID: | 98D21064 #98E01048 | Matrix : | SOIL |
| Ext Btch ID: | IMD036S | % Moisture : | 12.6 |
| Calib. Ref.: | 98D21062 #98E01041 | Instrument ID : | T-I98 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 11000 | 27.5 | 13.7 |
| | Antimony | 0.120J | 0.229 | 0.114 |
| | Arsenic | 16.4 | 0.458 | 0.229 |
| | Barium | 112 | 0.458 | 0.229 |
| | Beryllium | 0.505 | 0.114 | 0.0572 |
| | Boron | ND | 5.72 | 2.86 |
| | Cadmium | 0.296 | 0.114 | 0.0572 |
| | Calcium | 2540 | 22.9 | 11.4 |
| | Chromium | 15.2 | 0.458 | 0.229 |
| | Cobalt | 5.00 | 0.114 | 0.0572 |
| | Copper | 8.03 | 0.458 | 0.229 |
| | Iron | 18300 | 22.9 | 11.4 |
| | Lead | 6.24 | 0.229 | 0.114 |
| | Magnesium | 4190 | 11.4 | 5.72 |
| | Manganese | 279 | 0.572 | 0.286 |
| | Molybdenum | 0.453 | 0.114 | 0.0572 |
| | Nickel | 10.4 | 0.458 | 0.229 |
| | Potassium | 3930 | 68.6 | 34.3 |
| | Selenium | ND | 0.458 | 0.229 |
| | Silver | 0.0876J | 0.114 | 0.0572 |
| | Sodium | ND | 114 | 57.2 |
| # | Strontium | 15.2 | 0.572 | 0.286 |
| | Thallium | 0.242 | 0.114 | 0.0572 |
| | Tin | ND | 11.4 | 5.72 |
| | Titanium | 883 | 1.14 | 0.572 |
| | Vanadium | 30.7 | 0.114 | 0.0572 |
| | Zinc | 63.2 | 3.43 | 1.72 |
| | Lithium | 26.2 | 2.29 | 1.14 |
| | Phosphorus | 450 | 13.7 | 6.86 |
| | Zirconium | ND | 5.72 | 2.86 |

# Members of the Associated File

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD025SB | ND | 1 | NA | 0.100 | 0.0500 | 04/24/1217:56 | 04/24/1213:30 | M47D017035 | M47D017032 | HGD025S | NA | 04/24/12 |
| LCS1S | HGD025SL | 0.863 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:58 | 04/24/1213:30 | M47D017036 | M47D017032 | HGD025S | NA | 04/24/12 |
| LCD1S | HGD025SC | 0.853 | 1 | NA | 0.100 | 0.0500 | 04/24/1218:00 | 04/24/1213:30 | M47D017037 | M47D017032 | HGD025S | NA | 04/24/12 |
| SL-008-NBZ-SB-4.0-5.0AS | D166-02A | 0.911 | 0.993 | 5.3 | 0.105 | 0.0524 | 04/24/1218:03 | 04/24/1213:30 | M47D017038 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 0.993 | 5.3 | 0.105 | 0.0524 | 04/24/1218:05 | 04/24/1213:30 | M47D017039 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DL | D166-02J | ND | 4.97 | 5.3 | 0.525 | 0.262 | 04/24/1218:07 | 04/24/1213:30 | M47D017040 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M | 0.920 | 0.992 | 5.3 | 0.105 | 0.0524 | 04/24/1218:09 | 04/24/1213:30 | M47D017041 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MSD | D166-02S | 0.921 | 0.995 | 5.3 | 0.105 | 0.0525 | 04/24/1218:11 | 04/24/1213:30 | M47D017042 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 0.998 | 16.0 | 0.119 | 0.0594 | 04/24/1218:13 | 04/24/1213:30 | M47D017043 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 0.233 | 0.985 | 12.8 | 0.113 | 0.0565 | 04/24/1218:20 | 04/24/1213:30 | M47D017046 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1.01 | 12.1 | 0.115 | 0.0575 | 04/24/1218:22 | 04/24/1213:30 | M47D017047 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 0.0992J | 0.995 | 12.6 | 0.114 | 0.0569 | 04/24/1218:24 | 04/24/1213:30 | M47D017048 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1.00 | 13.0 | 0.115 | 0.0575 | 04/24/1218:26 | 04/24/1213:30 | M47D017049 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 0.995 | 10.8 | 0.112 | 0.0558 | 04/24/1218:28 | 04/24/1213:30 | M47D017050 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 0.997 | 12.7 | 0.114 | 0.0571 | 04/24/1218:30 | 04/24/1213:30 | M47D017051 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD010SB | ND | 1 | NA | 1.50 | 0.750 | 04/24/1220:12 | 04/23/1211:11 | AD31-39 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCS1S | ICD010SL | 13.6 | 1 | NA | 1.50 | 0.750 | 04/24/1220:28 | 04/23/1211:11 | AD31-40 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCD1S | ICD010SC | 13.5 | 1 | NA | 1.50 | 0.750 | 04/24/1220:44 | 04/23/1211:11 | AD31-41 | AD31-37 | ICD010S | NA | 04/23/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | 1.79 | 1 | 5.3 | 1.58 | 0.792 | 04/24/1221:00 | 04/23/1211:11 | AD31-42 | AD31-37 | ICD010S | 04/18/1209:55 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 1.85 | 1 | 12.8 | 1.72 | 0.860 | 04/24/1221:33 | 04/23/1211:11 | AD31-44 | AD31-37 | ICD010S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | 1.09J | 1 | 12.1 | 1.71 | 0.853 | 04/24/1221:49 | 04/23/1211:11 | AD31-45 | AD31-37 | ICD010S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 4.04 | 1 | 12.6 | 1.72 | 0.858 | 04/24/1222:05 | 04/23/1211:11 | AD31-46 | AD31-37 | ICD010S | 04/18/1214:06 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | 71.8 | 5 | 16.0 | 8.93 | 4.46 | 04/25/1209:56 | 04/23/1211:11 | AD31-90 | AD31-83 | ICD010S | 04/18/1210:00 | 04/18/12 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD010SB | ND | 1 | NA | 1.00 | 0.500 | 04/24/1220:12 | 04/23/1211:11 | AD31-39 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCS1S | ICD010SL | 6.34 | 1 | NA | 1.00 | 0.500 | 04/24/1220:28 | 04/23/1211:11 | AD31-40 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCD1S | ICD010SC | 6.31 | 1 | NA | 1.00 | 0.500 | 04/24/1220:44 | 04/23/1211:11 | AD31-41 | AD31-37 | ICD010S | NA | 04/23/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 1.06 | 0.528 | 04/24/1221:00 | 04/23/1211:11 | AD31-42 | AD31-37 | ICD010S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 1 | 16.0 | 1.19 | 0.595 | 04/24/1221:16 | 04/23/1211:11 | AD31-43 | AD31-37 | ICD010S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 0.831J | 1 | 12.8 | 1.15 | 0.573 | 04/24/1221:33 | 04/23/1211:11 | AD31-44 | AD31-37 | ICD010S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | 1.26 | 1 | 12.1 | 1.14 | 0.569 | 04/24/1221:49 | 04/23/1211:11 | AD31-45 | AD31-37 | ICD010S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 0.692J | 1 | 12.6 | 1.14 | 0.572 | 04/24/1222:05 | 04/23/1211:11 | AD31-46 | AD31-37 | ICD010S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 1.15 | 0.575 | 04/24/1222:21 | 04/23/1211:11 | AD31-47 | AD31-37 | ICD010S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 1.12 | 0.561 | 04/24/1223:26 | 04/23/1211:11 | AD31-51 | AD31-49 | ICD010S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 1.15 | 0.573 | 04/24/1223:42 | 04/23/1211:11 | AD31-52 | AD31-49 | ICD010S | 04/18/1211:20 | 04/18/12 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD018SB | ND | 1 | NA | 20.0 | 10.0 | 04/23/1221:48 | 04/23/1211:30 | JD23031 | JD23030 | PCD018S | NA | 04/23/12 |
| LCS1S | PCD018SL | 241 | 1 | NA | 20.0 | 10.0 | 04/23/1222:30 | 04/23/1211:30 | JD23033 | JD23030 | PCD018S | NA | 04/23/12 |
| LCD1S | PCD018SC | 243 | 1 | NA | 20.0 | 10.0 | 04/23/1222:51 | 04/23/1211:30 | JD23034 | JD23030 | PCD018S | NA | 04/23/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 21.1 | 10.6 | 04/23/1223:12 | 04/23/1211:30 | JD23035 | JD23030 | PCD018S | 04/18/1209:55 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | ND | 1 | 12.8 | 22.9 | 11.5 | 04/23/1223:54 | 04/23/1211:30 | JD23037 | JD23030 | PCD018S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1 | 12.1 | 22.8 | 11.4 | 04/24/1200:15 | 04/23/1211:30 | JD23038 | JD23030 | PCD018S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | ND | 1 | 12.6 | 22.9 | 11.4 | 04/24/1200:36 | 04/23/1211:30 | JD23039 | JD23030 | PCD018S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 23.0 | 11.5 | 04/24/1201:39 | 04/23/1211:30 | JD23042 | JD23041 | PCD018S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 22.4 | 11.2 | 04/24/1202:00 | 04/23/1211:30 | JD23043 | JD23041 | PCD018S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 22.9 | 11.5 | 04/24/1202:21 | 04/23/1211:30 | JD23044 | JD23041 | PCD018S | 04/18/1211:20 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 5 | 16.0 | 119 | 59.5 | 04/24/1210:44 | 04/23/1211:30 | JD23064 | JD23062 | PCD018S | 04/18/1210:00 | 04/18/12 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD012SB | ND | 1 | NA | 1.00 | 0.500 | 04/25/1215:02 | 04/24/1216:57 | ID25003 | ID25001 | HCD012S | NA | 04/24/12 |
| MBLK1S | HCD012SQ | ND | 1 | NA | 1.00 | 0.500 | 04/25/1215:13 | 04/24/1216:57 | ID25004 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS1S | CID012SL | 337 | 20 | NA | 20.0 | 10.0 | 04/25/1215:44 | 04/24/1216:57 | ID25007 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS1S | CID012SX | 341 | 20 | NA | 20.0 | 10.0 | 04/25/1215:55 | 04/24/1216:57 | ID25008 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS2S | CSD012SL | 8.77 | 1 | NA | 1.00 | 0.500 | 04/25/1219:18 | 04/24/1216:57 | ID25023 | ID25013 | HCD012S | NA | 04/24/12 |
| LCS2S | CSD012SX | 8.57 | 1 | NA | 1.00 | 0.500 | 04/25/1219:28 | 04/24/1216:57 | ID25024 | ID25013 | HCD012S | NA | 04/24/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M | 9.82 ✓ | 1 | 5.3 | 1.06 | 0.528 | 04/25/1216:33 | 04/24/1216:57 | ID25009 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M1 | 9.75 ✓ | 1 | 5.3 | 1.06 | 0.528 | 04/25/1216:44 | 04/24/1216:57 | ID25010 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02G | 470 | 20 | 5.3 | 21.1 | 10.6 | 04/25/1216:54 | 04/24/1216:57 | ID25011 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02G1 | 495 | 20 | 5.3 | 21.1 | 10.6 | 04/25/1217:05 | 04/24/1216:57 | ID25012 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1217:54 | 04/24/1216:57 | ID25015 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02R | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:04 | 04/24/1216:57 | ID25016 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DUP | D166-02D | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:14 | 04/24/1216:57 | ID25017 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DUP | D166-02Z | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:25 | 04/24/1216:57 | ID25018 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 1 | 16.0 | 1.19 | 0.595 | 04/25/1220:30 | 04/24/1216:57 | ID25029 | ID25025 | HCD012S | 04/18/1210:00 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03R | ND | 1 | 16.0 | 1.19 | 0.595 | 04/25/1220:41 | 04/24/1216:57 | ID25030 | ID25025 | HCD012S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | ND | 1 | 12.8 | 1.15 | 0.573 | 04/25/1220:51 | 04/24/1216:57 | ID25031 | ID25025 | HCD012S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04R | ND | 1 | 12.8 | 1.15 | 0.573 | 04/25/1221:02 | 04/24/1216:57 | ID25032 | ID25025 | HCD012S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1 | 12.1 | 1.14 | 0.569 | 04/25/1221:12 | 04/24/1216:57 | ID25033 | ID25025 | HCD012S | 04/18/1210:57 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06R | ND | 1 | 12.1 | 1.14 | 0.569 | 04/25/1221:22 | 04/24/1216:57 | ID25034 | ID25025 | HCD012S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | ND | 1 | 12.6 | 1.14 | 0.572 | 04/25/1221:33 | 04/24/1216:57 | ID25035 | ID25025 | HCD012S | 04/18/1214:06 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07R | ND | 1 | 12.6 | 1.14 | 0.572 | 04/25/1221:43 | 04/24/1216:57 | ID25036 | ID25025 | HCD012S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 1.15 | 0.575 | 04/25/1222:25 | 04/24/1216:57 | ID25039 | ID25037 | HCD012S | 04/18/1215:40 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08R | ND | 1 | 13.0 | 1.15 | 0.575 | 04/25/1222:35 | 04/24/1216:57 | ID25040 | ID25037 | HCD012S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 1.12 | 0.561 | 04/25/1222:46 | 04/24/1216:57 | ID25041 | ID25037 | HCD012S | 04/18/1214:25 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09R | ND | 1 | 10.8 | 1.12 | 0.561 | 04/25/1222:56 | 04/24/1216:57 | ID25042 | ID25037 | HCD012S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 1.15 | 0.573 | 04/25/1223:06 | 04/24/1216:57 | ID25043 | ID25037 | HCD012S | 04/18/1211:20 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10R | ND | 1 | 12.7 | 1.15 | 0.573 | 04/25/1223:17 | 04/24/1216:57 | ID25044 | ID25037 | HCD012S | 04/18/1211:20 | 04/18/12 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CND011SB | ND | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01110 | CND01108 | CND011S | NA | 04/26/12 |
| LCS1S | CND011SL | 2.32 | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01111 | CND01108 | CND011S | NA | 04/26/12 |
| LCD1S | CND011SC | 2.34 | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01112 | CND01108 | CND011S | NA | 04/26/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 0.528 | 0.264 | 04/26/1218:51 | 04/26/1211:30 | CND01116 | CND01108 | CND011S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DUP | D166-02D | ND | 1 | 5.3 | 0.528 | 0.264 | 04/26/1218:51 | 04/26/1211:30 | CND01117 | CND01108 | CND011S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M | 2.25 | 1 | 5.3 | 0.528 | 0.264 | 04/26/1218:51 | 04/26/1211:30 | CND01118 | CND01108 | CND011S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | 0.335J | 1 | 16.0 | 0.595 | 0.298 | 04/26/1218:52 | 04/26/1211:30 | CND01119 | CND01108 | CND011S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | ND | 1 | 12.8 | 0.573 | 0.287 | 04/26/1218:52 | 04/26/1211:30 | CND01122 | CND01120 | CND011S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1 | 12.1 | 0.569 | 0.284 | 04/26/1218:53 | 04/26/1211:30 | CND01123 | CND01120 | CND011S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | ND | 1 | 12.6 | 0.572 | 0.286 | 04/26/1218:53 | 04/26/1211:30 | CND01124 | CND01120 | CND011S | 04/18/1214:06 | 04/18/12 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | 6.55 | 1 | NA | NA | NA | 04/19/1217:45 | 04/19/1217:32 | 12PHD021S08 | PHD021S | PHD021S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | 6.50 | 1 | NA | NA | NA | 04/19/1217:46 | 04/19/1217:32 | 12PHD021S09 | PHD021S | PHD021S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 6.52 | 1 | NA | NA | NA | 04/19/1217:47 | 04/19/1217:32 | 12PHD021S10 | PHD021S | PHD021S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | 6.72 | 1 | NA | NA | NA | 04/19/1217:52 | 04/19/1217:32 | 12PHD021S11 | PHD021S | PHD021S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 6.95 | 1 | NA | NA | NA | 04/19/1217:54 | 04/19/1217:32 | 12PHD021S12 | PHD021S | PHD021S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | 7.19 | 1 | NA | NA | NA | 04/19/1217:55 | 04/19/1217:32 | 12PHD021S13 | PHD021S | PHD021S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | 6.25 | 1 | NA | NA | NA | 04/19/1217:57 | 04/19/1217:32 | 12PHD021S14 | PHD021S | PHD021S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | 6.71 | 1 | NA | NA | NA | 04/19/1217:59 | 04/19/1217:32 | 12PHD021S15 | PHD021S | PHD021S | 04/18/1211:20 | 04/18/12 |

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 30, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/19/2012
Group Number: 1303405
SDG: DE311
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-090-NBZ-SS-0.0-0.5 Soil | 6622559 |
| SL-008-NBZ-SB-4.0-5.0 Soil | 6622560 |
| SL-081-NBZ-SS-0.0-0.5 Soil | 6622561 |
| SL-082-NBZ-SS-0.0-0.5 Soil | 6622562 |
| SL-082-NBZ-SB-2.5-3.5 Soil | 6622563 |
| SL-083-NBZ-SB-0.0-0.5 Soil | 6622564 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| 1 COPY TO | Data Package Group | |

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Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

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# Analysis Report



**Sample Description:** SL-090-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-NBZ-SS

**LLI Sample # SW 6622559**
**LLI Group # 1303405**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 14:12

Submitted: 04/19/2012 09:10
Reported: 04/30/2012 15:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1101 SDG#: DE311-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 198 | U | 198 | 395 | 10 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 710 | U | 710 | 1,800 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.8 | U | 1.8 | 4.1 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.8 | U | 1.8 | 4.1 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.8 | U | 1.8 | 4.1 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 15.6 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 14:38 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14:15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121130004A | 04/25/2012 00:01 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121130004A | 04/23/2012 13:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 17:48 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11:55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12115162401A | 04/24/2012 12:21 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-008-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-NBZ-SB

**LLI Sample # SW 6622560**
**LLI Group # 1303405**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 09:55

Submitted: 04/19/2012 09:10
Reported: 04/30/2012 15:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1102 SDG#: DE311-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 72.8 | | 17.8 | 35.5 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 640 | U | 640 | 1,600 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.6 | U | 1.6 | 3.7 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.6 | U | 1.6 | 3.7 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 6.1 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 14:57 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14:15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121130004A | 04/25/2012 00:11 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121130004A | 04/23/2012 13:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 11:30 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11:55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12115162401A | 04/24/2012 12:21 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-081-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-NBZ-SS

**LLI Sample # SW 6622561**
**LLI Group # 1303405**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 10:00

Submitted: 04/19/2012 09:10
Reported: 04/30/2012 15:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1103 SDG#: DE311-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 198 | U | 198 | 395 | 10 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 710 | U | 710 | 1,800 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.8 | U | 1.8 | 4.1 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.8 | U | 1.8 | 4.1 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.8 | U | 1.8 | 4.1 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 15.7 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 15:16 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14:15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121130004A | 04/25/2012 00:21 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121130004A | 04/23/2012 13:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 16:19 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11:55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12115162401A | 04/24/2012 12:21 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-082-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-NBZ-SS

**LLI Sample # SW 6622562**
**LLI Group # 1303405**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 10:53

Submitted: 04/19/2012 09:10
Reported: 04/30/2012 15:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1104 SDG#: DE311-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 19.2 | U | 19.2 | 38.3 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 690 | U | 690 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 4.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 13.0 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 15:35 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14:15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121130004A | 04/25/2012 00:30 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121130004A | 04/23/2012 13:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 13:21 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11:55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12115162401A | 04/24/2012 12:21 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-082-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-NBZ-SB

**LLI Sample # SW 6622563**
**LLI Group # 1303405**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 10:57

Submitted: 04/19/2012 09:10
Reported: 04/30/2012 15:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1105 SDG#: DE311-05

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 19.0 | U | 19.0 | 38.0 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 680 | U | 680 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 4.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 12.3 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 16:13 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14:15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121130004A | 04/25/2012 00:40 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121130004A | 04/23/2012 13:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 11:52 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11:55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12115162401A | 04/24/2012 12:21 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-083-NBZ-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-NBZ-SB

**LLI Sample # SW 6622564**
**LLI Group # 1303405**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 14:06

Submitted: 04/19/2012 09:10
Reported: 04/30/2012 15:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1106 SDG#: DE311-06*

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 19.2 | U | 19.2 | 38.4 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 690 | U | 690 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 4.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 13.2 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 16:32 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14:15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121130004A | 04/25/2012 00:49 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121130004A | 04/23/2012 13:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 12:37 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11:55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12115162401A | 04/24/2012 12:21 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303405
Reported: 04/30/12 at 03:25 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12116SLA026 | Sample number(s): 6622559-6622564 | | | | | | | | |
| N-Nitrosodimethylamine | 16.7 U | 16.7 | 33.3 | ng/kg | 104 | | 70-130 | | |
| Batch number: 121130004A | Sample number(s): 6622559-6622564 | | | | | | | | |
| 20a Formaldehyde 8315A | 600 U | 600. | 1,500 | ug/kg | 98 | | 80-126 | | |
| Batch number: 121160015A | Sample number(s): 6622559-6622564 | | | | | | | | |
| m-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 98 | | 64-111 | | |
| o-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 94 | | 75-125 | | |
| p-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 98 | | 69-109 | | |
| Batch number: 12115162401A | Sample number(s): 6622559-6622564 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12116SLA026 | Sample number(s): 6622559-6622564 UNSPK: P620874 | | | | | | | | |
| N-Nitrosodimethylamine | 75 | 55* | 70-130 | 31* | 30 | | | | |
| Batch number: 121130004A | Sample number(s): 6622559-6622564 UNSPK: P620874 | | | | | | | | |
| 20a Formaldehyde 8315A | 97 | 85 | 80-120 | 13 | 50 | | | | |
| Batch number: 121160015A | Sample number(s): 6622559-6622564 UNSPK: P620874 | | | | | | | | |
| m-Terphenyl | 95 | 98 | 75-125 | 3 | 20 | | | | |
| o-Terphenyl | 89 | 89 | 75-125 | 0 | 20 | | | | |
| p-Terphenyl | 99 | 102 | 75-125 | 3 | 20 | | | | |
| Batch number: 12115162401A | Sample number(s): 6622559-6622564 BKG: 6622564 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 13.2 | 12.6 | 4 | 20 |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303405
Reported: 04/30/12 at 03:25 PM

## Surrogate Quality Control

Analysis Name: 21a NDMA by 1625C
Batch number: 12116SLA026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6622559 | 155* |
| 6622560 | 135 |
| 6622561 | 161* |
| 6622562 | 155* |
| 6622563 | 139 |
| 6622564 | 183* |
| Blank | 122 |
| LCS | 130 |
| MS | 2046* |
| MSD | 2709* |
| Limits: | 50-150 |

Analysis Name: 20a Formaldehyde 8315A
Batch number: 121130004A

| | Butyraldehyde |
|---|---|
| 6622559 | 92 |
| 6622560 | 91 |
| 6622561 | 91 |
| 6622562 | 89 |
| 6622563 | 84 |
| 6622564 | 90 |
| Blank | 98 |
| LCS | 94 |
| MS | 92 |
| MSD | 93 |
| Limits: | 64-126 |

Analysis Name: 22a Terphenyls by 8015B
Batch number: 121160015A

| | n-Triacontane-d62 |
|---|---|
| 6622559 | 139 |
| 6622560 | 93 |
| 6622561 | 135 |
| 6622562 | 112 |
| 6622563 | 93 |
| 6622564 | 105 |
| Blank | 93 |
| LCS | 94 |
| MS | 191* |
| MSD | 194* |
| Limits: | 19-152 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp#1303405 Sample# G622559-64

# CHAIN OF CUSTODY RECORD

**CDM** | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | PRIMARY ANALYSES *Dioxin/Furan EPA 1613B | SECONDARY ANALYSES **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| SL-090-NBZ-SS-0.0-0.5 | 4.17.12 | 1412 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-147-NBZ-SS-0.0-0.5 | 4.17.12 | 1525 | SOIL | NONE | 1-8 oz Jar | X | | | | |
| SL-008-NBZ-SB-4.0-5.0 | 4.18.12 | 0955 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-081-NBZ-SS-0.0-0.5 | 4.18.12 | 1000 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-082-NBZ-SS-0.0-0.5 | 4.18.12 | 1053 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-082-NBZ-SB-2.5-3.5 | 4.18.12 | 1057 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-083-NBZ-SB-0.0-0.5 | 4.18.12 | 1406 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-189-NBZ-SS-0.0-0.5 | 4.18.12 | 1120 | SOIL | NONE | 1-8 oz Jar | X | | | | |

| Relinquished by: (*Signature*) | Date/Time | Received for Laboratory by: (*Signature*) | Laboratory: |
|---|---|---|---|
| | 4/18/2012 1630 | | Lancaster Laboratories, Inc. |
| **Received by: (*Signature*)** | **Date/Time** | **Airbill No.(s)** | |
| Brandy Bench | 4-19-12 910 | 7.98302E+11 | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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# SAMPLE DELIVERY GROUP

# DE312

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 30, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/20/2012
Group Number: 1303750
SDG: DE312
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-012-NBZ-SS-0.0-0.5 Soil | 6624301 |
| SL-012-NBZ-SB-0.5-1.5 Soil | 6624302 |
| SL-086-NBZ-SS-0.0-0.5 Soil | 6624303 |
| SL-087-NBZ-SS-0.0-0.5 Soil | 6624304 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| 1 COPY TO | Data Package Group | |

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Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-012-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-NBZ-SS

**LLI Sample # SW 6624301**
**LLI Group # 1303750**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 08:46

Submitted: 04/20/2012 09:15
Reported: 04/30/2012 18:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1201 SDG#: DE312-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 197 | U | 197 | 394 | 10 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 710 | U | 710 | 1,800 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.8 | U | 1.8 | 4.1 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.8 | U | 1.8 | 4.1 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.8 | U | 1.8 | 4.1 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 15.5 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 16:50 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14:15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121150002A | 04/27/2012 00:58 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121150002A | 04/24/2012 14:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 12:59 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11:55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12116162401B | 04/25/2012 12:05 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-012-NBZ-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-NBZ-SB

**LLI Sample # SW 6624302**
**LLI Group # 1303750**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 09:25

Submitted: 04/20/2012 09:15
Reported: 04/30/2012 18:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1202 SDG#: DE312-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 19.8 | U | 19.8 | 39.5 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 710 | U | 710 | 1,800 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.8 | U | 1.8 | 4.1 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.8 | U | 1.8 | 4.1 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.8 | U | 1.8 | 4.1 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 15.6 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 17:09 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14:15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121150002A | 04/27/2012 01:36 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121150002A | 04/24/2012 14:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 12:14 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11:55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12116162401B | 04/25/2012 12:05 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-086-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-NBZ-SS

**LLI Sample # SW 6624303**
**LLI Group # 1303750**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:40

Submitted: 04/20/2012 09:15
Reported: 04/30/2012 18:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1203 SDG#: DE312-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 205 | U | 205 | 409 | 10 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 740 | U | 740 | 1,800 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.8 | U | 1.8 | 4.3 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.8 | U | 1.8 | 4.3 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.8 | U | 1.8 | 4.3 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 18.5 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 17:28 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14:15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121150002A | 04/27/2012 01:46 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121150002A | 04/24/2012 14:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 18:55 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11:55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12116162401B | 04/25/2012 12:05 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-087-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-NBZ-SS

**LLI Sample # SW 6624304**
**LLI Group # 1303750**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 10:09

Submitted: 04/20/2012 09:15
Reported: 04/30/2012 18:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1204 SDG#: DE312-04*

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 237 | U | 237 | 475 | 10 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 850 | U | 850 | 2,100 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 2.1 | U | 2.1 | 5.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 2.1 | U | 2.1 | 5.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 2.1 | U | 2.1 | 5.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 29.8 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 17:47 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14:15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121150002A | 04/27/2012 01:55 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121150002A | 04/24/2012 14:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 14:50 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11:55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12116162401B | 04/25/2012 12:05 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303750
Reported: 04/30/12 at 06:13 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12116SLA026 | Sample number(s): 6624301-6624304 | | | | | | | | |
| N-Nitrosodimethylamine | 16.7 U | 16.7 | 33.3 | ng/kg | 104 | | 70-130 | | |
| Batch number: 121150002A | Sample number(s): 6624301-6624304 | | | | | | | | |
| 20a Formaldehyde 8315A | 600 U | 600. | 1,500 | ug/kg | 95 | | 80-126 | | |
| Batch number: 121160015A | Sample number(s): 6624301-6624304 | | | | | | | | |
| m-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 98 | | 64-111 | | |
| o-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 94 | | 75-125 | | |
| p-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 98 | | 69-109 | | |
| Batch number: 12116162401B | Sample number(s): 6624301-6624304 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 99 | | 80-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12116SLA026 | Sample number(s): 6624301-6624304 UNSPK: P620874 | | | | | | | | |
| N-Nitrosodimethylamine | 75 | 55* | 70-130 | 31* | 30 | | | | |
| Batch number: 121150002A | Sample number(s): 6624301-6624304 UNSPK: 6624301 | | | | | | | | |
| 20a Formaldehyde 8315A | 96 | 94 | 80-120 | 3 | 50 | | | | |
| Batch number: 121160015A | Sample number(s): 6624301-6624304 UNSPK: P620874 | | | | | | | | |
| m-Terphenyl | 95 | 98 | 75-125 | 3 | 20 | | | | |
| o-Terphenyl | 89 | 89 | 75-125 | 0 | 20 | | | | |
| p-Terphenyl | 99 | 102 | 75-125 | 3 | 20 | | | | |
| Batch number: 12116162401B | Sample number(s): 6624301-6624304 BKG: 6624302 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 15.6 | 17.5 | 11 | 20 |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303750
Reported: 04/30/12 at 06:13 PM

## Surrogate Quality Control

Analysis Name: 21a NDMA by 1625C
Batch number: 12116SLA026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6624301 | 170* |
| 6624302 | 158* |
| 6624303 | 164* |
| 6624304 | 202* |
| Blank | 122 |
| LCS | 130 |
| MS | 2046* |
| MSD | 2709* |
| Limits: | 50-150 |

Analysis Name: 20a Formaldehyde 8315A
Batch number: 121150002A

| | Butyraldehyde |
|---|---|
| 6624301 | 98 |
| 6624302 | 94 |
| 6624303 | 88 |
| 6624304 | 96 |
| Blank | 96 |
| LCS | 94 |
| MS | 92 |
| MSD | 91 |
| Limits: | 64-126 |

Analysis Name: 22a Terphenyls by 8015B
Batch number: 121160015A

| | n-Triacontane-d62 |
|---|---|
| 6624301 | 158* |
| 6624302 | 98 |
| 6624303 | 116 |
| 6624304 | 101 |
| Blank | 93 |
| LCS | 94 |
| MS | 191* |
| MSD | 194* |
| Limits: | 19-152 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1303750 Sample# 6624301-04

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSIS | SECONDARY ANALYSIS | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C.<br>Samplers Signatures: | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-146-NBZ-SS-0.0-0.5 | 4.18.12 | 1540 | SOIL | NONE | 1- 4 oz Jar | X | | | | |
| SL-160-NBZ-SS-0.0-0.5 | 4.18.12 | 1425 | SOIL | NONE | 1- 4 oz Jar | X | | | | |
| SL-012-NBZ-SS-0.0-0.5 | 4.19.12 | 0846 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-012-NBZ-SB-0.5-1.5 | 4.19.12 | 0925 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-086-NBZ-SS-0.0-0.5 | 4.19.12 | 1140 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-087-NBZ-SS-0.0-0.5 | 4.19.12 | 1009 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-179-NBZ-SS-0.0-0.5 | 4.19.12 | 1110 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-184-NBZ-SS-0.0-0.5 | 4.19.12 | 1005 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-193-NBZ-SS-0.0-0.5MS | 4.19.12 | 1145 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| DUP-08-NBZ-QC-041912 | 4.19.12 | 1150 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| Relinquished by: (*Signature*) | Date/Time<br>4/19/2012 1630 | | Received for Laboratory by: (*Signature*) | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*)<br>Suzette Lehrer | Date/Time<br>4/20/12 0915 | | Airbill No.(s) | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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# SAMPLE DELIVERY GROUP

# DE313

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

May 01, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/21/2012
Group Number: 1303883
SDG: DE313
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-017-NBZ-SS-0.0-0.5 Soil | 6625144 |
| SL-016-NBZ-SS-0.0-0.5 Soil | 6625145 |
| SL-018-NBZ-SS-0.0-0.5 Soil | 6625146 |
| SL-080-NBZ-SS-0.0-0.5 Soil | 6625147 |
| SL-089-NBZ-SS-0.0-0.5 Soil | 6625148 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| 1 COPY TO | Data Package Group | |

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Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

# Analysis Report



**Sample Description:** SL-017-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-NBZ-SS

**LLI Sample # SW 6625144**
**LLI Group # 1303883**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 10:09

Submitted: 04/21/2012 10:00
Reported: 05/01/2012 08:38

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1301 SDG#: DE313-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 240 | U | 240 | 480 | 10 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 860 | U | 860 | 2,200 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 2.2 | U | 2.2 | 5.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 2.2 | U | 2.2 | 5.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 2.2 | U | 2.2 | 5.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 30.6 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 18:06 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14:15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121150002A | 04/27/2012 02:05 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121150002A | 04/24/2012 14:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 19:39 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11:55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12121162401A | 04/30/2012 11:45 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-016-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-NBZ-SS

**LLI Sample # SW 6625145**
**LLI Group # 1303883**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 12:10

Submitted: 04/21/2012 10:00
Reported: 05/01/2012 08:38

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1302 SDG#: DE313-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 209 | U | 209 | 419 | 10 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 750 | U | 750 | 1,900 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.9 | U | 1.9 | 4.4 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.9 | U | 1.9 | 4.4 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.9 | U | 1.9 | 4.4 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 20.4 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 18:25 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14:15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121150002A | 04/27/2012 02:14 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121150002A | 04/24/2012 14:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 13:43 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11:55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12121162401A | 04/30/2012 11:45 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-018-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-NBZ-SS

**LLI Sample # SW 6625146**
**LLI Group # 1303883**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 10:59

Submitted: 04/21/2012 10:00
Reported: 05/01/2012 08:38

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1303 SDG#: DE313-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 209 | U | 209 | 418 | 10 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 750 | U | 750 | 1,900 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.9 | U | 1.9 | 4.4 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.9 | U | 1.9 | 4.4 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.9 | U | 1.9 | 4.4 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 20.3 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 18:44 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14:15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121150002A | 04/27/2012 02:24 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121150002A | 04/24/2012 14:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 20:23 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11:55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12121162401A | 04/30/2012 11:45 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-080-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-NBZ-SS

**LLI Sample # SW 6625147**
**LLI Group # 1303883**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 09:50

Submitted: 04/21/2012 10:00
Reported: 05/01/2012 08:38

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1304 SDG#: DE313-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 188 | U | 188 | 375 | 10 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 670 | U | 670 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 3.9 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 3.9 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.1 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 19:03 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14:15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121150002A | 04/27/2012 02:33 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121150002A | 04/24/2012 14:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 15:35 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11:55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12121162401A | 04/30/2012 11:45 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-089-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-NBZ-SS

**LLI Sample # SW 6625148**
**LLI Group # 1303883**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 12:06

Submitted: 04/21/2012 10:00
Reported: 05/01/2012 08:38

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1305 SDG#: DE313-05*

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 189 | U | 189 | 378 | 10 |
| **HPLC Organics** | **SW-846 8315A** | | **ug/kg** | | **ug/kg** | **ug/kg** | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 680 | U | 680 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | **mg/kg** | | **mg/kg** | **mg/kg** | |
| 10318 | m-Terphenyl | 92-06-8 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1.7 | U | 1.7 | 4.0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1.7 | U | 1.7 | 4.0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | | **%** | **%** | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.8 | | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 19:41 | Matthew S Woods | 10 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14:15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121150002A | 04/27/2012 02:43 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121150002A | 04/24/2012 14:15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 14:06 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11:55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12121162401A | 04/30/2012 11:45 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303883
Reported: 05/01/12 at 08:38 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12116SLA026 | Sample number(s): 6625144-6625148 | | | | | | | | |
| N-Nitrosodimethylamine | 16.7 U | 16.7 | 33.3 | ng/kg | 104 | | 70-130 | | |
| Batch number: 121150002A | Sample number(s): 6625144-6625148 | | | | | | | | |
| 20a Formaldehyde 8315A | 600 U | 600. | 1,500 | ug/kg | 95 | | 80-126 | | |
| Batch number: 121160015A | Sample number(s): 6625144-6625148 | | | | | | | | |
| m-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 98 | | 64-111 | | |
| o-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 94 | | 75-125 | | |
| p-Terphenyl | 1.5 U | 1.5 | 3.5 | mg/kg | 98 | | 69-109 | | |
| Batch number: 12121162401A | Sample number(s): 6625144-6625148 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12116SLA026 | Sample number(s): 6625144-6625148 UNSPK: P620874 | | | | | | | | |
| N-Nitrosodimethylamine | 75 | 55* | 70-130 | 31* | 30 | | | | |
| Batch number: 121150002A | Sample number(s): 6625144-6625148 UNSPK: P624301 | | | | | | | | |
| 20a Formaldehyde 8315A | 96 | 94 | 80-120 | 3 | 50 | | | | |
| Batch number: 121160015A | Sample number(s): 6625144-6625148 UNSPK: P620874 | | | | | | | | |
| m-Terphenyl | 95 | 98 | 75-125 | 3 | 20 | | | | |
| o-Terphenyl | 89 | 89 | 75-125 | 0 | 20 | | | | |
| p-Terphenyl | 99 | 102 | 75-125 | 3 | 20 | | | | |
| Batch number: 12121162401A | Sample number(s): 6625144-6625148 BKG: P625134 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 16.4 | 15.6 | 5 | 20 |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303883
Reported: 05/01/12 at 08:38 AM

## Surrogate Quality Control

Analysis Name: 21a NDMA by 1625C
Batch number: 12116SLA026

| | N-Nitrosodimethylamine-d6 |
|---|---|
| 6625144 | 159* |
| 6625145 | 166* |
| 6625146 | 170* |
| 6625147 | 161* |
| 6625148 | 182* |
| Blank | 122 |
| LCS | 130 |
| MS | 2046* |
| MSD | 2709* |
| Limits: | 50-150 |

Analysis Name: 20a Formaldehyde 8315A
Batch number: 121150002A

| | Butyraldehyde |
|---|---|
| 6625144 | 92 |
| 6625145 | 90 |
| 6625146 | 89 |
| 6625147 | 91 |
| 6625148 | 91 |
| Blank | 96 |
| LCS | 94 |
| MS | 92 |
| MSD | 91 |
| Limits: | 64-126 |

Analysis Name: 22a Terphenyls by 8015B
Batch number: 121160015A

| | n-Triacontane-d62 |
|---|---|
| 6625144 | 137 |
| 6625145 | 119 |
| 6625146 | 182* |
| 6625147 | 335* |
| 6625148 | 107 |
| Blank | 93 |
| LCS | 94 |
| MS | 191* |
| MSD | 194* |
| Limits: | 19-152 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp# 1303883 Sample# 6625144-48

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSIS | SECONDARY ANALYSIS | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | | | | | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| SL-017-NBZ-SS-0.0-0.5 | 4.19.12 | 1009 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-150-NBZ-SS-0.0-0.5 | 4.19.12 | 1535 | SOIL | NONE | 1- 4 oz Jar | X | | | | |
| SL-178-NBZ-SS-0.0-0.5 | 4.19.12 | 1500 | SOIL | NONE | 1- 4 oz Jar | X | | | | |
| SL-016-NBZ-SS-0.0-0.5 | 4.20.12 | 1210 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-018-NBZ-SS-0.0-0.5 | 4.20.12 | 1059 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-080-NBZ-SS-0.0-0.5 | 4.20.12 | 0950 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-089-NBZ-SS-0.0-0.5 | 4.20.12 | 1206 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-170-NBZ-SS-0.0-0.5 | 4.20.12 | 1055 | SOIL | NONE | 1- 4 oz Jar | X | | | | |
| SL-171-NBZ-SS-0.0-0.5 | 4.20.12 | 1325 | SOIL | NONE | 1- 4 oz Jar | X | | | | |
| SL-202-NBZ-SS-0.0-0.5 | 4.20.12 | 1010 | SOIL | NONE | 1- 4 oz Jar | X | | | | |
| Relinquished by: (*Signature*) | Date/Time<br>4/20/2012 1630 | | Received for Laboratory by: (*Signature*) | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time<br>4/21/12 1000 | | Airbill No.(s) | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# DX159

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

March 23, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/14/2012
Group Number: 1295121
SDG: DX159
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-002-NBZ-SS-0.0-0.5 Soil | 6577290 |
| SL-002-NBZ-SB-4.0-5.0 Soil | 6577291 |
| SL-002-NBZ-SB-7.5-8.5 Soil | 6577292 |
| SL-003-NBZ-SS-0.0-0.5 Soil | 6577293 |
| SL-003-NBZ-SB-4.0-5.0 Soil | 6577294 |
| SL-007-NBZ-SB-4.0-5.0 Soil | 6577295 |
| SL-007-NBZ-SB-9.0-10.0 Soil | 6577296 |
| SL-010-NBZ-SB-4.0-5.0 Soil | 6577297 |
| SL-005-NBZ-SB-4.0-5.0 Soil | 6577298 |
| SL-006-NBZ-SB-3.0-4.0 Soil | 6577299 |
| SL-015-NBZ-SS-0.0-0.5 Soil | 6577300 |
| SL-021-NBZ-SS-0.0-0.5 Soil | 6577301 |
| SL-021-NBZ-SB-4.0-5.0 Soil | 6577302 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-002-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-NBZ-SS

**LLI Sample # SW 6577290**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 11:15

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5901 SDG#: DX159-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 3.4 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-002-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-NBZ-SS

**LLI Sample # SW 6577290**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 11:15

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5901 SDG#: DX159-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0322 | U | 0.0322 | 1.03 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0604 | JBQ | 0.0372 | 5.15 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0587 | JB | 0.0363 | 5.15 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.298 | JB | 0.0371 | 5.15 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.365 | JB | 0.0372 | 5.15 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.63 | JB | 0.0353 | 5.15 | 1 |
| 11031 | OCDD | 3268-87-9 | 10.1 | JB | 0.0244 | 10.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.608 | JB | 0.117 | 1.03 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 3.84 | JB | 0.0520 | 5.15 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.400 | JB | 0.0476 | 5.15 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.544 | JB | 0.0308 | 5.15 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.390 | JB | 0.0303 | 5.15 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.132 | JB | 0.0304 | 5.15 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.122 | JBQ | 0.0291 | 5.15 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.473 | JB | 0.0151 | 5.15 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0695 | JB | 0.0207 | 5.15 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.751 | JB | 0.0277 | 10.3 | 1 |

| **Labeled Compounds** | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 86 | 25 - 164 |
| 13C12-12378-PeCDD | 90 | 25 - 181 |
| 13C12-123478-HxCDD | 87 | 32 - 141 |
| 13C12-123678-HxCDD | 86 | 28 - 130 |
| 13C12-123789-HxCDD | 86 | 28 - 130 |
| 13C12-1234678-HpCDD | 86 | 23 - 140 |
| 13C12-OCDD | 79 | 17 - 157 |
| 13C12-2378-TCDF | 83 | 24 - 169 |
| 13C12-12378-PeCDF | 96 | 24 - 185 |
| 13C12-23478-PeCDF | 96 | 21 - 178 |
| 13C12-123478-HxCDF | 89 | 26 - 152 |
| 13C12-123678-HxCDF | 91 | 26 - 123 |
| 13C12-234678-HxCDF | 90 | 28 - 136 |
| 13C12-123789-HxCDF | 96 | 29 - 147 |
| 13C12-1234678-HpCDF | 100 | 28 - 143 |
| 13C12-1234789-HpCDF | 79 | 26 - 138 |
| 13C12-OCDF | 72 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-002-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-NBZ-SS

**LLI Sample # SW 6577290**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 11:15

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5901 SDG#: DX159-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-002-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-NBZ-SS

**LLI Sample # SW 6577290**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 11:15

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5901 SDG#: DX159-01

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12077002 | 03/20/2012 02:02 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12077002 | 03/17/2012 13:45 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401A | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-002-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-NBZ-SB

**LLI Sample # SW 6577291**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 11:30

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5902 SDG#: DX159-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 7.0 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-002-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-NBZ-SB

**LLI Sample # SW 6577291**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 11:30

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5902 SDG#: DX159-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0316 | U | 0.0316 | 1.06 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0339 | U | 0.0339 | 5.32 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0191 | U | 0.0191 | 5.32 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0775 | JB | 0.0212 | 5.32 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0455 | JBQ | 0.0201 | 5.32 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.354 | JB | 0.0227 | 5.32 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.743 | JB | 0.0258 | 10.6 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0267 | U | 0.0267 | 1.06 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0429 | JB | 0.0163 | 5.32 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0775 | JB | 0.0148 | 5.32 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0439 | JBQ | 0.0109 | 5.32 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0238 | JBQ | 0.0112 | 5.32 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0120 | U | 0.0120 | 5.32 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0553 | JBQ | 0.0104 | 5.32 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.125 | JB | 0.00903 | 5.32 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0444 | JBQ | 0.0128 | 5.32 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.131 | JBQ | 0.0281 | 10.6 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 78 | 25 - 164 |
| 13C12-12378-PeCDD | 87 | 25 - 181 |
| 13C12-123478-HxCDD | 85 | 32 - 141 |
| 13C12-123678-HxCDD | 81 | 28 - 130 |
| 13C12-123789-HxCDD | 82 | 28 - 130 |
| 13C12-1234678-HpCDD | 88 | 23 - 140 |
| 13C12-OCDD | 74 | 17 - 157 |
| 13C12-2378-TCDF | 79 | 24 - 169 |
| 13C12-12378-PeCDF | 93 | 24 - 185 |
| 13C12-23478-PeCDF | 93 | 21 - 178 |
| 13C12-123478-HxCDF | 83 | 26 - 152 |
| 13C12-123678-HxCDF | 87 | 26 - 123 |
| 13C12-234678-HxCDF | 83 | 28 - 136 |
| 13C12-123789-HxCDF | 82 | 29 - 147 |
| 13C12-1234678-HpCDF | 99 | 28 - 143 |
| 13C12-1234789-HpCDF | 73 | 26 - 138 |
| 13C12-OCDF | 62 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-002-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-NBZ-SB

**LLI Sample # SW 6577291**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 11:30

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5902 SDG#: DX159-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-002-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-NBZ-SB

**LLI Sample # SW 6577291**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 11:30

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5902 SDG#: DX159-02

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12077002 | 03/20/2012 02:58 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12077002 | 03/17/2012 13:45 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401A | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-002-NBZ-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-NBZ-SB

**LLI Sample # SW 6577292**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 11:40

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5903 SDG#: DX159-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 8.2 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-002-NBZ-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-NBZ-SB

**LLI Sample # SW 6577292**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 11:40

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5903 SDG#: DX159-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0321 JBQ | 0.0267 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0302 JBQ | 0.0280 | 5.44 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0340 JBQ | 0.0215 | 5.44 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0471 JBQ | 0.0236 | 5.44 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0804 JB | 0.0224 | 5.44 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.354 JBQ | 0.0237 | 5.44 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.982 JB | 0.0271 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0319 JB | 0.0275 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0750 JBQ | 0.0146 | 5.44 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0778 JBQ | 0.0133 | 5.44 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0382 JB | 0.0112 | 5.44 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0303 JB | 0.0103 | 5.44 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0413 JBQ | 0.0124 | 5.44 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0296 JBQ | 0.0103 | 5.44 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.127 JB | 0.00893 | 5.44 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0336 JBQ | 0.0138 | 5.44 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.141 JB | 0.0219 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 78 | 25 - 164 |
| 13C12-12378-PeCDD | 81 | 25 - 181 |
| 13C12-123478-HxCDD | 81 | 32 - 141 |
| 13C12-123678-HxCDD | 82 | 28 - 130 |
| 13C12-123789-HxCDD | 81 | 28 - 130 |
| 13C12-1234678-HpCDD | 83 | 23 - 140 |
| 13C12-OCDD | 72 | 17 - 157 |
| 13C12-2378-TCDF | 75 | 24 - 169 |
| 13C12-12378-PeCDF | 87 | 24 - 185 |
| 13C12-23478-PeCDF | 84 | 21 - 178 |
| 13C12-123478-HxCDF | 82 | 26 - 152 |
| 13C12-123678-HxCDF | 87 | 26 - 123 |
| 13C12-234678-HxCDF | 83 | 28 - 136 |
| 13C12-123789-HxCDF | 81 | 29 - 147 |
| 13C12-1234678-HpCDF | 99 | 28 - 143 |
| 13C12-1234789-HpCDF | 71 | 26 - 138 |
| 13C12-OCDF | 61 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-002-NBZ-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-NBZ-SB

**LLI Sample # SW 6577292**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 11:40

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5903 SDG#: DX159-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-002-NBZ-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-NBZ-SB

**LLI Sample # SW 6577292**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 11:40

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5903 SDG#: DX159-03

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12077002 | 03/20/2012 03:55 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12077002 | 03/17/2012 13:45 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401A | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-003-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-NBZ-SS

**LLI Sample # SW 6577293**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 08:50

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5904 SDG#: DX159-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 4.6 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-003-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-NBZ-SS

**LLI Sample # SW 6577293**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 08:50

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5904 SDG#: DX159-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0296 | JB | 0.0256 | 1.04 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0837 | JB | 0.0295 | 5.21 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0672 | JB | 0.0275 | 5.21 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.128 | JB | 0.0290 | 5.21 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.106 | JBQ | 0.0282 | 5.21 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.36 | JB | 0.0276 | 5.21 | 1 |
| 11031 | OCDD | 3268-87-9 | 9.41 | JB | 0.0245 | 10.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0979 | JB | 0.0292 | 1.04 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.207 | JB | 0.0200 | 5.21 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.101 | JBQ | 0.0194 | 5.21 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.156 | JBQ | 0.0182 | 5.21 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0807 | JB | 0.0162 | 5.21 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0589 | JB | 0.0186 | 5.21 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0844 | JBQ | 0.0172 | 5.21 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.379 | JBQ | 0.0132 | 5.21 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0656 | JBQ | 0.0215 | 5.21 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.624 | JB | 0.0268 | 10.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 87 | 25 - 164 |
| 13C12-12378-PeCDD | 84 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 82 | 28 - 130 |
| 13C12-123789-HxCDD | 82 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 69 | 17 - 157 |
| 13C12-2378-TCDF | 83 | 24 - 169 |
| 13C12-12378-PeCDF | 91 | 24 - 185 |
| 13C12-23478-PeCDF | 88 | 21 - 178 |
| 13C12-123478-HxCDF | 82 | 26 - 152 |
| 13C12-123678-HxCDF | 89 | 26 - 123 |
| 13C12-234678-HxCDF | 83 | 28 - 136 |
| 13C12-123789-HxCDF | 86 | 29 - 147 |
| 13C12-1234678-HpCDF | 97 | 28 - 143 |
| 13C12-1234789-HpCDF | 67 | 26 - 138 |
| 13C12-OCDF | 55 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-003-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-NBZ-SS

**LLI Sample # SW 6577293**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 08:50

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5904 SDG#: DX159-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-003-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-NBZ-SS

**LLI Sample # SW 6577293**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 08:50

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5904 SDG#: DX159-04

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12077002 | 03/20/2012 04:51 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12077002 | 03/17/2012 13:45 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401A | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-003-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-NBZ-SB

**LLI Sample # SW 6577294**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 09:50

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5905 SDG#: DX159-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 5.9 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-003-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-NBZ-SB

**LLI Sample # SW 6577294**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 09:50

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5905 SDG#: DX159-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0281 JBQ | 0.0244 | 1.04 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.111 JBQ | 0.0276 | 5.21 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0514 JB | 0.0205 | 5.21 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0387 JBQ | 0.0224 | 5.21 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0880 JBQ | 0.0201 | 5.21 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.258 JBQ | 0.0179 | 5.21 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.555 JB | 0.0218 | 10.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0386 JBQ | 0.0169 | 1.04 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.136 JBQ | 0.0116 | 5.21 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.123 JB | 0.0108 | 5.21 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0954 JB | 0.0124 | 5.21 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0731 JBQ | 0.0116 | 5.21 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0466 JBQ | 0.0109 | 5.21 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0503 JBQ | 0.00935 | 5.21 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.0769 JBQ | 0.00840 | 5.21 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0399 JBQ | 0.0129 | 5.21 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.153 JB | 0.0232 | 10.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 79 | 25 - 164 |
| 13C12-12378-PeCDD | 84 | 25 - 181 |
| 13C12-123478-HxCDD | 81 | 32 - 141 |
| 13C12-123678-HxCDD | 78 | 28 - 130 |
| 13C12-123789-HxCDD | 80 | 28 - 130 |
| 13C12-1234678-HpCDD | 83 | 23 - 140 |
| 13C12-OCDD | 70 | 17 - 157 |
| 13C12-2378-TCDF | 76 | 24 - 169 |
| 13C12-12378-PeCDF | 90 | 24 - 185 |
| 13C12-23478-PeCDF | 85 | 21 - 178 |
| 13C12-123478-HxCDF | 62 | 26 - 152 |
| 13C12-123678-HxCDF | 70 | 26 - 123 |
| 13C12-234678-HxCDF | 81 | 28 - 136 |
| 13C12-123789-HxCDF | 76 | 29 - 147 |
| 13C12-1234678-HpCDF | 90 | 28 - 143 |
| 13C12-1234789-HpCDF | 63 | 26 - 138 |
| 13C12-OCDF | 47 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-003-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-NBZ-SB

**LLI Sample # SW 6577294**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 09:50

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5905 SDG#: DX159-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-003-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-NBZ-SB

**LLI Sample # SW 6577294**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 09:50

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5905 SDG#: DX159-05

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12077002 | 03/20/2012 05:48 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12077002 | 03/17/2012 13:45 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401A | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-007-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-NBZ-SB

**LLI Sample # SW 6577295**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 15:50

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5906 SDG#: DX159-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 8.0 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-007-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-NBZ-SB

**LLI Sample # SW 6577295**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 15:50

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5906 SDG#: DX159-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0232 U | 0.0232 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0448 JBQ | 0.0259 | 5.43 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0192 U | 0.0192 | 5.43 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0394 JB | 0.0205 | 5.43 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0710 JB | 0.0184 | 5.43 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.310 JBQ | 0.0233 | 5.43 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.590 JB | 0.0272 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0279 JB | 0.0196 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0384 JBQ | 0.0128 | 5.43 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0835 JBQ | 0.0126 | 5.43 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0301 JBQ | 0.0112 | 5.43 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0359 JBQ | 0.0109 | 5.43 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0308 JBQ | 0.0122 | 5.43 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0498 JB | 0.0107 | 5.43 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.0708 JB | 0.00804 | 5.43 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0134 U | 0.0134 | 5.43 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.231 JB | 0.0286 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 80 | 25 - 164 |
| 13C12-12378-PeCDD | 82 | 25 - 181 |
| 13C12-123478-HxCDD | 82 | 32 - 141 |
| 13C12-123678-HxCDD | 80 | 28 - 130 |
| 13C12-123789-HxCDD | 82 | 28 - 130 |
| 13C12-1234678-HpCDD | 83 | 23 - 140 |
| 13C12-OCDD | 70 | 17 - 157 |
| 13C12-2378-TCDF | 77 | 24 - 169 |
| 13C12-12378-PeCDF | 88 | 24 - 185 |
| 13C12-23478-PeCDF | 84 | 21 - 178 |
| 13C12-123478-HxCDF | 81 | 26 - 152 |
| 13C12-123678-HxCDF | 87 | 26 - 123 |
| 13C12-234678-HxCDF | 81 | 28 - 136 |
| 13C12-123789-HxCDF | 80 | 29 - 147 |
| 13C12-1234678-HpCDF | 103 | 28 - 143 |
| 13C12-1234789-HpCDF | 68 | 26 - 138 |
| 13C12-OCDF | 55 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-007-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-NBZ-SB

**LLI Sample # SW 6577295**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 15:50

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5906 SDG#: DX159-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-007-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-NBZ-SB

**LLI Sample # SW 6577295**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 15:50

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5906 SDG#: DX159-06

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12077002 | 03/20/2012 06:45 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12077002 | 03/17/2012 13:45 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401B | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-007-NBZ-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-NBZ-SB

**LLI Sample # SW 6577296**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 16:00

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5907 SDG#: DX159-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 8.8 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-007-NBZ-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-NBZ-SB

**LLI Sample # SW 6577296**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 16:00

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5907 SDG#: DX159-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0255 U | 0.0255 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0248 U | 0.0248 | 5.46 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0236 JBQ | 0.0192 | 5.46 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0391 JB | 0.0206 | 5.46 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0498 JBQ | 0.0202 | 5.46 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.316 JBQ | 0.0229 | 5.46 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.753 JB | 0.0243 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0229 U | 0.0229 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0412 JBQ | 0.0133 | 5.46 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0772 JB | 0.0124 | 5.46 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0398 JBQ | 0.0106 | 5.46 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0257 JBQ | 0.00976 | 5.46 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0556 JBQ | 0.0116 | 5.46 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0240 JBQ | 0.00998 | 5.46 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.0763 JB | 0.00713 | 5.46 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0183 JBQ | 0.0134 | 5.46 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.163 JB | 0.0251 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 75 | 25 - 164 |
| 13C12-12378-PeCDD | 81 | 25 - 181 |
| 13C12-123478-HxCDD | 79 | 32 - 141 |
| 13C12-123678-HxCDD | 80 | 28 - 130 |
| 13C12-123789-HxCDD | 79 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 70 | 17 - 157 |
| 13C12-2378-TCDF | 72 | 24 - 169 |
| 13C12-12378-PeCDF | 88 | 24 - 185 |
| 13C12-23478-PeCDF | 85 | 21 - 178 |
| 13C12-123478-HxCDF | 78 | 26 - 152 |
| 13C12-123678-HxCDF | 84 | 26 - 123 |
| 13C12-234678-HxCDF | 79 | 28 - 136 |
| 13C12-123789-HxCDF | 80 | 29 - 147 |
| 13C12-1234678-HpCDF | 107 | 28 - 143 |
| 13C12-1234789-HpCDF | 66 | 26 - 138 |
| 13C12-OCDF | 52 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-007-NBZ-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-NBZ-SB

**LLI Sample # SW 6577296**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 16:00

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5907 SDG#: DX159-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-007-NBZ-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-NBZ-SB

**LLI Sample # SW 6577296**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 16:00

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5907 SDG#: DX159-07

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12077002 | 03/20/2012 07:41 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12077002 | 03/17/2012 13:45 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401B | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-010-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-NBZ-SB

**LLI Sample # SW 6577297**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 14:26

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5908 SDG#: DX159-08

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 6.3 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-010-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-NBZ-SB

**LLI Sample # SW 6577297**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 14:26

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5908 SDG#: DX159-08

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0223 U | 0.0223 | 1.04 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.109 JBQ | 0.0237 | 5.22 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0596 JBQ | 0.0176 | 5.22 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0420 JBQ | 0.0190 | 5.22 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0175 U | 0.0175 | 5.22 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.325 JB | 0.0220 | 5.22 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.678 JB | 0.0225 | 10.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0442 JBQ | 0.0219 | 1.04 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.111 JB | 0.0129 | 5.22 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.121 JB | 0.0123 | 5.22 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0614 JBQ | 0.0102 | 5.22 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0765 JBQ | 0.00961 | 5.22 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0650 JBQ | 0.0110 | 5.22 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0768 JBQ | 0.00961 | 5.22 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.101 JBQ | 0.00758 | 5.22 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0405 JBQ | 0.0149 | 5.22 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.119 JB | 0.0306 | 10.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 94 | 25 - 164 |
| 13C12-12378-PeCDD | 97 | 25 - 181 |
| 13C12-123478-HxCDD | 96 | 32 - 141 |
| 13C12-123678-HxCDD | 93 | 28 - 130 |
| 13C12-123789-HxCDD | 95 | 28 - 130 |
| 13C12-1234678-HpCDD | 94 | 23 - 140 |
| 13C12-OCDD | 81 | 17 - 157 |
| 13C12-2378-TCDF | 87 | 24 - 169 |
| 13C12-12378-PeCDF | 104 | 24 - 185 |
| 13C12-23478-PeCDF | 99 | 21 - 178 |
| 13C12-123478-HxCDF | 91 | 26 - 152 |
| 13C12-123678-HxCDF | 101 | 26 - 123 |
| 13C12-234678-HxCDF | 93 | 28 - 136 |
| 13C12-123789-HxCDF | 90 | 29 - 147 |
| 13C12-1234678-HpCDF | 124 | 28 - 143 |
| 13C12-1234789-HpCDF | 70 | 26 - 138 |
| 13C12-OCDF | 55 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-010-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-NBZ-SB

**LLI Sample # SW 6577297**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 14:26

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5908 SDG#: DX159-08

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-010-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-NBZ-SB

**LLI Sample # SW 6577297**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/12/2012 14:26

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5908 SDG#: DX159-08

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12077002 | 03/20/2012 08:38 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12077002 | 03/17/2012 13:45 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401B | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-005-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-NBZ-SB

**LLI Sample # SW 6577298**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 10:25

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5909 SDG#: DX159-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 9.1 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-005-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-NBZ-SB

**LLI Sample # SW 6577298**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 10:25

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5909 SDG#: DX159-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0398 JBQ | 0.0231 | 1.08 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.138 JB | 0.0231 | 5.42 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0621 JB | 0.0221 | 5.42 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.124 JB | 0.0242 | 5.42 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0983 JBQ | 0.0223 | 5.42 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.340 JB | 0.0235 | 5.42 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.633 JBQ | 0.0245 | 10.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0291 JB | 0.0210 | 1.08 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.152 JB | 0.0131 | 5.42 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.164 JBQ | 0.0129 | 5.42 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.103 JB | 0.0132 | 5.42 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0799 JB | 0.0119 | 5.42 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.110 JB | 0.0143 | 5.42 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0865 JB | 0.0120 | 5.42 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.129 JB | 0.00847 | 5.42 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0524 JBQ | 0.0173 | 5.42 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.221 JBQ | 0.0349 | 10.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 83 | 25 - 164 |
| 13C12-12378-PeCDD | 85 | 25 - 181 |
| 13C12-123478-HxCDD | 85 | 32 - 141 |
| 13C12-123678-HxCDD | 81 | 28 - 130 |
| 13C12-123789-HxCDD | 83 | 28 - 130 |
| 13C12-1234678-HpCDD | 78 | 23 - 140 |
| 13C12-OCDD | 68 | 17 - 157 |
| 13C12-2378-TCDF | 78 | 24 - 169 |
| 13C12-12378-PeCDF | 93 | 24 - 185 |
| 13C12-23478-PeCDF | 88 | 21 - 178 |
| 13C12-123478-HxCDF | 82 | 26 - 152 |
| 13C12-123678-HxCDF | 90 | 26 - 123 |
| 13C12-234678-HxCDF | 83 | 28 - 136 |
| 13C12-123789-HxCDF | 80 | 29 - 147 |
| 13C12-1234678-HpCDF | 104 | 28 - 143 |
| 13C12-1234789-HpCDF | 58 | 26 - 138 |
| 13C12-OCDF | 43 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-005-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-NBZ-SB

**LLI Sample # SW 6577298**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 10:25

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5909 SDG#: DX159-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-005-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-NBZ-SB

**LLI Sample # SW 6577298**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 10:25

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5909 SDG#: DX159-09

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12077002 | 03/20/2012 12:37 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12077002 | 03/17/2012 13:45 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401B | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-006-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-NBZ-SB

**LLI Sample # SW 6577299**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 09:00

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5910 SDG#: DX159-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 6.8 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-006-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-NBZ-SB

**LLI Sample # SW 6577299**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 09:00

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5910 SDG#: DX159-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0264 JBQ | 0.0227 | 1.07 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0291 JBQ | 0.0280 | 5.36 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0260 JBQ | 0.0177 | 5.36 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0410 JBQ | 0.0193 | 5.36 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0502 JBQ | 0.0185 | 5.36 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.254 JB | 0.0217 | 5.36 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.571 JB | 0.0280 | 10.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0313 JB | 0.0214 | 1.07 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0216 JB | 0.0137 | 5.36 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0624 JBQ | 0.0130 | 5.36 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0428 JBQ | 0.0102 | 5.36 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0203 JBQ | 0.00901 | 5.36 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0366 JB | 0.0112 | 5.36 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0357 JBQ | 0.00912 | 5.36 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.0943 JB | 0.00815 | 5.36 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0404 JB | 0.0146 | 5.36 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.176 JBQ | 0.0225 | 10.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 80 | 25 - 164 |
| 13C12-12378-PeCDD | 83 | 25 - 181 |
| 13C12-123478-HxCDD | 82 | 32 - 141 |
| 13C12-123678-HxCDD | 83 | 28 - 130 |
| 13C12-123789-HxCDD | 83 | 28 - 130 |
| 13C12-1234678-HpCDD | 79 | 23 - 140 |
| 13C12-OCDD | 70 | 17 - 157 |
| 13C12-2378-TCDF | 77 | 24 - 169 |
| 13C12-12378-PeCDF | 91 | 24 - 185 |
| 13C12-23478-PeCDF | 85 | 21 - 178 |
| 13C12-123478-HxCDF | 80 | 26 - 152 |
| 13C12-123678-HxCDF | 89 | 26 - 123 |
| 13C12-234678-HxCDF | 82 | 28 - 136 |
| 13C12-123789-HxCDF | 79 | 29 - 147 |
| 13C12-1234678-HpCDF | 104 | 28 - 143 |
| 13C12-1234789-HpCDF | 65 | 26 - 138 |
| 13C12-OCDF | 54 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-006-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-NBZ-SB

**LLI Sample # SW 6577299**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 09:00

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5910 SDG#: DX159-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-006-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-NBZ-SB

**LLI Sample # SW 6577299**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 09:00

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5910 SDG#: DX159-10

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12077002 | 03/20/2012 13:34 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12077002 | 03/17/2012 13:45 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401B | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-015-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-NBZ-SS

**LLI Sample # SW 6577300**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 11:30

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5911 SDG#: DX159-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 1.5 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-015-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-NBZ-SS

**LLI Sample # SW 6577300**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 11:30

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5911 SDG#: DX159-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0338 JBQ | 0.0227 | 1.00 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0262 U | 0.0262 | 5.01 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0677 JBQ | 0.0271 | 5.01 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.167 JB | 0.0295 | 5.01 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.173 JBQ | 0.0272 | 5.01 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.88 JB | 0.0303 | 5.01 | 1 |
| 11031 | OCDD | 3268-87-9 | 20.3 B | 0.0288 | 10.0 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0420 JBQ | 0.0339 | 1.00 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0925 JBQ | 0.0182 | 5.01 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0785 JBQ | 0.0181 | 5.01 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.117 JBQ | 0.0196 | 5.01 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0632 JBQ | 0.0175 | 5.01 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0481 JBQ | 0.0220 | 5.01 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0736 JBQ | 0.0179 | 5.01 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.414 JB | 0.0109 | 5.01 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0985 JBQ | 0.0237 | 5.01 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.826 JB | 0.0395 | 10.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 86 | 25 - 164 |
| 13C12-12378-PeCDD | 89 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 84 | 28 - 130 |
| 13C12-123789-HxCDD | 84 | 28 - 130 |
| 13C12-1234678-HpCDD | 83 | 23 - 140 |
| 13C12-OCDD | 71 | 17 - 157 |
| 13C12-2378-TCDF | 81 | 24 - 169 |
| 13C12-12378-PeCDF | 97 | 24 - 185 |
| 13C12-23478-PeCDF | 89 | 21 - 178 |
| 13C12-123478-HxCDF | 83 | 26 - 152 |
| 13C12-123678-HxCDF | 93 | 26 - 123 |
| 13C12-234678-HxCDF | 85 | 28 - 136 |
| 13C12-123789-HxCDF | 80 | 29 - 147 |
| 13C12-1234678-HpCDF | 115 | 28 - 143 |
| 13C12-1234789-HpCDF | 59 | 26 - 138 |
| 13C12-OCDF | 43 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-015-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-NBZ-SS

**LLI Sample # SW 6577300**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 11:30

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5911 SDG#: DX159-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-015-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-NBZ-SS

**LLI Sample # SW 6577300**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 11:30

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5911 SDG#: DX159-11

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12077002 | 03/20/2012 14:30 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12077002 | 03/17/2012 13:45 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401B | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-021-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-NBZ-SS

**LLI Sample # SW 6577301**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 15:30

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5912 SDG#: DX159-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 2.7 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-021-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-NBZ-SS

**LLI Sample # SW 6577301**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 15:30

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5912 SDG#: DX159-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0245 U | 0.0245 | 1.02 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0611 JBQ | 0.0249 | 5.11 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0843 JBQ | 0.0276 | 5.11 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.128 JB | 0.0299 | 5.11 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.184 JB | 0.0287 | 5.11 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.43 JB | 0.0358 | 5.11 | 1 |
| 11031 | OCDD | 3268-87-9 | 17.5 B | 0.0320 | 10.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0573 JBQ | 0.0279 | 1.02 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0875 JB | 0.0195 | 5.11 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.107 JBQ | 0.0186 | 5.11 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0992 JB | 0.0184 | 5.11 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0715 JBQ | 0.0180 | 5.11 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0198 U | 0.0198 | 5.11 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0895 JB | 0.0177 | 5.11 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.593 JB | 0.0127 | 5.11 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0794 JB | 0.0220 | 5.11 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.27 JB | 0.0353 | 10.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 81 | 25 - 164 |
| 13C12-12378-PeCDD | 82 | 25 - 181 |
| 13C12-123478-HxCDD | 81 | 32 - 141 |
| 13C12-123678-HxCDD | 78 | 28 - 130 |
| 13C12-123789-HxCDD | 77 | 28 - 130 |
| 13C12-1234678-HpCDD | 77 | 23 - 140 |
| 13C12-OCDD | 68 | 17 - 157 |
| 13C12-2378-TCDF | 76 | 24 - 169 |
| 13C12-12378-PeCDF | 87 | 24 - 185 |
| 13C12-23478-PeCDF | 84 | 21 - 178 |
| 13C12-123478-HxCDF | 78 | 26 - 152 |
| 13C12-123678-HxCDF | 83 | 26 - 123 |
| 13C12-234678-HxCDF | 79 | 28 - 136 |
| 13C12-123789-HxCDF | 78 | 29 - 147 |
| 13C12-1234678-HpCDF | 95 | 28 - 143 |
| 13C12-1234789-HpCDF | 62 | 26 - 138 |
| 13C12-OCDF | 50 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-021-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-NBZ-SS

**LLI Sample # SW 6577301**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 15:30

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5912 SDG#: DX159-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-021-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-NBZ-SS

**LLI Sample # SW 6577301**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 15:30

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5912 SDG#: DX159-12

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12077002 | 03/20/2012 15:27 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12077002 | 03/17/2012 13:45 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401B | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-021-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-NBZ-SB

**LLI Sample # SW 6577302**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 15:45

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5913 SDG#: DX159-13*

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 3.9 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-021-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-NBZ-SB

**LLI Sample # SW 6577302**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 15:45

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5913 SDG#: DX159-13*

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0374 JBQ | 0.0197 | 1.01 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0518 JB | 0.0213 | 5.07 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0326 JBQ | 0.0153 | 5.07 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0434 JBQ | 0.0156 | 5.07 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0420 JBQ | 0.0153 | 5.07 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.259 JB | 0.0171 | 5.07 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.576 JB | 0.0248 | 10.1 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0161 U | 0.0161 | 1.01 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.106 JB | 0.0110 | 5.07 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.114 JBQ | 0.0105 | 5.07 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0494 JBQ | 0.00947 | 5.07 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0556 JB | 0.00864 | 5.07 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0245 JBQ | 0.0104 | 5.07 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0368 JBQ | 0.00905 | 5.07 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.101 JB | 0.00708 | 5.07 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0302 JBQ | 0.0130 | 5.07 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.168 JB | 0.0237 | 10.1 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 79 | 25 - 164 |
| 13C12-12378-PeCDD | 86 | 25 - 181 |
| 13C12-123478-HxCDD | 85 | 32 - 141 |
| 13C12-123678-HxCDD | 83 | 28 - 130 |
| 13C12-123789-HxCDD | 85 | 28 - 130 |
| 13C12-1234678-HpCDD | 85 | 23 - 140 |
| 13C12-OCDD | 72 | 17 - 157 |
| 13C12-2378-TCDF | 76 | 24 - 169 |
| 13C12-12378-PeCDF | 91 | 24 - 185 |
| 13C12-23478-PeCDF | 88 | 21 - 178 |
| 13C12-123478-HxCDF | 83 | 26 - 152 |
| 13C12-123678-HxCDF | 90 | 26 - 123 |
| 13C12-234678-HxCDF | 84 | 28 - 136 |
| 13C12-123789-HxCDF | 80 | 29 - 147 |
| 13C12-1234678-HpCDF | 108 | 28 - 143 |
| 13C12-1234789-HpCDF | 64 | 26 - 138 |
| 13C12-OCDF | 48 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-021-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-NBZ-SB

**LLI Sample # SW 6577302**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 15:45

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5913 SDG#: DX159-13*

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-021-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-NBZ-SB

**LLI Sample # SW 6577302**
**LLI Group # 1295121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 15:45

Submitted: 03/14/2012 09:25
Reported: 03/23/2012 09:11

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X5913 SDG#: DX159-13*

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12077002 | 03/20/2012 16:23 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12077002 | 03/17/2012 13:45 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162401B | 03/22/2012 18:21 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1295121
Reported: 03/23/12 at 09:11 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12082162401A | Sample number(s): 6577290-6577294 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Batch number: 12082162401B | Sample number(s): 6577295-6577302 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12077002 | Sample number(s): 6577290-6577302 | | | | | | | | |
| 2378-TCDD | 0.0271 J | 0.0231 | 1.00 | ng/kg | 92 | | 67-158 | | |
| 12378-PeCDD | 0.0531 J | 0.0274 | 5.00 | ng/kg | 94 | | 70-142 | | |
| 123478-HxCDD | 0.0320 J | 0.0228 | 5.00 | ng/kg | 92 | | 70-164 | | |
| 123678-HxCDD | 0.0336 J | 0.0229 | 5.00 | ng/kg | 90 | | 76-134 | | |
| 123789-HxCDD | 0.0362 J | 0.0235 | 5.00 | ng/kg | 97 | | 64-162 | | |
| 1234678-HpCDD | 0.357 J | 0.0266 | 5.00 | ng/kg | 94 | | 70-140 | | |
| OCDD | 1.25 J | 0.0263 | 10.0 | ng/kg | 90 | | 78-144 | | |
| 2378-TCDF | 0.0304 J | 0.0246 | 1.00 | ng/kg | 91 | | 75-158 | | |
| 12378-PeCDF | 0.0381 J | 0.0164 | 5.00 | ng/kg | 95 | | 80-134 | | |
| 23478-PeCDF | 0.0452 J | 0.0153 | 5.00 | ng/kg | 89 | | 68-160 | | |
| 123478-HxCDF | 0.0427 J | 0.0135 | 5.00 | ng/kg | 88 | | 72-134 | | |
| 123678-HxCDF | 0.0334 J | 0.0120 | 5.00 | ng/kg | 89 | | 84-130 | | |
| 123789-HxCDF | 0.0258 J | 0.0128 | 5.00 | ng/kg | 89 | | 78-130 | | |
| 234678-HxCDF | 0.0429 J | 0.0121 | 5.00 | ng/kg | 86 | | 70-156 | | |
| 1234678-HpCDF | 0.113 J | 0.00930 | 5.00 | ng/kg | 84 | | 82-122 | | |
| 1234789-HpCDF | 0.0388 J | 0.0155 | 5.00 | ng/kg | 87 | | 78-138 | | |
| OCDF | 0.149 J | 0.0270 | 10.0 | ng/kg | 86 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12082162401A | Sample number(s): 6577290-6577294 | | | | | BKG: P577276 | | | |
| Moisture Content by 160.3 | | | | | | 7.0 | 7.0 | 0 | 20 |
| Batch number: 12082162401B | Sample number(s): 6577295-6577302 | | | | | BKG: P577280 | | | |
| Moisture Content by 160.3 | | | | | | 8.0 | 8.0 | 1 | 20 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1295121
Reported: 03/23/12 at 09:11 AM

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12077002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6577290 | 86 | 96 | 89 | 91 | 90 | 96 |
| 6577291 | 78 | 93 | 83 | 87 | 83 | 82 |
| 6577292 | 78 | 84 | 82 | 87 | 83 | 81 |
| 6577293 | 87 | 88 | 82 | 89 | 83 | 86 |
| 6577294 | 79 | 85 | 62 | 70 | 81 | 76 |
| 6577295 | 80 | 84 | 81 | 87 | 81 | 80 |
| 6577296 | 75 | 85 | 78 | 84 | 79 | 80 |
| 6577297 | 94 | 99 | 91 | 101 | 93 | 90 |
| 6577298 | 83 | 88 | 82 | 90 | 83 | 80 |
| 6577299 | 80 | 85 | 80 | 89 | 82 | 79 |
| 6577300 | 86 | 89 | 83 | 93 | 85 | 80 |
| 6577301 | 81 | 84 | 78 | 83 | 79 | 78 |
| 6577302 | 79 | 88 | 83 | 90 | 84 | 80 |
| Blank | 92 | 96 | 92 | 98 | 94 | 102 |
| OPR | 79 | 84 | 83 | 88 | 83 | 91 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6577290 | 100 | 79 | 72 | 90 | 87 | 86 |
| 6577291 | 99 | 73 | 62 | 87 | 85 | 81 |
| 6577292 | 99 | 71 | 61 | 81 | 81 | 82 |
| 6577293 | 97 | 67 | 55 | 84 | 83 | 82 |
| 6577294 | 90 | 63 | 47 | 84 | 81 | 78 |
| 6577295 | 103 | 68 | 55 | 82 | 82 | 80 |
| 6577296 | 107 | 66 | 52 | 81 | 79 | 80 |
| 6577297 | 124 | 70 | 55 | 97 | 96 | 93 |
| 6577298 | 104 | 58 | 43 | 85 | 85 | 81 |
| 6577299 | 104 | 65 | 54 | 83 | 82 | 83 |
| 6577300 | 115 | 59 | 43 | 89 | 84 | 84 |
| 6577301 | 95 | 62 | 50 | 82 | 81 | 78 |
| 6577302 | 108 | 64 | 48 | 86 | 85 | 83 |
| Blank | 120 | 80 | 69 | 92 | 93 | 93 |
| OPR | 104 | 76 | 67 | 79 | 82 | 84 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6577290 | 86 | 86 | 79 | 83 | 96 |
| 6577291 | 82 | 88 | 74 | 79 | 93 |
| 6577292 | 81 | 83 | 72 | 75 | 87 |
| 6577293 | 82 | 82 | 69 | 83 | 91 |
| 6577294 | 80 | 83 | 70 | 76 | 90 |
| 6577295 | 82 | 83 | 70 | 77 | 88 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1295121
Reported: 03/23/12 at 09:11 AM

## Surrogate Quality Control

| | | | | | |
|---|---|---|---|---|---|
| 6577296 | 79 | 82 | 70 | 72 | 88 |
| 6577297 | 95 | 94 | 81 | 87 | 104 |
| 6577298 | 83 | 78 | 68 | 78 | 93 |
| 6577299 | 83 | 79 | 70 | 77 | 91 |
| 6577300 | 84 | 83 | 71 | 81 | 97 |
| 6577301 | 77 | 77 | 68 | 76 | 87 |
| 6577302 | 85 | 85 | 72 | 76 | 91 |
| Blank | 91 | 92 | 84 | 85 | 100 |
| OPR | 84 | 85 | 81 | 76 | 85 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1295121 Sample# 6577290-302

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSES | | SECONDARY ANALYSES | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-002-NBZ-SS-0.0-0.5 | 3.12.12 | 1115 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-002-NBZ-SB-4.0-5.0 | 3.12.12 | 1130 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-002-NBZ-SB-7.5-8.5 | 3.12.12 | 1140 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-003-NBZ-SS-0.0-0.5 | 3.12.12 | 0850 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-003-NBZ-SB-4.0-5.0 | 3.12.12 | 0950 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-007-NBZ-SB-4.0-5.0 | 3.12.12 | 1550 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-007-NBZ-SB-9.0-10.0 | 3.12.12 | 1600 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-010-NBZ-SB-4.0-5.0 | 3.12.12 | 1426 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-005-NBZ-SB-4.0-5.0 | 3.13.12 | 1025 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-006-NBZ-SB-3.0-4.0 | 3.13.12 | 0900 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-015-NBZ-SS-0.0-0.5 | 3.13.12 | 1130 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-021-NBZ-SS-0.0-0.5 | 3.13.12 | 1530 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-021-NBZ-SB-4.0-5.0 | 3.13.12 | 1545 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| Relinquished by: (*Signature*) | Date/Time<br>3/13/2012 / 1630 | | Received for Laboratory by: (*Signature*) | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*)<br>Brandy Burk | Date/Time<br>3-14-12<br>925 | | Airbill No.(s)<br>8767 9858 7560 | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# DX160

**NBZ – Data Package Amendment**
**SDG DX160**
**6-17-13**

During the database check, an inconsistency in sample identification was discovered that needed to be corrected. They are listed below:

- Method 1613B results were removed from sample SL-058-NBZ-SS-0.0-0.5.
- The Method 1613B results removed from sample SL058-NBZ-SS-0.0-0.5 were added to sample SL-058-NBZ-SS-4.0-5.0.

All changes have been documented and verified by the field personnel and data group.

Pam Hartman
Catherine Love
Cherie Zakowski

SB 4.0-5.0 CZ 6/18/13



Sample Description: SL-058-NBZ-~~SS-0 0-0.5~~ Soil
SSFL Area IV Collocated Soil Sampling
SL-058-NBZ-SS

LLI Sample # SW 6580746
LLI Group # 1295745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/15/2012 11:30

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6013 SDG#: DX160-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0142 JBQ | 0.0141 | 1.03 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0314 JBQ | 0.0169 | 5.16 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0281 JBQ | 0.0132 | 5.16 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0470 JBQ | 0.0142 | 5.16 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0505 JB | 0.0132 | 5.16 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.297 JB | 0.0147 | 5.16 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.645 JB | 0.0129 | 10.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0148 J | 0.0148 | 1.03 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0473 JBQ | 0.0108 | 5.16 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0502 JBQ | 0.0108 | 5.16 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0649 JBQ | 0.0105 | 5.16 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0484 JBQ | 0.00992 | 5.16 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0427 JBQ | 0.0125 | 5.16 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0606 JBQ | 0.00971 | 5.16 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.174 JB | 0.0103 | 5.16 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0334 JBQ | 0.0164 | 5.16 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.161 JB | 0.0190 | 10.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 86 | 25 - 164 |
| 13C12-12378-PeCDD | 85 | 25 - 181 |
| 13C12-123478-HxCDD | 95 | 32 - 141 |
| 13C12-123678-HxCDD | 92 | 28 - 130 |
| 13C12-123789-HxCDD | 93 | 28 - 130 |
| 13C12-1234678-HpCDD | 93 | 23 - 140 |
| 13C12-OCDD | 76 | 17 - 157 |
| 13C12-2378-TCDF | 73 | 24 - 169 |
| 13C12-12378-PeCDF | 82 | 24 - 185 |
| 13C12-23478-PeCDF | 75 | 21 - 178 |
| 13C12-123478-HxCDF | 75 | 26 - 152 |
| 13C12-123678-HxCDF | 85 | 26 - 123 |
| 13C12-234678-HxCDF | 79 | 28 - 136 |
| 13C12-123789-HxCDF | 72 | 29 - 147 |
| 13C12-1234678-HpCDF | 92 | 28 - 143 |
| 13C12-1234789-HpCDF | 64 | 26 - 138 |
| 13C12-OCDF | 56 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 04, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/16/2012
Group Number: 1295745
SDG: DX160
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-019-NBZ-SB-3.0-4.0 Soil | 6580734 |
| SL-019-NBZ-SS-0.0-0.5 Soil | 6580735 |
| SL-022-NBZ-SB-4.0-5.0 Soil | 6580736 |
| SL-022-NBZ-SB-9.0-10.0 Soil | 6580737 |
| SL-023-NBZ-SB-4.0-5.0 Soil | 6580738 |
| SL-023-NBZ-SB-8.5-9.5 Soil | 6580739 |
| SL-022-NBZ-SS-0.0-0.5 Soil | 6580740 |
| SL-023-NBZ-SS-0.0-0.5 Soil | 6580741 |
| SL-024-NBZ-SS-0.0-0.5 Soil | 6580742 |
| SL-030-NBZ-SS-0.0-0.5 Soil | 6580743 |
| SL-029-NBZ-SS-0.0-0.5 Soil | 6580744 |
| SL-052-NBZ-SS-0.0-0.5 Soil | 6580745 |
| SL-058-NBZ-SS-0.0-0.5 Soil | 6580746 |
| EB-NBZ-SB-031512 Water | 6580747 |
| EB-NBZ-SS-031512 Water | 6580748 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

# Analysis Report



**Sample Description:** SL-019-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-NBZ-SB

**LLI Sample # SW 6580734**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 14:35

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6001 SDG#: DX160-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 5.8 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-019-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-NBZ-SB

**LLI Sample # SW 6580734**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 14:35

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6001 SDG#: DX160-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0200 U | 0.0200 | 1.05 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0489 JB | 0.0211 | 5.23 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0436 JB | 0.0145 | 5.23 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0482 JBQ | 0.0150 | 5.23 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0588 JB | 0.0151 | 5.23 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.270 JB | 0.0184 | 5.23 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.519 JB | 0.0123 | 10.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0267 JQ | 0.0196 | 1.05 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0400 JB | 0.0119 | 5.23 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0712 JB | 0.0127 | 5.23 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0774 JB | 0.0130 | 5.23 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0529 JBQ | 0.0106 | 5.23 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0531 JB | 0.0155 | 5.23 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0681 JBQ | 0.0110 | 5.23 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.152 JB | 0.00605 | 5.23 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0466 JBQ | 0.0130 | 5.23 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.234 JB | 0.0285 | 10.5 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 66 | 25 - 164 |
| 13C12-12378-PeCDD | 67 | 25 - 181 |
| 13C12-123478-HxCDD | 74 | 32 - 141 |
| 13C12-123678-HxCDD | 76 | 28 - 130 |
| 13C12-123789-HxCDD | 74 | 28 - 130 |
| 13C12-1234678-HpCDD | 71 | 23 - 140 |
| 13C12-OCDD | 63 | 17 - 157 |
| 13C12-2378-TCDF | 55 | 24 - 169 |
| 13C12-12378-PeCDF | 66 | 24 - 185 |
| 13C12-23478-PeCDF | 56 | 21 - 178 |
| 13C12-123478-HxCDF | 62 | 26 - 152 |
| 13C12-123678-HxCDF | 74 | 26 - 123 |
| 13C12-234678-HxCDF | 66 | 28 - 136 |
| 13C12-123789-HxCDF | 55 | 29 - 147 |
| 13C12-1234678-HpCDF | 88 | 28 - 143 |
| 13C12-1234789-HpCDF | 47 | 26 - 138 |
| 13C12-OCDF | 42 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-019-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-NBZ-SB

**LLI Sample # SW 6580734**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 14:35

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6001 SDG#: DX160-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-019-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-NBZ-SB

**LLI Sample # SW 6580734**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 14:35

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6001 SDG#: DX160-01

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12087002 | 03/28/2012 19:27 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12087002 | 03/27/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402A | 03/22/2012 18:06 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-019-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-NBZ-SS

**LLI Sample # SW 6580735**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 13:50

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6002 SDG#: DX160-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 2.7 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-019-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-NBZ-SS

**LLI Sample # SW 6580735**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 13:50

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6002 SDG#: DX160-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0157 | U | 0.0157 | 1.00 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0650 | JBQ | 0.0206 | 5.02 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.123 | JB | 0.0199 | 5.02 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.264 | JBQ | 0.0205 | 5.02 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.261 | JB | 0.0202 | 5.02 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 6.06 | B | 0.0274 | 5.02 | 1 |
| 11031 | OCDD | 3268-87-9 | 50.5 | B | 0.0188 | 10.0 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.171 | J | 0.0358 | 1.00 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.165 | JB | 0.0203 | 5.02 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.148 | JBQ | 0.0218 | 5.02 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.200 | JB | 0.0183 | 5.02 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.140 | JBQ | 0.0157 | 5.02 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0547 | JB | 0.0216 | 5.02 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.194 | JBQ | 0.0165 | 5.02 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.09 | JB | 0.0101 | 5.02 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.134 | JBQ | 0.0203 | 5.02 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.90 | JB | 0.0250 | 10.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 81 | 25 - 164 |
| 13C12-12378-PeCDD | 74 | 25 - 181 |
| 13C12-123478-HxCDD | 80 | 32 - 141 |
| 13C12-123678-HxCDD | 82 | 28 - 130 |
| 13C12-123789-HxCDD | 81 | 28 - 130 |
| 13C12-1234678-HpCDD | 75 | 23 - 140 |
| 13C12-OCDD | 61 | 17 - 157 |
| 13C12-2378-TCDF | 63 | 24 - 169 |
| 13C12-12378-PeCDF | 73 | 24 - 185 |
| 13C12-23478-PeCDF | 62 | 21 - 178 |
| 13C12-123478-HxCDF | 68 | 26 - 152 |
| 13C12-123678-HxCDF | 79 | 26 - 123 |
| 13C12-234678-HxCDF | 69 | 28 - 136 |
| 13C12-123789-HxCDF | 64 | 29 - 147 |
| 13C12-1234678-HpCDF | 91 | 28 - 143 |
| 13C12-1234789-HpCDF | 50 | 26 - 138 |
| 13C12-OCDF | 37 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-019-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-NBZ-SS

**LLI Sample # SW 6580735**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 13:50

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6002 SDG#: DX160-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-019-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-NBZ-SS

**LLI Sample # SW 6580735**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/13/2012 13:50

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6002 SDG#: DX160-02

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12087002 | 03/28/2012 20:23 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12087002 | 03/27/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402A | 03/22/2012 18:06 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-022-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-NBZ-SB

**LLI Sample # SW 6580736**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 10:10

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6003 SDG#: DX160-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 3.4 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-022-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-NBZ-SB

**LLI Sample # SW 6580736**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 10:10

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6003 SDG#: DX160-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0187 U | 0.0187 | 1.02 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0364 JBQ | 0.0216 | 5.11 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0182 JBQ | 0.0145 | 5.11 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0317 JB | 0.0160 | 5.11 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0471 JBQ | 0.0152 | 5.11 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.345 JBQ | 0.0203 | 5.11 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.935 JB | 0.0131 | 10.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0364 JQ | 0.0177 | 1.02 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0278 JBQ | 0.0142 | 5.11 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0798 JBQ | 0.0138 | 5.11 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0447 JB | 0.0129 | 5.11 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0393 JBQ | 0.0117 | 5.11 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0337 JBQ | 0.0149 | 5.11 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0596 JBQ | 0.0119 | 5.11 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.190 JB | 0.00714 | 5.11 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0393 JB | 0.0128 | 5.11 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.178 JB | 0.0239 | 10.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 72 | 25 - 164 |
| 13C12-12378-PeCDD | 69 | 25 - 181 |
| 13C12-123478-HxCDD | 81 | 32 - 141 |
| 13C12-123678-HxCDD | 80 | 28 - 130 |
| 13C12-123789-HxCDD | 79 | 28 - 130 |
| 13C12-1234678-HpCDD | 77 | 23 - 140 |
| 13C12-OCDD | 69 | 17 - 157 |
| 13C12-2378-TCDF | 57 | 24 - 169 |
| 13C12-12378-PeCDF | 65 | 24 - 185 |
| 13C12-23478-PeCDF | 60 | 21 - 178 |
| 13C12-123478-HxCDF | 66 | 26 - 152 |
| 13C12-123678-HxCDF | 76 | 26 - 123 |
| 13C12-234678-HxCDF | 69 | 28 - 136 |
| 13C12-123789-HxCDF | 64 | 29 - 147 |
| 13C12-1234678-HpCDF | 87 | 28 - 143 |
| 13C12-1234789-HpCDF | 55 | 26 - 138 |
| 13C12-OCDF | 49 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-022-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-NBZ-SB

**LLI Sample # SW 6580736**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 10:10

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6003 SDG#: DX160-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-022-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-NBZ-SB

**LLI Sample # SW 6580736**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 10:10

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6003 SDG#: DX160-03

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12087002 | 03/28/2012 21:20 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12087002 | 03/27/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402A | 03/22/2012 18:06 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-022-NBZ-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-NBZ-SB

**LLI Sample # SW 6580737**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 10:20

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6004 SDG#: DX160-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 5.4 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-022-NBZ-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-NBZ-SB

**LLI Sample # SW 6580737**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 10:20

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6004 SDG#: DX160-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0131 U | 0.0131 | 1.05 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0401 JBQ | 0.0152 | 5.23 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0359 JBQ | 0.0135 | 5.23 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0386 JBQ | 0.0137 | 5.23 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0416 JBQ | 0.0134 | 5.23 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.333 JB | 0.0155 | 5.23 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.577 JBQ | 0.0126 | 10.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0249 JQ | 0.0145 | 1.05 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0202 JB | 0.0110 | 5.23 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0577 JBQ | 0.0118 | 5.23 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0681 JB | 0.0100 | 5.23 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0515 JBQ | 0.00920 | 5.23 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0355 JB | 0.0122 | 5.23 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0669 JB | 0.00994 | 5.23 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.158 JB | 0.00529 | 5.23 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0711 JB | 0.0107 | 5.23 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.224 JB | 0.0243 | 10.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 73 | 25 - 164 |
| 13C12-12378-PeCDD | 70 | 25 - 181 |
| 13C12-123478-HxCDD | 77 | 32 - 141 |
| 13C12-123678-HxCDD | 77 | 28 - 130 |
| 13C12-123789-HxCDD | 75 | 28 - 130 |
| 13C12-1234678-HpCDD | 70 | 23 - 140 |
| 13C12-OCDD | 62 | 17 - 157 |
| 13C12-2378-TCDF | 57 | 24 - 169 |
| 13C12-12378-PeCDF | 67 | 24 - 185 |
| 13C12-23478-PeCDF | 57 | 21 - 178 |
| 13C12-123478-HxCDF | 66 | 26 - 152 |
| 13C12-123678-HxCDF | 76 | 26 - 123 |
| 13C12-234678-HxCDF | 65 | 28 - 136 |
| 13C12-123789-HxCDF | 60 | 29 - 147 |
| 13C12-1234678-HpCDF | 88 | 28 - 143 |
| 13C12-1234789-HpCDF | 47 | 26 - 138 |
| 13C12-OCDF | 40 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-022-NBZ-SB-9.0-10.0 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-022-NBZ-SB**

**LLI Sample # SW 6580737**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 10:20

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6004 SDG#: DX160-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-022-NBZ-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-NBZ-SB

**LLI Sample # SW 6580737**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 10:20

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6004 SDG#: DX160-04

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12087002 | 03/29/2012 01:19 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12087002 | 03/27/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402A | 03/22/2012 18:06 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-023-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-NBZ-SB

**LLI Sample # SW 6580738**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 12:45

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6005 SDG#: DX160-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 3.1 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-023-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-NBZ-SB

**LLI Sample # SW 6580738**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 12:45

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6005 SDG#: DX160-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0219 JB | 0.0149 | 1.01 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0643 JBQ | 0.0162 | 5.03 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0387 JB | 0.0122 | 5.03 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0458 JBQ | 0.0138 | 5.03 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0464 JBQ | 0.0131 | 5.03 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.284 JBQ | 0.0147 | 5.03 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.539 JB | 0.0117 | 10.1 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0286 JQ | 0.0146 | 1.01 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0867 JB | 0.00980 | 5.03 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0777 JBQ | 0.0102 | 5.03 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0758 JB | 0.0100 | 5.03 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0498 JB | 0.00836 | 5.03 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0446 JBQ | 0.0112 | 5.03 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0784 JB | 0.00857 | 5.03 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.135 JB | 0.00578 | 5.03 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0544 JBQ | 0.0106 | 5.03 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.229 JBQ | 0.0202 | 10.1 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 87 | 25 - 164 |
| 13C12-12378-PeCDD | 86 | 25 - 181 |
| 13C12-123478-HxCDD | 97 | 32 - 141 |
| 13C12-123678-HxCDD | 95 | 28 - 130 |
| 13C12-123789-HxCDD | 93 | 28 - 130 |
| 13C12-1234678-HpCDD | 89 | 23 - 140 |
| 13C12-OCDD | 76 | 17 - 157 |
| 13C12-2378-TCDF | 72 | 24 - 169 |
| 13C12-12378-PeCDF | 85 | 24 - 185 |
| 13C12-23478-PeCDF | 73 | 21 - 178 |
| 13C12-123478-HxCDF | 80 | 26 - 152 |
| 13C12-123678-HxCDF | 93 | 26 - 123 |
| 13C12-234678-HxCDF | 83 | 28 - 136 |
| 13C12-123789-HxCDF | 74 | 29 - 147 |
| 13C12-1234678-HpCDF | 105 | 28 - 143 |
| 13C12-1234789-HpCDF | 61 | 26 - 138 |
| 13C12-OCDF | 51 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-023-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-NBZ-SB

**LLI Sample # SW 6580738**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 12:45

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6005 SDG#: DX160-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-023-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-NBZ-SB

**LLI Sample # SW 6580738**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 12:45

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6005 SDG#: DX160-05

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12087002 | 03/29/2012 02:16 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12087002 | 03/27/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402A | 03/22/2012 18:06 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-023-NBZ-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-NBZ-SB

**LLI Sample # SW 6580739**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 12:55

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6006 SDG#: DX160-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 4.7 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-023-NBZ-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-NBZ-SB

**LLI Sample # SW 6580739**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 12:55

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6006 SDG#: DX160-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0142 U | 0.0142 | 1.02 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0767 JBQ | 0.0164 | 5.12 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0547 JBQ | 0.0131 | 5.12 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0753 JBQ | 0.0130 | 5.12 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0653 JBQ | 0.0129 | 5.12 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.278 JB | 0.0176 | 5.12 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.427 JB | 0.00997 | 10.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0188 J | 0.0146 | 1.02 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.104 JBQ | 0.0109 | 5.12 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.129 JBQ | 0.0111 | 5.12 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0936 JB | 0.0107 | 5.12 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0727 JB | 0.00986 | 5.12 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0752 JB | 0.0125 | 5.12 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0765 JBQ | 0.0101 | 5.12 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.169 JB | 0.00577 | 5.12 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0357 JBQ | 0.0126 | 5.12 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.233 JB | 0.0247 | 10.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 79 | 25 - 164 |
| 13C12-12378-PeCDD | 72 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 84 | 28 - 130 |
| 13C12-123789-HxCDD | 84 | 28 - 130 |
| 13C12-1234678-HpCDD | 78 | 23 - 140 |
| 13C12-OCDD | 67 | 17 - 157 |
| 13C12-2378-TCDF | 63 | 24 - 169 |
| 13C12-12378-PeCDF | 72 | 24 - 185 |
| 13C12-23478-PeCDF | 62 | 21 - 178 |
| 13C12-123478-HxCDF | 68 | 26 - 152 |
| 13C12-123678-HxCDF | 78 | 26 - 123 |
| 13C12-234678-HxCDF | 71 | 28 - 136 |
| 13C12-123789-HxCDF | 65 | 29 - 147 |
| 13C12-1234678-HpCDF | 93 | 28 - 143 |
| 13C12-1234789-HpCDF | 51 | 26 - 138 |
| 13C12-OCDF | 42 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-023-NBZ-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-NBZ-SB

**LLI Sample # SW 6580739**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 12:55

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6006 SDG#: DX160-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-023-NBZ-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-NBZ-SB

**LLI Sample # SW 6580739**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 12:55

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6006 SDG#: DX160-06

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12087002 | 03/29/2012 03:12 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12087002 | 03/27/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402A | 03/22/2012 18:06 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-022-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-NBZ-SS

**LLI Sample # SW 6580740**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 09:03

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6007 SDG#: DX160-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 4.0 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-022-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-NBZ-SS

**LLI Sample # SW 6580740**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 09:03

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6007 SDG#: DX160-07

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0171 | U | 0.0171 | 1.04 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.145 | J | 0.0209 | 5.21 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.166 | JB | 0.0220 | 5.21 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.383 | JBQ | 0.0241 | 5.21 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.339 | JBQ | 0.0224 | 5.21 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 9.42 | B | 0.0314 | 5.21 | 1 |
| 11031 | OCDD | 3268-87-9 | 81.8 | B | 0.0184 | 10.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0958 | J | 0.0268 | 1.04 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.199 | J | 0.0195 | 5.21 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.142 | JB | 0.0201 | 5.21 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.247 | JB | 0.0147 | 5.21 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.157 | JB | 0.0143 | 5.21 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0390 | JQ | 0.0160 | 5.21 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.157 | JB | 0.0136 | 5.21 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.21 | JB | 0.0140 | 5.21 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.113 | JB | 0.0216 | 5.21 | 1 |
| 11031 | OCDF | 39001-02-0 | 2.27 | JB | 0.0186 | 10.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 87 | 25 - 164 |
| 13C12-12378-PeCDD | 79 | 25 - 181 |
| 13C12-123478-HxCDD | 89 | 32 - 141 |
| 13C12-123678-HxCDD | 86 | 28 - 130 |
| 13C12-123789-HxCDD | 87 | 28 - 130 |
| 13C12-1234678-HpCDD | 81 | 23 - 140 |
| 13C12-OCDD | 77 | 17 - 157 |
| 13C12-2378-TCDF | 75 | 24 - 169 |
| 13C12-12378-PeCDF | 79 | 24 - 185 |
| 13C12-23478-PeCDF | 72 | 21 - 178 |
| 13C12-123478-HxCDF | 79 | 26 - 152 |
| 13C12-123678-HxCDF | 85 | 26 - 123 |
| 13C12-234678-HxCDF | 80 | 28 - 136 |
| 13C12-123789-HxCDF | 78 | 29 - 147 |
| 13C12-1234678-HpCDF | 90 | 28 - 143 |
| 13C12-1234789-HpCDF | 66 | 26 - 138 |
| 13C12-OCDF | 60 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-022-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-NBZ-SS

**LLI Sample # SW 6580740**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 09:03

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6007 SDG#: DX160-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-022-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-NBZ-SS

**LLI Sample # SW 6580740**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 09:03

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6007 SDG#: DX160-07

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12089001 | 03/30/2012 21:07 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 3 | 12089001 | 03/29/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402A | 03/22/2012 18:06 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-023-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-NBZ-SS

**LLI Sample # SW 6580741**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 11:38

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6008 SDG#: DX160-08

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 3.0 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-023-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-NBZ-SS

**LLI Sample # SW 6580741**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 11:38

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6008 SDG#: DX160-08

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0391 | JBQ | 0.0219 | 1.03 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.567 | JB | 0.0394 | 5.13 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 1.04 | JB | 0.0366 | 5.13 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 2.81 | JB | 0.0381 | 5.13 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 1.84 | JB | 0.0392 | 5.13 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 76.9 | B | 0.0688 | 5.13 | 1 |
| 11031 | OCDD | 3268-87-9 | 693 | B | 0.0431 | 10.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.232 | J | 0.0407 | 1.03 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.510 | JB | 0.0324 | 5.13 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.212 | JB | 0.0299 | 5.13 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.693 | JB | 0.0311 | 5.13 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.552 | JB | 0.0308 | 5.13 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0716 | JB | 0.0335 | 5.13 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.719 | JB | 0.0281 | 5.13 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 11.4 | B | 0.0293 | 5.13 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.945 | JB | 0.0387 | 5.13 | 1 |
| 11031 | OCDF | 39001-02-0 | 20.4 | B | 0.0294 | 10.3 | 1 |

| **Labeled Compounds** | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 83 | 25 - 164 |
| 13C12-12378-PeCDD | 77 | 25 - 181 |
| 13C12-123478-HxCDD | 85 | 32 - 141 |
| 13C12-123678-HxCDD | 83 | 28 - 130 |
| 13C12-123789-HxCDD | 83 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 64 | 17 - 157 |
| 13C12-2378-TCDF | 68 | 24 - 169 |
| 13C12-12378-PeCDF | 73 | 24 - 185 |
| 13C12-23478-PeCDF | 70 | 21 - 178 |
| 13C12-123478-HxCDF | 68 | 26 - 152 |
| 13C12-123678-HxCDF | 71 | 26 - 123 |
| 13C12-234678-HxCDF | 73 | 28 - 136 |
| 13C12-123789-HxCDF | 71 | 29 - 147 |
| 13C12-1234678-HpCDF | 76 | 28 - 143 |
| 13C12-1234789-HpCDF | 63 | 26 - 138 |
| 13C12-OCDF | 47 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-023-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-NBZ-SS

**LLI Sample # SW 6580741**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 11:38

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6008 SDG#: DX160-08

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-023-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-NBZ-SS

**LLI Sample # SW 6580741**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 11:38

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6008 SDG#: DX160-08

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12087002 | 03/29/2012 05:06 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12087002 | 03/27/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402B | 03/22/2012 18:06 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-024-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-NBZ-SS

**LLI Sample # SW 6580742**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 10:50

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6009 SDG#: DX160-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 3.1 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-024-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-NBZ-SS

**LLI Sample # SW 6580742**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 10:50

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6009 SDG#: DX160-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0269 JBQ | 0.0136 | 1.03 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.120 JB | 0.0190 | 5.15 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.112 JBQ | 0.0186 | 5.15 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.134 JB | 0.0202 | 5.15 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.125 JBQ | 0.0197 | 5.15 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.27 JB | 0.0202 | 5.15 | 1 |
| 11031 | OCDD | 3268-87-9 | 16.1 B | 0.0147 | 10.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0276 J | 0.0182 | 1.03 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.108 JB | 0.0123 | 5.15 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.132 JB | 0.0126 | 5.15 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0935 JBQ | 0.0137 | 5.15 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0969 JB | 0.0124 | 5.15 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0674 JBQ | 0.0168 | 5.15 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.106 JBQ | 0.0122 | 5.15 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.452 JB | 0.0140 | 5.15 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.107 JB | 0.0248 | 5.15 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.688 JB | 0.0245 | 10.3 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 80 | 25 - 164 |
| 13C12-12378-PeCDD | 76 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 83 | 28 - 130 |
| 13C12-123789-HxCDD | 82 | 28 - 130 |
| 13C12-1234678-HpCDD | 81 | 23 - 140 |
| 13C12-OCDD | 57 | 17 - 157 |
| 13C12-2378-TCDF | 64 | 24 - 169 |
| 13C12-12378-PeCDF | 74 | 24 - 185 |
| 13C12-23478-PeCDF | 65 | 21 - 178 |
| 13C12-123478-HxCDF | 69 | 26 - 152 |
| 13C12-123678-HxCDF | 76 | 26 - 123 |
| 13C12-234678-HxCDF | 69 | 28 - 136 |
| 13C12-123789-HxCDF | 62 | 29 - 147 |
| 13C12-1234678-HpCDF | 83 | 28 - 143 |
| 13C12-1234789-HpCDF | 54 | 26 - 138 |
| 13C12-OCDF | 39 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-024-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-NBZ-SS

**LLI Sample # SW 6580742**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 10:50

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6009 SDG#: DX160-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-024-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-NBZ-SS

**LLI Sample # SW 6580742**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 10:50

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6009 SDG#: DX160-09

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12087002 | 03/29/2012 06:02 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12087002 | 03/27/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402B | 03/22/2012 18:06 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-030-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-NBZ-SS

**LLI Sample # SW 6580743**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 15:00

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6010 SDG#: DX160-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 1.4 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-030-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-NBZ-SS

**LLI Sample # SW 6580743**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 15:00

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6010 SDG#: DX160-10

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0154 | U | 0.0154 | 1.01 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.179 | JB | 0.0264 | 5.05 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.247 | JB | 0.0225 | 5.05 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.772 | JB | 0.0252 | 5.05 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.462 | JB | 0.0233 | 5.05 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 18.9 | B | 0.0328 | 5.05 | 1 |
| 11031 | OCDD | 3268-87-9 | 162 | B | 0.0242 | 10.1 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.310 | J | 0.0312 | 1.01 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 1.09 | JB | 0.0266 | 5.05 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.518 | JB | 0.0264 | 5.05 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.794 | JB | 0.0210 | 5.05 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.342 | JB | 0.0195 | 5.05 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0853 | JB | 0.0229 | 5.05 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.377 | JB | 0.0191 | 5.05 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 3.71 | JB | 0.0164 | 5.05 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.375 | JBQ | 0.0277 | 5.05 | 1 |
| 11031 | OCDF | 39001-02-0 | 7.46 | JB | 0.0217 | 10.1 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 81 | 25 - 164 |
| 13C12-12378-PeCDD | 72 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 77 | 28 - 130 |
| 13C12-123789-HxCDD | 78 | 28 - 130 |
| 13C12-1234678-HpCDD | 78 | 23 - 140 |
| 13C12-OCDD | 59 | 17 - 157 |
| 13C12-2378-TCDF | 64 | 24 - 169 |
| 13C12-12378-PeCDF | 68 | 24 - 185 |
| 13C12-23478-PeCDF | 62 | 21 - 178 |
| 13C12-123478-HxCDF | 67 | 26 - 152 |
| 13C12-123678-HxCDF | 72 | 26 - 123 |
| 13C12-234678-HxCDF | 68 | 28 - 136 |
| 13C12-123789-HxCDF | 67 | 29 - 147 |
| 13C12-1234678-HpCDF | 77 | 28 - 143 |
| 13C12-1234789-HpCDF | 55 | 26 - 138 |
| 13C12-OCDF | 41 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-030-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-NBZ-SS

**LLI Sample # SW 6580743**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 15:00

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6010 SDG#: DX160-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-030-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-NBZ-SS

**LLI Sample # SW 6580743**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/14/2012 15:00

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6010 SDG#: DX160-10

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12087002 | 03/29/2012 06:59 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12087002 | 03/27/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402B | 03/22/2012 18:06 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-029-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-NBZ-SS

**LLI Sample # SW 6580744**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 09:00

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6011 SDG#: DX160-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 2.7 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-029-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-NBZ-SS

**LLI Sample # SW 6580744**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 09:00

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6011 SDG#: DX160-11

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0285 | JB | 0.0158 | 1.01 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.197 | JBQ | 0.0259 | 5.05 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.245 | JBQ | 0.0242 | 5.05 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.755 | JB | 0.0258 | 5.05 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.501 | JB | 0.0239 | 5.05 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 21.4 | B | 0.0324 | 5.05 | 1 |
| 11031 | OCDD | 3268-87-9 | 181 | B | 0.0215 | 10.1 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.396 | J | 0.0427 | 1.01 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.797 | JB | 0.0301 | 5.05 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.531 | JB | 0.0303 | 5.05 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 1.09 | JB | 0.0270 | 5.05 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.312 | JB | 0.0232 | 5.05 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.123 | JB | 0.0260 | 5.05 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.381 | JB | 0.0214 | 5.05 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 3.17 | JB | 0.0155 | 5.05 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.364 | JB | 0.0240 | 5.05 | 1 |
| 11031 | OCDF | 39001-02-0 | 6.03 | JB | 0.0233 | 10.1 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 79 | 25 - 164 |
| 13C12-12378-PeCDD | 71 | 25 - 181 |
| 13C12-123478-HxCDD | 79 | 32 - 141 |
| 13C12-123678-HxCDD | 79 | 28 - 130 |
| 13C12-123789-HxCDD | 79 | 28 - 130 |
| 13C12-1234678-HpCDD | 77 | 23 - 140 |
| 13C12-OCDD | 57 | 17 - 157 |
| 13C12-2378-TCDF | 62 | 24 - 169 |
| 13C12-12378-PeCDF | 67 | 24 - 185 |
| 13C12-23478-PeCDF | 61 | 21 - 178 |
| 13C12-123478-HxCDF | 59 | 26 - 152 |
| 13C12-123678-HxCDF | 67 | 26 - 123 |
| 13C12-234678-HxCDF | 68 | 28 - 136 |
| 13C12-123789-HxCDF | 63 | 29 - 147 |
| 13C12-1234678-HpCDF | 74 | 28 - 143 |
| 13C12-1234789-HpCDF | 55 | 26 - 138 |
| 13C12-OCDF | 40 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-029-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-NBZ-SS

**LLI Sample # SW 6580744**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 09:00

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6011 SDG#: DX160-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-029-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-NBZ-SS

**LLI Sample # SW 6580744**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 09:00

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6011 SDG#: DX160-11

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12087002 | 03/29/2012 07:55 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12087002 | 03/27/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402B | 03/22/2012 18:06 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-052-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-NBZ-SS

**LLI Sample # SW 6580745**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 12:05

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6012 SDG#: DX160-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 1.2 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-052-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-NBZ-SS

**LLI Sample # SW 6580745**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 12:05

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6012 SDG#: DX160-12

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0719 | JBQ | 0.0221 | 0.993 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.477 | JB | 0.0346 | 4.97 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.380 | JB | 0.0215 | 4.97 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 1.27 | JB | 0.0249 | 4.97 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 1.31 | JB | 0.0229 | 4.97 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 23.6 | B | 0.0342 | 4.97 | 1 |
| 11031 | OCDD | 3268-87-9 | 188 | B | 0.0249 | 9.93 | 1 |
| 11650 | 2378-TCDF-Conf | 51207-31-9 | 1.20 | C | 0.0898 | 0.993 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 1.31 | JB | 0.0290 | 4.97 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.743 | JB | 0.0285 | 4.97 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.808 | JB | 0.0237 | 4.97 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.516 | JB | 0.0205 | 4.97 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.198 | JBQ | 0.0283 | 4.97 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.434 | JB | 0.0203 | 4.97 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 6.89 | B | 0.0177 | 4.97 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.535 | JB | 0.0324 | 4.97 | 1 |
| 11031 | OCDF | 39001-02-0 | 16.3 | B | 0.0241 | 9.93 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 79 | 25 - 164 |
| 13C12-2378-TCDF-Conf | 70 | 24 - 169 |
| 13C12-12378-PeCDD | 77 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 83 | 28 - 130 |
| 13C12-123789-HxCDD | 83 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 60 | 17 - 157 |
| 13C12-12378-PeCDF | 74 | 24 - 185 |
| 13C12-23478-PeCDF | 65 | 21 - 178 |
| 13C12-123478-HxCDF | 64 | 26 - 152 |
| 13C12-123678-HxCDF | 73 | 26 - 123 |
| 13C12-234678-HxCDF | 68 | 28 - 136 |
| 13C12-123789-HxCDF | 59 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 53 | 26 - 138 |
| 13C12-OCDF | 38 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-052-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-NBZ-SS

**LLI Sample # SW 6580745**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 12:05

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6012 SDG#: DX160-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-052-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-NBZ-SS

**LLI Sample # SW 6580745**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 12:05

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6012 SDG#: DX160-12

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12087002 | 03/29/2012 08:52 | Joseph D Anderson | 1 |
| 11650 | Dioxins/Furans in Solids-Conf | EPA 1613B | 1 | 12087002 | 03/30/2012 15:53 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12087002 | 03/27/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402B | 03/22/2012 18:06 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-058-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-NBZ-SS

**LLI Sample # SW 6580746**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 11:30

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6013 SDG#: DX160-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 4.2 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-058-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-NBZ-SS

**LLI Sample # SW 6580746**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 11:30

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6013 SDG#: DX160-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0142 JBQ | 0.0141 | 1.03 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0314 JBQ | 0.0169 | 5.16 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0281 JBQ | 0.0132 | 5.16 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0470 JBQ | 0.0142 | 5.16 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0505 JB | 0.0132 | 5.16 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.297 JB | 0.0147 | 5.16 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.645 JB | 0.0129 | 10.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0148 J | 0.0148 | 1.03 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0473 JBQ | 0.0108 | 5.16 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0502 JBQ | 0.0108 | 5.16 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0649 JBQ | 0.0105 | 5.16 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0484 JBQ | 0.00992 | 5.16 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0427 JBQ | 0.0125 | 5.16 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0606 JBQ | 0.00971 | 5.16 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.174 JB | 0.0103 | 5.16 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0334 JBQ | 0.0164 | 5.16 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.161 JB | 0.0190 | 10.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 86 | 25 - 164 |
| 13C12-12378-PeCDD | 85 | 25 - 181 |
| 13C12-123478-HxCDD | 95 | 32 - 141 |
| 13C12-123678-HxCDD | 92 | 28 - 130 |
| 13C12-123789-HxCDD | 93 | 28 - 130 |
| 13C12-1234678-HpCDD | 93 | 23 - 140 |
| 13C12-OCDD | 76 | 17 - 157 |
| 13C12-2378-TCDF | 73 | 24 - 169 |
| 13C12-12378-PeCDF | 82 | 24 - 185 |
| 13C12-23478-PeCDF | 75 | 21 - 178 |
| 13C12-123478-HxCDF | 75 | 26 - 152 |
| 13C12-123678-HxCDF | 85 | 26 - 123 |
| 13C12-234678-HxCDF | 79 | 28 - 136 |
| 13C12-123789-HxCDF | 72 | 29 - 147 |
| 13C12-1234678-HpCDF | 92 | 28 - 143 |
| 13C12-1234789-HpCDF | 64 | 26 - 138 |
| 13C12-OCDF | 56 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-058-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-NBZ-SS

**LLI Sample # SW 6580746**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 11:30

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6013 SDG#: DX160-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-058-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-NBZ-SS

**LLI Sample # SW 6580746**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 11:30

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6013 SDG#: DX160-13

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12087002 | 03/29/2012 09:49 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12087002 | 03/27/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12082162402B | 03/22/2012 18:06 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** EB-NBZ-SB-031512 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SB

**LLI Sample # WW 6580747**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 15:00

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6014 SDG#: DX160-14EB

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | pg/l | | pg/l | pg/l | |
| 10915 | 2378-TCDD | 1746-01-6 | 0.183 | U | 0.183 | 1.98 | 1 |
| 10915 | 12378-PeCDD | 40321-76-4 | 0.235 | JBQ | 0.204 | 9.91 | 1 |
| 10915 | 123478-HxCDD | 39227-28-6 | 0.287 | JBQ | 0.142 | 9.91 | 1 |
| 10915 | 123678-HxCDD | 57653-85-7 | 0.292 | JB | 0.155 | 9.91 | 1 |
| 10915 | 123789-HxCDD | 19408-74-3 | 0.534 | JBQ | 0.144 | 9.91 | 1 |
| 10915 | 1234678-HpCDD | 35822-46-9 | 2.82 | JB | 0.154 | 9.91 | 1 |
| 10915 | OCDD | 3268-87-9 | 4.27 | JB | 0.135 | 19.8 | 1 |
| 10915 | 2378-TCDF | 51207-31-9 | 0.219 | JB | 0.187 | 1.98 | 1 |
| 10915 | 12378-PeCDF | 57117-41-6 | 0.271 | JBQ | 0.127 | 9.91 | 1 |
| 10915 | 23478-PeCDF | 57117-31-4 | 0.607 | JB | 0.119 | 9.91 | 1 |
| 10915 | 123478-HxCDF | 70648-26-9 | 0.377 | JBQ | 0.0918 | 9.91 | 1 |
| 10915 | 123678-HxCDF | 57117-44-9 | 0.361 | JBQ | 0.0984 | 9.91 | 1 |
| 10915 | 123789-HxCDF | 72918-21-9 | 0.305 | JBQ | 0.0932 | 9.91 | 1 |
| 10915 | 234678-HxCDF | 60851-34-5 | 0.501 | JBQ | 0.0843 | 9.91 | 1 |
| 10915 | 1234678-HpCDF | 67562-39-4 | 1.29 | JB | 0.0904 | 9.91 | 1 |
| 10915 | 1234789-HpCDF | 55673-89-7 | 0.342 | JB | 0.101 | 9.91 | 1 |
| 10915 | OCDF | 39001-02-0 | 1.37 | JB | 0.174 | 19.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 71 | 25 - 164 |
| 13C12-12378-PeCDD | 69 | 25 - 181 |
| 13C12-123478-HxCDD | 75 | 32 - 141 |
| 13C12-123678-HxCDD | 74 | 28 - 130 |
| 13C12-123789-HxCDD | 74 | 28 - 130 |
| 13C12-1234678-HpCDD | 73 | 23 - 140 |
| 13C12-OCDD | 64 | 17 - 157 |
| 13C12-2378-TCDF | 63 | 24 - 169 |
| 13C12-12378-PeCDF | 65 | 24 - 185 |
| 13C12-23478-PeCDF | 65 | 21 - 178 |
| 13C12-123478-HxCDF | 68 | 26 - 152 |
| 13C12-123678-HxCDF | 68 | 26 - 123 |
| 13C12-234678-HxCDF | 71 | 28 - 136 |
| 13C12-123789-HxCDF | 75 | 29 - 147 |
| 13C12-1234678-HpCDF | 66 | 28 - 143 |
| 13C12-1234789-HpCDF | 66 | 26 - 138 |
| 13C12-OCDF | 60 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** **EB-NBZ-SB-031512 Water**
**SSFL Area IV Collocated Soil Sampling**
**EB-NBZ-SB**

**LLI Sample # WW 6580747**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 15:00

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6014 SDG#: DX160-14EB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10915 | 10b Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12083002 | 03/27/2012 13:19 | Joseph D Anderson | 1 |
| 10914 | Dioxins/Furans in Water - SepF | EPA 1613B | 1 | 12083002 | 03/23/2012 08:00 | Deborah M Zimmerman | 1 |

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# Analysis Report



**Sample Description:** EB-NBZ-SS-031512 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SS

**LLI Sample # WW 6580748**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 14:30

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6015 SDG#: DX160-15EB*

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | pg/l | | pg/l | pg/l | |
| 10915 | 2378-TCDD | 1746-01-6 | 0.289 | JQ | 0.279 | 1.97 | 1 |
| 10915 | 12378-PeCDD | 40321-76-4 | 0.354 | JBQ | 0.305 | 9.85 | 1 |
| 10915 | 123478-HxCDD | 39227-28-6 | 0.313 | JBQ | 0.199 | 9.85 | 1 |
| 10915 | 123678-HxCDD | 57653-85-7 | 0.543 | JBQ | 0.220 | 9.85 | 1 |
| 10915 | 123789-HxCDD | 19408-74-3 | 0.503 | JB | 0.214 | 9.85 | 1 |
| 10915 | 1234678-HpCDD | 35822-46-9 | 3.53 | JB | 0.221 | 9.85 | 1 |
| 10915 | OCDD | 3268-87-9 | 6.23 | JB | 0.248 | 19.7 | 1 |
| 10915 | 2378-TCDF | 51207-31-9 | 0.371 | JB | 0.231 | 1.97 | 1 |
| 10915 | 12378-PeCDF | 57117-41-6 | 0.184 | U | 0.184 | 9.85 | 1 |
| 10915 | 23478-PeCDF | 57117-31-4 | 0.494 | JBQ | 0.164 | 9.85 | 1 |
| 10915 | 123478-HxCDF | 70648-26-9 | 0.472 | JB | 0.124 | 9.85 | 1 |
| 10915 | 123678-HxCDF | 57117-44-9 | 0.595 | JBQ | 0.122 | 9.85 | 1 |
| 10915 | 123789-HxCDF | 72918-21-9 | 0.416 | JBQ | 0.124 | 9.85 | 1 |
| 10915 | 234678-HxCDF | 60851-34-5 | 0.512 | JB | 0.108 | 9.85 | 1 |
| 10915 | 1234678-HpCDF | 67562-39-4 | 1.76 | JBQ | 0.102 | 9.85 | 1 |
| 10915 | 1234789-HpCDF | 55673-89-7 | 0.424 | JB | 0.115 | 9.85 | 1 |
| 10915 | OCDF | 39001-02-0 | 1.67 | JBQ | 0.266 | 19.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 56 | 25 - 164 |
| 13C12-12378-PeCDD | 55 | 25 - 181 |
| 13C12-123478-HxCDD | 52 | 32 - 141 |
| 13C12-123678-HxCDD | 52 | 28 - 130 |
| 13C12-123789-HxCDD | 52 | 28 - 130 |
| 13C12-1234678-HpCDD | 50 | 23 - 140 |
| 13C12-OCDD | 43 | 17 - 157 |
| 13C12-2378-TCDF | 50 | 24 - 169 |
| 13C12-12378-PeCDF | 51 | 24 - 185 |
| 13C12-23478-PeCDF | 53 | 21 - 178 |
| 13C12-123478-HxCDF | 48 | 26 - 152 |
| 13C12-123678-HxCDF | 47 | 26 - 123 |
| 13C12-234678-HxCDF | 51 | 28 - 136 |
| 13C12-123789-HxCDF | 52 | 29 - 147 |
| 13C12-1234678-HpCDF | 46 | 28 - 143 |
| 13C12-1234789-HpCDF | 45 | 26 - 138 |
| 13C12-OCDF | 40 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

eurofins | Lancaster Laboratories

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# Analysis Report



**Sample Description:** **EB-NBZ-SS-031512 Water**
**SSFL Area IV Collocated Soil Sampling**
**EB-NBZ-SS**

**LLI Sample # WW 6580748**
**LLI Group # 1295745**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 14:30

Submitted: 03/16/2012 10:25
Reported: 04/04/2012 14:49

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6015 SDG#: DX160-15EB*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10915 | 10b Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12083002 | 03/27/2012 14:16 | Joseph D Anderson | 1 |
| 10914 | Dioxins/Furans in Water - SepF | EPA 1613B | 1 | 12083002 | 03/23/2012 08:00 | Deborah M Zimmerman | 1 |

*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1295745
Reported: 04/04/12 at 02:49 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12082162402A | Sample number(s): 6580734-6580740 | | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 100 | | 80-120 | | |
| Batch number: 12082162402B | Sample number(s): 6580741-6580746 | | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12083002 | Sample number(s): 6580747-6580748 | | | | | | | | | |
| 2378-TCDD | 0.264 | U | 0.264 | 2.00 | pg/l | 86 | | 67-158 | | |
| 12378-PeCDD | 0.425 | J | 0.286 | 10.0 | pg/l | 91 | | 70-142 | | |
| 123478-HxCDD | 0.305 | J | 0.227 | 10.0 | pg/l | 89 | | 70-164 | | |
| 123678-HxCDD | 0.887 | J | 0.227 | 10.0 | pg/l | 90 | | 76-134 | | |
| 123789-HxCDD | 0.597 | J | 0.226 | 10.0 | pg/l | 97 | | 64-162 | | |
| 1234678-HpCDD | 3.73 | J | 0.255 | 10.0 | pg/l | 93 | | 70-140 | | |
| OCDD | 6.73 | J | 0.255 | 20.0 | pg/l | 90 | | 78-144 | | |
| 2378-TCDF | 0.392 | J | 0.268 | 2.00 | pg/l | 91 | | 75-158 | | |
| 12378-PeCDF | 0.502 | J | 0.197 | 10.0 | pg/l | 95 | | 80-134 | | |
| 23478-PeCDF | 0.418 | J | 0.170 | 10.0 | pg/l | 92 | | 68-160 | | |
| 123478-HxCDF | 0.545 | J | 0.150 | 10.0 | pg/l | 88 | | 72-134 | | |
| 123678-HxCDF | 0.426 | J | 0.156 | 10.0 | pg/l | 86 | | 84-130 | | |
| 123789-HxCDF | 0.526 | J | 0.145 | 10.0 | pg/l | 88 | | 78-130 | | |
| 234678-HxCDF | 0.521 | J | 0.137 | 10.0 | pg/l | 85 | | 70-156 | | |
| 1234678-HpCDF | 1.70 | J | 0.128 | 10.0 | pg/l | 85 | | 82-122 | | |
| 1234789-HpCDF | 0.578 | J | 0.130 | 10.0 | pg/l | 88 | | 78-138 | | |
| OCDF | 1.47 | J | 0.268 | 20.0 | pg/l | 85 | | 63-170 | | |
| Batch number: 12087002 | Sample number(s): 6580734-6580739,6580741-6580746 | | | | | | | | | |
| 2378-TCDD | 0.0251 | J | 0.0166 | 1.00 | ng/kg | 85 | | 67-158 | | |
| 12378-PeCDD | 0.0268 | J | 0.0181 | 5.00 | ng/kg | 88 | | 70-142 | | |
| 123478-HxCDD | 0.0369 | J | 0.0137 | 5.00 | ng/kg | 89 | | 70-164 | | |
| 123678-HxCDD | 0.0442 | J | 0.0140 | 5.00 | ng/kg | 86 | | 76-134 | | |
| 123789-HxCDD | 0.0499 | J | 0.0146 | 5.00 | ng/kg | 95 | | 64-162 | | |
| 1234678-HpCDD | 0.290 | J | 0.0186 | 5.00 | ng/kg | 93 | | 70-140 | | |
| OCDD | 0.932 | J | 0.0128 | 10.0 | ng/kg | 88 | | 78-144 | | |
| 2378-TCDF | 0.0196 | U | 0.0196 | 1.00 | ng/kg | 91 | | 75-158 | | |
| 2378-TCDF-Conf | 0.0471 | J | 0.0440 | 1.00 | ng/kg | 91 | | 75-158 | | |
| 12378-PeCDF | 0.0251 | J | 0.0116 | 5.00 | ng/kg | 94 | | 80-134 | | |
| 23478-PeCDF | 0.0600 | J | 0.0131 | 5.00 | ng/kg | 89 | | 68-160 | | |
| 123478-HxCDF | 0.0629 | J | 0.0127 | 5.00 | ng/kg | 86 | | 72-134 | | |
| 123678-HxCDF | 0.0353 | J | 0.0100 | 5.00 | ng/kg | 87 | | 84-130 | | |
| 123789-HxCDF | 0.0627 | J | 0.0143 | 5.00 | ng/kg | 88 | | 78-130 | | |
| 234678-HxCDF | 0.0731 | J | 0.0111 | 5.00 | ng/kg | 85 | | 70-156 | | |
| 1234678-HpCDF | 0.196 | J | 0.00590 | 5.00 | ng/kg | 83 | | 82-122 | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1295745
Reported: 04/04/12 at 02:49 PM

| Analysis Name | Blank Result | | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| 1234789-HpCDF | 0.0431 | J | 0.0133 | 5.00 | ng/kg | 86 | | 78-138 | | |
| OCDF | 0.240 | J | 0.0223 | 10.0 | ng/kg | 84 | | 63-170 | | |
| Batch number: 12089001 | Sample number(s): 6580740 | | | | | | | | | |
| 2378-TCDD | 0.0304 | J | 0.0162 | 1.00 | ng/kg | 86 | | 67-158 | | |
| 12378-PeCDD | 0.0201 | U | 0.0201 | 5.00 | ng/kg | 89 | | 70-142 | | |
| 123478-HxCDD | 0.0274 | J | 0.0141 | 5.00 | ng/kg | 89 | | 70-164 | | |
| 123678-HxCDD | 0.0499 | J | 0.0154 | 5.00 | ng/kg | 87 | | 76-134 | | |
| 123789-HxCDD | 0.0288 | J | 0.0146 | 5.00 | ng/kg | 95 | | 64-162 | | |
| 1234678-HpCDD | 0.266 | J | 0.0187 | 5.00 | ng/kg | 91 | | 70-140 | | |
| OCDD | 0.447 | J | 0.0134 | 10.0 | ng/kg | 88 | | 78-144 | | |
| 2378-TCDF | 0.0174 | U | 0.0174 | 1.00 | ng/kg | 91 | | 75-158 | | |
| 12378-PeCDF | 0.0114 | U | 0.0114 | 5.00 | ng/kg | 93 | | 80-134 | | |
| 23478-PeCDF | 0.0673 | J | 0.0112 | 5.00 | ng/kg | 90 | | 68-160 | | |
| 123478-HxCDF | 0.0430 | J | 0.0104 | 5.00 | ng/kg | 87 | | 72-134 | | |
| 123678-HxCDF | 0.0457 | J | 0.00910 | 5.00 | ng/kg | 87 | | 84-130 | | |
| 123789-HxCDF | 0.0107 | U | 0.0107 | 5.00 | ng/kg | 88 | | 78-130 | | |
| 234678-HxCDF | 0.0515 | J | 0.00910 | 5.00 | ng/kg | 85 | | 70-156 | | |
| 1234678-HpCDF | 0.0992 | J | 0.0145 | 5.00 | ng/kg | 83 | | 82-122 | | |
| 1234789-HpCDF | 0.0489 | J | 0.0231 | 5.00 | ng/kg | 88 | | 78-138 | | |
| OCDF | 0.184 | J | 0.0210 | 10.0 | ng/kg | 86 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12082162402A | Sample number(s): 6580734-6580740 | | | | | BKG: P580647 | | | |
| Moisture Content by 160.3 | | | | | | 5.4 | 5.4 | 1 | 20 |
| Batch number: 12082162402B | Sample number(s): 6580741-6580746 | | | | | BKG: P580651 | | | |
| Moisture Content by 160.3 | | | | | | 3.0 | 2.6 | 14 | 20 |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 12083002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6580747 | 71 | 65 | 68 | 68 | 71 | 75 |
| 6580748 | 56 | 53 | 48 | 47 | 51 | 52 |
| Blank | 65 | 59 | 60 | 58 | 61 | 66 |
| OPR | 78 | 71 | 69 | 70 | 72 | 82 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1295745
Reported: 04/04/12 at 02:49 PM

## Surrogate Quality Control

| | | | | | | |
|---|---|---|---|---|---|---|
| 6580747 | 66 | 66 | 60 | 69 | 75 | 74 |
| 6580748 | 46 | 45 | 40 | 55 | 52 | 52 |
| Blank | 58 | 63 | 58 | 63 | 62 | 62 |
| OPR | 70 | 69 | 65 | 76 | 77 | 74 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF | 13C12-2378-TCDF-Conf |
|---|---|---|---|---|---|---|
| 6580747 | 74 | 73 | 64 | 63 | 65 | |
| 6580748 | 52 | 50 | 43 | 50 | 51 | |
| Blank | 62 | 62 | 56 | 57 | 57 | |
| OPR | 75 | 76 | 69 | 66 | 71 | 66 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 | 22-152 |

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12087002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6580734 | 66 | 56 | 62 | 74 | 66 | 55 |
| 6580735 | 81 | 62 | 68 | 79 | 69 | 64 |
| 6580736 | 72 | 60 | 66 | 76 | 69 | 64 |
| 6580737 | 73 | 57 | 66 | 76 | 65 | 60 |
| 6580738 | 87 | 73 | 80 | 93 | 83 | 74 |
| 6580739 | 79 | 62 | 68 | 78 | 71 | 65 |
| 6580741 | 83 | 70 | 68 | 71 | 73 | 71 |
| 6580742 | 80 | 65 | 69 | 76 | 69 | 62 |
| 6580743 | 81 | 62 | 67 | 72 | 68 | 67 |
| 6580744 | 79 | 61 | 59 | 67 | 68 | 63 |
| 6580745 | 79 | 65 | 64 | 73 | 68 | 59 |
| 6580746 | 86 | 75 | 75 | 85 | 79 | 72 |
| Blank | 81 | 63 | 70 | 86 | 73 | 67 |
| OPR | 77 | 65 | 72 | 82 | 73 | 68 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6580734 | 88 | 47 | 42 | 67 | 74 | 76 |
| 6580735 | 91 | 50 | 37 | 74 | 80 | 82 |
| 6580736 | 87 | 55 | 49 | 69 | 81 | 80 |
| 6580737 | 88 | 47 | 40 | 70 | 77 | 77 |
| 6580738 | 105 | 61 | 51 | 86 | 97 | 95 |
| 6580739 | 93 | 51 | 42 | 72 | 83 | 84 |
| 6580741 | 76 | 63 | 47 | 77 | 85 | 83 |
| 6580742 | 83 | 54 | 39 | 76 | 83 | 83 |
| 6580743 | 77 | 55 | 41 | 72 | 83 | 77 |
| 6580744 | 74 | 55 | 40 | 71 | 79 | 79 |
| 6580745 | 86 | 53 | 38 | 77 | 84 | 83 |
| 6580746 | 92 | 64 | 56 | 85 | 95 | 92 |
| Blank | 105 | 54 | 49 | 80 | 86 | 89 |
| OPR | 95 | 59 | 52 | 75 | 82 | 82 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1295745
Reported: 04/04/12 at 02:49 PM

## Surrogate Quality Control

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF | 13C12-2378-TCDF-Conf |
|---|---|---|---|---|---|---|
| 6580734 | 74 | 71 | 63 | 55 | 66 | |
| 6580735 | 81 | 75 | 61 | 63 | 73 | |
| 6580736 | 79 | 77 | 69 | 57 | 65 | |
| 6580737 | 75 | 70 | 62 | 57 | 67 | |
| 6580738 | 93 | 89 | 76 | 72 | 85 | |
| 6580739 | 84 | 78 | 67 | 63 | 72 | |
| 6580741 | 83 | 82 | 64 | 68 | 73 | |
| 6580742 | 82 | 81 | 57 | 64 | 74 | |
| 6580743 | 78 | 78 | 59 | 64 | 68 | |
| 6580744 | 79 | 77 | 57 | 62 | 67 | |
| 6580745 | 83 | 82 | 60 | | 74 | 70 |
| 6580746 | 93 | 93 | 76 | 73 | 82 | |
| Blank | 87 | 83 | 77 | 61 | 75 | 66 |
| OPR | 81 | 77 | 71 | 61 | 73 | 61 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 | 24-169 |

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12089001

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6580740 | 87 | 72 | 79 | 85 | 80 | 78 |
| Blank | 82 | 71 | 79 | 86 | 81 | 82 |
| OPR | 76 | 68 | 74 | 84 | 77 | 71 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6580740 | 90 | 66 | 60 | 79 | 89 | 86 |
| Blank | 97 | 68 | 61 | 79 | 88 | 88 |
| OPR | 98 | 62 | 56 | 78 | 84 | 84 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF | 13C12-2378-TCDF-Conf |
|---|---|---|---|---|---|---|
| 6580740 | 87 | 81 | 77 | 75 | 79 | |
| Blank | 88 | 82 | 75 | 69 | 76 | |
| OPR | 84 | 82 | 75 | 64 | 77 | 64 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 | 22-152 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1295745 Sample# 6580734-48

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSES* | | SECONDARY ANALYSES** | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | | | | | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| SL-019-NBZ-SB-3.0-4.0 | 3.13.12 | 1435 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-019-NBZ-~~SB~~-0.0-0.5 SS | 3.13.12 | 1350 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-022-NBZ-SB-4.0-5.0 | 3.14.12 | 1010 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-022-NBZ-SB-9.0-10.0 | 3.14.12 | 1020 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-023-NBZ-SB-4.0-5.0 | 3.14.12 | 1245 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-023-NBZ-SB-8.5-9.5 | 3.14.12 | 1255 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-022-NBZ-SS-0.0-0.5 | 3.14.12 | 0903 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-023-NBZ-SS-0.0-0.5 | 3.14.12 | 1138 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-024-NBZ-SS-0.0-0.5 | 3.14.12 | 1050 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-030-NBZ-SS-0.0-0.5 | 3.14.12 | 1500 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-029-NBZ-SS-0.0-0.5 | 3.15.12 | 0900 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-052-NBZ-SS-0.0-0.5 | 3.15.12 | 1205 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-058-NBZ-SS-0.0-0.5 | 3.15.12 | 1130 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| Relinquished by: (*Signature*) | Date/Time 3/15/2012 / 1630 | | Received for Laboratory by: (*Signature*) | | | | | | | Laboratory: Lancaster Laboratories, Inc. |
| Received by: (*Signature*) Switte Lehman | Date/Time 3/16/12 1025 | | Airbill No.(s) | | | | | | | |

SL-019-NBZ-SS-0.0-0.5 was updated per bottle labels, and this was confirmed by PH. NLM 3/22/12

acct# 13013 Cyp# 1295745 Sample# 6580734-48

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSES | SECONDARY ANALYSES | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | | | | | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| EB-NBZ-SB-031512 | 03.15.12 | 1500 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SB-031512 | 03.15.12 | 1500 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| EB-NBZ-SS-031512 | 03.15.12 | 1430 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SS-031512 | 03.15.12 | 1430 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| Relinquished by: (*Signature*) | Date/Time 3/15/2012 / 1630 | | Received for Laboratory by: (*Signature*) Suzette Lehman | | | | | | | Laboratory: Lancaster Laboratories, Inc. |
| Received by: (*Signature*) Suzette Lehman | Date/Time 3/16/12 1025 | | Airbill No.(s) | | | | | | | |

**Nicole Maljovec**

**From:** Nicole Maljovec
**Sent:** Thursday, March 22, 2012 12:34 PM
**To:** Nicole Maljovec
**Subject:** FW: SSFL COC

**Attachments:** COC_LLI_03_21_12.xlsx

COC_LLI_03_21_12
.xlsx (17 KB)

Adjusted spacing to fit on one page- NLM 3/22/12 -----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Wednesday, March 21, 2012 7:47 PM
To: Nicole Maljovec; SA Env Entry
Subject: SSFL COC

Nicole,

You are right, it should be "SS".

We shipped samples and one set of EBs today. We will ship another set tomorrow.

Thanks!

Pam
Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

---

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Wednesday, March 21, 2012 8:20 AM
To: Hartman, Pamela
Subject: Sample Discrepancies

Hi Pam,
I don't think my emails made it to you. So I'm trying again, but this time I'm replying to one of your emails.

I have COC and sample label discrepancies for you. Both SL-019-NBZ-SB-0.0-0.5 and SL-NBZ-SB-0.0-0.5 (on COC) have "SS" on the bottle labels. Based on the depth, we assume the "SS" is correct.
Pleas confirm and I'll update the COCs.

Thanks!
Nicole
-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Tuesday, March 13, 2012 7:39 PM
To: Natalie R. Luciano; SA Env Entry
Cc: Nicole Maljovec
Subject: SSFL COC 3/13/12

Please see attached COC for samples to arrive tomorrow.

Thank you,
Pamela Hartman
CDM Smith
532 W 6th St #400
Los Angeles, CA 90014
Cell- 714-900-0916
Direct 818-466-8007

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# DX161

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2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

March 28, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/17/2012
Group Number: 1296008
SDG: DX161
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-053-NBZ-SS-0.0-0.5 Soil | 6582509 |
| SL-053-NBZ-SB-3.5-4.5 Soil | 6582510 |
| SL-056-NBZ-SS-0.0-0.5 Soil | 6582511 |
| SL-056-NBZ-SB-3.0-4.0 Soil | 6582512 |
| SL-067-NBZ-SB-1.5-2.5 Soil | 6582513 |
| SL-068-NBZ-SB-2.5-3.5 Soil | 6582514 |
| SL-068-NBZ-SB-2.5-3.5 MS Soil | 6582515 |
| SL-068-NBZ-SB-2.5-3.5 MSD Soil | 6582516 |
| SL-072-NBZ-SB-4.0-5.0 Soil | 6582517 |
| DUP-01-NBZ-QC-031612 Soil | 6582518 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

# Analysis Report



**Sample Description:** SL-053-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-NBZ-SS

**LLI Sample # SW 6582509**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 14:20

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6101 SDG#: DX161-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 1.6 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-053-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-NBZ-SS

**LLI Sample # SW 6582509**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 14:20

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6101 SDG#: DX161-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.198 | JB | 0.0258 | 1.01 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.307 | J | 0.0323 | 5.04 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.314 | JB | 0.0227 | 5.04 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 1.14 | JB | 0.0242 | 5.04 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.721 | JB | 0.0238 | 5.04 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 25.7 | B | 0.0363 | 5.04 | 1 |
| 11031 | OCDD | 3268-87-9 | 234 | B | 0.0246 | 10.1 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 1.49 | BC | 0.0990 | 1.01 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 3.06 | JB | 0.0430 | 5.04 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 3.22 | JB | 0.0424 | 5.04 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 2.40 | JB | 0.0280 | 5.04 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 1.45 | JB | 0.0251 | 5.04 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0307 | U | 0.0307 | 5.04 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.828 | JB | 0.0252 | 5.04 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 7.52 | B | 0.0198 | 5.04 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.912 | JB | 0.0291 | 5.04 | 1 |
| 11031 | OCDF | 39001-02-0 | 16.6 | B | 0.0200 | 10.1 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 84 | 25 - 164 |
| 13C12-12378-PeCDD | 88 | 25 - 181 |
| 13C12-123478-HxCDD | 85 | 32 - 141 |
| 13C12-123678-HxCDD | 85 | 28 - 130 |
| 13C12-123789-HxCDD | 85 | 28 - 130 |
| 13C12-1234678-HpCDD | 86 | 23 - 140 |
| 13C12-OCDD | 79 | 17 - 157 |
| 13C12-2378-TCDF | 82 | 24 - 169 |
| 13C12-12378-PeCDF | 91 | 24 - 185 |
| 13C12-23478-PeCDF | 83 | 21 - 178 |
| 13C12-123478-HxCDF | 78 | 26 - 152 |
| 13C12-123678-HxCDF | 85 | 26 - 123 |
| 13C12-234678-HxCDF | 80 | 28 - 136 |
| 13C12-123789-HxCDF | 79 | 29 - 147 |
| 13C12-1234678-HpCDF | 94 | 28 - 143 |
| 13C12-1234789-HpCDF | 73 | 26 - 138 |
| 13C12-OCDF | 69 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-053-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-NBZ-SS

**LLI Sample # SW 6582509**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 14:20

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6101 SDG#: DX161-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-053-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-NBZ-SS

**LLI Sample # SW 6582509**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 14:20

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6101 SDG#: DX161-01

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12081002 | 03/22/2012 19:44 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12081002 | 03/21/2012 14:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401A | 03/23/2012 17:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-053-NBZ-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-NBZ-SB

**LLI Sample # SW 6582510**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 15:00

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6102 SDG#: DX161-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 4.0 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-053-NBZ-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-NBZ-SB

**LLI Sample # SW 6582510**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 15:00

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6102 SDG#: DX161-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0364 U | 0.0364 | 1.03 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0470 J | 0.0370 | 5.15 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0564 JBQ | 0.0213 | 5.15 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0440 JBQ | 0.0219 | 5.15 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0761 JB | 0.0216 | 5.15 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.788 JB | 0.0245 | 5.15 | 1 |
| 11031 | OCDD | 3268-87-9 | 3.98 JB | 0.0169 | 10.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0403 U | 0.0403 | 1.03 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0982 JBQ | 0.0195 | 5.15 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0920 JB | 0.0192 | 5.15 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0782 JBQ | 0.0173 | 5.15 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0540 JBQ | 0.0151 | 5.15 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0811 JBQ | 0.0178 | 5.15 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0407 JBQ | 0.0150 | 5.15 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.109 JB | 0.00990 | 5.15 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0497 JBQ | 0.0178 | 5.15 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.197 JB | 0.0279 | 10.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 71 | 25 - 164 |
| 13C12-12378-PeCDD | 85 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 82 | 28 - 130 |
| 13C12-123789-HxCDD | 82 | 28 - 130 |
| 13C12-1234678-HpCDD | 92 | 23 - 140 |
| 13C12-OCDD | 92 | 17 - 157 |
| 13C12-2378-TCDF | 61 | 24 - 169 |
| 13C12-12378-PeCDF | 83 | 24 - 185 |
| 13C12-23478-PeCDF | 74 | 21 - 178 |
| 13C12-123478-HxCDF | 65 | 26 - 152 |
| 13C12-123678-HxCDF | 78 | 26 - 123 |
| 13C12-234678-HxCDF | 73 | 28 - 136 |
| 13C12-123789-HxCDF | 67 | 29 - 147 |
| 13C12-1234678-HpCDF | 106 | 28 - 143 |
| 13C12-1234789-HpCDF | 66 | 26 - 138 |
| 13C12-OCDF | 66 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-053-NBZ-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-NBZ-SB

**LLI Sample # SW 6582510**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 15:00

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6102 SDG#: DX161-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-053-NBZ-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-NBZ-SB

**LLI Sample # SW 6582510**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 15:00

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6102 SDG#: DX161-02

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12081002 | 03/22/2012 20:40 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12081002 | 03/21/2012 14:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401A | 03/23/2012 17:42 | Scott W Freisher | 1 |

eurofins | Lancaster Laboratories

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# Analysis Report



**Sample Description:** SL-056-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-NBZ-SS

**LLI Sample # SW 6582511**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 15:35

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6103 SDG#: DX161-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 24.9 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-056-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-NBZ-SS

**LLI Sample # SW 6582511**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 15:35

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6103 SDG#: DX161-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.133 | JB | 0.0354 | 1.29 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.432 | J | 0.0453 | 6.45 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.511 | JB | 0.0361 | 6.45 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 1.48 | JB | 0.0364 | 6.45 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 1.25 | JB | 0.0366 | 6.45 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 39.9 | B | 0.0598 | 6.45 | 1 |
| 11031 | OCDD | 3268-87-9 | 610 | B | 0.0387 | 12.9 | 1 |
| 11650 | 2378-TCDF-Conf | 51207-31-9 | 2.83 | BC | 0.123 | 1.29 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 4.63 | JB | 0.0579 | 6.45 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 4.70 | JB | 0.0587 | 6.45 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 3.41 | JB | 0.0402 | 6.45 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 1.84 | JB | 0.0372 | 6.45 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0403 | U | 0.0403 | 6.45 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 1.08 | JB | 0.0369 | 6.45 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 6.42 | JB | 0.0196 | 6.45 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.961 | JB | 0.0302 | 6.45 | 1 |
| 11031 | OCDF | 39001-02-0 | 14.0 | B | 0.0261 | 12.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 84 | 25 - 164 |
| 13C12-2378-TCDF-Conf | 67 | 24 - 169 |
| 13C12-12378-PeCDD | 85 | 25 - 181 |
| 13C12-123478-HxCDD | 85 | 32 - 141 |
| 13C12-123678-HxCDD | 85 | 28 - 130 |
| 13C12-123789-HxCDD | 86 | 28 - 130 |
| 13C12-1234678-HpCDD | 87 | 23 - 140 |
| 13C12-OCDD | 83 | 17 - 157 |
| 13C12-12378-PeCDF | 88 | 24 - 185 |
| 13C12-23478-PeCDF | 80 | 21 - 178 |
| 13C12-123478-HxCDF | 77 | 26 - 152 |
| 13C12-123678-HxCDF | 85 | 26 - 123 |
| 13C12-234678-HxCDF | 80 | 28 - 136 |
| 13C12-123789-HxCDF | 83 | 29 - 147 |
| 13C12-1234678-HpCDF | 98 | 28 - 143 |
| 13C12-1234789-HpCDF | 72 | 26 - 138 |
| 13C12-OCDF | 70 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-056-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-NBZ-SS

**LLI Sample # SW 6582511**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 15:35

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6103 SDG#: DX161-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-056-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-NBZ-SS

**LLI Sample # SW 6582511**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 15:35

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6103 SDG#: DX161-03

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12081002 | 03/22/2012 21:37 | Joseph D Anderson | 1 |
| 11650 | Dioxins/Furans in Solids-Conf | EPA 1613B | 1 | 12081002 | 03/26/2012 16:55 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12081002 | 03/21/2012 14:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401A | 03/23/2012 17:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-056-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-NBZ-SB

**LLI Sample # SW 6582512**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 15:50

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6104 SDG#: DX161-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 20.4 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-056-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-NBZ-SB

**LLI Sample # SW 6582512**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 15:50

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6104 SDG#: DX161-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0638 JBQ | 0.0330 | 1.22 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.159 JQ | 0.0317 | 6.10 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0661 JBQ | 0.0234 | 6.10 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.127 JBQ | 0.0260 | 6.10 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.132 JBQ | 0.0239 | 6.10 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.475 JB | 0.0240 | 6.10 | 1 |
| 11031 | OCDD | 3268-87-9 | 2.43 JB | 0.0186 | 12.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0555 JBQ | 0.0371 | 1.22 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.197 JBQ | 0.0206 | 6.10 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.208 JBQ | 0.0206 | 6.10 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.178 JB | 0.0187 | 6.10 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.123 JB | 0.0162 | 6.10 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.145 JB | 0.0193 | 6.10 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.101 JBQ | 0.0157 | 6.10 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.179 JB | 0.0111 | 6.10 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0840 JBQ | 0.0196 | 6.10 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.266 JBQ | 0.0293 | 12.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 73 | 25 - 164 |
| 13C12-12378-PeCDD | 84 | 25 - 181 |
| 13C12-123478-HxCDD | 85 | 32 - 141 |
| 13C12-123678-HxCDD | 81 | 28 - 130 |
| 13C12-123789-HxCDD | 83 | 28 - 130 |
| 13C12-1234678-HpCDD | 91 | 23 - 140 |
| 13C12-OCDD | 86 | 17 - 157 |
| 13C12-2378-TCDF | 64 | 24 - 169 |
| 13C12-12378-PeCDF | 83 | 24 - 185 |
| 13C12-23478-PeCDF | 75 | 21 - 178 |
| 13C12-123478-HxCDF | 67 | 26 - 152 |
| 13C12-123678-HxCDF | 80 | 26 - 123 |
| 13C12-234678-HxCDF | 75 | 28 - 136 |
| 13C12-123789-HxCDF | 69 | 29 - 147 |
| 13C12-1234678-HpCDF | 107 | 28 - 143 |
| 13C12-1234789-HpCDF | 66 | 26 - 138 |
| 13C12-OCDF | 64 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-056-NBZ-SB-3.0-4.0 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-056-NBZ-SB**

**LLI Sample # SW 6582512**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 15:50

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6104 SDG#: DX161-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-056-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-NBZ-SB

**LLI Sample # SW 6582512**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/15/2012 15:50

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6104 SDG#: DX161-04

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12081002 | 03/22/2012 22:33 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12081002 | 03/21/2012 14:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401A | 03/23/2012 17:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-067-NBZ-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-NBZ-SB

**LLI Sample # SW 6582513**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 11:45

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6105 SDG#: DX161-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 7.6 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-067-NBZ-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-NBZ-SB

**LLI Sample # SW 6582513**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 11:45

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6105 SDG#: DX161-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0258 U | 0.0258 | 1.07 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0728 JQ | 0.0219 | 5.35 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0244 JBQ | 0.0172 | 5.35 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0697 JB | 0.0174 | 5.35 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0446 JB | 0.0172 | 5.35 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.320 JBQ | 0.0165 | 5.35 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.823 JB | 0.0135 | 10.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0263 U | 0.0263 | 1.07 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0621 JBQ | 0.0134 | 5.35 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0830 JB | 0.0139 | 5.35 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0477 JB | 0.0113 | 5.35 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0538 JB | 0.0106 | 5.35 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0649 JB | 0.0127 | 5.35 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0415 JB | 0.0103 | 5.35 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.110 JB | 0.00866 | 5.35 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0482 JBQ | 0.0136 | 5.35 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.136 JB | 0.0177 | 10.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 75 | 25 - 164 |
| 13C12-12378-PeCDD | 86 | 25 - 181 |
| 13C12-123478-HxCDD | 87 | 32 - 141 |
| 13C12-123678-HxCDD | 87 | 28 - 130 |
| 13C12-123789-HxCDD | 85 | 28 - 130 |
| 13C12-1234678-HpCDD | 94 | 23 - 140 |
| 13C12-OCDD | 89 | 17 - 157 |
| 13C12-2378-TCDF | 67 | 24 - 169 |
| 13C12-12378-PeCDF | 87 | 24 - 185 |
| 13C12-23478-PeCDF | 78 | 21 - 178 |
| 13C12-123478-HxCDF | 75 | 26 - 152 |
| 13C12-123678-HxCDF | 85 | 26 - 123 |
| 13C12-234678-HxCDF | 79 | 28 - 136 |
| 13C12-123789-HxCDF | 74 | 29 - 147 |
| 13C12-1234678-HpCDF | 105 | 28 - 143 |
| 13C12-1234789-HpCDF | 71 | 26 - 138 |
| 13C12-OCDF | 70 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-067-NBZ-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-NBZ-SB

**LLI Sample # SW 6582513**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 11:45

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6105 SDG#: DX161-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-067-NBZ-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-NBZ-SB

**LLI Sample # SW 6582513**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 11:45

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6105 SDG#: DX161-05

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12081002 | 03/22/2012 23:30 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12081002 | 03/21/2012 14:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401A | 03/23/2012 17:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-068-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-NBZ-SB

**LLI Sample # SW 6582514**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 10:15

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6106 SDG#: DX161-06BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 8.7 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-068-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-NBZ-SB

**LLI Sample # SW 6582514**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 10:15

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6106 SDG#: DX161-06BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0599 | JB | 0.0291 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.148 | J | 0.0242 | 5.43 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0799 | JBQ | 0.0180 | 5.43 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.114 | JBQ | 0.0194 | 5.43 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.115 | JB | 0.0180 | 5.43 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.342 | JB | 0.0179 | 5.43 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.563 | JB | 0.0149 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0577 | JB | 0.0228 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.155 | JB | 0.0137 | 5.43 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.149 | JB | 0.0142 | 5.43 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.147 | JBQ | 0.0134 | 5.43 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0979 | JB | 0.0114 | 5.43 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.118 | JB | 0.0150 | 5.43 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.108 | JBQ | 0.0119 | 5.43 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.110 | JB | 0.00734 | 5.43 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0242 | JBQ | 0.0127 | 5.43 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.189 | JB | 0.0211 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 71 | 25 - 164 |
| 13C12-12378-PeCDD | 83 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 83 | 28 - 130 |
| 13C12-123789-HxCDD | 84 | 28 - 130 |
| 13C12-1234678-HpCDD | 85 | 23 - 140 |
| 13C12-OCDD | 83 | 17 - 157 |
| 13C12-2378-TCDF | 66 | 24 - 169 |
| 13C12-12378-PeCDF | 85 | 24 - 185 |
| 13C12-23478-PeCDF | 76 | 21 - 178 |
| 13C12-123478-HxCDF | 71 | 26 - 152 |
| 13C12-123678-HxCDF | 81 | 26 - 123 |
| 13C12-234678-HxCDF | 74 | 28 - 136 |
| 13C12-123789-HxCDF | 69 | 29 - 147 |
| 13C12-1234678-HpCDF | 100 | 28 - 143 |
| 13C12-1234789-HpCDF | 66 | 26 - 138 |
| 13C12-OCDF | 65 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-068-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-NBZ-SB

**LLI Sample # SW 6582514**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 10:15

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6106 SDG#: DX161-06BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-068-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-NBZ-SB

**LLI Sample # SW 6582514**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 10:15

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6106 SDG#: DX161-06BKG

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12081002 | 03/23/2012 04:26 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12081002 | 03/21/2012 14:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 2 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-068-NBZ-SB-2.5-3.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-068-NBZ-SB

**LLI Sample # SW 6582515**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 10:15

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6106 SDG#: DX161-06MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 8.7 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-068-NBZ-SB-2.5-3.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-068-NBZ-SB

**LLI Sample # SW 6582515**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 10:15

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6106 SDG#: DX161-06MS

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 20.2 | B | 0.0287 | 1.08 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 101 | | 0.0330 | 5.41 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 96.1 | B | 0.0294 | 5.41 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 95.6 | B | 0.0303 | 5.41 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 101 | B | 0.0304 | 5.41 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 97.9 | B | 0.0319 | 5.41 | 1 |
| 11031 | OCDD | 3268-87-9 | 194 | B | 0.0215 | 10.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 19.6 | B | 0.0296 | 1.08 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 101 | B | 0.0225 | 5.41 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 95.1 | B | 0.0217 | 5.41 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 97.7 | B | 0.0348 | 5.41 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 98.7 | B | 0.0327 | 5.41 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 98.4 | B | 0.0371 | 5.41 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 94.2 | B | 0.0325 | 5.41 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 90.9 | B | 0.0269 | 5.41 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 95.9 | B | 0.0413 | 5.41 | 1 |
| 11031 | OCDF | 39001-02-0 | 195 | B | 0.0235 | 10.8 | 1 |

| **Labeled Compounds** | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 74 | 25 - 164 |
| 13C12-12378-PeCDD | 81 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 82 | 28 - 130 |
| 13C12-123789-HxCDD | 84 | 28 - 130 |
| 13C12-1234678-HpCDD | 85 | 23 - 140 |
| 13C12-OCDD | 81 | 17 - 157 |
| 13C12-2378-TCDF | 68 | 24 - 169 |
| 13C12-12378-PeCDF | 84 | 24 - 185 |
| 13C12-23478-PeCDF | 78 | 21 - 178 |
| 13C12-123478-HxCDF | 73 | 26 - 152 |
| 13C12-123678-HxCDF | 80 | 26 - 123 |
| 13C12-234678-HxCDF | 76 | 28 - 136 |
| 13C12-123789-HxCDF | 74 | 29 - 147 |
| 13C12-1234678-HpCDF | 95 | 28 - 143 |
| 13C12-1234789-HpCDF | 68 | 26 - 138 |
| 13C12-OCDF | 66 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-068-NBZ-SB-2.5-3.5 MS Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-068-NBZ-SB**

**LLI Sample # SW 6582515**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 10:15

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6106 SDG#: DX161-06MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-068-NBZ-SB-2.5-3.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-068-NBZ-SB

**LLI Sample # SW 6582515**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 10:15

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6106 SDG#: DX161-06MS

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12081002 | 03/23/2012 05:23 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12081002 | 03/21/2012 14:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 2 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-068-NBZ-SB-2.5-3.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-068-NBZ-SB

**LLI Sample # SW 6582516**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 10:15

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6106 SDG#: DX161-06MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 8.7 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-068-NBZ-SB-2.5-3.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-068-NBZ-SB

**LLI Sample # SW 6582516**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 10:15

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6106 SDG#: DX161-06MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 20.4 | B | 0.0267 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 98.0 | | 0.0358 | 5.47 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 98.4 | B | 0.0265 | 5.47 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 96.3 | B | 0.0279 | 5.47 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 103 | B | 0.0265 | 5.47 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 99.9 | B | 0.0322 | 5.47 | 1 |
| 11031 | OCDD | 3268-87-9 | 199 | B | 0.0252 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 20.0 | B | 0.0276 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 103 | B | 0.0226 | 5.47 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 98.1 | B | 0.0241 | 5.47 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 99.3 | B | 0.0375 | 5.47 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 99.8 | B | 0.0324 | 5.47 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 101 | B | 0.0415 | 5.47 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 98.7 | B | 0.0327 | 5.47 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 93.4 | B | 0.0294 | 5.47 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 96.6 | B | 0.0471 | 5.47 | 1 |
| 11031 | OCDF | 39001-02-0 | 198 | B | 0.0284 | 10.9 | 1 |

| **Labeled Compounds** | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 85 | 25 - 164 |
| 13C12-12378-PeCDD | 91 | 25 - 181 |
| 13C12-123478-HxCDD | 92 | 32 - 141 |
| 13C12-123678-HxCDD | 95 | 28 - 130 |
| 13C12-123789-HxCDD | 94 | 28 - 130 |
| 13C12-1234678-HpCDD | 99 | 23 - 140 |
| 13C12-OCDD | 92 | 17 - 157 |
| 13C12-2378-TCDF | 79 | 24 - 169 |
| 13C12-12378-PeCDF | 93 | 24 - 185 |
| 13C12-23478-PeCDF | 83 | 21 - 178 |
| 13C12-123478-HxCDF | 80 | 26 - 152 |
| 13C12-123678-HxCDF | 92 | 26 - 123 |
| 13C12-234678-HxCDF | 86 | 28 - 136 |
| 13C12-123789-HxCDF | 83 | 29 - 147 |
| 13C12-1234678-HpCDF | 110 | 28 - 143 |
| 13C12-1234789-HpCDF | 77 | 26 - 138 |
| 13C12-OCDF | 71 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-068-NBZ-SB-2.5-3.5 MSD Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-068-NBZ-SB**

**LLI Sample # SW 6582516**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 10:15

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6106 SDG#: DX161-06MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-068-NBZ-SB-2.5-3.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-068-NBZ-SB

**LLI Sample # SW 6582516**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 10:15

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6106 SDG#: DX161-06MSD

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12081002 | 03/23/2012 06:19 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12081002 | 03/21/2012 14:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 2 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-072-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-NBZ-SB

**LLI Sample # SW 6582517**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 14:45

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6107 SDG#: DX161-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 9.9 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-072-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-NBZ-SB

**LLI Sample # SW 6582517**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 14:45

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6107 SDG#: DX161-07

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0875 | JB | 0.0250 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.348 | J | 0.0230 | 5.44 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.215 | JB | 0.0147 | 5.44 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.238 | JB | 0.0159 | 5.44 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.260 | JB | 0.0147 | 5.44 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.436 | JB | 0.0162 | 5.44 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.833 | JB | 0.0139 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0865 | JB | 0.0222 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.428 | JB | 0.0134 | 5.44 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.371 | JB | 0.0134 | 5.44 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.314 | JB | 0.0142 | 5.44 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.287 | JB | 0.0120 | 5.44 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.278 | JBQ | 0.0156 | 5.44 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.229 | JB | 0.0127 | 5.44 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.212 | JB | 0.00744 | 5.44 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.184 | JB | 0.0142 | 5.44 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.376 | JB | 0.0209 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 74 | 25 - 164 |
| 13C12-12378-PeCDD | 87 | 25 - 181 |
| 13C12-123478-HxCDD | 88 | 32 - 141 |
| 13C12-123678-HxCDD | 87 | 28 - 130 |
| 13C12-123789-HxCDD | 88 | 28 - 130 |
| 13C12-1234678-HpCDD | 92 | 23 - 140 |
| 13C12-OCDD | 87 | 17 - 157 |
| 13C12-2378-TCDF | 68 | 24 - 169 |
| 13C12-12378-PeCDF | 89 | 24 - 185 |
| 13C12-23478-PeCDF | 77 | 21 - 178 |
| 13C12-123478-HxCDF | 70 | 26 - 152 |
| 13C12-123678-HxCDF | 86 | 26 - 123 |
| 13C12-234678-HxCDF | 77 | 28 - 136 |
| 13C12-123789-HxCDF | 67 | 29 - 147 |
| 13C12-1234678-HpCDF | 108 | 28 - 143 |
| 13C12-1234789-HpCDF | 64 | 26 - 138 |
| 13C12-OCDF | 61 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-072-NBZ-SB-4.0-5.0 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-072-NBZ-SB**

**LLI Sample # SW 6582517**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 14:45

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6107 SDG#: DX161-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-072-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-NBZ-SB

**LLI Sample # SW 6582517**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 14:45

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6107 SDG#: DX161-07

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12081002 | 03/23/2012 07:16 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12081002 | 03/21/2012 14:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401A | 03/23/2012 17:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** DUP-01-NBZ-QC-031612 Soil
SSFL Area IV Collocated Soil Sampling
DUP-01-NBZ

**LLI Sample # SW 6582518**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 11:45

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6108 SDG#: DX161-08FD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 8.5 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-01-NBZ-QC-031612 Soil
SSFL Area IV Collocated Soil Sampling
DUP-01-NBZ

**LLI Sample # SW 6582518**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 11:45

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6108 SDG#: DX161-08FD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0911 | JB | 0.0299 | 1.07 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.252 | JQ | 0.0269 | 5.33 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.118 | JB | 0.0187 | 5.33 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.151 | JB | 0.0200 | 5.33 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.155 | JB | 0.0202 | 5.33 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.265 | JB | 0.0165 | 5.33 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.462 | JB | 0.0154 | 10.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0556 | JB | 0.0271 | 1.07 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.283 | JB | 0.0152 | 5.33 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.290 | JB | 0.0162 | 5.33 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.210 | JBQ | 0.0156 | 5.33 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.163 | JBQ | 0.0129 | 5.33 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.156 | JB | 0.0190 | 5.33 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.139 | JB | 0.0136 | 5.33 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.150 | JB | 0.00874 | 5.33 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0920 | JBQ | 0.0170 | 5.33 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.161 | JB | 0.0245 | 10.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 62 | 25 - 164 |
| 13C12-12378-PeCDD | 74 | 25 - 181 |
| 13C12-123478-HxCDD | 72 | 32 - 141 |
| 13C12-123678-HxCDD | 72 | 28 - 130 |
| 13C12-123789-HxCDD | 70 | 28 - 130 |
| 13C12-1234678-HpCDD | 74 | 23 - 140 |
| 13C12-OCDD | 68 | 17 - 157 |
| 13C12-2378-TCDF | 56 | 24 - 169 |
| 13C12-12378-PeCDF | 77 | 24 - 185 |
| 13C12-23478-PeCDF | 66 | 21 - 178 |
| 13C12-123478-HxCDF | 57 | 26 - 152 |
| 13C12-123678-HxCDF | 68 | 26 - 123 |
| 13C12-234678-HxCDF | 61 | 28 - 136 |
| 13C12-123789-HxCDF | 51 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 51 | 26 - 138 |
| 13C12-OCDF | 48 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-01-NBZ-QC-031612 Soil
SSFL Area IV Collocated Soil Sampling
DUP-01-NBZ

**LLI Sample # SW 6582518**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 11:45

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6108 SDG#: DX161-08FD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-01-NBZ-QC-031612 Soil
SSFL Area IV Collocated Soil Sampling
DUP-01-NBZ

**LLI Sample # SW 6582518**
**LLI Group # 1296008**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/16/2012 11:45

Submitted: 03/17/2012 09:30
Reported: 03/28/2012 10:44

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6108 SDG#: DX161-08FD

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12081002 | 03/23/2012 08:12 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12081002 | 03/21/2012 14:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401A | 03/23/2012 17:42 | Scott W Freisher | 1 |

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1296008
Reported: 03/28/12 at 10:44 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12083162401A | Sample number(s): 6582509-6582513,6582517-6582518 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Batch number: 12086162401A | Sample number(s): 6582514-6582516 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12081002 | Sample number(s): 6582509-6582518 | | | | | | | | |
| 2378-TCDD | 0.0482 J | 0.0272 | 1.00 | ng/kg | 96 | | 67-158 | | |
| 12378-PeCDD | 0.0282 U | 0.0282 | 5.00 | ng/kg | 94 | | 70-142 | | |
| 123478-HxCDD | 0.0387 J | 0.0185 | 5.00 | ng/kg | 89 | | 70-164 | | |
| 123678-HxCDD | 0.0857 J | 0.0188 | 5.00 | ng/kg | 89 | | 76-134 | | |
| 123789-HxCDD | 0.0355 J | 0.0189 | 5.00 | ng/kg | 96 | | 64-162 | | |
| 1234678-HpCDD | 0.270 J | 0.0202 | 5.00 | ng/kg | 93 | | 70-140 | | |
| OCDD | 0.350 J | 0.0132 | 10.0 | ng/kg | 91 | | 78-144 | | |
| 2378-TCDF | 0.0415 J | 0.0287 | 1.00 | ng/kg | 97 | | 75-158 | | |
| 2378-TCDF-Conf | 0.0228 U | 0.0228 | 1.00 | ng/kg | 97 | | 75-158 | | |
| 12378-PeCDF | 0.0473 J | 0.0137 | 5.00 | ng/kg | 92 | | 80-134 | | |
| 23478-PeCDF | 0.0971 J | 0.0131 | 5.00 | ng/kg | 90 | | 68-160 | | |
| 123478-HxCDF | 0.0386 J | 0.0134 | 5.00 | ng/kg | 91 | | 72-134 | | |
| 123678-HxCDF | 0.0509 J | 0.0125 | 5.00 | ng/kg | 90 | | 84-130 | | |
| 123789-HxCDF | 0.0742 J | 0.0146 | 5.00 | ng/kg | 91 | | 78-130 | | |
| 234678-HxCDF | 0.0445 J | 0.0130 | 5.00 | ng/kg | 88 | | 70-156 | | |
| 1234678-HpCDF | 0.113 J | 0.00810 | 5.00 | ng/kg | 85 | | 82-122 | | |
| 1234789-HpCDF | 0.0630 J | 0.0127 | 5.00 | ng/kg | 91 | | 78-138 | | |
| OCDF | 0.147 J | 0.0218 | 10.0 | ng/kg | 90 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12083162401A | Sample number(s): 6582509-6582513,6582517-6582518 | | | | | BKG: P582502 | | | |
| Moisture Content by 160.3 | | | | | | 7.4 | 6.0 | 21* | 20 |
| Batch number: 12086162401A | Sample number(s): 6582514-6582516 | | | | | BKG: P582502 | | | |
| Moisture Content by 160.3 | | | | | | 8.7 | 8.8 | 1 | 20 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1296008
Reported: 03/28/12 at 10:44 AM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12081002 | Sample number(s): 6582509-6582518 UNSPK: 6582514 | | | | | | | | |
| 2378-TCDD | 93 | 93 | 67-158 | 1 | 25 | | | | |
| 12378-PeCDD | 93 | 89 | 70-142 | 3 | 25 | | | | |
| 123478-HxCDD | 89 | 90 | 70-164 | 2 | 25 | | | | |
| 123678-HxCDD | 88 | 88 | 76-134 | 1 | 25 | | | | |
| 123789-HxCDD | 94 | 95 | 64-162 | 2 | 25 | | | | |
| 1234678-HpCDD | 90 | 91 | 70-140 | 2 | 25 | | | | |
| OCDD | 90 | 91 | 78-144 | 2 | 25 | | | | |
| 2378-TCDF | 90 | 91 | 75-158 | 2 | 25 | | | | |
| 2378-TCDF-Conf | 90 | 91 | 75-158 | 2 | 25 | | | | |
| 12378-PeCDF | 94 | 94 | 80-134 | 2 | 25 | | | | |
| 23478-PeCDF | 88 | 90 | 68-160 | 3 | 25 | | | | |
| 123478-HxCDF | 90 | 91 | 72-134 | 2 | 25 | | | | |
| 123678-HxCDF | 91 | 91 | 84-130 | 1 | 25 | | | | |
| 123789-HxCDF | 91 | 92 | 78-130 | 2 | 25 | | | | |
| 234678-HxCDF | 87 | 90 | 70-156 | 5 | 25 | | | | |
| 1234678-HpCDF | 84 | 85 | 82-122 | 3 | 25 | | | | |
| 1234789-HpCDF | 89 | 88 | 78-138 | 1 | 25 | | | | |
| OCDF | 90 | 90 | 63-170 | 1 | 25 | | | | |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12081002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6582509 | 84 | 83 | 78 | 85 | 80 | 79 |
| 6582510 | 71 | 74 | 65 | 78 | 73 | 67 |
| 6582511 | 84 | 80 | 77 | 85 | 80 | 83 |
| 6582512 | 73 | 75 | 67 | 80 | 75 | 69 |
| 6582513 | 75 | 78 | 75 | 85 | 79 | 74 |
| 6582514 | 71 | 76 | 71 | 81 | 74 | 69 |
| 6582515 | 74 | 78 | 73 | 80 | 76 | 74 |
| 6582516 | 85 | 83 | 80 | 92 | 86 | 83 |
| 6582517 | 74 | 77 | 70 | 86 | 77 | 67 |
| 6582518 | 62 | 66 | 57 | 68 | 61 | 51 |
| Blank | 84 | 86 | 80 | 90 | 84 | 81 |
| MS | 74 | 78 | 73 | 80 | 76 | 74 |
| MSD | 85 | 83 | 80 | 92 | 86 | 83 |
| OPR | 72 | 75 | 68 | 81 | 73 | 66 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6582509 | 94 | 73 | 69 | 88 | 85 | 85 |
| 6582510 | 106 | 66 | 66 | 85 | 83 | 82 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1296008
Reported: 03/28/12 at 10:44 AM

## Surrogate Quality Control

| | | | | | | |
|---|---|---|---|---|---|---|
| 6582511 | 98 | 72 | 70 | 85 | 85 | 85 |
| 6582512 | 107 | 66 | 64 | 84 | 85 | 81 |
| 6582513 | 105 | 71 | 70 | 86 | 87 | 87 |
| 6582514 | 100 | 66 | 65 | 83 | 83 | 83 |
| 6582515 | 95 | 68 | 66 | 81 | 84 | 82 |
| 6582516 | 110 | 77 | 71 | 91 | 92 | 95 |
| 6582517 | 108 | 64 | 61 | 87 | 88 | 87 |
| 6582518 | 86 | 51 | 48 | 74 | 72 | 72 |
| Blank | 113 | 77 | 77 | 95 | 96 | 95 |
| MS | 95 | 68 | 66 | 81 | 84 | 82 |
| MSD | 110 | 77 | 71 | 91 | 92 | 95 |
| OPR | 104 | 64 | 64 | 87 | 87 | 86 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF | 13C12-2378-TCDF-Conf |
|---|---|---|---|---|---|---|
| 6582509 | 85 | 86 | 79 | 82 | 91 | |
| 6582510 | 82 | 92 | 92 | 61 | 83 | |
| 6582511 | 86 | 87 | 83 | | 88 | 67 |
| 6582512 | 83 | 91 | 86 | 64 | 83 | |
| 6582513 | 85 | 94 | 89 | 67 | 87 | |
| 6582514 | 84 | 85 | 83 | 66 | 85 | |
| 6582515 | 84 | 85 | 81 | 68 | 84 | |
| 6582516 | 94 | 99 | 92 | 79 | 93 | |
| 6582517 | 88 | 92 | 87 | 68 | 89 | |
| 6582518 | 70 | 74 | 68 | 56 | 77 | |
| Blank | 94 | 98 | 98 | 76 | 94 | 64 |
| MS | 84 | 85 | 81 | 68 | 84 | 68 |
| MSD | 94 | 99 | 92 | 79 | 93 | 79 |
| OPR | 86 | 89 | 87 | 65 | 85 | 65 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 | 24-169 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp#12960008 Sample# 6582509-18

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSES | SECONDARY ANALYSES | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C.<br><br>Samplers Signatures: | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-053-NBZ-SS-0.0-0.5 | 3.15.12 | 1420 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-053-NBZ-SB-3.5-4.5 | 3.15.12 | 1500 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-056-NBZ-~~SB~~-0.0-0.5 SS | 3.15.12 | 1535 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-056-NBZ-SB-3.0-4.0 | 3.15.12 | 1550 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-067-NBZ-SB-1.5-2.5 | 3.16.12 | 1145 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-068-NBZ-SB-2.5-3.5MS | 3.16.12 | 1015 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | MS/MSD |
| SL-072-NBZ-SB-4.0-5.0 | 3.16.12 | 1445 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| DUP-01-NBZ-QC-031612 | 3.16.12 | 1145 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| Relinquished by: (*Signature*) | Date/Time<br>3/16/2012 / 1630 | | Received for Laboratory by: (*Signature*) | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s)<br>8767 9858 7537 | | | | | | | |

3-19-12 930

SL-056-NBZ-SB-0.0-0.5 was updated to SL-056-NBZ-SS-0.0-0.5 per the bottle labels, and it was confirmed by PH. NM 3/22/12

**Nicole Maljovec**

**From:** Nicole Maljovec
**Sent:** Thursday, March 22, 2012 12:34 PM
**To:** Nicole Maljovec
**Subject:** FW: SSFL COC

**Attachments:** COC_LLI_03_21_12.xlsx

COC_LLI_03_21_12
.xlsx (17 KB)

Adjusted spacing to fit on one page- NLM 3/22/12 -----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Wednesday, March 21, 2012 7:47 PM
To: Nicole Maljovec; SA Env Entry
Subject: SSFL COC

Nicole,

You are right, it should be "SS".

We shipped samples and one set of EBs today. We will ship another set tomorrow.

Thanks!

Pam
Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

---

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Wednesday, March 21, 2012 8:20 AM
To: Hartman, Pamela
Subject: Sample Discrepancies

Hi Pam,
I don't think my emails made it to you. So I'm trying again, but this time I'm replying to one of your emails.

I have COC and sample label discrepancies for you. Both SL-019-NBZ-SB-0.0-0.5 and SL-NBZ-SB-0.0-0.5 (on COC) have "SS" on the bottle labels. Based on the depth, we assume the "SS" is correct.
Pleas confirm and I'll update the COCs.

Thanks!
Nicole
-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Tuesday, March 13, 2012 7:39 PM
To: Natalie R. Luciano; SA Env Entry
Cc: Nicole Maljovec
Subject: SSFL COC 3/13/12

Please see attached COC for samples to arrive tomorrow.

Thank you,
Pamela Hartman
CDM Smith
532 W 6th St #400
Los Angeles, CA 90014
Cell- 714-900-0916
Direct 818-466-8007

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 11, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/22/2012
Group Number: 1296974
SDG: DX161
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-071-NBZ-SB-4.0-5.0 Soil | 6587633 |
| SL-073-NBZ-SB-4.0-5.0 Soil | 6587634 |
| SL-073-NBZ-SB-9.0-10.0 Soil | 6587635 |
| SL-074-NBZ-SB-0.5-1.5 Soil | 6587636 |
| SL-069-NBZ-SB-3.0-4.0 Soil | 6587637 |
| SL-070-NBZ-SS-0.0-0.5 Soil | 6587638 |
| SL-075-NBZ-SS-0.0-0.5 Soil | 6587639 |
| SL-076-NBZ-SS-0.0-0.5 Soil | 6587640 |
| SL-077-NBZ-SS-0.0-0.5 Soil | 6587641 |
| SL-077-NBZ-SB-2.5-3.5 Soil | 6587642 |
| SL-065-NBZ-SB-1.0-2.0 Soil | 6587643 |
| SL-066-NBZ-SB-2.0-3.0 Soil | 6587644 |
| EB-NBZ-SS-032112 Water | 6587645 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

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Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-071-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-NBZ-SB

**LLI Sample # SW 6587633**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/19/2012 09:35

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6109 SDG#: DX161-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 3.4 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-071-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-NBZ-SB

**LLI Sample # SW 6587633**
**LLI Group # 1296974**
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**Project Name: SSFL Area IV Collocated Soil Sampling**

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CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6109 SDG#: DX161-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0286 JB | 0.0172 | 1.03 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0588 JBQ | 0.0192 | 5.13 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0420 JBQ | 0.0144 | 5.13 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0659 JBQ | 0.0152 | 5.13 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0660 JB | 0.0145 | 5.13 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.316 JB | 0.0157 | 5.13 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.661 JB | 0.0133 | 10.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0272 JB | 0.0185 | 1.03 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0918 JB | 0.0115 | 5.13 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0881 JB | 0.0114 | 5.13 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0638 JB | 0.00994 | 5.13 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0644 JB | 0.00942 | 5.13 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0463 JBQ | 0.0120 | 5.13 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0414 JB | 0.00963 | 5.13 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.0902 JB | 0.00735 | 5.13 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0442 JBQ | 0.0119 | 5.13 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.128 JB | 0.0204 | 10.3 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 70 | 25 - 164 |
| 13C12-12378-PeCDD | 74 | 25 - 181 |
| 13C12-123478-HxCDD | 81 | 32 - 141 |
| 13C12-123678-HxCDD | 79 | 28 - 130 |
| 13C12-123789-HxCDD | 80 | 28 - 130 |
| 13C12-1234678-HpCDD | 76 | 23 - 140 |
| 13C12-OCDD | 69 | 17 - 157 |
| 13C12-2378-TCDF | 65 | 24 - 169 |
| 13C12-12378-PeCDF | 75 | 24 - 185 |
| 13C12-23478-PeCDF | 68 | 21 - 178 |
| 13C12-123478-HxCDF | 73 | 26 - 152 |
| 13C12-123678-HxCDF | 82 | 26 - 123 |
| 13C12-234678-HxCDF | 76 | 28 - 136 |
| 13C12-123789-HxCDF | 67 | 29 - 147 |
| 13C12-1234678-HpCDF | 93 | 28 - 143 |
| 13C12-1234789-HpCDF | 61 | 26 - 138 |
| 13C12-OCDF | 55 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-071-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-NBZ-SB

**LLI Sample # SW 6587633**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/19/2012 09:35

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6109 SDG#: DX161-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-071-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-NBZ-SB

**LLI Sample # SW 6587633**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/19/2012 09:35

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6109 SDG#: DX161-09

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12088002 | 03/30/2012 03:44 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12088002 | 03/28/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-073-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-NBZ-SB

**LLI Sample # SW 6587634**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/19/2012 14:40

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6110 SDG#: DX161-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 7.5 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-073-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-NBZ-SB

**LLI Sample # SW 6587634**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/19/2012 14:40

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6110 SDG#: DX161-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0275 JBQ | 0.0166 | 1.08 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0205 U | 0.0205 | 5.41 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0211 JBQ | 0.0160 | 5.41 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0666 JBQ | 0.0166 | 5.41 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0539 JBQ | 0.0168 | 5.41 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.257 JB | 0.0181 | 5.41 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.568 JB | 0.0137 | 10.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0155 U | 0.0155 | 1.08 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0275 JBQ | 0.0106 | 5.41 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0728 JB | 0.0107 | 5.41 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0465 JBQ | 0.0103 | 5.41 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.00930 U | 0.00930 | 5.41 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0428 JBQ | 0.0115 | 5.41 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0300 JBQ | 0.00951 | 5.41 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.0946 JB | 0.00670 | 5.41 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0372 JBQ | 0.0123 | 5.41 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.152 JBQ | 0.0208 | 10.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 77 | 25 - 164 |
| 13C12-12378-PeCDD | 71 | 25 - 181 |
| 13C12-123478-HxCDD | 80 | 32 - 141 |
| 13C12-123678-HxCDD | 79 | 28 - 130 |
| 13C12-123789-HxCDD | 79 | 28 - 130 |
| 13C12-1234678-HpCDD | 75 | 23 - 140 |
| 13C12-OCDD | 68 | 17 - 157 |
| 13C12-2378-TCDF | 64 | 24 - 169 |
| 13C12-12378-PeCDF | 74 | 24 - 185 |
| 13C12-23478-PeCDF | 66 | 21 - 178 |
| 13C12-123478-HxCDF | 72 | 26 - 152 |
| 13C12-123678-HxCDF | 81 | 26 - 123 |
| 13C12-234678-HxCDF | 74 | 28 - 136 |
| 13C12-123789-HxCDF | 73 | 29 - 147 |
| 13C12-1234678-HpCDF | 96 | 28 - 143 |
| 13C12-1234789-HpCDF | 57 | 26 - 138 |
| 13C12-OCDF | 51 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-073-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-NBZ-SB

**LLI Sample # SW 6587634**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/19/2012 14:40

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6110 SDG#: DX161-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-073-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-NBZ-SB

**LLI Sample # SW 6587634**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/19/2012 14:40

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6110 SDG#: DX161-10

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12088002 | 03/30/2012 04:40 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12088002 | 03/28/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-073-NBZ-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-NBZ-SB

**LLI Sample # SW 6587635**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/19/2012 13:40

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6111 SDG#: DX161-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 8.6 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-073-NBZ-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-NBZ-SB

**LLI Sample # SW 6587635**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/19/2012 13:40

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CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6111 SDG#: DX161-11

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0150 | U | 0.0150 | 1.07 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0189 | U | 0.0189 | 5.33 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0132 | U | 0.0132 | 5.33 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0461 | JBQ | 0.0140 | 5.33 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0431 | JBQ | 0.0139 | 5.33 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.254 | JB | 0.0164 | 5.33 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.496 | JB | 0.0120 | 10.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0254 | JBQ | 0.0152 | 1.07 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0440 | JBQ | 0.00941 | 5.33 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0663 | JBQ | 0.0101 | 5.33 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0371 | JBQ | 0.00952 | 5.33 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0330 | JB | 0.00755 | 5.33 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0337 | JBQ | 0.0116 | 5.33 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0301 | JB | 0.00821 | 5.33 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.0752 | JB | 0.00602 | 5.33 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0391 | JB | 0.0128 | 5.33 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.119 | JB | 0.0209 | 10.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 78 | 25 - 164 |
| 13C12-12378-PeCDD | 78 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 84 | 28 - 130 |
| 13C12-123789-HxCDD | 82 | 28 - 130 |
| 13C12-1234678-HpCDD | 79 | 23 - 140 |
| 13C12-OCDD | 71 | 17 - 157 |
| 13C12-2378-TCDF | 67 | 24 - 169 |
| 13C12-12378-PeCDF | 83 | 24 - 185 |
| 13C12-23478-PeCDF | 68 | 21 - 178 |
| 13C12-123478-HxCDF | 72 | 26 - 152 |
| 13C12-123678-HxCDF | 87 | 26 - 123 |
| 13C12-234678-HxCDF | 75 | 28 - 136 |
| 13C12-123789-HxCDF | 62 | 29 - 147 |
| 13C12-1234678-HpCDF | 103 | 28 - 143 |
| 13C12-1234789-HpCDF | 54 | 26 - 138 |
| 13C12-OCDF | 49 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-073-NBZ-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-NBZ-SB

**LLI Sample # SW 6587635**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/19/2012 13:40

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CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6111 SDG#: DX161-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-073-NBZ-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-NBZ-SB

**LLI Sample # SW 6587635**
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3201 Jermantown Road
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X6111 SDG#: DX161-11

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12088002 | 03/30/2012 05:37 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12088002 | 03/28/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-074-NBZ-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-NBZ-SB

**LLI Sample # SW 6587636**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/19/2012 10:55

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6112 SDG#: DX161-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 3.4 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-074-NBZ-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-NBZ-SB

**LLI Sample # SW 6587636**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/19/2012 10:55

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6112 SDG#: DX161-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0331 U | 0.0331 | 1.03 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0564 JQ | 0.0323 | 5.13 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0224 U | 0.0224 | 5.13 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0977 JBQ | 0.0227 | 5.13 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.279 JB | 0.0231 | 5.13 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.336 JBQ | 0.0237 | 5.13 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.538 JB | 0.0170 | 10.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0468 U | 0.0468 | 1.03 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0279 JB | 0.0186 | 5.13 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0698 JBQ | 0.0179 | 5.13 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0247 JBQ | 0.0138 | 5.13 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0128 U | 0.0128 | 5.13 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0456 JB | 0.0157 | 5.13 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0289 JBQ | 0.0125 | 5.13 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.0655 JB | 0.00942 | 5.13 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0419 JBQ | 0.0157 | 5.13 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.153 JB | 0.0281 | 10.3 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 66 | 25 - 164 |
| 13C12-12378-PeCDD | 75 | 25 - 181 |
| 13C12-123478-HxCDD | 76 | 32 - 141 |
| 13C12-123678-HxCDD | 78 | 28 - 130 |
| 13C12-123789-HxCDD | 76 | 28 - 130 |
| 13C12-1234678-HpCDD | 81 | 23 - 140 |
| 13C12-OCDD | 81 | 17 - 157 |
| 13C12-2378-TCDF | 26 | 24 - 169 |
| 13C12-12378-PeCDF | 71 | 24 - 185 |
| 13C12-23478-PeCDF | 68 | 21 - 178 |
| 13C12-123478-HxCDF | 69 | 26 - 152 |
| 13C12-123678-HxCDF | 76 | 26 - 123 |
| 13C12-234678-HxCDF | 72 | 28 - 136 |
| 13C12-123789-HxCDF | 70 | 29 - 147 |
| 13C12-1234678-HpCDF | 97 | 28 - 143 |
| 13C12-1234789-HpCDF | 65 | 26 - 138 |
| 13C12-OCDF | 62 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-074-NBZ-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-NBZ-SB

**LLI Sample # SW 6587636**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/19/2012 10:55

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6112 SDG#: DX161-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-074-NBZ-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-NBZ-SB

**LLI Sample # SW 6587636**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/19/2012 10:55

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6112 SDG#: DX161-12

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12097002 | 04/09/2012 19:28 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12097002 | 04/06/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-069-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-NBZ-SB

**LLI Sample # SW 6587637**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 14:30

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6113 SDG#: DX161-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 4.8 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-069-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-NBZ-SB

**LLI Sample # SW 6587637**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 14:30

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6113 SDG#: DX161-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0509 JBQ | 0.0182 | 1.04 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.217 JB | 0.0183 | 5.21 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.177 JBQ | 0.0155 | 5.21 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.206 JBQ | 0.0171 | 5.21 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.210 JB | 0.0162 | 5.21 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.665 JB | 0.0171 | 5.21 | 1 |
| 11031 | OCDD | 3268-87-9 | 8.68 JB | 0.0143 | 10.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0187 U | 0.0187 | 1.04 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.221 JB | 0.0111 | 5.21 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.220 JB | 0.0120 | 5.21 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.185 JB | 0.0122 | 5.21 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.169 JBQ | 0.0103 | 5.21 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.177 JB | 0.0136 | 5.21 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.157 JB | 0.0111 | 5.21 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.192 JB | 0.00651 | 5.21 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.151 JB | 0.0132 | 5.21 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.437 JB | 0.0214 | 10.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 86 | 25 - 164 |
| 13C12-12378-PeCDD | 81 | 25 - 181 |
| 13C12-123478-HxCDD | 87 | 32 - 141 |
| 13C12-123678-HxCDD | 86 | 28 - 130 |
| 13C12-123789-HxCDD | 86 | 28 - 130 |
| 13C12-1234678-HpCDD | 83 | 23 - 140 |
| 13C12-OCDD | 75 | 17 - 157 |
| 13C12-2378-TCDF | 69 | 24 - 169 |
| 13C12-12378-PeCDF | 84 | 24 - 185 |
| 13C12-23478-PeCDF | 71 | 21 - 178 |
| 13C12-123478-HxCDF | 79 | 26 - 152 |
| 13C12-123678-HxCDF | 93 | 26 - 123 |
| 13C12-234678-HxCDF | 80 | 28 - 136 |
| 13C12-123789-HxCDF | 75 | 29 - 147 |
| 13C12-1234678-HpCDF | 113 | 28 - 143 |
| 13C12-1234789-HpCDF | 60 | 26 - 138 |
| 13C12-OCDF | 52 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-069-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-NBZ-SB

**LLI Sample # SW 6587637**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 14:30

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6113 SDG#: DX161-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-069-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-NBZ-SB

**LLI Sample # SW 6587637**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 14:30

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6113 SDG#: DX161-13

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12088002 | 03/30/2012 07:30 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12088002 | 03/28/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-070-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-NBZ-SS

**LLI Sample # SW 6587638**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 15:25

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6114 SDG#: DX161-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 12.7 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-070-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-NBZ-SS

**LLI Sample # SW 6587638**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 15:25

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6114 SDG#: DX161-14

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0545 | JBQ | 0.0197 | 1.13 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.145 | JB | 0.0269 | 5.67 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.648 | JB | 0.0375 | 5.67 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 5.48 | JB | 0.0392 | 5.67 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 1.17 | JB | 0.0377 | 5.67 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 220 | B | 0.111 | 5.67 | 1 |
| 11031 | OCDD | 3268-87-9 | 2,820 | B | 0.0459 | 11.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0944 | JBQ | 0.0328 | 1.13 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 1.01 | JB | 0.0211 | 5.67 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.300 | JB | 0.0231 | 5.67 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 1.51 | JB | 0.0326 | 5.67 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 1.33 | JB | 0.0291 | 5.67 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.348 | JB | 0.0388 | 5.67 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 2.14 | JB | 0.0306 | 5.67 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 119 | B | 0.0395 | 5.67 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 6.05 | B | 0.0837 | 5.67 | 1 |
| 11031 | OCDF | 39001-02-0 | 518 | B | 0.0360 | 11.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 80 | 25 - 164 |
| 13C12-12378-PeCDD | 74 | 25 - 181 |
| 13C12-123478-HxCDD | 80 | 32 - 141 |
| 13C12-123678-HxCDD | 77 | 28 - 130 |
| 13C12-123789-HxCDD | 79 | 28 - 130 |
| 13C12-1234678-HpCDD | 77 | 23 - 140 |
| 13C12-OCDD | 74 | 17 - 157 |
| 13C12-2378-TCDF | 67 | 24 - 169 |
| 13C12-12378-PeCDF | 78 | 24 - 185 |
| 13C12-23478-PeCDF | 66 | 21 - 178 |
| 13C12-123478-HxCDF | 72 | 26 - 152 |
| 13C12-123678-HxCDF | 84 | 26 - 123 |
| 13C12-234678-HxCDF | 74 | 28 - 136 |
| 13C12-123789-HxCDF | 67 | 29 - 147 |
| 13C12-1234678-HpCDF | 99 | 28 - 143 |
| 13C12-1234789-HpCDF | 55 | 26 - 138 |
| 13C12-OCDF | 51 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-070-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-NBZ-SS

**LLI Sample # SW 6587638**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 15:25

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6114 SDG#: DX161-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-070-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-NBZ-SS

**LLI Sample # SW 6587638**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 15:25

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6114 SDG#: DX161-14

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12088002 | 03/30/2012 08:27 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12088002 | 03/28/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-075-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-NBZ-SS

**LLI Sample # SW 6587639**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 09:00

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6115 SDG#: DX161-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 8.9 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-075-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-NBZ-SS

**LLI Sample # SW 6587639**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 09:00

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6115 SDG#: DX161-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0273 JBQ | 0.0217 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0956 JBQ | 0.0282 | 5.43 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.219 JB | 0.0266 | 5.43 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.503 JB | 0.0290 | 5.43 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.329 JBQ | 0.0274 | 5.43 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 9.73 B | 0.0302 | 5.43 | 1 |
| 11031 | OCDD | 3268-87-9 | 100 B | 0.0235 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.161 JB | 0.0402 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.922 JB | 0.0289 | 5.43 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.291 JB | 0.0283 | 5.43 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.390 JBQ | 0.0206 | 5.43 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.224 JB | 0.0182 | 5.43 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0679 JB | 0.0226 | 5.43 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.206 JB | 0.0180 | 5.43 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 2.04 JB | 0.0142 | 5.43 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.144 JB | 0.0228 | 5.43 | 1 |
| 11031 | OCDF | 39001-02-0 | 6.08 JB | 0.0234 | 10.9 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 86 | 25 - 164 |
| 13C12-12378-PeCDD | 84 | 25 - 181 |
| 13C12-123478-HxCDD | 89 | 32 - 141 |
| 13C12-123678-HxCDD | 90 | 28 - 130 |
| 13C12-123789-HxCDD | 90 | 28 - 130 |
| 13C12-1234678-HpCDD | 87 | 23 - 140 |
| 13C12-OCDD | 83 | 17 - 157 |
| 13C12-2378-TCDF | 77 | 24 - 169 |
| 13C12-12378-PeCDF | 86 | 24 - 185 |
| 13C12-23478-PeCDF | 78 | 21 - 178 |
| 13C12-123478-HxCDF | 85 | 26 - 152 |
| 13C12-123678-HxCDF | 94 | 26 - 123 |
| 13C12-234678-HxCDF | 87 | 28 - 136 |
| 13C12-123789-HxCDF | 83 | 29 - 147 |
| 13C12-1234678-HpCDF | 101 | 28 - 143 |
| 13C12-1234789-HpCDF | 72 | 26 - 138 |
| 13C12-OCDF | 69 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-075-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-NBZ-SS

**LLI Sample # SW 6587639**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 09:00

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6115 SDG#: DX161-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-075-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-NBZ-SS

**LLI Sample # SW 6587639**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 09:00

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6115 SDG#: DX161-15

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12088002 | 03/30/2012 09:23 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12088002 | 03/28/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-076-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-NBZ-SS

**LLI Sample # SW 6587640**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 09:35

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6116 SDG#: DX161-16

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 12.7 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-076-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-NBZ-SS

**LLI Sample # SW 6587640**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 09:35

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6116 SDG#: DX161-16

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0584 | JB | 0.0221 | 1.14 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.261 | JB | 0.0318 | 5.69 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.273 | JB | 0.0254 | 5.69 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.727 | JB | 0.0286 | 5.69 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.485 | JB | 0.0266 | 5.69 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 15.0 | B | 0.0415 | 5.69 | 1 |
| 11031 | OCDD | 3268-87-9 | 151 | B | 0.0245 | 11.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.272 | JB | 0.0487 | 1.14 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 1.15 | JB | 0.0299 | 5.69 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.605 | JB | 0.0320 | 5.69 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.544 | JB | 0.0245 | 5.69 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.340 | JB | 0.0227 | 5.69 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.113 | JB | 0.0290 | 5.69 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.299 | JB | 0.0233 | 5.69 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 2.90 | JB | 0.0213 | 5.69 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.214 | JB | 0.0372 | 5.69 | 1 |
| 11031 | OCDF | 39001-02-0 | 9.40 | JB | 0.0228 | 11.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 79 | 25 - 164 |
| 13C12-12378-PeCDD | 76 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 79 | 28 - 130 |
| 13C12-123789-HxCDD | 81 | 28 - 130 |
| 13C12-1234678-HpCDD | 77 | 23 - 140 |
| 13C12-OCDD | 69 | 17 - 157 |
| 13C12-2378-TCDF | 70 | 24 - 169 |
| 13C12-12378-PeCDF | 80 | 24 - 185 |
| 13C12-23478-PeCDF | 69 | 21 - 178 |
| 13C12-123478-HxCDF | 76 | 26 - 152 |
| 13C12-123678-HxCDF | 85 | 26 - 123 |
| 13C12-234678-HxCDF | 77 | 28 - 136 |
| 13C12-123789-HxCDF | 69 | 29 - 147 |
| 13C12-1234678-HpCDF | 92 | 28 - 143 |
| 13C12-1234789-HpCDF | 60 | 26 - 138 |
| 13C12-OCDF | 56 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-076-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-NBZ-SS

**LLI Sample # SW 6587640**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 09:35

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6116 SDG#: DX161-16

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-076-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-NBZ-SS

**LLI Sample # SW 6587640**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 09:35

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6116 SDG#: DX161-16

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12088002 | 03/30/2012 10:20 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12088002 | 03/28/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-077-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-NBZ-SS

**LLI Sample # SW 6587641**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 10:20

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6117 SDG#: DX161-17

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 14.0 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-077-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-NBZ-SS

**LLI Sample # SW 6587641**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 10:20

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6117 SDG#: DX161-17

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0762 | JB | 0.0236 | 1.15 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.278 | JB | 0.0336 | 5.76 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.378 | JB | 0.0290 | 5.76 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.937 | JB | 0.0310 | 5.76 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.705 | JB | 0.0284 | 5.76 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 23.4 | B | 0.0448 | 5.76 | 1 |
| 11031 | OCDD | 3268-87-9 | 229 | B | 0.0263 | 11.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.584 | JB | 0.0679 | 1.15 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 1.55 | JB | 0.0357 | 5.76 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.960 | JB | 0.0376 | 5.76 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.892 | JB | 0.0273 | 5.76 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.517 | JB | 0.0231 | 5.76 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.176 | JB | 0.0315 | 5.76 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.589 | JB | 0.0249 | 5.76 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 4.71 | JB | 0.0166 | 5.76 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.415 | JB | 0.0322 | 5.76 | 1 |
| 11031 | OCDF | 39001-02-0 | 14.5 | B | 0.0285 | 11.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 77 | 25 - 164 |
| 13C12-12378-PeCDD | 75 | 25 - 181 |
| 13C12-123478-HxCDD | 81 | 32 - 141 |
| 13C12-123678-HxCDD | 79 | 28 - 130 |
| 13C12-123789-HxCDD | 80 | 28 - 130 |
| 13C12-1234678-HpCDD | 74 | 23 - 140 |
| 13C12-OCDD | 72 | 17 - 157 |
| 13C12-2378-TCDF | 70 | 24 - 169 |
| 13C12-12378-PeCDF | 78 | 24 - 185 |
| 13C12-23478-PeCDF | 68 | 21 - 178 |
| 13C12-123478-HxCDF | 73 | 26 - 152 |
| 13C12-123678-HxCDF | 84 | 26 - 123 |
| 13C12-234678-HxCDF | 74 | 28 - 136 |
| 13C12-123789-HxCDF | 67 | 29 - 147 |
| 13C12-1234678-HpCDF | 94 | 28 - 143 |
| 13C12-1234789-HpCDF | 57 | 26 - 138 |
| 13C12-OCDF | 55 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-077-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-NBZ-SS

**LLI Sample # SW 6587641**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 10:20

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6117 SDG#: DX161-17

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-077-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-NBZ-SS

**LLI Sample # SW 6587641**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 10:20

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6117 SDG#: DX161-17

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12088002 | 03/30/2012 14:28 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12088002 | 03/28/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

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2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

# Analysis Report



**Sample Description:** SL-077-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-NBZ-SB

**LLI Sample # SW 6587642**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 10:50

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6118 SDG#: DX161-18

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 6.2 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-077-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-NBZ-SB

**LLI Sample # SW 6587642**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 10:50

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6118 SDG#: DX161-18

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0272 JBQ | 0.0203 | 1.06 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0414 JBQ | 0.0208 | 5.29 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0273 JB | 0.0198 | 5.29 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0798 JBQ | 0.0203 | 5.29 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0657 JB | 0.0200 | 5.29 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.20 JBQ | 0.0263 | 5.29 | 1 |
| 11031 | OCDD | 3268-87-9 | 10.8 B | 0.0164 | 10.6 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0228 U | 0.0228 | 1.06 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.166 JB | 0.0152 | 5.29 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0733 JB | 0.0160 | 5.29 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0950 JB | 0.0152 | 5.29 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0486 JBQ | 0.0140 | 5.29 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0177 U | 0.0177 | 5.29 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0450 JB | 0.0145 | 5.29 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.295 JB | 0.00981 | 5.29 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0571 JB | 0.0193 | 5.29 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.823 JB | 0.0281 | 10.6 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 75 | 25 - 164 |
| 13C12-12378-PeCDD | 73 | 25 - 181 |
| 13C12-123478-HxCDD | 79 | 32 - 141 |
| 13C12-123678-HxCDD | 77 | 28 - 130 |
| 13C12-123789-HxCDD | 79 | 28 - 130 |
| 13C12-1234678-HpCDD | 74 | 23 - 140 |
| 13C12-OCDD | 65 | 17 - 157 |
| 13C12-2378-TCDF | 64 | 24 - 169 |
| 13C12-12378-PeCDF | 77 | 24 - 185 |
| 13C12-23478-PeCDF | 66 | 21 - 178 |
| 13C12-123478-HxCDF | 70 | 26 - 152 |
| 13C12-123678-HxCDF | 80 | 26 - 123 |
| 13C12-234678-HxCDF | 73 | 28 - 136 |
| 13C12-123789-HxCDF | 66 | 29 - 147 |
| 13C12-1234678-HpCDF | 95 | 28 - 143 |
| 13C12-1234789-HpCDF | 53 | 26 - 138 |
| 13C12-OCDF | 47 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-077-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-NBZ-SB

**LLI Sample # SW 6587642**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 10:50

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6118 SDG#: DX161-18

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-077-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-NBZ-SB

**LLI Sample # SW 6587642**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/20/2012 10:50

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6118 SDG#: DX161-18

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12088002 | 03/30/2012 15:25 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12088002 | 03/28/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-065-NBZ-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-NBZ-SB

**LLI Sample # SW 6587643**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 10:55

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6119 SDG#: DX161-19

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 5.7 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-065-NBZ-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-NBZ-SB

**LLI Sample # SW 6587643**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 10:55

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6119 SDG#: DX161-19

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0370 | JB | 0.0172 | 1.05 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.200 | JB | 0.0195 | 5.26 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.192 | JB | 0.0179 | 5.26 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.288 | JB | 0.0180 | 5.26 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.392 | JB | 0.0181 | 5.26 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.33 | JB | 0.0208 | 5.26 | 1 |
| 11031 | OCDD | 3268-87-9 | 8.53 | JB | 0.0103 | 10.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0989 | JB | 0.0323 | 1.05 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.309 | JB | 0.0171 | 5.26 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.445 | JB | 0.0174 | 5.26 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.408 | JB | 0.0160 | 5.26 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.220 | JB | 0.0139 | 5.26 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.193 | JB | 0.0185 | 5.26 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.238 | JB | 0.0150 | 5.26 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.534 | JB | 0.00870 | 5.26 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.212 | JBQ | 0.0155 | 5.26 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.08 | JB | 0.0190 | 10.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 78 | 25 - 164 |
| 13C12-12378-PeCDD | 76 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 84 | 28 - 130 |
| 13C12-123789-HxCDD | 84 | 28 - 130 |
| 13C12-1234678-HpCDD | 79 | 23 - 140 |
| 13C12-OCDD | 76 | 17 - 157 |
| 13C12-2378-TCDF | 67 | 24 - 169 |
| 13C12-12378-PeCDF | 79 | 24 - 185 |
| 13C12-23478-PeCDF | 68 | 21 - 178 |
| 13C12-123478-HxCDF | 74 | 26 - 152 |
| 13C12-123678-HxCDF | 86 | 26 - 123 |
| 13C12-234678-HxCDF | 76 | 28 - 136 |
| 13C12-123789-HxCDF | 69 | 29 - 147 |
| 13C12-1234678-HpCDF | 97 | 28 - 143 |
| 13C12-1234789-HpCDF | 57 | 26 - 138 |
| 13C12-OCDF | 56 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-065-NBZ-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-NBZ-SB

**LLI Sample # SW 6587643**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 10:55

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6119 SDG#: DX161-19

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-065-NBZ-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-NBZ-SB

**LLI Sample # SW 6587643**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 10:55

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6119 SDG#: DX161-19

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12088002 | 03/30/2012 19:14 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12088002 | 03/28/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-066-NBZ-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-NBZ-SB

**LLI Sample # SW 6587644**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 09:30

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6120 SDG#: DX161-20

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 2.8 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-066-NBZ-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-NBZ-SB

**LLI Sample # SW 6587644**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 09:30

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6120 SDG#: DX161-20

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0164 JBQ | 0.0148 | 1.03 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0604 JBQ | 0.0162 | 5.14 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0206 JB | 0.0118 | 5.14 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0649 JBQ | 0.0122 | 5.14 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0591 JB | 0.0117 | 5.14 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.336 JBQ | 0.0174 | 5.14 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.824 JB | 0.0114 | 10.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0166 JBQ | 0.0157 | 1.03 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0515 JBQ | 0.0111 | 5.14 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0582 JB | 0.0115 | 5.14 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0654 JB | 0.00957 | 5.14 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0473 JBQ | 0.00885 | 5.14 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0539 JB | 0.0115 | 5.14 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0508 JB | 0.00926 | 5.14 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.113 JBQ | 0.00566 | 5.14 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0284 JBQ | 0.0107 | 5.14 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.185 JB | 0.0207 | 10.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 71 | 25 - 164 |
| 13C12-12378-PeCDD | 72 | 25 - 181 |
| 13C12-123478-HxCDD | 81 | 32 - 141 |
| 13C12-123678-HxCDD | 78 | 28 - 130 |
| 13C12-123789-HxCDD | 79 | 28 - 130 |
| 13C12-1234678-HpCDD | 75 | 23 - 140 |
| 13C12-OCDD | 66 | 17 - 157 |
| 13C12-2378-TCDF | 61 | 24 - 169 |
| 13C12-12378-PeCDF | 73 | 24 - 185 |
| 13C12-23478-PeCDF | 65 | 21 - 178 |
| 13C12-123478-HxCDF | 69 | 26 - 152 |
| 13C12-123678-HxCDF | 78 | 26 - 123 |
| 13C12-234678-HxCDF | 73 | 28 - 136 |
| 13C12-123789-HxCDF | 63 | 29 - 147 |
| 13C12-1234678-HpCDF | 90 | 28 - 143 |
| 13C12-1234789-HpCDF | 54 | 26 - 138 |
| 13C12-OCDF | 47 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-066-NBZ-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-NBZ-SB

**LLI Sample # SW 6587644**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 09:30

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6120 SDG#: DX161-20

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-066-NBZ-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-NBZ-SB

**LLI Sample # SW 6587644**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 09:30

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6120 SDG#: DX161-20

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12088002 | 03/30/2012 20:11 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12088002 | 03/28/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12083162401B | 03/23/2012 17:42 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** EB-NBZ-SS-032112 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SS

**LLI Sample # WW 6587645**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 15:00

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6121 SDG#: DX161-21EB*

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | pg/l | | pg/l | pg/l | |
| 10915 | 2378-TCDD | 1746-01-6 | 0.296 | U | 0.296 | 1.90 | 1 |
| 10915 | 12378-PeCDD | 40321-76-4 | 0.415 | JBQ | 0.347 | 9.50 | 1 |
| 10915 | 123478-HxCDD | 39227-28-6 | 0.203 | U | 0.203 | 9.50 | 1 |
| 10915 | 123678-HxCDD | 57653-85-7 | 0.522 | JB | 0.220 | 9.50 | 1 |
| 10915 | 123789-HxCDD | 19408-74-3 | 0.557 | JBQ | 0.212 | 9.50 | 1 |
| 10915 | 1234678-HpCDD | 35822-46-9 | 3.73 | JB | 0.278 | 9.50 | 1 |
| 10915 | OCDD | 3268-87-9 | 6.15 | JB | 0.233 | 19.0 | 1 |
| 10915 | 2378-TCDF | 51207-31-9 | 0.240 | U | 0.240 | 1.90 | 1 |
| 10915 | 12378-PeCDF | 57117-41-6 | 0.447 | JBQ | 0.199 | 9.50 | 1 |
| 10915 | 23478-PeCDF | 57117-31-4 | 0.541 | JBQ | 0.169 | 9.50 | 1 |
| 10915 | 123478-HxCDF | 70648-26-9 | 0.720 | JBQ | 0.160 | 9.50 | 1 |
| 10915 | 123678-HxCDF | 57117-44-9 | 0.530 | JBQ | 0.165 | 9.50 | 1 |
| 10915 | 123789-HxCDF | 72918-21-9 | 0.333 | JB | 0.163 | 9.50 | 1 |
| 10915 | 234678-HxCDF | 60851-34-5 | 0.382 | JB | 0.139 | 9.50 | 1 |
| 10915 | 1234678-HpCDF | 67562-39-4 | 1.55 | JB | 0.131 | 9.50 | 1 |
| 10915 | 1234789-HpCDF | 55673-89-7 | 0.411 | JBQ | 0.157 | 9.50 | 1 |
| 10915 | OCDF | 39001-02-0 | 1.72 | JB | 0.292 | 19.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 52 | 25 - 164 |
| 13C12-12378-PeCDD | 49 | 25 - 181 |
| 13C12-123478-HxCDD | 48 | 32 - 141 |
| 13C12-123678-HxCDD | 50 | 28 - 130 |
| 13C12-123789-HxCDD | 48 | 28 - 130 |
| 13C12-1234678-HpCDD | 49 | 23 - 140 |
| 13C12-OCDD | 43 | 17 - 157 |
| 13C12-2378-TCDF | 49 | 24 - 169 |
| 13C12-12378-PeCDF | 46 | 24 - 185 |
| 13C12-23478-PeCDF | 47 | 21 - 178 |
| 13C12-123478-HxCDF | 44 | 26 - 152 |
| 13C12-123678-HxCDF | 44 | 26 - 123 |
| 13C12-234678-HxCDF | 48 | 28 - 136 |
| 13C12-123789-HxCDF | 48 | 29 - 147 |
| 13C12-1234678-HpCDF | 44 | 28 - 143 |
| 13C12-1234789-HpCDF | 44 | 26 - 138 |
| 13C12-OCDF | 40 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** **EB-NBZ-SS-032112 Water**
**SSFL Area IV Collocated Soil Sampling**
**EB-NBZ-SS**

**LLI Sample # WW 6587645**
**LLI Group # 1296974**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 15:00

Submitted: 03/22/2012 09:50
Reported: 04/11/2012 22:36

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6121 SDG#: DX161-21EB*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10915 | 10b Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12083002 | 03/27/2012 15:13 | Joseph D Anderson | 1 |
| 10914 | Dioxins/Furans in Water - SepF | EPA 1613B | 1 | 12083002 | 03/23/2012 08:00 | Deborah M Zimmerman | 1 |

*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1296974
Reported: 04/11/12 at 10:36 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12083162401B | Sample number(s): 6587633-6587644 | | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12083002 | Sample number(s): 6587645 | | | | | | | | | |
| 2378-TCDD | 0.264 | U | 0.264 | 2.00 | pg/l | 86 | | 67-158 | | |
| 12378-PeCDD | 0.425 | J | 0.286 | 10.0 | pg/l | 91 | | 70-142 | | |
| 123478-HxCDD | 0.305 | J | 0.227 | 10.0 | pg/l | 89 | | 70-164 | | |
| 123678-HxCDD | 0.887 | J | 0.227 | 10.0 | pg/l | 90 | | 76-134 | | |
| 123789-HxCDD | 0.597 | J | 0.226 | 10.0 | pg/l | 97 | | 64-162 | | |
| 1234678-HpCDD | 3.73 | J | 0.255 | 10.0 | pg/l | 93 | | 70-140 | | |
| OCDD | 6.73 | J | 0.255 | 20.0 | pg/l | 90 | | 78-144 | | |
| 2378-TCDF | 0.392 | J | 0.268 | 2.00 | pg/l | 91 | | 75-158 | | |
| 12378-PeCDF | 0.502 | J | 0.197 | 10.0 | pg/l | 95 | | 80-134 | | |
| 23478-PeCDF | 0.418 | J | 0.170 | 10.0 | pg/l | 92 | | 68-160 | | |
| 123478-HxCDF | 0.545 | J | 0.150 | 10.0 | pg/l | 88 | | 72-134 | | |
| 123678-HxCDF | 0.426 | J | 0.156 | 10.0 | pg/l | 86 | | 84-130 | | |
| 123789-HxCDF | 0.526 | J | 0.145 | 10.0 | pg/l | 88 | | 78-130 | | |
| 234678-HxCDF | 0.521 | J | 0.137 | 10.0 | pg/l | 85 | | 70-156 | | |
| 1234678-HpCDF | 1.70 | J | 0.128 | 10.0 | pg/l | 85 | | 82-122 | | |
| 1234789-HpCDF | 0.578 | J | 0.130 | 10.0 | pg/l | 88 | | 78-138 | | |
| OCDF | 1.47 | J | 0.268 | 20.0 | pg/l | 85 | | 63-170 | | |
| Batch number: 12088002 | Sample number(s): 6587633-6587635,6587637-6587644 | | | | | | | | | |
| 2378-TCDD | 0.0203 | J | 0.0168 | 1.00 | ng/kg | 88 | | 67-158 | | |
| 12378-PeCDD | 0.0457 | J | 0.0178 | 5.00 | ng/kg | 88 | | 70-142 | | |
| 123478-HxCDD | 0.0486 | J | 0.0135 | 5.00 | ng/kg | 89 | | 70-164 | | |
| 123678-HxCDD | 0.0445 | J | 0.0138 | 5.00 | ng/kg | 87 | | 76-134 | | |
| 123789-HxCDD | 0.0582 | J | 0.0140 | 5.00 | ng/kg | 95 | | 64-162 | | |
| 1234678-HpCDD | 0.281 | J | 0.0170 | 5.00 | ng/kg | 91 | | 70-140 | | |
| OCDD | 0.389 | J | 0.0129 | 10.0 | ng/kg | 90 | | 78-144 | | |
| 2378-TCDF | 0.0434 | J | 0.0177 | 1.00 | ng/kg | 97 | | 75-158 | | |
| 12378-PeCDF | 0.0446 | J | 0.0109 | 5.00 | ng/kg | 92 | | 80-134 | | |
| 23478-PeCDF | 0.0652 | J | 0.0119 | 5.00 | ng/kg | 90 | | 68-160 | | |
| 123478-HxCDF | 0.0440 | J | 0.0108 | 5.00 | ng/kg | 89 | | 72-134 | | |
| 123678-HxCDF | 0.0441 | J | 0.00940 | 5.00 | ng/kg | 89 | | 84-130 | | |
| 123789-HxCDF | 0.0487 | J | 0.0148 | 5.00 | ng/kg | 88 | | 78-130 | | |
| 234678-HxCDF | 0.0505 | J | 0.0100 | 5.00 | ng/kg | 88 | | 70-156 | | |
| 1234678-HpCDF | 0.0794 | J | 0.00640 | 5.00 | ng/kg | 85 | | 82-122 | | |
| 1234789-HpCDF | 0.0468 | J | 0.0143 | 5.00 | ng/kg | 90 | | 78-138 | | |
| OCDF | 0.147 | J | 0.0216 | 10.0 | ng/kg | 88 | | 63-170 | | |
| Batch number: 12097002 | Sample number(s): 6587636 | | | | | | | | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1296974
Reported: 04/11/12 at 10:36 PM

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| 2378-TCDD | 0.0465 J | 0.0341 | 1.00 | ng/kg | 90 | | 67-158 | | |
| 12378-PeCDD | 0.0294 U | 0.0294 | 5.00 | ng/kg | 93 | | 70-142 | | |
| 123478-HxCDD | 0.0341 J | 0.0217 | 5.00 | ng/kg | 93 | | 70-164 | | |
| 123678-HxCDD | 0.0590 J | 0.0223 | 5.00 | ng/kg | 91 | | 76-134 | | |
| 123789-HxCDD | 0.0673 J | 0.0214 | 5.00 | ng/kg | 99 | | 64-162 | | |
| 1234678-HpCDD | 0.325 J | 0.0255 | 5.00 | ng/kg | 97 | | 70-140 | | |
| OCDD | 0.480 J | 0.0183 | 10.0 | ng/kg | 95 | | 78-144 | | |
| 2378-TCDF | 0.0325 U | 0.0325 | 1.00 | ng/kg | 97 | | 75-158 | | |
| 12378-PeCDF | 0.0426 J | 0.0194 | 5.00 | ng/kg | 98 | | 80-134 | | |
| 23478-PeCDF | 0.0632 J | 0.0185 | 5.00 | ng/kg | 94 | | 68-160 | | |
| 123478-HxCDF | 0.0368 J | 0.0160 | 5.00 | ng/kg | 95 | | 72-134 | | |
| 123678-HxCDF | 0.0359 J | 0.0147 | 5.00 | ng/kg | 97 | | 84-130 | | |
| 123789-HxCDF | 0.0266 J | 0.0193 | 5.00 | ng/kg | 98 | | 78-130 | | |
| 234678-HxCDF | 0.0494 J | 0.0155 | 5.00 | ng/kg | 93 | | 70-156 | | |
| 1234678-HpCDF | 0.0852 J | 0.00880 | 5.00 | ng/kg | 91 | | 82-122 | | |
| 1234789-HpCDF | 0.0714 J | 0.0164 | 5.00 | ng/kg | 96 | | 78-138 | | |
| OCDF | 0.161 J | 0.0275 | 10.0 | ng/kg | 95 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12083162401B | Sample number(s): 6587633-6587644 | | | | | BKG: P587616 | | | |
| Moisture Content by 160.3 | | | | | | 7.5 | 7.6 | 2 | 20 |
| Batch number: 12097002 | Sample number(s): 6587636 | | | | UNSPK: P599832 | | | | |
| 2378-TCDD | 92 | 92 | 67-158 | 2 | 25 | | | | |
| 12378-PeCDD | 93 | 95 | 70-142 | 1 | 25 | | | | |
| 123478-HxCDD | 95 | 93 | 70-164 | 4 | 25 | | | | |
| 123678-HxCDD | 93 | 91 | 76-134 | 5 | 25 | | | | |
| 123789-HxCDD | 100 | 100 | 64-162 | 3 | 25 | | | | |
| 1234678-HpCDD | 97 | 96 | 70-140 | 4 | 25 | | | | |
| OCDD | 89 | 90 | 78-144 | 1 | 25 | | | | |
| 2378-TCDF | 91 | 97 | 75-158 | 3 | 25 | | | | |
| 12378-PeCDF | 102 | 101 | 80-134 | 3 | 25 | | | | |
| 23478-PeCDF | 96 | 96 | 68-160 | 3 | 25 | | | | |
| 123478-HxCDF | 98 | 93 | 72-134 | 7 | 25 | | | | |
| 123678-HxCDF | 95 | 97 | 84-130 | 2 | 25 | | | | |
| 123789-HxCDF | 95 | 97 | 78-130 | 0 | 25 | | | | |
| 234678-HxCDF | 95 | 94 | 70-156 | 4 | 25 | | | | |
| 1234678-HpCDF | 90 | 91 | 82-122 | 2 | 25 | | | | |
| 1234789-HpCDF | 96 | 96 | 78-138 | 3 | 25 | | | | |
| OCDF | 95 | 94 | 63-170 | 3 | 25 | | | | |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1296974
Reported: 04/11/12 at 10:36 PM

## Surrogate Quality Control

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 12083002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6587645 | 52 | 47 | 44 | 44 | 48 | 48 |
| Blank | 65 | 59 | 60 | 58 | 61 | 66 |
| OPR | 78 | 71 | 69 | 70 | 72 | 82 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6587645 | 44 | 44 | 40 | 49 | 48 | 50 |
| Blank | 58 | 63 | 58 | 63 | 62 | 62 |
| OPR | 70 | 69 | 65 | 76 | 77 | 74 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6587645 | 48 | 49 | 43 | 49 | 46 |
| Blank | 62 | 62 | 56 | 57 | 57 |
| OPR | 75 | 76 | 69 | 66 | 71 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12088002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6587633 | 70 | 68 | 73 | 82 | 76 | 67 |
| 6587634 | 77 | 66 | 72 | 81 | 74 | 73 |
| 6587635 | 78 | 68 | 72 | 87 | 75 | 62 |
| 6587637 | 86 | 71 | 79 | 93 | 80 | 75 |
| 6587638 | 80 | 66 | 72 | 84 | 74 | 67 |
| 6587639 | 86 | 78 | 85 | 94 | 87 | 83 |
| 6587640 | 79 | 69 | 76 | 85 | 77 | 69 |
| 6587641 | 77 | 68 | 73 | 84 | 74 | 67 |
| 6587642 | 75 | 66 | 70 | 80 | 73 | 66 |
| 6587643 | 78 | 68 | 74 | 86 | 76 | 69 |
| 6587644 | 71 | 65 | 69 | 78 | 73 | 63 |
| Blank | 69 | 62 | 66 | 79 | 67 | 56 |
| OPR | 74 | 66 | 67 | 81 | 70 | 62 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6587633 | 93 | 61 | 55 | 74 | 81 | 79 |
| 6587634 | 96 | 57 | 51 | 71 | 80 | 79 |
| 6587635 | 103 | 54 | 49 | 78 | 83 | 84 |
| 6587637 | 113 | 60 | 52 | 81 | 87 | 86 |
| 6587638 | 99 | 55 | 51 | 74 | 80 | 77 |
| 6587639 | 101 | 72 | 69 | 84 | 89 | 90 |
| 6587640 | 92 | 60 | 56 | 76 | 83 | 79 |
| 6587641 | 94 | 57 | 55 | 75 | 81 | 79 |
| 6587642 | 95 | 53 | 47 | 73 | 79 | 77 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1296974
Reported: 04/11/12 at 10:36 PM

## Surrogate Quality Control

| | | | | | | |
|---|---|---|---|---|---|---|
| 6587643 | 97 | 57 | 56 | 76 | 84 | 84 |
| 6587644 | 90 | 54 | 47 | 72 | 81 | 78 |
| Blank | 98 | 51 | 46 | 75 | 80 | 80 |
| OPR | 98 | 53 | 48 | 78 | 82 | 80 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6587633 | 80 | 76 | 69 | 65 | 75 |
| 6587634 | 79 | 75 | 68 | 64 | 74 |
| 6587635 | 82 | 79 | 71 | 67 | 83 |
| 6587637 | 86 | 83 | 75 | 69 | 84 |
| 6587638 | 79 | 77 | 74 | 67 | 78 |
| 6587639 | 90 | 87 | 83 | 77 | 86 |
| 6587640 | 81 | 77 | 69 | 70 | 80 |
| 6587641 | 80 | 74 | 72 | 70 | 78 |
| 6587642 | 79 | 74 | 65 | 64 | 77 |
| 6587643 | 84 | 79 | 76 | 67 | 79 |
| 6587644 | 79 | 75 | 66 | 61 | 73 |
| Blank | 79 | 75 | 69 | 58 | 73 |
| OPR | 80 | 77 | 71 | 61 | 78 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12097002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6587636 | 66 | 68 | 69 | 76 | 72 | 70 |
| Blank | 68 | 71 | 74 | 83 | 75 | 70 |
| MS | 74 | 77 | 74 | 79 | 75 | 76 |
| MSD | 68 | 71 | 71 | 75 | 72 | 68 |
| OPR | 78 | 75 | 77 | 86 | 80 | 81 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6587636 | 97 | 65 | 62 | 75 | 76 | 78 |
| Blank | 105 | 66 | 64 | 80 | 80 | 81 |
| MS | 95 | 72 | 74 | 84 | 78 | 79 |
| MSD | 92 | 69 | 69 | 77 | 77 | 76 |
| OPR | 114 | 72 | 68 | 84 | 86 | 85 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6587636 | 76 | 81 | 81 | 26 | 71 |
| Blank | 81 | 83 | 83 | 60 | 76 |
| MS | 79 | 83 | 84 | 66 | 79 |
| MSD | 75 | 82 | 82 | 61 | 75 |
| OPR | 87 | 91 | 93 | 63 | 81 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1296974
Reported: 04/11/12 at 10:36 PM

## Surrogate Quality Control

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Ap#1296474 Sample#6587633-45

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | PRIMARY ANALYSES* | | | | SECONDARY ANALYSES** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | | | | | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes |
| SL-071-NBZ-SB-4.0-5.0 | 3/19/12 | 0935 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-073-NBZ-SB-4.0-5.0 | 3/19/12 | 1440 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-073-NBZ-SB-9.0-10.0 | 3/19/12 | 1340 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-074-NBZ-SB-0.5-1.5 | 3/19/12 | 1055 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-069-NBZ-SB-3.0-4.0 | 3/20/12 | 1430 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-070-NBZ-~~SB~~-0.0-0.5 SS | 3/20/12 | 1525 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-075-NBZ-SS-0.0-0.5 | 3/20/12 | 0900 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-076-NBZ-SS-0.0-0.5 | 3/201/2 | 0935 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-077-NBZ-~~SB~~-0.0-0.5 SS | 3/20/12 | 1020 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-077-NBZ-SB-2.5-3.5 | 3/20/12 | 1050 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-065-NBZ-SB-1.0-2.0 | 3/21/12 | 1055 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-066-NBZ-SB-2.0-3.0 | 3/21/12 | 0930 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| EB-NBZ-SS-032112 | 03.21.12 | 1500 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SS-032112 | 03.21.12 | 1500 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| Relinquished by: (*Signature*) | Date/Time<br>3/20/2012 / 1630 | Received for Laboratory by: (*Signature*)<br>LLI 3/22/12 0950 | | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | Airbill No.(s) | | | | | | | | |

SL-070-NBZ-SB-0.0-0.5 & SL-077-NBZ-SB-0.0-0.5 were updated to "SS" per bottle labels. This was confirmed by PH. NM 3/23/12

**Nicole Maljovec**

**From:** Hartman, Pamela [HartmanPM@cdmsmith.com]
**Sent:** Friday, March 23, 2012 2:13 PM
**To:** Nicole Maljovec
**Subject:** RE: SSFL 3/21: 2 Sample ID Discrepancies

Yes, they should be SS. Thank you!!

Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Friday, March 23, 2012 10:09 AM
To: Hartman, Pamela
Subject: SSFL 3/21: 2 Sample ID Discrepancies

Hi Pam,
We found two sample discrepancies between the COC and bottle labels for the 3/21 COC. It looks like samples SL-070 and SL-077 @0.0-0.5 should be "SS" per the depths and bottle labels. Can you confirm?

Thanks!
Nicole

eurofins | Lancaster Laboratories

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# DX162

**NBZ – Data Package Amendment**
**SDG DX162, SDG DX167**
**6-17-13**

During the database check, an inconsistency in sample identification was discovered that needed to be corrected. They are listed below:

- Two methods (Percent Moisture and Dioxins) for sample SL-104-NBZ-SS-0.0-0.5 had duplicate results.
- Sample-105-NBZ-SS-0.0-0.5 had no results for Percent Moisture or Dioxins.
- All data packages were reviewed by field personnel and the validator to determine which sample results went with which sample.
- The appropriate method results were moved to sample SL-105-NBZ-SS-0.0-0.5.

All changes have been documented and verified by the field personnel and data group.

Pam Hartman
Catherine Love
Cherie Zakowski

SL-104

eurofins | Lancaster Laboratories

# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681• www.lancasterlabs.com



**Sample Description:** SL-104-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

LLI Sample # SW 6607532
LLI Group # 1300397
Account # 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 10:40

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6703 SDG#: DX167-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 6.8 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

SL-104

eurofins | Lancaster Laboratories

# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681• www.lancasterlabs.com



Sample Description: SL-104-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

LLI Sample # SW 6607532
LLI Group # 1300397
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2012 10:40

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6703 SDG#: DX167-03

| CAT No. | Analysis Name | | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | | 1746-01-6 | 0.0290 JBQ | 0.0196 | 1.04 | 1 |
| 11031 | 12378-PeCDD | | 40321-76-4 | 0.0945 JBQ | 0.0212 | 5.20 | 1 |
| 11031 | 123478-HxCDD | | 39227-28-6 | 0.0851 JQ | 0.0171 | 5.20 | 1 |
| 11031 | 123678-HxCDD | | 57653-85-7 | 0.259 JB | 0.0191 | 5.20 | 1 |
| 11031 | 123789-HxCDD | | 19408-74-3 | 0.275 JB | 0.0187 | 5.20 | 1 |
| 11031 | 1234678-HpCDD | | 35822-46-9 | 3.24 JB | 0.0205 | 5.20 | 1 |
| 11031 | OCDD | | 3268-87-9 | 22.9 B | 0.0207 | 10.4 | 1 |
| 11031 | 2378-TCDF | | 51207-31-9 | 0.265 J | 0.0351 | 1.04 | 1 |
| 11031 | 12378-PeCDF | | 57117-41-6 | 0.263 JB | 0.0191 | 5.20 | 1 |
| 11031 | 23478-PeCDF | | 57117-31-4 | 0.0170 U | 0.0170 | 5.20 | 1 |
| 11031 | 123478-HxCDF | | 70648-26-9 | 0.187 JB | 0.0124 | 5.20 | 1 |
| 11031 | 123678-HxCDF | | 57117-44-9 | 0.130 JB | 0.0135 | 5.20 | 1 |
| 11031 | 123789-HxCDF | | 72918-21-9 | 0.0544 JBQ | 0.0141 | 5.20 | 1 |
| 11031 | 234678-HxCDF | | 60851-34-5 | 0.140 JB | 0.0117 | 5.20 | 1 |
| 11031 | 1234678-HpCDF | | 67562-39-4 | 0.549 JB | 0.0106 | 5.20 | 1 |
| 11031 | 1234789-HpCDF | | 55673-89-7 | 0.0498 JBQ | 0.0139 | 5.20 | 1 |
| 11031 | OCDF | | 39001-02-0 | 0.914 JB | 0.0139 | 10.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 75 | 25 - 164 |
| 13C12-12378-PeCDD | 103 | 25 - 181 |
| 13C12-123478-HxCDD | 85 | 32 - 141 |
| 13C12-123678-HxCDD | 90 | 28 - 130 |
| 13C12-123789-HxCDD | 87 | 28 - 130 |
| 13C12-1234678-HpCDD | 90 | 23 - 140 |
| 13C12-OCDD | 78 | 17 - 157 |
| 13C12-2378-TCDF | 82 | 24 - 169 |
| 13C12-12378-PeCDF | 101 | 24 - 185 |
| 13C12-23478-PeCDF | 105 | 21 - 178 |
| 13C12-123478-HxCDF | 80 | 26 - 152 |
| 13C12-123678-HxCDF | 80 | 26 - 123 |
| 13C12-234678-HxCDF | 82 | 28 - 136 |
| 13C12-123789-HxCDF | 83 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 76 | 26 - 138 |
| 13C12-OCDF | 74 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

- *B Detected in Method Blank*
- *U Undetected*
- *J Estimated concentration between Estimated Detection Limit and Minimum Level*
- *E Exceeds calibration range*
- *C Confirmed quantitation on secondary GC column*
- *Q EMPC - Estimated Maximum Possible Concentration*
- *F Interference is present*

*=This limit was used in the evaluation of the final result

SL-104

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax: 717-656-2681• www.lancasterlabs.com



**Sample Description:** SL-104-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

**LLI Sample #** SW 6607532
**LLI Group #** 1300397
**Account #** 13013

**Project Name:** SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2012 10:40

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6703 SDG#: DX167-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| S | *Saturation of detection signal* | | | | | |

*=This limit was used in the evaluation of the final result

SL-104

eurofins | Lancaster Laboratories

# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681• www.lancasterlabs.com



**Sample Description:** SL-104-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

LLI Sample # SW 6607532
LLI Group # 1300397
Account # 13013

**Project Name:** SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2012 10:40

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6703 SDG#: DX167-03

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/17/2012 16:15 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401B | 04/17/2012 11:46 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

SL-105

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681• www.lancasterlabs.com

105 cz 6/07/13



Sample Description: SL-104-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

LLI Sample # SW 6589250
LLI Group # 1297267
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2012 13:45

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6204 SDG#: DX162-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.3 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

SL-105

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681• www.lancasterlabs.com

105 CZ 6/10/13



Sample Description: SL-104-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

LLI Sample # SW 6589250
LLI Group # 1297267
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2012 13:45

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6204 SDG#: DX162-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0200 | U | 0.0200 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0686 | JQ | 0.0227 | 5.43 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0682 | JBQ | 0.0191 | 5.43 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.126 | JB | 0.0211 | 5.43 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.127 | JBQ | 0.0197 | 5.43 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.87 | JB | 0.0230 | 5.43 | 1 |
| 11031 | OCDD | 3268-87-9 | 14.4 | B | 0.0120 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.239 | J | 0.0475 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.361 | J | 0.0247 | 5.43 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.517 | JB | 0.0258 | 5.43 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.247 | JB | 0.0165 | 5.43 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.156 | JB | 0.0156 | 5.43 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0500 | JQ | 0.0203 | 5.43 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.149 | JB | 0.0158 | 5.43 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.591 | JB | 0.0122 | 5.43 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0980 | JBQ | 0.0196 | 5.43 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.08 | JB | 0.0179 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 82 | 25 - 164 |
| 13C12-12378-PeCDD | 77 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 82 | 28 - 130 |
| 13C12-123789-HxCDD | 81 | 28 - 130 |
| 13C12-1234678-HpCDD | 75 | 23 - 140 |
| 13C12-OCDD | 72 | 17 - 157 |
| 13C12-2378-TCDF | 70 | 24 - 169 |
| 13C12-12378-PeCDF | 77 | 24 - 185 |
| 13C12-23478-PeCDF | 69 | 21 - 178 |
| 13C12-123478-HxCDF | 74 | 26 - 152 |
| 13C12-123678-HxCDF | 81 | 26 - 123 |
| 13C12-234678-HxCDF | 74 | 28 - 136 |
| 13C12-123789-HxCDF | 67 | 29 - 147 |
| 13C12-1234678-HpCDF | 84 | 28 - 143 |
| 13C12-1234789-HpCDF | 58 | 26 - 138 |
| 13C12-OCDF | 57 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

- *B Detected in Method Blank*
- *U Undetected*
- *J Estimated concentration between Estimated Detection Limit and Minimum Level*
- *E Exceeds calibration range*
- *C Confirmed quantitation on secondary GC column*
- *Q EMPC - Estimated Maximum Possible Concentration*
- *F Interference is present*

*=This limit was used in the evaluation of the final result

SL-105

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

105 6/17/13 CL



Sample Description: SL-~~104~~-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

LLI Sample # SW 6589250
LLI Group # 1297267
Account # 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 13:45

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6204 SDG#: DX162-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| S | *Saturation of detection signal* | | | | | |

*=This limit was used in the evaluation of the final result

SL-105

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681• www.lancasterlabs.com

105 ez 6/17/13



Sample Description: SL-~~104~~-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

LLI Sample # SW 6589250
LLI Group # 1297267
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2012 13:45

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6204 SDG#: DX162-04

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12089001 | 03/31/2012 03:57 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12089001 | 03/29/2012 13:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 12, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/23/2012
Group Number: 1297267
SDG: DX162
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-062-NBZ-SB-2.5-3.5 Soil | 6589247 |
| SL-063-NBZ-SB-0.5-1.5 Soil | 6589248 |
| SL-064-NBZ-SB-0.5-1.5 Soil | 6589249 |
| SL-104-NBZ-SS-0.0-0.5 Soil | 6589250 |
| SL-054-NBZ-SS-0.0-0.5 Soil | 6589251 |
| SL-055-NBZ-SS-0.0-0.5 Soil | 6589252 |
| SL-059-NBZ-SS-0.0-0.5 Soil | 6589253 |
| SL-060-NBZ-SS-0.0-0.5 Soil | 6589254 |
| SL-061-NBZ-SB-1.0-2.0 Soil | 6589255 |
| SL-116-NBZ-SS-0.0-0.5 Soil | 6589256 |
| EB-NBZ-SB-032212 Water | 6589257 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

# Analysis Report



**Sample Description:** SL-062-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-NBZ-SB

**LLI Sample # SW 6589247**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 15:40

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6201 SDG#: DX162-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 3.6 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-062-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-NBZ-SB

**LLI Sample # SW 6589247**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 15:40

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6201 SDG#: DX162-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0249 | U | 0.0249 | 1.03 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0722 | J | 0.0235 | 5.16 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0911 | JBQ | 0.0199 | 5.16 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.167 | JB | 0.0203 | 5.16 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.158 | JB | 0.0206 | 5.16 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.28 | JB | 0.0233 | 5.16 | 1 |
| 11031 | OCDD | 3268-87-9 | 24.3 | B | 0.0168 | 10.3 | 1 |
| 11650 | 2378-TCDF-Conf | 51207-31-9 | 0.363 | JC | 0.130 | 1.03 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 2.49 | J | 0.0405 | 5.16 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 1.87 | JB | 0.0442 | 5.16 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 1.49 | JB | 0.0210 | 5.16 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.591 | JB | 0.0192 | 5.16 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0257 | U | 0.0257 | 5.16 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.299 | JB | 0.0209 | 5.16 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.05 | JB | 0.00944 | 5.16 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.451 | JB | 0.0194 | 5.16 | 1 |
| 11031 | OCDF | 39001-02-0 | 2.10 | JB | 0.0230 | 10.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 82 | 25 - 164 |
| 13C12-2378-TCDF-Conf | 73 | 24 - 169 |
| 13C12-12378-PeCDD | 78 | 25 - 181 |
| 13C12-123478-HxCDD | 85 | 32 - 141 |
| 13C12-123678-HxCDD | 84 | 28 - 130 |
| 13C12-123789-HxCDD | 82 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 73 | 17 - 157 |
| 13C12-12378-PeCDF | 80 | 24 - 185 |
| 13C12-23478-PeCDF | 68 | 21 - 178 |
| 13C12-123478-HxCDF | 73 | 26 - 152 |
| 13C12-123678-HxCDF | 86 | 26 - 123 |
| 13C12-234678-HxCDF | 74 | 28 - 136 |
| 13C12-123789-HxCDF | 66 | 29 - 147 |
| 13C12-1234678-HpCDF | 98 | 28 - 143 |
| 13C12-1234789-HpCDF | 55 | 26 - 138 |
| 13C12-OCDF | 49 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-062-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-NBZ-SB

**LLI Sample # SW 6589247**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 15:40

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6201 SDG#: DX162-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681• www.lancasterlabs.com

# Analysis Report



**Sample Description:** SL-062-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-NBZ-SB

**LLI Sample # SW 6589247**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 15:40

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6201 SDG#: DX162-01

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12089001 | 03/30/2012 22:04 | Joseph D Anderson | 1 |
| 11650 | Dioxins/Furans in Solids-Conf | EPA 1613B | 1 | 12089001 | 03/31/2012 17:24 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12089001 | 03/29/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-063-NBZ-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-NBZ-SB

**LLI Sample # SW 6589248**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 14:45

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6202 SDG#: DX162-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 12.5 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-063-NBZ-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-NBZ-SB

**LLI Sample # SW 6589248**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 14:45

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6202 SDG#: DX162-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0169 | U | 0.0169 | 1.12 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0319 | J | 0.0248 | 5.58 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0544 | JB | 0.0201 | 5.58 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.169 | JBQ | 0.0223 | 5.58 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.155 | JBQ | 0.0209 | 5.58 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.84 | JB | 0.0240 | 5.58 | 1 |
| 11031 | OCDD | 3268-87-9 | 25.3 | B | 0.0158 | 11.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.277 | J | 0.0474 | 1.12 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.295 | J | 0.0248 | 5.58 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.313 | JB | 0.0255 | 5.58 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.226 | JB | 0.0178 | 5.58 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.193 | JB | 0.0158 | 5.58 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0205 | U | 0.0205 | 5.58 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.198 | JB | 0.0162 | 5.58 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.940 | JB | 0.0109 | 5.58 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.125 | JB | 0.0195 | 5.58 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.70 | JB | 0.0224 | 11.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 85 | 25 - 164 |
| 13C12-12378-PeCDD | 80 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 86 | 28 - 130 |
| 13C12-123789-HxCDD | 84 | 28 - 130 |
| 13C12-1234678-HpCDD | 81 | 23 - 140 |
| 13C12-OCDD | 73 | 17 - 157 |
| 13C12-2378-TCDF | 70 | 24 - 169 |
| 13C12-12378-PeCDF | 81 | 24 - 185 |
| 13C12-23478-PeCDF | 70 | 21 - 178 |
| 13C12-123478-HxCDF | 75 | 26 - 152 |
| 13C12-123678-HxCDF | 84 | 26 - 123 |
| 13C12-234678-HxCDF | 75 | 28 - 136 |
| 13C12-123789-HxCDF | 69 | 29 - 147 |
| 13C12-1234678-HpCDF | 93 | 28 - 143 |
| 13C12-1234789-HpCDF | 58 | 26 - 138 |
| 13C12-OCDF | 53 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-063-NBZ-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-NBZ-SB

**LLI Sample # SW 6589248**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 14:45

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6202 SDG#: DX162-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-063-NBZ-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-NBZ-SB

**LLI Sample # SW 6589248**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 14:45

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6202 SDG#: DX162-02

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12089001 | 03/30/2012 23:01 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12089001 | 03/29/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-064-NBZ-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-NBZ-SB

**LLI Sample # SW 6589249**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 13:30

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6203 SDG#: DX162-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 5.3 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-064-NBZ-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-NBZ-SB

**LLI Sample # SW 6589249**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 13:30

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6203 SDG#: DX162-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0218 | JB | 0.0170 | 1.04 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0196 | U | 0.0196 | 5.21 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0236 | JB | 0.0138 | 5.21 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0702 | JBQ | 0.0149 | 5.21 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0741 | JB | 0.0146 | 5.21 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.629 | JB | 0.0205 | 5.21 | 1 |
| 11031 | OCDD | 3268-87-9 | 3.14 | JB | 0.0124 | 10.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0685 | J | 0.0243 | 1.04 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0812 | J | 0.0143 | 5.21 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0813 | JB | 0.0140 | 5.21 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0763 | JB | 0.0124 | 5.21 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0556 | JBQ | 0.0110 | 5.21 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0393 | JQ | 0.0138 | 5.21 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0637 | JB | 0.0119 | 5.21 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.203 | JB | 0.00665 | 5.21 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0510 | JB | 0.0116 | 5.21 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.338 | JB | 0.0185 | 10.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 80 | 25 - 164 |
| 13C12-12378-PeCDD | 74 | 25 - 181 |
| 13C12-123478-HxCDD | 81 | 32 - 141 |
| 13C12-123678-HxCDD | 80 | 28 - 130 |
| 13C12-123789-HxCDD | 79 | 28 - 130 |
| 13C12-1234678-HpCDD | 74 | 23 - 140 |
| 13C12-OCDD | 70 | 17 - 157 |
| 13C12-2378-TCDF | 66 | 24 - 169 |
| 13C12-12378-PeCDF | 74 | 24 - 185 |
| 13C12-23478-PeCDF | 67 | 21 - 178 |
| 13C12-123478-HxCDF | 72 | 26 - 152 |
| 13C12-123678-HxCDF | 80 | 26 - 123 |
| 13C12-234678-HxCDF | 71 | 28 - 136 |
| 13C12-123789-HxCDF | 72 | 29 - 147 |
| 13C12-1234678-HpCDF | 89 | 28 - 143 |
| 13C12-1234789-HpCDF | 56 | 26 - 138 |
| 13C12-OCDF | 52 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-064-NBZ-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-NBZ-SB

**LLI Sample # SW 6589249**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 13:30

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6203 SDG#: DX162-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-064-NBZ-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-NBZ-SB

**LLI Sample # SW 6589249**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 13:30

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6203 SDG#: DX162-03

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12089001 | 03/31/2012 03:00 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12089001 | 03/29/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-104-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

**LLI Sample # SW 6589250**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 13:45

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6204 SDG#: DX162-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.3 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-104-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

**LLI Sample # SW 6589250**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 13:45

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6204 SDG#: DX162-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0200 | U | 0.0200 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0686 | JQ | 0.0227 | 5.43 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0682 | JBQ | 0.0191 | 5.43 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.126 | JB | 0.0211 | 5.43 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.127 | JBQ | 0.0197 | 5.43 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.87 | JB | 0.0230 | 5.43 | 1 |
| 11031 | OCDD | 3268-87-9 | 14.4 | B | 0.0120 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.239 | J | 0.0475 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.361 | J | 0.0247 | 5.43 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.517 | JB | 0.0258 | 5.43 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.247 | JB | 0.0165 | 5.43 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.156 | JB | 0.0156 | 5.43 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0500 | JQ | 0.0203 | 5.43 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.149 | JB | 0.0158 | 5.43 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.591 | JB | 0.0122 | 5.43 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0980 | JBQ | 0.0196 | 5.43 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.08 | JB | 0.0179 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 82 | 25 - 164 |
| 13C12-12378-PeCDD | 77 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 82 | 28 - 130 |
| 13C12-123789-HxCDD | 81 | 28 - 130 |
| 13C12-1234678-HpCDD | 75 | 23 - 140 |
| 13C12-OCDD | 72 | 17 - 157 |
| 13C12-2378-TCDF | 70 | 24 - 169 |
| 13C12-12378-PeCDF | 77 | 24 - 185 |
| 13C12-23478-PeCDF | 69 | 21 - 178 |
| 13C12-123478-HxCDF | 74 | 26 - 152 |
| 13C12-123678-HxCDF | 81 | 26 - 123 |
| 13C12-234678-HxCDF | 74 | 28 - 136 |
| 13C12-123789-HxCDF | 67 | 29 - 147 |
| 13C12-1234678-HpCDF | 84 | 28 - 143 |
| 13C12-1234789-HpCDF | 58 | 26 - 138 |
| 13C12-OCDF | 57 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-104-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

**LLI Sample # SW 6589250**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 13:45

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6204 SDG#: DX162-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-104-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

**LLI Sample # SW 6589250**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 13:45

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6204 SDG#: DX162-04

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12089001 | 03/31/2012 03:57 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12089001 | 03/29/2012 13:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

eurofins | Lancaster Laboratories

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# Analysis Report



**Sample Description:** SL-054-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-NBZ-SS

**LLI Sample # SW 6589251**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 13:45

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6205 SDG#: DX162-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 7.6 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-054-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-NBZ-SS

**LLI Sample # SW 6589251**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 13:45

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6205 SDG#: DX162-05

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.151 | JBQ | 0.0239 | 1.07 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.705 | J | 0.0387 | 5.37 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.553 | JB | 0.0267 | 5.37 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 1.89 | JB | 0.0294 | 5.37 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 1.72 | JB | 0.0269 | 5.37 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 94.9 | B | 0.0585 | 5.37 | 1 |
| 11031 | OCDD | 3268-87-9 | 793 | B | 0.0323 | 10.7 | 1 |
| 11650 | 2378-TCDF-Conf | 51207-31-9 | 0.796 | JC | 0.105 | 1.07 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 2.20 | J | 0.0384 | 5.37 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 2.34 | JB | 0.0374 | 5.37 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 2.06 | JB | 0.0265 | 5.37 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 1.12 | JB | 0.0258 | 5.37 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0295 | U | 0.0295 | 5.37 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.743 | JB | 0.0249 | 5.37 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 8.47 | B | 0.0187 | 5.37 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.818 | JB | 0.0267 | 5.37 | 1 |
| 11031 | OCDF | 39001-02-0 | 21.9 | B | 0.0206 | 10.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 86 | 25 - 164 |
| 13C12-2378-TCDF-Conf | 82 | 24 - 169 |
| 13C12-12378-PeCDD | 80 | 25 - 181 |
| 13C12-123478-HxCDD | 85 | 32 - 141 |
| 13C12-123678-HxCDD | 82 | 28 - 130 |
| 13C12-123789-HxCDD | 83 | 28 - 130 |
| 13C12-1234678-HpCDD | 78 | 23 - 140 |
| 13C12-OCDD | 71 | 17 - 157 |
| 13C12-12378-PeCDF | 81 | 24 - 185 |
| 13C12-23478-PeCDF | 74 | 21 - 178 |
| 13C12-123478-HxCDF | 77 | 26 - 152 |
| 13C12-123678-HxCDF | 81 | 26 - 123 |
| 13C12-234678-HxCDF | 78 | 28 - 136 |
| 13C12-123789-HxCDF | 75 | 29 - 147 |
| 13C12-1234678-HpCDF | 82 | 28 - 143 |
| 13C12-1234789-HpCDF | 63 | 26 - 138 |
| 13C12-OCDF | 57 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-054-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-NBZ-SS

**LLI Sample # SW 6589251**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 13:45

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6205 SDG#: DX162-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-054-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-NBZ-SS

**LLI Sample # SW 6589251**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 13:45

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6205 SDG#: DX162-05

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12089001 | 03/31/2012 04:53 | Joseph D Anderson | 1 |
| 11650 | Dioxins/Furans in Solids-Conf | EPA 1613B | 1 | 12089001 | 03/31/2012 18:23 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12089001 | 03/29/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-055-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-NBZ-SS

**LLI Sample # SW 6589252**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 11:25

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6206 SDG#: DX162-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 9.7 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-055-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-NBZ-SS

**LLI Sample # SW 6589252**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 11:25

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6206 SDG#: DX162-06

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0738 | JBQ | 0.0279 | 1.11 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.297 | J | 0.0360 | 5.53 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.201 | JB | 0.0313 | 5.53 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.447 | JBQ | 0.0350 | 5.53 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.498 | JB | 0.0326 | 5.53 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 5.74 | B | 0.0329 | 5.53 | 1 |
| 11031 | OCDD | 3268-87-9 | 48.4 | B | 0.0259 | 11.1 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.386 | J | 0.0579 | 1.11 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.355 | J | 0.0324 | 5.53 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.549 | JB | 0.0327 | 5.53 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.381 | JB | 0.0258 | 5.53 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.274 | JB | 0.0236 | 5.53 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.103 | J | 0.0297 | 5.53 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.235 | JB | 0.0230 | 5.53 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.67 | JB | 0.0156 | 5.53 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.164 | JBQ | 0.0255 | 5.53 | 1 |
| 11031 | OCDF | 39001-02-0 | 3.14 | JB | 0.0298 | 11.1 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 78 | 25 - 164 |
| 13C12-12378-PeCDD | 72 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 80 | 28 - 130 |
| 13C12-123789-HxCDD | 80 | 28 - 130 |
| 13C12-1234678-HpCDD | 80 | 23 - 140 |
| 13C12-OCDD | 73 | 17 - 157 |
| 13C12-2378-TCDF | 65 | 24 - 169 |
| 13C12-12378-PeCDF | 73 | 24 - 185 |
| 13C12-23478-PeCDF | 64 | 21 - 178 |
| 13C12-123478-HxCDF | 68 | 26 - 152 |
| 13C12-123678-HxCDF | 77 | 26 - 123 |
| 13C12-234678-HxCDF | 74 | 28 - 136 |
| 13C12-123789-HxCDF | 65 | 29 - 147 |
| 13C12-1234678-HpCDF | 84 | 28 - 143 |
| 13C12-1234789-HpCDF | 57 | 26 - 138 |
| 13C12-OCDF | 53 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-055-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-NBZ-SS

**LLI Sample # SW 6589252**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 11:25

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6206 SDG#: DX162-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-055-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-NBZ-SS

**LLI Sample # SW 6589252**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 11:25

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6206 SDG#: DX162-06

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12089001 | 03/31/2012 05:50 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12089001 | 03/29/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-059-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-NBZ-SS

**LLI Sample # SW 6589253**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 10:50

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6207 SDG#: DX162-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 7.8 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-059-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-NBZ-SS

**LLI Sample # SW 6589253**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 10:50

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6207 SDG#: DX162-07

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0214 | U | 0.0214 | 1.07 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.109 | J | 0.0278 | 5.36 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0506 | JBQ | 0.0210 | 5.36 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.145 | JBQ | 0.0234 | 5.36 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.148 | JB | 0.0240 | 5.36 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.45 | JB | 0.0270 | 5.36 | 1 |
| 11031 | OCDD | 3268-87-9 | 9.74 | JB | 0.0190 | 10.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.844 | J | 0.0709 | 1.07 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 1.12 | J | 0.0323 | 5.36 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 1.01 | JB | 0.0347 | 5.36 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.521 | JB | 0.0278 | 5.36 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.308 | JB | 0.0238 | 5.36 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0721 | J | 0.0328 | 5.36 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.149 | JB | 0.0240 | 5.36 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.751 | JB | 0.0139 | 5.36 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.132 | JB | 0.0245 | 5.36 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.08 | JB | 0.0290 | 10.7 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 87 | 25 - 164 |
| 13C12-12378-PeCDD | 81 | 25 - 181 |
| 13C12-123478-HxCDD | 90 | 32 - 141 |
| 13C12-123678-HxCDD | 90 | 28 - 130 |
| 13C12-123789-HxCDD | 87 | 28 - 130 |
| 13C12-1234678-HpCDD | 86 | 23 - 140 |
| 13C12-OCDD | 75 | 17 - 157 |
| 13C12-2378-TCDF | 75 | 24 - 169 |
| 13C12-12378-PeCDF | 84 | 24 - 185 |
| 13C12-23478-PeCDF | 72 | 21 - 178 |
| 13C12-123478-HxCDF | 75 | 26 - 152 |
| 13C12-123678-HxCDF | 85 | 26 - 123 |
| 13C12-234678-HxCDF | 77 | 28 - 136 |
| 13C12-123789-HxCDF | 68 | 29 - 147 |
| 13C12-1234678-HpCDF | 93 | 28 - 143 |
| 13C12-1234789-HpCDF | 59 | 26 - 138 |
| 13C12-OCDF | 53 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-059-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-NBZ-SS

**LLI Sample # SW 6589253**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 10:50

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6207 SDG#: DX162-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-059-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-NBZ-SS

**LLI Sample # SW 6589253**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 10:50

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6207 SDG#: DX162-07

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12089001 | 03/31/2012 06:47 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12089001 | 03/29/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-060-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-NBZ-SS

**LLI Sample # SW 6589254**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 10:25

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6208 SDG#: DX162-08

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 5.7 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-060-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-NBZ-SS

**LLI Sample # SW 6589254**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 10:25

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6208 SDG#: DX162-08

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.171 | J | 0.0751 | 1.05 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.522 | JBQ | 0.0881 | 5.25 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.717 | JB | 0.0519 | 5.25 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 2.29 | JB | 0.0533 | 5.25 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 1.54 | JB | 0.0491 | 5.25 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 45.4 | B | 0.0480 | 5.25 | 1 |
| 11031 | OCDD | 3268-87-9 | 388 | B | 0.0344 | 10.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 52.6 | BC | 0.495 | 1.05 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 92.6 | B | 0.113 | 5.25 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 243 | B | 0.124 | 5.25 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 168 | | 0.0768 | 5.25 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 84.0 | B | 0.0716 | 5.25 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0748 | U | 0.0748 | 5.25 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 37.3 | B | 0.0721 | 5.25 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 101 | B | 0.0371 | 5.25 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 60.0 | B | 0.0441 | 5.25 | 1 |
| 11031 | OCDF | 39001-02-0 | 147 | B | 0.0288 | 10.5 | 1 |

The recovery for labeled compound 13C12-12378-PeCDF is outside of QC acceptance limits. The data quality is not impacted by this result.

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 76 | 25 - 164 |
| 13C12-12378-PeCDD | 80 | 25 - 181 |
| 13C12-123478-HxCDD | 76 | 32 - 141 |
| 13C12-123678-HxCDD | 76 | 28 - 130 |
| 13C12-123789-HxCDD | 79 | 28 - 130 |
| 13C12-1234678-HpCDD | 79 | 23 - 140 |
| 13C12-OCDD | 74 | 17 - 157 |
| 13C12-2378-TCDF | 72 | 24 - 169 |
| 13C12-12378-PeCDF | 90 | 24 - 185 |
| 13C12-23478-PeCDF | 78 | 21 - 178 |
| 13C12-123478-HxCDF | 74 | 26 - 152 |
| 13C12-123678-HxCDF | 77 | 26 - 123 |
| 13C12-234678-HxCDF | 75 | 28 - 136 |
| 13C12-123789-HxCDF | 77 | 29 - 147 |
| 13C12-1234678-HpCDF | 82 | 28 - 143 |
| 13C12-1234789-HpCDF | 72 | 26 - 138 |
| 13C12-OCDF | 71 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-060-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-NBZ-SS

**LLI Sample # SW 6589254**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 10:25

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6208 SDG#: DX162-08

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*F* *Interference is present*
*S* *Saturation of detection signal*

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# Analysis Report



**Sample Description:** SL-060-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-NBZ-SS

**LLI Sample # SW 6589254**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 10:25

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6208 SDG#: DX162-08

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12096002 | 04/07/2012 04:34 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12096002 | 04/05/2012 11:30 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-061-NBZ-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-NBZ-SB

**LLI Sample # SW 6589255**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 09:30

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6209 SDG#: DX162-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 4.7 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-061-NBZ-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-NBZ-SB

**LLI Sample # SW 6589255**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 09:30

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6209 SDG#: DX162-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0437 JBQ | 0.0253 | 1.04 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0343 U | 0.0343 | 5.19 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0424 JBQ | 0.0254 | 5.19 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.108 JBQ | 0.0259 | 5.19 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0870 JBQ | 0.0265 | 5.19 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.11 JB | 0.0257 | 5.19 | 1 |
| 11031 | OCDD | 3268-87-9 | 6.77 JB | 0.0221 | 10.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.278 J | 0.0662 | 1.04 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.338 JQ | 0.0326 | 5.19 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.697 JB | 0.0336 | 5.19 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.301 JB | 0.0248 | 5.19 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.165 JBQ | 0.0230 | 5.19 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0315 U | 0.0315 | 5.19 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.210 JBQ | 0.0241 | 5.19 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.459 JB | 0.0137 | 5.19 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0491 JBQ | 0.0259 | 5.19 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.808 JB | 0.0329 | 10.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 79 | 25 - 164 |
| 13C12-12378-PeCDD | 76 | 25 - 181 |
| 13C12-123478-HxCDD | 81 | 32 - 141 |
| 13C12-123678-HxCDD | 83 | 28 - 130 |
| 13C12-123789-HxCDD | 81 | 28 - 130 |
| 13C12-1234678-HpCDD | 86 | 23 - 140 |
| 13C12-OCDD | 78 | 17 - 157 |
| 13C12-2378-TCDF | 69 | 24 - 169 |
| 13C12-12378-PeCDF | 76 | 24 - 185 |
| 13C12-23478-PeCDF | 68 | 21 - 178 |
| 13C12-123478-HxCDF | 70 | 26 - 152 |
| 13C12-123678-HxCDF | 79 | 26 - 123 |
| 13C12-234678-HxCDF | 71 | 28 - 136 |
| 13C12-123789-HxCDF | 63 | 29 - 147 |
| 13C12-1234678-HpCDF | 98 | 28 - 143 |
| 13C12-1234789-HpCDF | 61 | 26 - 138 |
| 13C12-OCDF | 55 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-061-NBZ-SB-1.0-2.0 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-061-NBZ-SB**

**LLI Sample # SW 6589255**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 09:30

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6209 SDG#: DX162-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-061-NBZ-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-NBZ-SB

**LLI Sample # SW 6589255**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 09:30

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6209 SDG#: DX162-09

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12089001 | 03/31/2012 08:40 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12089001 | 03/29/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-116-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-NBZ-SS

**LLI Sample # SW 6589256**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 15:00

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6210 SDG#: DX162-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 10.8 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-116-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-NBZ-SS

**LLI Sample # SW 6589256**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 15:00

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6210 SDG#: DX162-10

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0250 | U | 0.0250 | 1.11 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.207 | J | 0.0370 | 5.56 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0867 | JB | 0.0300 | 5.56 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.932 | JB | 0.0305 | 5.56 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 1.45 | JB | 0.0314 | 5.56 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.01 | JB | 0.0302 | 5.56 | 1 |
| 11031 | OCDD | 3268-87-9 | 12.5 | B | 0.0231 | 11.1 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.137 | J | 0.0475 | 1.11 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.251 | JQ | 0.0284 | 5.56 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0966 | JB | 0.0272 | 5.56 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.117 | JB | 0.0219 | 5.56 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.128 | JBQ | 0.0207 | 5.56 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.294 | JQ | 0.0239 | 5.56 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.100 | JB | 0.0215 | 5.56 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.579 | JB | 0.0155 | 5.56 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0551 | JBQ | 0.0222 | 5.56 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.18 | JB | 0.0299 | 11.1 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 84 | 25 - 164 |
| 13C12-12378-PeCDD | 72 | 25 - 181 |
| 13C12-123478-HxCDD | 82 | 32 - 141 |
| 13C12-123678-HxCDD | 81 | 28 - 130 |
| 13C12-123789-HxCDD | 79 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 75 | 17 - 157 |
| 13C12-2378-TCDF | 69 | 24 - 169 |
| 13C12-12378-PeCDF | 73 | 24 - 185 |
| 13C12-23478-PeCDF | 67 | 21 - 178 |
| 13C12-123478-HxCDF | 72 | 26 - 152 |
| 13C12-123678-HxCDF | 78 | 26 - 123 |
| 13C12-234678-HxCDF | 72 | 28 - 136 |
| 13C12-123789-HxCDF | 73 | 29 - 147 |
| 13C12-1234678-HpCDF | 85 | 28 - 143 |
| 13C12-1234789-HpCDF | 64 | 26 - 138 |
| 13C12-OCDF | 57 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-116-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-NBZ-SS

**LLI Sample # SW 6589256**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 15:00

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6210 SDG#: DX162-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-116-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-NBZ-SS

**LLI Sample # SW 6589256**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 15:00

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6210 SDG#: DX162-10

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12089001 | 03/31/2012 09:37 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12089001 | 03/29/2012 13:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** EB-NBZ-SB-032212 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SB

**LLI Sample # WW 6589257**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 15:30

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6211 SDG#: DX162-11EB

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | pg/l | | pg/l | pg/l | |
| 10915 | 2378-TCDD | 1746-01-6 | 0.203 | U | 0.203 | 1.89 | 1 |
| 10915 | 12378-PeCDD | 40321-76-4 | 0.423 | JQ | 0.195 | 9.44 | 1 |
| 10915 | 123478-HxCDD | 39227-28-6 | 0.174 | U | 0.174 | 9.44 | 1 |
| 10915 | 123678-HxCDD | 57653-85-7 | 0.467 | JBQ | 0.180 | 9.44 | 1 |
| 10915 | 123789-HxCDD | 19408-74-3 | 0.507 | JBQ | 0.179 | 9.44 | 1 |
| 10915 | 1234678-HpCDD | 35822-46-9 | 3.75 | JB | 0.207 | 9.44 | 1 |
| 10915 | OCDD | 3268-87-9 | 8.78 | JB | 0.181 | 18.9 | 1 |
| 10915 | 2378-TCDF | 51207-31-9 | 0.209 | J | 0.160 | 1.89 | 1 |
| 10915 | 12378-PeCDF | 57117-41-6 | 0.321 | JB | 0.131 | 9.44 | 1 |
| 10915 | 23478-PeCDF | 57117-31-4 | 0.385 | JBQ | 0.114 | 9.44 | 1 |
| 10915 | 123478-HxCDF | 70648-26-9 | 0.316 | JB | 0.108 | 9.44 | 1 |
| 10915 | 123678-HxCDF | 57117-44-9 | 0.233 | JBQ | 0.112 | 9.44 | 1 |
| 10915 | 123789-HxCDF | 72918-21-9 | 0.144 | JBQ | 0.111 | 9.44 | 1 |
| 10915 | 234678-HxCDF | 60851-34-5 | 0.425 | JBQ | 0.0996 | 9.44 | 1 |
| 10915 | 1234678-HpCDF | 67562-39-4 | 1.24 | JBQ | 0.101 | 9.44 | 1 |
| 10915 | 1234789-HpCDF | 55673-89-7 | 0.361 | JBQ | 0.123 | 9.44 | 1 |
| 10915 | OCDF | 39001-02-0 | 1.46 | JB | 0.221 | 18.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 61 | 25 - 164 |
| 13C12-12378-PeCDD | 55 | 25 - 181 |
| 13C12-123478-HxCDD | 58 | 32 - 141 |
| 13C12-123678-HxCDD | 57 | 28 - 130 |
| 13C12-123789-HxCDD | 57 | 28 - 130 |
| 13C12-1234678-HpCDD | 54 | 23 - 140 |
| 13C12-OCDD | 47 | 17 - 157 |
| 13C12-2378-TCDF | 54 | 24 - 169 |
| 13C12-12378-PeCDF | 51 | 24 - 185 |
| 13C12-23478-PeCDF | 51 | 21 - 178 |
| 13C12-123478-HxCDF | 55 | 26 - 152 |
| 13C12-123678-HxCDF | 55 | 26 - 123 |
| 13C12-234678-HxCDF | 57 | 28 - 136 |
| 13C12-123789-HxCDF | 60 | 29 - 147 |
| 13C12-1234678-HpCDF | 52 | 28 - 143 |
| 13C12-1234789-HpCDF | 49 | 26 - 138 |
| 13C12-OCDF | 44 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** **EB-NBZ-SB-032212 Water**
**SSFL Area IV Collocated Soil Sampling**
**EB-NBZ-SB**

**LLI Sample # WW 6589257**
**LLI Group # 1297267**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/22/2012 15:30

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6211 SDG#: DX162-11EB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10915 | 10b Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12094001 | 04/04/2012 18:09 | Joseph D Anderson | 1 |
| 10914 | Dioxins/Furans in Water - SepF | EPA 1613B | 1 | 12094001 | 04/03/2012 06:00 | Ginelle L Haines | 1 |

eurofins | Lancaster Laboratories

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1297267
Reported: 04/12/12 at 11:07 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12086162401A | Sample number(s): 6589247-6589256 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12089001 | Sample number(s): 6589247-6589253,6589255-6589256 | | | | | | | | |
| 2378-TCDD | 0.0304 J | 0.0162 | 1.00 | ng/kg | 86 | | 67-158 | | |
| 12378-PeCDD | 0.0201 U | 0.0201 | 5.00 | ng/kg | 89 | | 70-142 | | |
| 123478-HxCDD | 0.0274 J | 0.0141 | 5.00 | ng/kg | 89 | | 70-164 | | |
| 123678-HxCDD | 0.0499 J | 0.0154 | 5.00 | ng/kg | 87 | | 76-134 | | |
| 123789-HxCDD | 0.0288 J | 0.0146 | 5.00 | ng/kg | 95 | | 64-162 | | |
| 1234678-HpCDD | 0.266 J | 0.0187 | 5.00 | ng/kg | 91 | | 70-140 | | |
| OCDD | 0.447 J | 0.0134 | 10.0 | ng/kg | 88 | | 78-144 | | |
| 2378-TCDF | 0.0174 U | 0.0174 | 1.00 | ng/kg | 91 | | 75-158 | | |
| 2378-TCDF-Conf | 0.0388 U | 0.0388 | 1.00 | ng/kg | 91 | | 75-158 | | |
| 12378-PeCDF | 0.0114 U | 0.0114 | 5.00 | ng/kg | 93 | | 80-134 | | |
| 23478-PeCDF | 0.0673 J | 0.0112 | 5.00 | ng/kg | 90 | | 68-160 | | |
| 123478-HxCDF | 0.0430 J | 0.0104 | 5.00 | ng/kg | 87 | | 72-134 | | |
| 123678-HxCDF | 0.0457 J | 0.00910 | 5.00 | ng/kg | 87 | | 84-130 | | |
| 123789-HxCDF | 0.0107 U | 0.0107 | 5.00 | ng/kg | 88 | | 78-130 | | |
| 234678-HxCDF | 0.0515 J | 0.00910 | 5.00 | ng/kg | 85 | | 70-156 | | |
| 1234678-HpCDF | 0.0992 J | 0.0145 | 5.00 | ng/kg | 83 | | 82-122 | | |
| 1234789-HpCDF | 0.0489 J | 0.0231 | 5.00 | ng/kg | 88 | | 78-138 | | |
| OCDF | 0.184 J | 0.0210 | 10.0 | ng/kg | 86 | | 63-170 | | |
| Batch number: 12094001 | Sample number(s): 6589257 | | | | | | | | |
| 2378-TCDD | 0.269 J | 0.167 | 2.00 | pg/l | 91 | | 67-158 | | |
| 12378-PeCDD | 0.205 U | 0.205 | 10.0 | pg/l | 94 | | 70-142 | | |
| 123478-HxCDD | 0.221 J | 0.140 | 10.0 | pg/l | 94 | | 70-164 | | |
| 123678-HxCDD | 0.438 J | 0.155 | 10.0 | pg/l | 96 | | 76-134 | | |
| 123789-HxCDD | 0.508 J | 0.144 | 10.0 | pg/l | 102 | | 64-162 | | |
| 1234678-HpCDD | 4.80 J | 0.225 | 10.0 | pg/l | 101 | | 70-140 | | |
| OCDD | 14.6 J | 0.172 | 20.0 | pg/l | 99 | | 78-144 | | |
| 2378-TCDF | 0.147 U | 0.147 | 2.00 | pg/l | 94 | | 75-158 | | |
| 12378-PeCDF | 0.176 J | 0.139 | 10.0 | pg/l | 102 | | 80-134 | | |
| 23478-PeCDF | 0.605 J | 0.121 | 10.0 | pg/l | 97 | | 68-160 | | |
| 123478-HxCDF | 0.403 J | 0.106 | 10.0 | pg/l | 102 | | 72-134 | | |
| 123678-HxCDF | 0.161 J | 0.103 | 10.0 | pg/l | 100 | | 84-130 | | |
| 123789-HxCDF | 0.364 J | 0.106 | 10.0 | pg/l | 100 | | 78-130 | | |
| 234678-HxCDF | 0.356 J | 0.0928 | 10.0 | pg/l | 100 | | 70-156 | | |
| 1234678-HpCDF | 1.46 J | 0.0984 | 10.0 | pg/l | 95 | | 82-122 | | |
| 1234789-HpCDF | 0.326 J | 0.126 | 10.0 | pg/l | 99 | | 78-138 | | |
| OCDF | 1.40 J | 0.218 | 20.0 | pg/l | 99 | | 63-170 | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1297267
Reported: 04/12/12 at 11:07 AM

| Analysis Name | Blank Result | | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12096002 | Sample number(s): 6589254 | | | | | | | | | |
| 2378-TCDD | 0.0648 | U | 0.0648 | 1.00 | ng/kg | 100 | | 67-158 | | |
| 12378-PeCDD | 0.212 | J | 0.0527 | 5.00 | ng/kg | 98 | | 70-142 | | |
| 123478-HxCDD | 0.0698 | J | 0.0289 | 5.00 | ng/kg | 95 | | 70-164 | | |
| 123678-HxCDD | 0.0770 | J | 0.0304 | 5.00 | ng/kg | 96 | | 76-134 | | |
| 123789-HxCDD | 0.0905 | J | 0.0299 | 5.00 | ng/kg | 104 | | 64-162 | | |
| 1234678-HpCDD | 0.397 | J | 0.0284 | 5.00 | ng/kg | 96 | | 70-140 | | |
| OCDD | 0.624 | J | 0.0270 | 10.0 | ng/kg | 95 | | 78-144 | | |
| 2378-TCDF | 0.0586 | J | 0.0456 | 1.00 | ng/kg | 99 | | 75-158 | | |
| 12378-PeCDF | 0.0466 | J | 0.0325 | 5.00 | ng/kg | 101 | | 80-134 | | |
| 23478-PeCDF | 0.0784 | J | 0.0337 | 5.00 | ng/kg | 95 | | 68-160 | | |
| 123478-HxCDF | 0.0251 | U | 0.0251 | 5.00 | ng/kg | 98 | | 72-134 | | |
| 123678-HxCDF | 0.0628 | J | 0.0198 | 5.00 | ng/kg | 97 | | 84-130 | | |
| 123789-HxCDF | 0.0282 | U | 0.0282 | 5.00 | ng/kg | 98 | | 78-130 | | |
| 234678-HxCDF | 0.132 | J | 0.0231 | 5.00 | ng/kg | 98 | | 70-156 | | |
| 1234678-HpCDF | 0.105 | J | 0.0150 | 5.00 | ng/kg | 90 | | 82-122 | | |
| 1234789-HpCDF | 0.0395 | J | 0.0249 | 5.00 | ng/kg | 97 | | 78-138 | | |
| OCDF | 0.195 | J | 0.0270 | 10.0 | ng/kg | 94 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12086162401A | Sample number(s): 6589247-6589256 BKG: P582502 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 8.7 | 8.8 | 1 | 20 |
| Moisture Content by 160.3 | | | | | | 8.7 | 8.8 | 1 | 20 |
| Batch number: 12089001 | Sample number(s): 6589247-6589253,6589255-6589256 UNSPK: P590855 | | | | | | | | |
| 2378-TCDD | 84 | 83 | 67-158 | 1 | 25 | | | | |
| 12378-PeCDD | 86 | 86 | 70-142 | 0 | 25 | | | | |
| 123478-HxCDD | 86 | 89 | 70-164 | 3 | 25 | | | | |
| 123678-HxCDD | 87 | 87 | 76-134 | 1 | 25 | | | | |
| 123789-HxCDD | 93 | 93 | 64-162 | 0 | 25 | | | | |
| 1234678-HpCDD | 88 | 90 | 70-140 | 2 | 25 | | | | |
| OCDD | 85 | 84 | 78-144 | 0 | 25 | | | | |
| 2378-TCDF-Conf | 44* | 35* | 75-158 | 6 | 25 | | | | |
| 12378-PeCDF | 83 | 85 | 80-134 | 2 | 25 | | | | |
| 23478-PeCDF | 87 | 86 | 68-160 | 1 | 25 | | | | |
| 123478-HxCDF | 85 | 89 | 72-134 | 4 | 25 | | | | |
| 123678-HxCDF | 87 | 87 | 84-130 | 0 | 25 | | | | |
| 123789-HxCDF | 91 | 92 | 78-130 | 2 | 25 | | | | |
| 234678-HxCDF | 87 | 87 | 70-156 | 0 | 25 | | | | |
| 1234678-HpCDF | 84 | 83 | 82-122 | 1 | 25 | | | | |
| 1234789-HpCDF | 88 | 87 | 78-138 | 0 | 25 | | | | |
| OCDF | 87 | 87 | 63-170 | 1 | 25 | | | | |

## Surrogate Quality Control

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1297267
Reported: 04/12/12 at 11:07 AM

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12089001

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6589247 | 82 | 68 | 73 | 86 | 74 | 66 |
| 6589248 | 85 | 70 | 75 | 84 | 75 | 69 |
| 6589249 | 80 | 67 | 72 | 80 | 71 | 72 |
| 6589250 | 82 | 69 | 74 | 81 | 74 | 67 |
| 6589251 | 86 | 74 | 77 | 81 | 78 | 75 |
| 6589252 | 78 | 64 | 68 | 77 | 74 | 65 |
| 6589253 | 87 | 72 | 75 | 85 | 77 | 68 |
| 6589255 | 79 | 68 | 70 | 79 | 71 | 63 |
| 6589256 | 84 | 67 | 72 | 78 | 72 | 73 |
| Blank | 82 | 71 | 79 | 86 | 81 | 82 |
| MS | 93 | 83 | 93 | 102 | 95 | 87 |
| MSD | 83 | 72 | 78 | 91 | 82 | 73 |
| OPR | 76 | 68 | 74 | 84 | 77 | 71 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6589247 | 98 | 55 | 49 | 78 | 85 | 84 |
| 6589248 | 93 | 58 | 53 | 80 | 84 | 86 |
| 6589249 | 89 | 56 | 52 | 74 | 81 | 80 |
| 6589250 | 84 | 58 | 57 | 77 | 84 | 82 |
| 6589251 | 82 | 63 | 57 | 80 | 85 | 82 |
| 6589252 | 84 | 57 | 53 | 72 | 83 | 80 |
| 6589253 | 93 | 59 | 53 | 81 | 90 | 90 |
| 6589255 | 98 | 61 | 55 | 76 | 81 | 83 |
| 6589256 | 85 | 64 | 57 | 72 | 82 | 81 |
| Blank | 97 | 68 | 61 | 79 | 88 | 88 |
| MS | 114 | 77 | 78 | 91 | 100 | 99 |
| MSD | 103 | 63 | 60 | 81 | 87 | 86 |
| OPR | 98 | 62 | 56 | 78 | 84 | 84 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF | 13C12-2378-TCDF-Conf |
|---|---|---|---|---|---|---|
| 6589247 | 82 | 82 | 73 | | 80 | 73 |
| 6589248 | 84 | 81 | 73 | 70 | 81 | |
| 6589249 | 79 | 74 | 70 | 66 | 74 | |
| 6589250 | 81 | 75 | 72 | 70 | 77 | |
| 6589251 | 83 | 78 | 71 | | 81 | 82 |
| 6589252 | 80 | 80 | 73 | 65 | 73 | |
| 6589253 | 87 | 86 | 75 | 75 | 84 | |
| 6589255 | 81 | 86 | 78 | 69 | 76 | |
| 6589256 | 79 | 82 | 75 | 69 | 73 | |
| Blank | 88 | 82 | 75 | 69 | 76 | 68 |
| MS | 97 | 96 | 93 | 83 | 94 | 83 |
| MSD | 87 | 84 | 78 | 71 | 83 | 71 |
| OPR | 84 | 82 | 75 | 64 | 77 | 64 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1297267
Reported: 04/12/12 at 11:07 AM

## Surrogate Quality Control

| | | | | | | |
|---|---|---|---|---|---|---|
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 | 24-169 |

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 12094001

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6589257 | 61 | 51 | 55 | 55 | 57 | 60 |
| Blank | 78 | 67 | 73 | 75 | 76 | 79 |
| OPR | 76 | 64 | 72 | 73 | 71 | 80 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6589257 | 52 | 49 | 44 | 55 | 58 | 57 |
| Blank | 71 | 64 | 57 | 71 | 77 | 76 |
| OPR | 67 | 65 | 59 | 69 | 74 | 74 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF | 13C12-2378-TCDF-Conf |
|---|---|---|---|---|---|---|
| 6589257 | 57 | 54 | 47 | 54 | 51 | |
| Blank | 80 | 69 | 60 | 71 | 67 | |
| OPR | 73 | 71 | 60 | 66 | 65 | 66 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 | 22-152 |

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12096002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6589254 | 76 | 78 | 74 | 77 | 75 | 77 |
| Blank | 63 | 66 | 58 | 68 | 61 | 54 |
| OPR | 69 | 71 | 65 | 72 | 66 | 66 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6589254 | 82 | 72 | 71 | 80 | 76 | 76 |
| Blank | 90 | 58 | 58 | 76 | 73 | 73 |
| OPR | 94 | 63 | 61 | 78 | 73 | 72 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF | 13C12-2378-TCDF-Conf |
|---|---|---|---|---|---|---|
| 6589254 | 79 | 79 | 74 | 72 | 90 | |
| Blank | 70 | 77 | 81 | 58 | 74 | 47 |
| OPR | 70 | 79 | 79 | 59 | 74 | 59 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 | 24-169 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Grp# 1297267 Sample# 6589347-57

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSES | SECONDARY ANALYSES | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-062-NBZ-SB-2.5-3.5 | 3/21/12 | 1540 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-063-NBZ-SB-0.5-1.5 | 3/21/12 | 1445 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-064-NBZ-SB-0.5-1.5 | 3/21/12 | 1330 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-104-NBZ-SS-0.0-0.5 | 3/21/12 | 1345 | SOIL | NONE | 1-8 oz Jar | X | | | | |
| SL-054-NBZ-SS-0.0-0.5 | 3/22/12 | 1345 | SOIL | NONE | 1-4 oz Jar | X | X | X | X | |
| SL-055-NBZ-SS-0.0-0.5 | 3/22/12 | 1125 | SOIL | NONE | 1-4 oz Jar | X | X | X | X | |
| SL-059-NBZ-SB-0.0-1.0 | 3/22/12 | 1050 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-060-NBZ-SB-0.0-1.0 | 3/22/12 | 1025 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-061-NBZ-SB-1.0-2.0 | 3/22/12 | 0930 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-116-NBZ-SS-0.0-0.5 | 3/22/12 | 1500 | SOIL | NONE | 1-8 oz Jar | X | | | | |
| EB-NBZ-SB-032212 | 03.22.12 | 1530 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SB-032212 | 03.22.12 | 1530 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| Relinquished by: (*Signature*) | Date/Time<br>3/22/2012 / 1630 | Received for Laboratory by: (*Signature*)<br>Kathy Brinkley 3-23-12/ 0910 | | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | Airbill No.(s) | | | | | | | | |

**Nicole Maljovec**

**From:** Hartman, Pamela [HartmanPM@cdmsmith.com]
**Sent:** Friday, March 23, 2012 11:00 AM
**To:** Nicole Maljovec
**Subject:** RE: 3/22: Sample ID Question

**Attachments:** COC_LLI_03_22_12.xlsx

COC_LLI_03_22_12
.xlsx (22 KB)

Hi Nicole

You are correct, it is odd. The sampler collected them as Subsurface, but they are better as surface. I would like to change the sample names to the following:

SL-059-NBZ-SS-0.0-0.5
SL-060-NBZ-SS-0.0-0.5

Thanks Nicole!!

Pam
Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

---

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Friday, March 23, 2012 7:46 AM
To: Hartman, Pamela
Subject: 3/22: Sample ID Question

Good morning Pam,
Can you confirm the sample IDs for SL-059-NBZ-SB-0.0-1.0 and SL-060-NBZ-SB-0.0-1.0? The SB looks odd with the 0.0 depth. The coolers are here but not unpacked yet, so I'm not sure what's on the labels.

Thanks!
Nicole

acct# 13013 Cp# 1297267 Sample# 6589247-57

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSES | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | SECONDARY ANALYSES | | | | |
| Samplers Signatures: | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-062-NBZ-SB-2.5-3.5 | 3/21/12 | 1540 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-063-NBZ-SB-0.5-1.5 | 3/21/12 | 1445 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-064-NBZ-SB-0.5-1.5 | 3/21/12 | 1330 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-104-NBZ-SS-0.0-0.5 | 3/21/12 | 1345 | SOIL | NONE | 1-8 oz Jar | X | | | | |
| SL-054-NBZ-SS-0.0-0.5 | 3/22/12 | 1345 | SOIL | NONE | 1-4 oz Jar | X | X | X | X | |
| SL-055-NBZ-SS-0.0-0.5 | 3/22/12 | 1125 | SOIL | NONE | 1-4 oz Jar | X | X | X | X | |
| SL-059-NBZ-SS-0.0-0.5 | 3/22/12 | 1050 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-060-NBZ-SS-0.0-0.5 | 3/22/12 | 1025 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-061-NBZ-SB-1.0-2.0 | 3/22/12 | 0930 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-116-NBZ-SS-0.0-0.5 | 3/22/12 | 1500 | SOIL | NONE | 1-8 oz Jar | X | | | | |
| EB-NBZ-SB-032212 | 03.22.12 | 1530 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SB-032212 | 03.22.12 | 1530 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| Relinquished by: (*Signature*) | Date/Time<br>3/22/2012 / 1630 | | Received for Laboratory by: (*Signature*) | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s) | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# DX163

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 13, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/28/2012
Group Number: 1298319
SDG: DX163
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-042-NBZ-SS-0.0-0.5 Soil | 6595138 |
| SL-043-NBZ-SS-0.0-0.5 Soil | 6595139 |
| SL-045-NBZ-SS-0.0-0.5 Soil | 6595140 |
| SL-045-NBZ-SB-4.0-5.0 Soil | 6595141 |
| SL-046-NBZ-SS-0.0-0.5 Soil | 6595142 |
| SL-046-NBZ-SB-4.0-5.0 Soil | 6595143 |
| SL-050-NBZ-SS-0.0-0.5 Soil | 6595144 |
| SL-123-NBZ-SS-0.0-0.5 Soil | 6595145 |
| SL-133-NBZ-SS-0.0-0.5 Soil | 6595146 |
| SL-124-NBZ-SS-0.0-0.5 Soil | 6595147 |
| SL-126-NBZ-SS-0.0-0.5 Soil | 6595148 |
| SL-195-NBZ-SS-0.0-0.5 Soil | 6595149 |
| SL-196-NBZ-SS-0.0-0.5 Soil | 6595150 |
| SL-038-NBZ-SS-0.0-0.5 Soil | 6595151 |
| SL-078-NBZ-SS-0.0-0.5 Soil | 6595152 |
| SL-095-NBZ-SS-0.0-0.5 Soil | 6595153 |
| SL-119-NBZ-SS-0.0-0.5 Soil | 6595154 |
| SL-130-NBZ-SS-0.0-0.5 Soil | 6595155 |
| EB-NBZ-SB-032712 Water | 6595156 |
| EB-NBZ-SS-032712 Water | 6595157 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

ELECTRONIC COPY TO Data Package Group

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-042-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-NBZ-SS

**LLI Sample # SW 6595138**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 14:10

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6301 SDG#: DX163-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 15.4 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-042-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-NBZ-SS

**LLI Sample # SW 6595138**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 14:10

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6301 SDG#: DX163-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.615 | J | 0.0918 | 1.17 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.903 | JB | 0.0898 | 5.87 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 2.03 | JB | 0.0560 | 5.87 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 10.1 | B | 0.0595 | 5.87 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 4.23 | JB | 0.0669 | 5.87 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 405 | B | 0.124 | 5.87 | 1 |
| 11031 | OCDD | 3268-87-9 | 3,290 | B | 0.0670 | 11.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.689 | JB | 0.154 | 1.17 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 4.12 | JB | 0.0877 | 5.87 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 5.48 | JB | 0.0806 | 5.87 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 2.22 | J | 0.0515 | 5.87 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 2.33 | JB | 0.0511 | 5.87 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0512 | U | 0.0512 | 5.87 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 3.89 | JB | 0.0519 | 5.87 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 29.8 | B | 0.0418 | 5.87 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 2.35 | JB | 0.0496 | 5.87 | 1 |
| 11031 | OCDF | 39001-02-0 | 80.3 | B | 0.0333 | 11.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 81 | 25 - 164 |
| 13C12-12378-PeCDD | 91 | 25 - 181 |
| 13C12-123478-HxCDD | 74 | 32 - 141 |
| 13C12-123678-HxCDD | 78 | 28 - 130 |
| 13C12-123789-HxCDD | 62 | 28 - 130 |
| 13C12-1234678-HpCDD | 79 | 23 - 140 |
| 13C12-OCDD | 73 | 17 - 157 |
| 13C12-2378-TCDF | 83 | 24 - 169 |
| 13C12-12378-PeCDF | 90 | 24 - 185 |
| 13C12-23478-PeCDF | 89 | 21 - 178 |
| 13C12-123478-HxCDF | 78 | 26 - 152 |
| 13C12-123678-HxCDF | 77 | 26 - 123 |
| 13C12-234678-HxCDF | 75 | 28 - 136 |
| 13C12-123789-HxCDF | 80 | 29 - 147 |
| 13C12-1234678-HpCDF | 77 | 28 - 143 |
| 13C12-1234789-HpCDF | 72 | 26 - 138 |
| 13C12-OCDF | 70 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-042-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-NBZ-SS

**LLI Sample # SW 6595138**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 14:10

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6301 SDG#: DX163-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-042-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-NBZ-SS

**LLI Sample # SW 6595138**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 14:10

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6301 SDG#: DX163-01

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12096002 | 04/07/2012 05:31 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12096002 | 04/05/2012 11:30 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-043-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-NBZ-SS

**LLI Sample # SW 6595139**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 15:35

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6302 SDG#: DX163-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 8.9 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-043-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-NBZ-SS

**LLI Sample # SW 6595139**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 15:35

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6302 SDG#: DX163-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0485 | J | 0.0316 | 1.08 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.128 | JB | 0.0336 | 5.39 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.151 | JB | 0.0269 | 5.39 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.411 | JB | 0.0288 | 5.39 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.505 | JB | 0.0249 | 5.39 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 5.00 | JB | 0.0276 | 5.39 | 1 |
| 11031 | OCDD | 3268-87-9 | 28.1 | B | 0.0200 | 10.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.240 | JB | 0.0549 | 1.08 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.276 | JB | 0.0261 | 5.39 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.563 | JB | 0.0260 | 5.39 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.213 | J | 0.0194 | 5.39 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.189 | JB | 0.0175 | 5.39 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.138 | J | 0.0224 | 5.39 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.213 | JB | 0.0196 | 5.39 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.962 | JB | 0.0169 | 5.39 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0986 | JB | 0.0258 | 5.39 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.87 | JB | 0.0183 | 10.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 76 | 25 - 164 |
| 13C12-12378-PeCDD | 83 | 25 - 181 |
| 13C12-123478-HxCDD | 70 | 32 - 141 |
| 13C12-123678-HxCDD | 72 | 28 - 130 |
| 13C12-123789-HxCDD | 75 | 28 - 130 |
| 13C12-1234678-HpCDD | 69 | 23 - 140 |
| 13C12-OCDD | 61 | 17 - 157 |
| 13C12-2378-TCDF | 73 | 24 - 169 |
| 13C12-12378-PeCDF | 84 | 24 - 185 |
| 13C12-23478-PeCDF | 77 | 21 - 178 |
| 13C12-123478-HxCDF | 67 | 26 - 152 |
| 13C12-123678-HxCDF | 73 | 26 - 123 |
| 13C12-234678-HxCDF | 66 | 28 - 136 |
| 13C12-123789-HxCDF | 63 | 29 - 147 |
| 13C12-1234678-HpCDF | 80 | 28 - 143 |
| 13C12-1234789-HpCDF | 55 | 26 - 138 |
| 13C12-OCDF | 50 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-043-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-043-NBZ-SS**

**LLI Sample # SW 6595139**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 15:35

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6302 SDG#: DX163-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-043-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-NBZ-SS

**LLI Sample # SW 6595139**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 15:35

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6302 SDG#: DX163-02

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12096002 | 04/08/2012 04:36 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12096002 | 04/05/2012 11:30 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-045-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-NBZ-SS

**LLI Sample # SW 6595140**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 11:41

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6303 SDG#: DX163-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | **%** | **%** | |
| 11625 | Moisture Content by 160.3 | n.a. | 10.3 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-045-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-NBZ-SS

**LLI Sample # SW 6595140**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 11:41

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6303 SDG#: DX163-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.189 | J | 0.0693 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.500 | JB | 0.0751 | 5.43 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.527 | JB | 0.0625 | 5.43 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 2.09 | JB | 0.0630 | 5.43 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 1.33 | JB | 0.0599 | 5.43 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 27.9 | B | 0.0488 | 5.43 | 1 |
| 11031 | OCDD | 3268-87-9 | 198 | B | 0.0400 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.890 | JB | 0.128 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 1.52 | JB | 0.0643 | 5.43 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 1.39 | JB | 0.0647 | 5.43 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 1.30 | J | 0.0535 | 5.43 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 1.22 | JB | 0.0504 | 5.43 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.494 | J | 0.0489 | 5.43 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 1.31 | JB | 0.0492 | 5.43 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 7.88 | B | 0.0327 | 5.43 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.683 | JB | 0.0372 | 5.43 | 1 |
| 11031 | OCDF | 39001-02-0 | 10.5 | JB | 0.0282 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 83 | 25 - 164 |
| 13C12-12378-PeCDD | 97 | 25 - 181 |
| 13C12-123478-HxCDD | 82 | 32 - 141 |
| 13C12-123678-HxCDD | 82 | 28 - 130 |
| 13C12-123789-HxCDD | 83 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 79 | 17 - 157 |
| 13C12-2378-TCDF | 77 | 24 - 169 |
| 13C12-12378-PeCDF | 92 | 24 - 185 |
| 13C12-23478-PeCDF | 91 | 21 - 178 |
| 13C12-123478-HxCDF | 79 | 26 - 152 |
| 13C12-123678-HxCDF | 79 | 26 - 123 |
| 13C12-234678-HxCDF | 77 | 28 - 136 |
| 13C12-123789-HxCDF | 82 | 29 - 147 |
| 13C12-1234678-HpCDF | 82 | 28 - 143 |
| 13C12-1234789-HpCDF | 79 | 26 - 138 |
| 13C12-OCDF | 78 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-045-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-NBZ-SS

**LLI Sample # SW 6595140**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 11:41

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6303 SDG#: DX163-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-045-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-NBZ-SS

**LLI Sample # SW 6595140**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 11:41

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6303 SDG#: DX163-03

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12096002 | 04/07/2012 07:24 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12096002 | 04/05/2012 11:30 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-045-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-NBZ-SB

**LLI Sample # SW 6595141**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 11:55

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6304 SDG#: DX163-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 5.1 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-045-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-NBZ-SB

**LLI Sample # SW 6595141**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 11:55

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6304 SDG#: DX163-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0726 U | 0.0726 | 1.05 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.230 JBQ | 0.0443 | 5.23 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0883 JB | 0.0444 | 5.23 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0654 JB | 0.0451 | 5.23 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.191 JB | 0.0438 | 5.23 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.436 JB | 0.0405 | 5.23 | 1 |
| 11031 | OCDD | 3268-87-9 | 1.87 JB | 0.0327 | 10.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0524 U | 0.0524 | 1.05 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0503 JBQ | 0.0347 | 5.23 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.110 JB | 0.0371 | 5.23 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.111 J | 0.0345 | 5.23 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.149 JB | 0.0295 | 5.23 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.102 J | 0.0420 | 5.23 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0758 JBQ | 0.0351 | 5.23 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.158 JB | 0.0210 | 5.23 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.110 JB | 0.0449 | 5.23 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.219 JB | 0.0398 | 10.5 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 66 | 25 - 164 |
| 13C12-12378-PeCDD | 75 | 25 - 181 |
| 13C12-123478-HxCDD | 65 | 32 - 141 |
| 13C12-123678-HxCDD | 67 | 28 - 130 |
| 13C12-123789-HxCDD | 65 | 28 - 130 |
| 13C12-1234678-HpCDD | 72 | 23 - 140 |
| 13C12-OCDD | 66 | 17 - 157 |
| 13C12-2378-TCDF | 57 | 24 - 169 |
| 13C12-12378-PeCDF | 75 | 24 - 185 |
| 13C12-23478-PeCDF | 67 | 21 - 178 |
| 13C12-123478-HxCDF | 59 | 26 - 152 |
| 13C12-123678-HxCDF | 66 | 26 - 123 |
| 13C12-234678-HxCDF | 57 | 28 - 136 |
| 13C12-123789-HxCDF | 50 | 29 - 147 |
| 13C12-1234678-HpCDF | 89 | 28 - 143 |
| 13C12-1234789-HpCDF | 48 | 26 - 138 |
| 13C12-OCDF | 43 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-045-NBZ-SB-4.0-5.0 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-045-NBZ-SB**

**LLI Sample # SW 6595141**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 11:55

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6304 SDG#: DX163-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-045-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-NBZ-SB

**LLI Sample # SW 6595141**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 11:55

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6304 SDG#: DX163-04

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12096002 | 04/07/2012 08:21 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12096002 | 04/05/2012 11:30 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-046-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-NBZ-SS

**LLI Sample # SW 6595142**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 09:20

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6305 SDG#: DX163-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 15.3 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-046-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-NBZ-SS

**LLI Sample # SW 6595142**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 09:20

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6305 SDG#: DX163-05

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0973 | J | 0.0509 | 1.15 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.461 | JB | 0.0692 | 5.73 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.542 | JB | 0.0437 | 5.73 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 1.53 | JB | 0.0468 | 5.73 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 1.05 | JB | 0.0433 | 5.73 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 26.0 | B | 0.0491 | 5.73 | 1 |
| 11031 | OCDD | 3268-87-9 | 228 | B | 0.0349 | 11.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 1.50 | BC | 0.130 | 1.15 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 5.36 | JB | 0.0692 | 5.73 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 1.47 | JB | 0.0662 | 5.73 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 1.42 | J | 0.0392 | 5.73 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 1.14 | JB | 0.0399 | 5.73 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.358 | J | 0.0446 | 5.73 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 1.10 | JB | 0.0431 | 5.73 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 7.94 | B | 0.0334 | 5.73 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.544 | JB | 0.0416 | 5.73 | 1 |
| 11031 | OCDF | 39001-02-0 | 16.9 | B | 0.0273 | 11.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 76 | 25 - 164 |
| 13C12-12378-PeCDD | 77 | 25 - 181 |
| 13C12-123478-HxCDD | 73 | 32 - 141 |
| 13C12-123678-HxCDD | 75 | 28 - 130 |
| 13C12-123789-HxCDD | 75 | 28 - 130 |
| 13C12-1234678-HpCDD | 72 | 23 - 140 |
| 13C12-OCDD | 65 | 17 - 157 |
| 13C12-2378-TCDF | 75 | 24 - 169 |
| 13C12-12378-PeCDF | 73 | 24 - 185 |
| 13C12-23478-PeCDF | 72 | 21 - 178 |
| 13C12-123478-HxCDF | 76 | 26 - 152 |
| 13C12-123678-HxCDF | 73 | 26 - 123 |
| 13C12-234678-HxCDF | 69 | 28 - 136 |
| 13C12-123789-HxCDF | 70 | 29 - 147 |
| 13C12-1234678-HpCDF | 72 | 28 - 143 |
| 13C12-1234789-HpCDF | 64 | 26 - 138 |
| 13C12-OCDF | 60 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-046-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-NBZ-SS

**LLI Sample # SW 6595142**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 09:20

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6305 SDG#: DX163-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-046-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-NBZ-SS

**LLI Sample # SW 6595142**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 09:20

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6305 SDG#: DX163-05

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12096002 | 04/08/2012 05:33 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12096002 | 04/05/2012 11:30 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-046-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-NBZ-SB

**LLI Sample # SW 6595143**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 10:15

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6306 SDG#: DX163-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 4.8 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-046-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-NBZ-SB

**LLI Sample # SW 6595143**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 10:15

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6306 SDG#: DX163-06

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0539 | U | 0.0539 | 1.05 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0384 | U | 0.0384 | 5.23 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0628 | JB | 0.0266 | 5.23 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0832 | JB | 0.0280 | 5.23 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0913 | JB | 0.0255 | 5.23 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.623 | JBQ | 0.0318 | 5.23 | 1 |
| 11031 | OCDD | 3268-87-9 | 2.02 | JB | 0.0256 | 10.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0641 | JB | 0.0437 | 1.05 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.129 | JBQ | 0.0290 | 5.23 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.117 | JBQ | 0.0299 | 5.23 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.121 | J | 0.0231 | 5.23 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.110 | JB | 0.0189 | 5.23 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.168 | J | 0.0249 | 5.23 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0630 | JB | 0.0207 | 5.23 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.150 | JB | 0.0148 | 5.23 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.134 | JB | 0.0301 | 5.23 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.249 | JB | 0.0325 | 10.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 70 | 25 - 164 |
| 13C12-12378-PeCDD | 70 | 25 - 181 |
| 13C12-123478-HxCDD | 72 | 32 - 141 |
| 13C12-123678-HxCDD | 72 | 28 - 130 |
| 13C12-123789-HxCDD | 71 | 28 - 130 |
| 13C12-1234678-HpCDD | 75 | 23 - 140 |
| 13C12-OCDD | 71 | 17 - 157 |
| 13C12-2378-TCDF | 53 | 24 - 169 |
| 13C12-12378-PeCDF | 72 | 24 - 185 |
| 13C12-23478-PeCDF | 62 | 21 - 178 |
| 13C12-123478-HxCDF | 60 | 26 - 152 |
| 13C12-123678-HxCDF | 71 | 26 - 123 |
| 13C12-234678-HxCDF | 60 | 28 - 136 |
| 13C12-123789-HxCDF | 55 | 29 - 147 |
| 13C12-1234678-HpCDF | 95 | 28 - 143 |
| 13C12-1234789-HpCDF | 49 | 26 - 138 |
| 13C12-OCDF | 46 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-046-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-NBZ-SB

**LLI Sample # SW 6595143**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 10:15

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6306 SDG#: DX163-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-046-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-NBZ-SB

**LLI Sample # SW 6595143**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 10:15

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6306 SDG#: DX163-06

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12096002 | 04/07/2012 10:14 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12096002 | 04/05/2012 11:30 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-050-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-NBZ-SS

**LLI Sample # SW 6595144**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 14:30

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6307 SDG#: DX163-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 9.7 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-050-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-NBZ-SS

**LLI Sample # SW 6595144**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 14:30

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6307 SDG#: DX163-07

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0532 | J | 0.0396 | 1.10 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.355 | JB | 0.0488 | 5.49 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.838 | JB | 0.0398 | 5.49 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 1.36 | JB | 0.0413 | 5.49 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.948 | JB | 0.0384 | 5.49 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 14.2 | B | 0.0380 | 5.49 | 1 |
| 11031 | OCDD | 3268-87-9 | 107 | B | 0.0301 | 11.0 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 1.50 | BC | 0.112 | 1.10 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 1.09 | JB | 0.0587 | 5.49 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 1.51 | JB | 0.0542 | 5.49 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.831 | J | 0.0342 | 5.49 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.429 | JB | 0.0320 | 5.49 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.393 | J | 0.0331 | 5.49 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.542 | JB | 0.0326 | 5.49 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 4.03 | JB | 0.0297 | 5.49 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.373 | JB | 0.0332 | 5.49 | 1 |
| 11031 | OCDF | 39001-02-0 | 10.9 | JB | 0.0238 | 11.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 75 | 25 - 164 |
| 13C12-12378-PeCDD | 76 | 25 - 181 |
| 13C12-123478-HxCDD | 74 | 32 - 141 |
| 13C12-123678-HxCDD | 76 | 28 - 130 |
| 13C12-123789-HxCDD | 78 | 28 - 130 |
| 13C12-1234678-HpCDD | 73 | 23 - 140 |
| 13C12-OCDD | 66 | 17 - 157 |
| 13C12-2378-TCDF | 67 | 24 - 169 |
| 13C12-12378-PeCDF | 72 | 24 - 185 |
| 13C12-23478-PeCDF | 74 | 21 - 178 |
| 13C12-123478-HxCDF | 72 | 26 - 152 |
| 13C12-123678-HxCDF | 73 | 26 - 123 |
| 13C12-234678-HxCDF | 73 | 28 - 136 |
| 13C12-123789-HxCDF | 76 | 29 - 147 |
| 13C12-1234678-HpCDF | 73 | 28 - 143 |
| 13C12-1234789-HpCDF | 70 | 26 - 138 |
| 13C12-OCDF | 65 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-050-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-NBZ-SS

**LLI Sample # SW 6595144**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 14:30

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6307 SDG#: DX163-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-050-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-NBZ-SS

**LLI Sample # SW 6595144**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 14:30

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6307 SDG#: DX163-07

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12096002 | 04/07/2012 11:11 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12096002 | 04/05/2012 11:30 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-123-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-NBZ-SS

**LLI Sample # SW 6595145**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 14:55

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6308 SDG#: DX163-08

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 15.5 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-123-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-NBZ-SS

**LLI Sample # SW 6595145**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 14:55

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6308 SDG#: DX163-08

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0802 | J | 0.0664 | 1.17 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.186 | JB | 0.0555 | 5.87 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.158 | JB | 0.0544 | 5.87 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.515 | JB | 0.0585 | 5.87 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.589 | JB | 0.0537 | 5.87 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 4.90 | JB | 0.0389 | 5.87 | 1 |
| 11031 | OCDD | 3268-87-9 | 55.0 | B | 0.0335 | 11.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.122 | JB | 0.0693 | 1.17 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.508 | JB | 0.0414 | 5.87 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.727 | JB | 0.0451 | 5.87 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.384 | J | 0.0464 | 5.87 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.252 | JB | 0.0372 | 5.87 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.305 | J | 0.0598 | 5.87 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.254 | JB | 0.0430 | 5.87 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.983 | JB | 0.0194 | 5.87 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.229 | JB | 0.0470 | 5.87 | 1 |
| 11031 | OCDF | 39001-02-0 | 2.69 | JB | 0.0399 | 11.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 73 | 25 - 164 |
| 13C12-12378-PeCDD | 81 | 25 - 181 |
| 13C12-123478-HxCDD | 73 | 32 - 141 |
| 13C12-123678-HxCDD | 73 | 28 - 130 |
| 13C12-123789-HxCDD | 73 | 28 - 130 |
| 13C12-1234678-HpCDD | 74 | 23 - 140 |
| 13C12-OCDD | 67 | 17 - 157 |
| 13C12-2378-TCDF | 60 | 24 - 169 |
| 13C12-12378-PeCDF | 80 | 24 - 185 |
| 13C12-23478-PeCDF | 69 | 21 - 178 |
| 13C12-123478-HxCDF | 60 | 26 - 152 |
| 13C12-123678-HxCDF | 74 | 26 - 123 |
| 13C12-234678-HxCDF | 61 | 28 - 136 |
| 13C12-123789-HxCDF | 49 | 29 - 147 |
| 13C12-1234678-HpCDF | 97 | 28 - 143 |
| 13C12-1234789-HpCDF | 46 | 26 - 138 |
| 13C12-OCDF | 39 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-123-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-123-NBZ-SS**

**LLI Sample # SW 6595145**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 14:55

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6308 SDG#: DX163-08

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-123-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-NBZ-SS

**LLI Sample # SW 6595145**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 14:55

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6308 SDG#: DX163-08

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12096002 | 04/07/2012 15:10 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12096002 | 04/05/2012 11:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401A | 04/04/2012 19:16 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-133-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-NBZ-SS

**LLI Sample # SW 6595146**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 15:15

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6309 SDG#: DX163-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 13.5 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-133-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-NBZ-SS

**LLI Sample # SW 6595146**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 15:15

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6309 SDG#: DX163-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0592 J | 0.0402 | 1.15 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.137 JB | 0.0354 | 5.76 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.221 JB | 0.0495 | 5.76 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.388 JB | 0.0521 | 5.76 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.278 JB | 0.0446 | 5.76 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.60 JB | 0.0255 | 5.76 | 1 |
| 11031 | OCDD | 3268-87-9 | 24.5 B | 0.0274 | 11.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.353 JB | 0.0673 | 1.15 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.381 JB | 0.0339 | 5.76 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.682 JB | 0.0360 | 5.76 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.313 J | 0.0366 | 5.76 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.325 JB | 0.0312 | 5.76 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0951 J | 0.0371 | 5.76 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.303 JB | 0.0345 | 5.76 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.755 JB | 0.0172 | 5.76 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0878 JB | 0.0312 | 5.76 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.39 JB | 0.0282 | 11.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 78 | 25 - 164 |
| 13C12-12378-PeCDD | 80 | 25 - 181 |
| 13C12-123478-HxCDD | 70 | 32 - 141 |
| 13C12-123678-HxCDD | 70 | 28 - 130 |
| 13C12-123789-HxCDD | 75 | 28 - 130 |
| 13C12-1234678-HpCDD | 67 | 23 - 140 |
| 13C12-OCDD | 60 | 17 - 157 |
| 13C12-2378-TCDF | 68 | 24 - 169 |
| 13C12-12378-PeCDF | 82 | 24 - 185 |
| 13C12-23478-PeCDF | 71 | 21 - 178 |
| 13C12-123478-HxCDF | 64 | 26 - 152 |
| 13C12-123678-HxCDF | 72 | 26 - 123 |
| 13C12-234678-HxCDF | 63 | 28 - 136 |
| 13C12-123789-HxCDF | 61 | 29 - 147 |
| 13C12-1234678-HpCDF | 82 | 28 - 143 |
| 13C12-1234789-HpCDF | 50 | 26 - 138 |
| 13C12-OCDF | 45 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-133-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-133-NBZ-SS**

**LLI Sample # SW 6595146**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 15:15

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6309 SDG#: DX163-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-133-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-133-NBZ-SS**

**LLI Sample # SW 6595146**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 15:15

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6309 SDG#: DX163-09

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12096002 | 04/08/2012 06:30 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12096002 | 04/05/2012 11:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401A | 04/04/2012 19:16 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-124-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-NBZ-SS

**LLI Sample # SW 6595147**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 10:20

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6310 SDG#: DX163-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 25.0 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-124-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-NBZ-SS

**LLI Sample # SW 6595147**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 10:20

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6310 SDG#: DX163-10

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.118 | J | 0.0720 | 1.30 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.310 | JB | 0.0645 | 6.49 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.242 | JB | 0.0673 | 6.49 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.458 | JB | 0.0719 | 6.49 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.402 | JB | 0.0661 | 6.49 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 6.26 | JB | 0.0421 | 6.49 | 1 |
| 11031 | OCDD | 3268-87-9 | 50.9 | B | 0.0463 | 13.0 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.257 | JB | 0.0716 | 1.30 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.256 | JB | 0.0416 | 6.49 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.424 | JB | 0.0429 | 6.49 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.265 | J | 0.0504 | 6.49 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.249 | JB | 0.0417 | 6.49 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.141 | J | 0.0619 | 6.49 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.329 | JB | 0.0492 | 6.49 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 2.04 | JB | 0.0263 | 6.49 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.250 | JB | 0.0529 | 6.49 | 1 |
| 11031 | OCDF | 39001-02-0 | 5.42 | JB | 0.0492 | 13.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 86 | 25 - 164 |
| 13C12-12378-PeCDD | 93 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 87 | 28 - 130 |
| 13C12-123789-HxCDD | 85 | 28 - 130 |
| 13C12-1234678-HpCDD | 88 | 23 - 140 |
| 13C12-OCDD | 80 | 17 - 157 |
| 13C12-2378-TCDF | 74 | 24 - 169 |
| 13C12-12378-PeCDF | 94 | 24 - 185 |
| 13C12-23478-PeCDF | 86 | 21 - 178 |
| 13C12-123478-HxCDF | 77 | 26 - 152 |
| 13C12-123678-HxCDF | 90 | 26 - 123 |
| 13C12-234678-HxCDF | 78 | 28 - 136 |
| 13C12-123789-HxCDF | 67 | 29 - 147 |
| 13C12-1234678-HpCDF | 113 | 28 - 143 |
| 13C12-1234789-HpCDF | 61 | 26 - 138 |
| 13C12-OCDF | 55 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-124-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-NBZ-SS

**LLI Sample # SW 6595147**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 10:20

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6310 SDG#: DX163-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-124-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-NBZ-SS

**LLI Sample # SW 6595147**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 10:20

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6310 SDG#: DX163-10

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12096002 | 04/07/2012 17:03 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12096002 | 04/05/2012 11:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401A | 04/04/2012 19:16 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-126-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-NBZ-SS

**LLI Sample # SW 6595148**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 11:20

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6311 SDG#: DX163-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 17.0 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-126-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-NBZ-SS

**LLI Sample # SW 6595148**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 11:20

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6311 SDG#: DX163-11

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0493 | U | 0.0493 | 1.20 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.334 | JB | 0.0511 | 6.01 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.201 | JB | 0.0589 | 6.01 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.400 | JB | 0.0623 | 6.01 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.405 | JB | 0.0518 | 6.01 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 5.63 | JB | 0.0439 | 6.01 | 1 |
| 11031 | OCDD | 3268-87-9 | 37.6 | B | 0.0405 | 12.0 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.364 | JB | 0.0922 | 1.20 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.462 | JB | 0.0481 | 6.01 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 1.04 | JB | 0.0499 | 6.01 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.454 | J | 0.0519 | 6.01 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.348 | JB | 0.0429 | 6.01 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.340 | J | 0.0596 | 6.01 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.329 | JB | 0.0498 | 6.01 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.43 | JB | 0.0280 | 6.01 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.451 | JB | 0.0520 | 6.01 | 1 |
| 11031 | OCDF | 39001-02-0 | 2.98 | JB | 0.0420 | 12.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 70 | 25 - 164 |
| 13C12-12378-PeCDD | 71 | 25 - 181 |
| 13C12-123478-HxCDD | 74 | 32 - 141 |
| 13C12-123678-HxCDD | 76 | 28 - 130 |
| 13C12-123789-HxCDD | 82 | 28 - 130 |
| 13C12-1234678-HpCDD | 73 | 23 - 140 |
| 13C12-OCDD | 68 | 17 - 157 |
| 13C12-2378-TCDF | 61 | 24 - 169 |
| 13C12-12378-PeCDF | 71 | 24 - 185 |
| 13C12-23478-PeCDF | 64 | 21 - 178 |
| 13C12-123478-HxCDF | 66 | 26 - 152 |
| 13C12-123678-HxCDF | 76 | 26 - 123 |
| 13C12-234678-HxCDF | 65 | 28 - 136 |
| 13C12-123789-HxCDF | 59 | 29 - 147 |
| 13C12-1234678-HpCDF | 90 | 28 - 143 |
| 13C12-1234789-HpCDF | 52 | 26 - 138 |
| 13C12-OCDF | 48 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-126-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-NBZ-SS

**LLI Sample # SW 6595148**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 11:20

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6311 SDG#: DX163-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-126-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-NBZ-SS

**LLI Sample # SW 6595148**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 11:20

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6311 SDG#: DX163-11

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12096002 | 04/07/2012 18:00 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12096002 | 04/05/2012 11:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401A | 04/04/2012 19:16 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-195-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-NBZ-SS

**LLI Sample # SW 6595149**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 15:40

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6312 SDG#: DX163-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 12.0 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-195-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-NBZ-SS

**LLI Sample # SW 6595149**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 15:40

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6312 SDG#: DX163-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0476 U | 0.0476 | 1.12 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.141 JB | 0.0369 | 5.59 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0923 JB | 0.0397 | 5.59 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.214 JB | 0.0402 | 5.59 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.240 JB | 0.0388 | 5.59 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.49 JB | 0.0290 | 5.59 | 1 |
| 11031 | OCDD | 3268-87-9 | 17.9 B | 0.0307 | 11.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.307 JB | 0.0498 | 1.12 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.214 JB | 0.0291 | 5.59 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.295 JB | 0.0306 | 5.59 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.138 J | 0.0288 | 5.59 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.127 JB | 0.0255 | 5.59 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0988 J | 0.0345 | 5.59 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.176 JB | 0.0292 | 5.59 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.660 JB | 0.0175 | 5.59 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.125 JB | 0.0316 | 5.59 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.26 JB | 0.0373 | 11.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 74 | 25 - 164 |
| 13C12-12378-PeCDD | 79 | 25 - 181 |
| 13C12-123478-HxCDD | 65 | 32 - 141 |
| 13C12-123678-HxCDD | 66 | 28 - 130 |
| 13C12-123789-HxCDD | 65 | 28 - 130 |
| 13C12-1234678-HpCDD | 64 | 23 - 140 |
| 13C12-OCDD | 58 | 17 - 157 |
| 13C12-2378-TCDF | 66 | 24 - 169 |
| 13C12-12378-PeCDF | 79 | 24 - 185 |
| 13C12-23478-PeCDF | 70 | 21 - 178 |
| 13C12-123478-HxCDF | 62 | 26 - 152 |
| 13C12-123678-HxCDF | 69 | 26 - 123 |
| 13C12-234678-HxCDF | 59 | 28 - 136 |
| 13C12-123789-HxCDF | 53 | 29 - 147 |
| 13C12-1234678-HpCDF | 80 | 28 - 143 |
| 13C12-1234789-HpCDF | 47 | 26 - 138 |
| 13C12-OCDF | 41 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-195-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-NBZ-SS

**LLI Sample # SW 6595149**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 15:40

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6312 SDG#: DX163-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-195-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-NBZ-SS

**LLI Sample # SW 6595149**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 15:40

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6312 SDG#: DX163-12

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12096002 | 04/07/2012 18:57 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12096002 | 04/05/2012 11:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401A | 04/04/2012 19:16 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-196-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-NBZ-SS

**LLI Sample # SW 6595150**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 11:45

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6313 SDG#: DX163-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 18.7 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-196-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-NBZ-SS

**LLI Sample # SW 6595150**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 11:45

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6313 SDG#: DX163-13

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0857 | J | 0.0328 | 1.20 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.123 | JB | 0.0387 | 6.01 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.233 | JB | 0.0496 | 6.01 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.463 | JB | 0.0508 | 6.01 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.317 | JB | 0.0482 | 6.01 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 5.62 | JB | 0.0289 | 6.01 | 1 |
| 11031 | OCDD | 3268-87-9 | 39.2 | B | 0.0261 | 12.0 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.263 | JB | 0.0643 | 1.20 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.468 | JB | 0.0369 | 6.01 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.674 | JB | 0.0391 | 6.01 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.366 | J | 0.0411 | 6.01 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.233 | JB | 0.0337 | 6.01 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.179 | J | 0.0460 | 6.01 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.329 | JB | 0.0399 | 6.01 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.25 | JB | 0.0171 | 6.01 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.230 | JB | 0.0365 | 6.01 | 1 |
| 11031 | OCDF | 39001-02-0 | 2.72 | JB | 0.0365 | 12.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 76 | 25 - 164 |
| 13C12-12378-PeCDD | 76 | 25 - 181 |
| 13C12-123478-HxCDD | 75 | 32 - 141 |
| 13C12-123678-HxCDD | 76 | 28 - 130 |
| 13C12-123789-HxCDD | 75 | 28 - 130 |
| 13C12-1234678-HpCDD | 73 | 23 - 140 |
| 13C12-OCDD | 68 | 17 - 157 |
| 13C12-2378-TCDF | 56 | 24 - 169 |
| 13C12-12378-PeCDF | 72 | 24 - 185 |
| 13C12-23478-PeCDF | 62 | 21 - 178 |
| 13C12-123478-HxCDF | 62 | 26 - 152 |
| 13C12-123678-HxCDF | 73 | 26 - 123 |
| 13C12-234678-HxCDF | 63 | 28 - 136 |
| 13C12-123789-HxCDF | 59 | 29 - 147 |
| 13C12-1234678-HpCDF | 93 | 28 - 143 |
| 13C12-1234789-HpCDF | 50 | 26 - 138 |
| 13C12-OCDF | 43 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-196-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-NBZ-SS

**LLI Sample # SW 6595150**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 11:45

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6313 SDG#: DX163-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-196-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-NBZ-SS

**LLI Sample # SW 6595150**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/26/2012 11:45

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6313 SDG#: DX163-13

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12096002 | 04/11/2012 13:51 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12096002 | 04/05/2012 11:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401A | 04/04/2012 19:16 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-038-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-NBZ-SS

**LLI Sample # SW 6595151**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 11:10

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6314 SDG#: DX163-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 19.1 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-038-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-NBZ-SS

**LLI Sample # SW 6595151**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 11:10

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6314 SDG#: DX163-14

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.269 | J | 0.0591 | 1.22 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.608 | JB | 0.0675 | 6.11 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.722 | JB | 0.0789 | 6.11 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 2.57 | JB | 0.0816 | 6.11 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 1.41 | JB | 0.0775 | 6.11 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 52.9 | B | 0.0921 | 6.11 | 1 |
| 11031 | OCDD | 3268-87-9 | 482 | B | 0.0455 | 12.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 1.52 | BC | 0.135 | 1.22 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 3.13 | JB | 0.0560 | 6.11 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 1.69 | JB | 0.0581 | 6.11 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 2.66 | J | 0.0446 | 6.11 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 1.63 | JB | 0.0373 | 6.11 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.426 | J | 0.0472 | 6.11 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 1.37 | JB | 0.0394 | 6.11 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 13.1 | B | 0.0283 | 6.11 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 1.24 | JB | 0.0488 | 6.11 | 1 |
| 11031 | OCDF | 39001-02-0 | 28.2 | B | 0.0382 | 12.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 72 | 25 - 164 |
| 13C12-12378-PeCDD | 80 | 25 - 181 |
| 13C12-123478-HxCDD | 77 | 32 - 141 |
| 13C12-123678-HxCDD | 79 | 28 - 130 |
| 13C12-123789-HxCDD | 78 | 28 - 130 |
| 13C12-1234678-HpCDD | 74 | 23 - 140 |
| 13C12-OCDD | 58 | 17 - 157 |
| 13C12-2378-TCDF | 67 | 24 - 169 |
| 13C12-12378-PeCDF | 78 | 24 - 185 |
| 13C12-23478-PeCDF | 71 | 21 - 178 |
| 13C12-123478-HxCDF | 70 | 26 - 152 |
| 13C12-123678-HxCDF | 79 | 26 - 123 |
| 13C12-234678-HxCDF | 73 | 28 - 136 |
| 13C12-123789-HxCDF | 66 | 29 - 147 |
| 13C12-1234678-HpCDF | 94 | 28 - 143 |
| 13C12-1234789-HpCDF | 60 | 26 - 138 |
| 13C12-OCDF | 47 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-038-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-NBZ-SS

**LLI Sample # SW 6595151**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 11:10

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6314 SDG#: DX163-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-038-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-NBZ-SS

**LLI Sample # SW 6595151**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 11:10

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6314 SDG#: DX163-14

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12096002 | 04/07/2012 20:50 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12096002 | 04/05/2012 11:30 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-078-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-NBZ-SS

**LLI Sample # SW 6595152**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 09:40

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6315 SDG#: DX163-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 11.1 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-078-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-NBZ-SS

**LLI Sample # SW 6595152**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 09:40

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6315 SDG#: DX163-15

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0543 | U | 0.0543 | 1.08 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.196 | JBQ | 0.0433 | 5.42 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0815 | JB | 0.0408 | 5.42 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.176 | JB | 0.0427 | 5.42 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.190 | JBQ | 0.0384 | 5.42 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.83 | JB | 0.0335 | 5.42 | 1 |
| 11031 | OCDD | 3268-87-9 | 15.1 | B | 0.0316 | 10.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0574 | U | 0.0574 | 1.08 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.243 | JB | 0.0351 | 5.42 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.323 | JB | 0.0384 | 5.42 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.276 | J | 0.0334 | 5.42 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0992 | JB | 0.0260 | 5.42 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.128 | JQ | 0.0394 | 5.42 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.160 | JB | 0.0292 | 5.42 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.494 | JB | 0.0174 | 5.42 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.144 | JB | 0.0416 | 5.42 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.19 | JB | 0.0525 | 10.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 67 | 25 - 164 |
| 13C12-12378-PeCDD | 75 | 25 - 181 |
| 13C12-123478-HxCDD | 64 | 32 - 141 |
| 13C12-123678-HxCDD | 64 | 28 - 130 |
| 13C12-123789-HxCDD | 64 | 28 - 130 |
| 13C12-1234678-HpCDD | 65 | 23 - 140 |
| 13C12-OCDD | 54 | 17 - 157 |
| 13C12-2378-TCDF | 56 | 24 - 169 |
| 13C12-12378-PeCDF | 74 | 24 - 185 |
| 13C12-23478-PeCDF | 63 | 21 - 178 |
| 13C12-123478-HxCDF | 54 | 26 - 152 |
| 13C12-123678-HxCDF | 66 | 26 - 123 |
| 13C12-234678-HxCDF | 54 | 28 - 136 |
| 13C12-123789-HxCDF | 45 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 39 | 26 - 138 |
| 13C12-OCDF | 31 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-078-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-NBZ-SS

**LLI Sample # SW 6595152**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 09:40

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6315 SDG#: DX163-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-078-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-NBZ-SS

**LLI Sample # SW 6595152**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 09:40

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6315 SDG#: DX163-15

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12096002 | 04/07/2012 21:47 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12096002 | 04/05/2012 11:30 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401A | 04/04/2012 19:16 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-095-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-NBZ-SS

**LLI Sample # SW 6595153**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 10:17

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6316 SDG#: DX163-16

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 12.9 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-095-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-NBZ-SS

**LLI Sample # SW 6595153**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 10:17

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6316 SDG#: DX163-16

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.153 | J | 0.0556 | 1.12 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.218 | JB | 0.0505 | 5.61 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.278 | JB | 0.0602 | 5.61 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.532 | JB | 0.0652 | 5.61 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.501 | JB | 0.0553 | 5.61 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 6.80 | B | 0.0431 | 5.61 | 1 |
| 11031 | OCDD | 3268-87-9 | 56.3 | B | 0.0429 | 11.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.109 | JB | 0.0701 | 1.12 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.405 | JB | 0.0403 | 5.61 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.370 | JB | 0.0440 | 5.61 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.327 | J | 0.0487 | 5.61 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.292 | JB | 0.0392 | 5.61 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.191 | J | 0.0505 | 5.61 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.241 | JB | 0.0427 | 5.61 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.63 | JB | 0.0262 | 5.61 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.302 | JB | 0.0511 | 5.61 | 1 |
| 11031 | OCDF | 39001-02-0 | 3.90 | JB | 0.0445 | 11.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 76 | 25 - 164 |
| 13C12-12378-PeCDD | 79 | 25 - 181 |
| 13C12-123478-HxCDD | 71 | 32 - 141 |
| 13C12-123678-HxCDD | 69 | 28 - 130 |
| 13C12-123789-HxCDD | 76 | 28 - 130 |
| 13C12-1234678-HpCDD | 70 | 23 - 140 |
| 13C12-OCDD | 64 | 17 - 157 |
| 13C12-2378-TCDF | 60 | 24 - 169 |
| 13C12-12378-PeCDF | 78 | 24 - 185 |
| 13C12-23478-PeCDF | 68 | 21 - 178 |
| 13C12-123478-HxCDF | 59 | 26 - 152 |
| 13C12-123678-HxCDF | 71 | 26 - 123 |
| 13C12-234678-HxCDF | 61 | 28 - 136 |
| 13C12-123789-HxCDF | 55 | 29 - 147 |
| 13C12-1234678-HpCDF | 89 | 28 - 143 |
| 13C12-1234789-HpCDF | 49 | 26 - 138 |
| 13C12-OCDF | 42 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-095-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-NBZ-SS

**LLI Sample # SW 6595153**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 10:17

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6316 SDG#: DX163-16

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-095-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-NBZ-SS

**LLI Sample # SW 6595153**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 10:17

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6316 SDG#: DX163-16

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12096002 | 04/07/2012 22:43 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12096002 | 04/05/2012 11:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401A | 04/04/2012 19:16 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-119-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-NBZ-SS

**LLI Sample # SW 6595154**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 10:50

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6317 SDG#: DX163-17

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 12.7 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-119-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-NBZ-SS

**LLI Sample # SW 6595154**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 10:50

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6317 SDG#: DX163-17

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0762 | J | 0.0487 | 1.15 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0484 | JBQ | 0.0361 | 5.73 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0782 | JB | 0.0351 | 5.73 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.164 | JB | 0.0345 | 5.73 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.148 | JB | 0.0313 | 5.73 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.37 | JB | 0.0288 | 5.73 | 1 |
| 11031 | OCDD | 3268-87-9 | 6.85 | JB | 0.0293 | 11.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.112 | JB | 0.0589 | 1.15 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.193 | JB | 0.0326 | 5.73 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.343 | JB | 0.0365 | 5.73 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.134 | J | 0.0300 | 5.73 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.113 | JB | 0.0241 | 5.73 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0804 | J | 0.0364 | 5.73 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.156 | JB | 0.0277 | 5.73 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.376 | JB | 0.0157 | 5.73 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.141 | JB | 0.0377 | 5.73 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.685 | JB | 0.0463 | 11.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 68 | 25 - 164 |
| 13C12-12378-PeCDD | 77 | 25 - 181 |
| 13C12-123478-HxCDD | 66 | 32 - 141 |
| 13C12-123678-HxCDD | 69 | 28 - 130 |
| 13C12-123789-HxCDD | 74 | 28 - 130 |
| 13C12-1234678-HpCDD | 68 | 23 - 140 |
| 13C12-OCDD | 61 | 17 - 157 |
| 13C12-2378-TCDF | 57 | 24 - 169 |
| 13C12-12378-PeCDF | 75 | 24 - 185 |
| 13C12-23478-PeCDF | 63 | 21 - 178 |
| 13C12-123478-HxCDF | 55 | 26 - 152 |
| 13C12-123678-HxCDF | 66 | 26 - 123 |
| 13C12-234678-HxCDF | 55 | 28 - 136 |
| 13C12-123789-HxCDF | 45 | 29 - 147 |
| 13C12-1234678-HpCDF | 88 | 28 - 143 |
| 13C12-1234789-HpCDF | 41 | 26 - 138 |
| 13C12-OCDF | 34 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-119-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-NBZ-SS

**LLI Sample # SW 6595154**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 10:50

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6317 SDG#: DX163-17

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-119-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-NBZ-SS

**LLI Sample # SW 6595154**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 10:50

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6317 SDG#: DX163-17

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12096002 | 04/07/2012 23:40 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12096002 | 04/05/2012 11:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401A | 04/04/2012 19:16 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-130-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-NBZ-SS

**LLI Sample # SW 6595155**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 10:20

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6318 SDG#: DX163-18

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 15.8 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-130-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-NBZ-SS

**LLI Sample # SW 6595155**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 10:20

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6318 SDG#: DX163-18

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.111 | J | 0.0438 | 1.16 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0889 | JB | 0.0387 | 5.80 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.192 | JB | 0.0452 | 5.80 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.247 | JB | 0.0474 | 5.80 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.393 | JB | 0.0450 | 5.80 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.70 | JB | 0.0283 | 5.80 | 1 |
| 11031 | OCDD | 3268-87-9 | 10.2 | JB | 0.0272 | 11.6 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0858 | JB | 0.0606 | 1.16 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.313 | JB | 0.0318 | 5.80 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.534 | JB | 0.0350 | 5.80 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.266 | J | 0.0443 | 5.80 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.160 | JB | 0.0355 | 5.80 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.125 | J | 0.0552 | 5.80 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.285 | JB | 0.0429 | 5.80 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.561 | JB | 0.0171 | 5.80 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0762 | JB | 0.0362 | 5.80 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.16 | JB | 0.0324 | 11.6 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 74 | 25 - 164 |
| 13C12-12378-PeCDD | 82 | 25 - 181 |
| 13C12-123478-HxCDD | 75 | 32 - 141 |
| 13C12-123678-HxCDD | 77 | 28 - 130 |
| 13C12-123789-HxCDD | 74 | 28 - 130 |
| 13C12-1234678-HpCDD | 75 | 23 - 140 |
| 13C12-OCDD | 68 | 17 - 157 |
| 13C12-2378-TCDF | 63 | 24 - 169 |
| 13C12-12378-PeCDF | 80 | 24 - 185 |
| 13C12-23478-PeCDF | 70 | 21 - 178 |
| 13C12-123478-HxCDF | 63 | 26 - 152 |
| 13C12-123678-HxCDF | 75 | 26 - 123 |
| 13C12-234678-HxCDF | 64 | 28 - 136 |
| 13C12-123789-HxCDF | 53 | 29 - 147 |
| 13C12-1234678-HpCDF | 97 | 28 - 143 |
| 13C12-1234789-HpCDF | 52 | 26 - 138 |
| 13C12-OCDF | 45 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-130-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-NBZ-SS

**LLI Sample # SW 6595155**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 10:20

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6318 SDG#: DX163-18

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-130-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-NBZ-SS

**LLI Sample # SW 6595155**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 10:20

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6318 SDG#: DX163-18

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12096002 | 04/08/2012 03:40 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 2 | 12096002 | 04/05/2012 11:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401A | 04/04/2012 19:16 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** EB-NBZ-SB-032712 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SB

**LLI Sample # WW 6595156**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 15:00

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6319 SDG#: DX163-19EB

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | pg/l | | pg/l | pg/l | |
| 10915 | 2378-TCDD | 1746-01-6 | 0.218 | JBQ | 0.210 | 2.11 | 1 |
| 10915 | 12378-PeCDD | 40321-76-4 | 0.302 | JQ | 0.233 | 10.5 | 1 |
| 10915 | 123478-HxCDD | 39227-28-6 | 0.193 | U | 0.193 | 10.5 | 1 |
| 10915 | 123678-HxCDD | 57653-85-7 | 0.518 | JBQ | 0.201 | 10.5 | 1 |
| 10915 | 123789-HxCDD | 19408-74-3 | 0.570 | JBQ | 0.205 | 10.5 | 1 |
| 10915 | 1234678-HpCDD | 35822-46-9 | 4.39 | JBQ | 0.237 | 10.5 | 1 |
| 10915 | OCDD | 3268-87-9 | 10.4 | JB | 0.246 | 21.1 | 1 |
| 10915 | 2378-TCDF | 51207-31-9 | 0.189 | U | 0.189 | 2.11 | 1 |
| 10915 | 12378-PeCDF | 57117-41-6 | 0.365 | JBQ | 0.152 | 10.5 | 1 |
| 10915 | 23478-PeCDF | 57117-31-4 | 0.466 | JB | 0.135 | 10.5 | 1 |
| 10915 | 123478-HxCDF | 70648-26-9 | 0.354 | JBQ | 0.114 | 10.5 | 1 |
| 10915 | 123678-HxCDF | 57117-44-9 | 0.371 | JBQ | 0.125 | 10.5 | 1 |
| 10915 | 123789-HxCDF | 72918-21-9 | 0.569 | JBQ | 0.120 | 10.5 | 1 |
| 10915 | 234678-HxCDF | 60851-34-5 | 0.497 | JBQ | 0.110 | 10.5 | 1 |
| 10915 | 1234678-HpCDF | 67562-39-4 | 1.49 | JB | 0.114 | 10.5 | 1 |
| 10915 | 1234789-HpCDF | 55673-89-7 | 0.135 | U | 0.135 | 10.5 | 1 |
| 10915 | OCDF | 39001-02-0 | 1.61 | JB | 0.276 | 21.1 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 63 | 25 - 164 |
| 13C12-12378-PeCDD | 56 | 25 - 181 |
| 13C12-123478-HxCDD | 59 | 32 - 141 |
| 13C12-123678-HxCDD | 59 | 28 - 130 |
| 13C12-123789-HxCDD | 58 | 28 - 130 |
| 13C12-1234678-HpCDD | 52 | 23 - 140 |
| 13C12-OCDD | 44 | 17 - 157 |
| 13C12-2378-TCDF | 55 | 24 - 169 |
| 13C12-12378-PeCDF | 54 | 24 - 185 |
| 13C12-23478-PeCDF | 54 | 21 - 178 |
| 13C12-123478-HxCDF | 57 | 26 - 152 |
| 13C12-123678-HxCDF | 57 | 26 - 123 |
| 13C12-234678-HxCDF | 58 | 28 - 136 |
| 13C12-123789-HxCDF | 61 | 29 - 147 |
| 13C12-1234678-HpCDF | 52 | 28 - 143 |
| 13C12-1234789-HpCDF | 50 | 26 - 138 |
| 13C12-OCDF | 43 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** **EB-NBZ-SB-032712 Water**
**SSFL Area IV Collocated Soil Sampling**
**EB-NBZ-SB**

**LLI Sample # WW 6595156**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 15:00

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6319 SDG#: DX163-19EB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10915 | 10b Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12094001 | 04/04/2012 19:06 | Joseph D Anderson | 1 |
| 10914 | Dioxins/Furans in Water - SepF | EPA 1613B | 1 | 12094001 | 04/03/2012 06:00 | Ginelle L Haines | 1 |

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# Analysis Report



**Sample Description:** EB-NBZ-SS-032712 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SS

**LLI Sample # WW 6595157**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 15:30

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6320 SDG#: DX163-20EB*

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | pg/l | | pg/l | pg/l | |
| 10915 | 2378-TCDD | 1746-01-6 | 0.190 | U | 0.190 | 1.99 | 1 |
| 10915 | 12378-PeCDD | 40321-76-4 | 0.224 | JQ | 0.190 | 9.94 | 1 |
| 10915 | 123478-HxCDD | 39227-28-6 | 0.373 | JBQ | 0.163 | 9.94 | 1 |
| 10915 | 123678-HxCDD | 57653-85-7 | 0.276 | JB | 0.178 | 9.94 | 1 |
| 10915 | 123789-HxCDD | 19408-74-3 | 0.299 | JBQ | 0.167 | 9.94 | 1 |
| 10915 | 1234678-HpCDD | 35822-46-9 | 3.61 | JB | 0.196 | 9.94 | 1 |
| 10915 | OCDD | 3268-87-9 | 10.1 | JBQ | 0.182 | 19.9 | 1 |
| 10915 | 2378-TCDF | 51207-31-9 | 0.210 | JQ | 0.164 | 1.99 | 1 |
| 10915 | 12378-PeCDF | 57117-41-6 | 0.170 | JBQ | 0.136 | 9.94 | 1 |
| 10915 | 23478-PeCDF | 57117-31-4 | 0.494 | JBQ | 0.126 | 9.94 | 1 |
| 10915 | 123478-HxCDF | 70648-26-9 | 0.373 | JB | 0.0899 | 9.94 | 1 |
| 10915 | 123678-HxCDF | 57117-44-9 | 0.338 | JBQ | 0.0940 | 9.94 | 1 |
| 10915 | 123789-HxCDF | 72918-21-9 | 0.227 | JBQ | 0.0936 | 9.94 | 1 |
| 10915 | 234678-HxCDF | 60851-34-5 | 0.395 | JBQ | 0.0810 | 9.94 | 1 |
| 10915 | 1234678-HpCDF | 67562-39-4 | 1.26 | JB | 0.108 | 9.94 | 1 |
| 10915 | 1234789-HpCDF | 55673-89-7 | 0.199 | JBQ | 0.131 | 9.94 | 1 |
| 10915 | OCDF | 39001-02-0 | 1.20 | JB | 0.211 | 19.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 65 | 25 - 164 |
| 13C12-12378-PeCDD | 58 | 25 - 181 |
| 13C12-123478-HxCDD | 61 | 32 - 141 |
| 13C12-123678-HxCDD | 59 | 28 - 130 |
| 13C12-123789-HxCDD | 60 | 28 - 130 |
| 13C12-1234678-HpCDD | 55 | 23 - 140 |
| 13C12-OCDD | 47 | 17 - 157 |
| 13C12-2378-TCDF | 56 | 24 - 169 |
| 13C12-12378-PeCDF | 55 | 24 - 185 |
| 13C12-23478-PeCDF | 55 | 21 - 178 |
| 13C12-123478-HxCDF | 59 | 26 - 152 |
| 13C12-123678-HxCDF | 58 | 26 - 123 |
| 13C12-234678-HxCDF | 60 | 28 - 136 |
| 13C12-123789-HxCDF | 64 | 29 - 147 |
| 13C12-1234678-HpCDF | 54 | 28 - 143 |
| 13C12-1234789-HpCDF | 51 | 26 - 138 |
| 13C12-OCDF | 47 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

eurofins | Lancaster Laboratories

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# Analysis Report



**Sample Description:** **EB-NBZ-SS-032712 Water**
**SSFL Area IV Collocated Soil Sampling**
**EB-NBZ-SS**

**LLI Sample # WW 6595157**
**LLI Group # 1298319**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 15:30

Submitted: 03/28/2012 09:15
Reported: 04/13/2012 10:37

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6320 SDG#: DX163-20EB*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10915 | 10b Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12094001 | 04/04/2012 20:02 | Joseph D Anderson | 1 |
| 10914 | Dioxins/Furans in Water - SepF | EPA 1613B | 1 | 12094001 | 04/03/2012 06:00 | Ginelle L Haines | 1 |

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1298319
Reported: 04/13/12 at 10:37 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12094162401A | Sample number(s): 6595138-6595144,6595151 | | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 100 | | 80-120 | | |
| Batch number: 12095162401A | Sample number(s): 6595145-6595150,6595152-6595155 | | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 100 | | 80-120 | | |
| Moisture Content by 160.3 | | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12094001 | Sample number(s): 6595156-6595157 | | | | | | | | | |
| 2378-TCDD | 0.269 | J | 0.167 | 2.00 | pg/l | 91 | | 67-158 | | |
| 12378-PeCDD | 0.205 | U | 0.205 | 10.0 | pg/l | 94 | | 70-142 | | |
| 123478-HxCDD | 0.221 | J | 0.140 | 10.0 | pg/l | 94 | | 70-164 | | |
| 123678-HxCDD | 0.438 | J | 0.155 | 10.0 | pg/l | 96 | | 76-134 | | |
| 123789-HxCDD | 0.508 | J | 0.144 | 10.0 | pg/l | 102 | | 64-162 | | |
| 1234678-HpCDD | 4.80 | J | 0.225 | 10.0 | pg/l | 101 | | 70-140 | | |
| OCDD | 14.6 | J | 0.172 | 20.0 | pg/l | 99 | | 78-144 | | |
| 2378-TCDF | 0.147 | U | 0.147 | 2.00 | pg/l | 94 | | 75-158 | | |
| 12378-PeCDF | 0.176 | J | 0.139 | 10.0 | pg/l | 102 | | 80-134 | | |
| 23478-PeCDF | 0.605 | J | 0.121 | 10.0 | pg/l | 97 | | 68-160 | | |
| 123478-HxCDF | 0.403 | J | 0.106 | 10.0 | pg/l | 102 | | 72-134 | | |
| 123678-HxCDF | 0.161 | J | 0.103 | 10.0 | pg/l | 100 | | 84-130 | | |
| 123789-HxCDF | 0.364 | J | 0.106 | 10.0 | pg/l | 100 | | 78-130 | | |
| 234678-HxCDF | 0.356 | J | 0.0928 | 10.0 | pg/l | 100 | | 70-156 | | |
| 1234678-HpCDF | 1.46 | J | 0.0984 | 10.0 | pg/l | 95 | | 82-122 | | |
| 1234789-HpCDF | 0.326 | J | 0.126 | 10.0 | pg/l | 99 | | 78-138 | | |
| OCDF | 1.40 | J | 0.218 | 20.0 | pg/l | 99 | | 63-170 | | |
| Batch number: 12096002 | Sample number(s): 6595138-6595155 | | | | | | | | | |
| 2378-TCDD | 0.0648 | U | 0.0648 | 1.00 | ng/kg | 100 | | 67-158 | | |
| 12378-PeCDD | 0.212 | J | 0.0527 | 5.00 | ng/kg | 98 | | 70-142 | | |
| 123478-HxCDD | 0.0698 | J | 0.0289 | 5.00 | ng/kg | 95 | | 70-164 | | |
| 123678-HxCDD | 0.0770 | J | 0.0304 | 5.00 | ng/kg | 96 | | 76-134 | | |
| 123789-HxCDD | 0.0905 | J | 0.0299 | 5.00 | ng/kg | 104 | | 64-162 | | |
| 1234678-HpCDD | 0.397 | J | 0.0284 | 5.00 | ng/kg | 96 | | 70-140 | | |
| OCDD | 0.624 | J | 0.0270 | 10.0 | ng/kg | 95 | | 78-144 | | |
| 2378-TCDF | 0.0586 | J | 0.0456 | 1.00 | ng/kg | 99 | | 75-158 | | |
| 12378-PeCDF | 0.0466 | J | 0.0325 | 5.00 | ng/kg | 101 | | 80-134 | | |
| 23478-PeCDF | 0.0784 | J | 0.0337 | 5.00 | ng/kg | 95 | | 68-160 | | |
| 123478-HxCDF | 0.0251 | U | 0.0251 | 5.00 | ng/kg | 98 | | 72-134 | | |
| 123678-HxCDF | 0.0628 | J | 0.0198 | 5.00 | ng/kg | 97 | | 84-130 | | |
| 123789-HxCDF | 0.0282 | U | 0.0282 | 5.00 | ng/kg | 98 | | 78-130 | | |
| 234678-HxCDF | 0.132 | J | 0.0231 | 5.00 | ng/kg | 98 | | 70-156 | | |
| 1234678-HpCDF | 0.105 | J | 0.0150 | 5.00 | ng/kg | 90 | | 82-122 | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1298319
Reported: 04/13/12 at 10:37 AM

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| 1234789-HpCDF | 0.0395 J | 0.0249 | 5.00 | ng/kg | 97 | | 78-138 | | |
| OCDF | 0.195 J | 0.0270 | 10.0 | ng/kg | 94 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12094162401A | Sample number(s): 6595138-6595144,6595151 BKG: P599821 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 4.0 | 4.1 | 2 | 20 |
| Batch number: 12095162401A | Sample number(s): 6595145-6595150,6595152-6595155 BKG: 6595150 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 18.7 | 18.2 | 3 | 20 |
| Moisture Content by 160.3 | | | | | | 18.7 | 18.2 | 3 | 20 |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 12094001

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6595156 | 63 | 54 | 57 | 57 | 58 | 61 |
| 6595157 | 65 | 55 | 59 | 58 | 60 | 64 |
| Blank | 78 | 67 | 73 | 75 | 76 | 79 |
| OPR | 76 | 64 | 72 | 73 | 71 | 80 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6595156 | 52 | 50 | 43 | 56 | 59 | 59 |
| 6595157 | 54 | 51 | 47 | 58 | 61 | 59 |
| Blank | 71 | 64 | 57 | 71 | 77 | 76 |
| OPR | 67 | 65 | 59 | 69 | 74 | 74 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6595156 | 58 | 52 | 44 | 55 | 54 |
| 6595157 | 60 | 55 | 47 | 56 | 55 |
| Blank | 80 | 69 | 60 | 71 | 67 |
| OPR | 73 | 71 | 60 | 66 | 65 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

Analysis Name: 10a Dioxin/Furan by EPA 1613B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1298319
Reported: 04/13/12 at 10:37 AM

## Surrogate Quality Control

Batch number: 12096002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6595138 | 81 | 89 | 78 | 77 | 75 | 80 |
| 6595139 | 76 | 77 | 67 | 73 | 66 | 63 |
| 6595140 | 83 | 91 | 79 | 79 | 77 | 82 |
| 6595141 | 66 | 67 | 59 | 66 | 57 | 50 |
| 6595142 | 76 | 72 | 76 | 73 | 69 | 70 |
| 6595143 | 70 | 62 | 60 | 71 | 60 | 55 |
| 6595144 | 75 | 74 | 72 | 73 | 73 | 76 |
| 6595145 | 73 | 69 | 60 | 74 | 61 | 49 |
| 6595146 | 78 | 71 | 64 | 72 | 63 | 61 |
| 6595147 | 86 | 86 | 77 | 90 | 78 | 67 |
| 6595148 | 70 | 64 | 66 | 76 | 65 | 59 |
| 6595149 | 74 | 70 | 62 | 69 | 59 | 53 |
| 6595150 | 76 | 62 | 62 | 73 | 63 | 59 |
| 6595151 | 72 | 71 | 70 | 79 | 73 | 66 |
| 6595152 | 67 | 63 | 54 | 66 | 54 | 45 |
| 6595153 | 76 | 68 | 59 | 71 | 61 | 55 |
| 6595154 | 68 | 63 | 55 | 66 | 55 | 45 |
| 6595155 | 74 | 70 | 63 | 75 | 64 | 53 |
| Blank | 63 | 66 | 58 | 68 | 61 | 54 |
| OPR | 69 | 71 | 65 | 72 | 66 | 66 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6595138 | 77 | 72 | 70 | 91 | 74 | 78 |
| 6595139 | 80 | 55 | 50 | 83 | 70 | 72 |
| 6595140 | 82 | 79 | 78 | 97 | 82 | 82 |
| 6595141 | 89 | 48 | 43 | 75 | 65 | 67 |
| 6595142 | 72 | 64 | 60 | 77 | 73 | 75 |
| 6595143 | 95 | 49 | 46 | 70 | 72 | 72 |
| 6595144 | 73 | 70 | 65 | 76 | 74 | 76 |
| 6595145 | 97 | 46 | 39 | 81 | 73 | 73 |
| 6595146 | 82 | 50 | 45 | 80 | 70 | 70 |
| 6595147 | 113 | 61 | 55 | 93 | 84 | 87 |
| 6595148 | 90 | 52 | 48 | 71 | 74 | 76 |
| 6595149 | 80 | 47 | 41 | 79 | 65 | 66 |
| 6595150 | 93 | 50 | 43 | 76 | 75 | 76 |
| 6595151 | 94 | 60 | 47 | 80 | 77 | 79 |
| 6595152 | 86 | 39 | 31 | 75 | 64 | 64 |
| 6595153 | 89 | 49 | 42 | 79 | 71 | 69 |
| 6595154 | 88 | 41 | 34 | 77 | 66 | 69 |
| 6595155 | 97 | 52 | 45 | 82 | 75 | 77 |
| Blank | 90 | 58 | 58 | 76 | 73 | 73 |
| OPR | 94 | 63 | 61 | 78 | 73 | 72 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6595138 | 62 | 79 | 73 | 83 | 90 |
| 6595139 | 75 | 69 | 61 | 73 | 84 |
| 6595140 | 83 | 82 | 79 | 77 | 92 |
| 6595141 | 65 | 72 | 66 | 57 | 75 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1298319
Reported: 04/13/12 at 10:37 AM

## Surrogate Quality Control

| | | | | | |
|---|---|---|---|---|---|
| 6595142 | 75 | 72 | 65 | 75 | 73 |
| 6595143 | 71 | 75 | 71 | 53 | 72 |
| 6595144 | 78 | 73 | 66 | 67 | 72 |
| 6595145 | 73 | 74 | 67 | 60 | 80 |
| 6595146 | 75 | 67 | 60 | 68 | 82 |
| 6595147 | 85 | 88 | 80 | 74 | 94 |
| 6595148 | 82 | 73 | 68 | 61 | 71 |
| 6595149 | 65 | 64 | 58 | 66 | 79 |
| 6595150 | 75 | 73 | 68 | 56 | 72 |
| 6595151 | 78 | 74 | 58 | 67 | 78 |
| 6595152 | 64 | 65 | 54 | 56 | 74 |
| 6595153 | 76 | 70 | 64 | 60 | 78 |
| 6595154 | 74 | 68 | 61 | 57 | 75 |
| 6595155 | 74 | 75 | 68 | 63 | 80 |
| Blank | 70 | 77 | 81 | 58 | 74 |
| OPR | 70 | 79 | 79 | 59 | 74 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1298319 Sample#6595138-57

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSES | SECONDARY ANALYSES | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-042-NBZ-SS-0.0-0.5 | 3.26.12 | 1410 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-043-NBZ-SS-0.0-0.5 | 3.26.12 | 1535 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-045-NBZ-SS-0.0-0.5 | 3.26.12 | 1141 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-045-NBZ-SS-4.0-5.0 | 3.26.12 | 1155 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-046-NBZ-SS-0.0-0.5 | 3.26.12 | 0920 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-046-NBZ-SS-4.0-5.0 | 3.26.12 | 1015 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-050-NBZ-SS-0.0-0.5 | 3.26.12 | 1430 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-123-NBZ-SS-0.0-0.5 | 3.26.12 | 1455 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-133-NBZ-SS-0.0-0.5 | 3.26.12 | 1515 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-124-NBZ-SS-0.0-0.5 | 3.26.12 | 1020 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-126-NBZ-SS-0.0-0.5 | 3.26.12 | 1120 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-195-NBZ-SS-0.0-0.5 | 3.26.12 | 1540 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-196-NBZ-SS-0.0-0.5 | 3.26.12 | 1145 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-038-NBZ-SS-0.0-0.5 | 3.27.12 | 1110 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-078-NBZ-SS-0.0-0.5 | 3.27.12 | 0940 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-095-NBZ-SS-0.0-0.5 | 3.27.12 | 1017 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-119-NBZ-SS-0.0-0.5 | 3.27.12 | 1050 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-130-NBZ-SS-0.0-0.5 | 3.27.12 | 1020 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| EB-NBZ-SB-032712 | 3.27.12 | 1500 | WATER | NONE | 4-1 L Ambers | | | | | |
| EB-NBZ-SB-032712 | 3.27.12 | 1500 | WATER | NONE | 1-250 mL glass | | | | | |
| EB-NBZ-SS-032712 | 3.27.12 | 1530 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SS-032712 | 3.27.12 | 1530 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| Relinquished by: (*Signature*) | Date/Time 3/22/2012 / 1630 | | Received for Laboratory by: (*Signature*) LLJ 8/28/12 0915 | | | | | | | Laboratory: Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s) | | | | | | | |

**Nicole Maljovec**

**From:** Hartman, Pamela [HartmanPM@cdmsmith.com]
**Sent:** Thursday, March 29, 2012 12:26 PM
**To:** Nicole Maljovec
**Subject:** RE: 3/26 & 3/27 COC Question

The COC with SB for SL-045 and SL-046 is correct. sorry!

Could we have some more 1 L ambers sent out? I think about 30 would be good! Also, is it ok to use the small ambers for the formaldehyde? We seem to have at ton of those.

Thanks

Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

---

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Thursday, March 29, 2012 9:21 AM
To: Hartman, Pamela
Subject: 3/26 & 3/27 COC Question

Hi Pam,
I was about to email you about two samples where the sample code "SS" was used but the depths were 4.0-5.0. However, I just realized the COC that was in the cooler doesn't match the COC in the email below. The COC in the cooler had SL-045 and SL-046 @4.0-5.0 with SS and the attached COC has SB instead.

Can you confirm that the attached COC is correct? I can add this to the groups and add a note.

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Tuesday, March 27, 2012 7:15 PM
To: Nicole Maljovec
Subject: Wrong COC

Actually, use this COC!

Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRI MA ONDARY ANAL RY | | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-042-NBZ-SS-0.0-0.5 | 3.26.12 | 1410 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-043-NBZ-SS-0.0-0.5 | 3.26.12 | 1535 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-045-NBZ-SS-0.0-0.5 | 3.26.12 | 1141 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-045-NBZ-SB-4.0-5.0 | 3.26.12 | 1155 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-046-NBZ-SS-0.0-0.5 | 3.26.12 | 0920 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-046-NBZ-SB-4.0-5.0 | 3.26.12 | 1015 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-050-NBZ-SS-0.0-0.5 | 3.26.12 | 1430 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-123-NBZ-SS-0.0-0.5 | 3.26.12 | 1455 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-133-NBZ-SS-0.0-0.5 | 3.26.12 | 1515 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-124-NBZ-SS-0.0-0.5 | 3.26.12 | 1020 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-126-NBZ-SS-0.0-0.5 | 3.26.12 | 1120 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-195-NBZ-SS-0.0-0.5 | 3.26.12 | 1540 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-196-NBZ-SS-0.0-0.5 | 3.26.12 | 1145 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-038-NBZ-SS-0.0-0.5 | 3.27.12 | 1110 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-078-NBZ-SS-0.0-0.5 | 3.27.12 | 0940 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-095-NBZ-SS-0.0-0.5 | 3.27.12 | 1017 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-119-NBZ-SS-0.0-0.5 | 3.27.12 | 1050 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-130-NBZ-SS-0.0-0.5 | 3.27.12 | 1020 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| EB-NBZ-SB-032712 | 3.27.12 | 1500 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SB-032712 | 3.27.12 | 1500 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| EB-NBZ-SS-032712 | 3.27.12 | 1530 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SS-032712 | 3.27.12 | 1530 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| Relinquished by: (*Signature*) | Date/Time<br>3/22/2012 / 1630 | | Received for Laboratory by: (*Signature*) | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s) | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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# SAMPLE DELIVERY GROUP

# DX164

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 20, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/30/2012
Group Number: 1299118
SDG: DX164
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-036-NBZ-SB-4.0-5.0 Soil | 6599826 |
| SL-036-NBZ-SB-7.5-8.5 Soil | 6599827 |
| DUP-03-NBZ-QC-032812 Soil | 6599828 |
| SL-037-NBZ-SB-3.0-4.0 Soil | 6599829 |
| SL-039-NBZ-SB-2.0-3.0 Soil | 6599830 |
| SL-040-NBZ-SS-0.0-0.5 Soil | 6599831 |
| SL-040-NBZ-SB-2.5-3.5 Soil | 6599832 |
| SL-040-NBZ-SB-2.5-3.5 MS Soil | 6599833 |
| SL-040-NBZ-SB-2.5-3.5 MSD Soil | 6599834 |
| SL-094-NBZ-SS-0.0-0.5 Soil | 6599835 |
| SL-096-NBZ-SS-0.0-0.5 Soil | 6599836 |
| SL-102-NBZ-SS-0.0-0.5 Soil | 6599837 |
| SL-109-NBZ-SS-0.0-0.5 Soil | 6599838 |
| SL-129-NBZ-SS-0.0-0.5 Soil | 6599839 |
| SL-135-NBZ-SS-0.0-0.5 Soil | 6599840 |
| SL-136-NBZ-SS-0.0-0.5 Soil | 6599841 |
| SL-139-NBZ-SS-0.0-0.5 Soil | 6599842 |
| SL-141-NBZ-SS-0.0-0.5 Soil | 6599843 |
| SL-143-NBZ-SS-0.0-0.5 Soil | 6599844 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

ELECTRONIC COPY TO Data Package Group

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-036-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-NBZ-SB

**LLI Sample # SW 6599826**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 11:03

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6401 SDG#: DX164-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 12.3 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-036-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-NBZ-SB

**LLI Sample # SW 6599826**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 11:03

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6401 SDG#: DX164-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0413 JBQ | 0.0366 | 1.13 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0345 U | 0.0345 | 5.64 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0235 U | 0.0235 | 5.64 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0488 JB | 0.0251 | 5.64 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0682 JB | 0.0252 | 5.64 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.327 JBQ | 0.0254 | 5.64 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.860 JB | 0.0202 | 11.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0318 U | 0.0318 | 1.13 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0359 JBQ | 0.0209 | 5.64 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0671 JBQ | 0.0205 | 5.64 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0462 JB | 0.0162 | 5.64 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0531 JBQ | 0.0146 | 5.64 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0477 JBQ | 0.0188 | 5.64 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0518 JBQ | 0.0152 | 5.64 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.0690 JB | 0.00901 | 5.64 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0436 JBQ | 0.0155 | 5.64 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.114 JBQ | 0.0295 | 11.3 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 69 | 25 - 164 |
| 13C12-12378-PeCDD | 77 | 25 - 181 |
| 13C12-123478-HxCDD | 77 | 32 - 141 |
| 13C12-123678-HxCDD | 77 | 28 - 130 |
| 13C12-123789-HxCDD | 77 | 28 - 130 |
| 13C12-1234678-HpCDD | 81 | 23 - 140 |
| 13C12-OCDD | 77 | 17 - 157 |
| 13C12-2378-TCDF | 61 | 24 - 169 |
| 13C12-12378-PeCDF | 74 | 24 - 185 |
| 13C12-23478-PeCDF | 69 | 21 - 178 |
| 13C12-123478-HxCDF | 70 | 26 - 152 |
| 13C12-123678-HxCDF | 78 | 26 - 123 |
| 13C12-234678-HxCDF | 71 | 28 - 136 |
| 13C12-123789-HxCDF | 67 | 29 - 147 |
| 13C12-1234678-HpCDF | 96 | 28 - 143 |
| 13C12-1234789-HpCDF | 63 | 26 - 138 |
| 13C12-OCDF | 61 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-036-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-NBZ-SB

**LLI Sample # SW 6599826**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 11:03

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6401 SDG#: DX164-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-036-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-NBZ-SB

**LLI Sample # SW 6599826**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 11:03

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6401 SDG#: DX164-01

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12097002 | 04/09/2012 20:24 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12097002 | 04/06/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-036-NBZ-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-NBZ-SB

**LLI Sample # SW 6599827**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 12:30

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6402 SDG#: DX164-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 21.5 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-036-NBZ-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-NBZ-SB

**LLI Sample # SW 6599827**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 12:30

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6402 SDG#: DX164-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0345 U | 0.0345 | 1.26 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0415 JQ | 0.0321 | 6.32 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0302 JBQ | 0.0241 | 6.32 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0584 JBQ | 0.0255 | 6.32 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0607 JBQ | 0.0246 | 6.32 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.498 JB | 0.0283 | 6.32 | 1 |
| 11031 | OCDD | 3268-87-9 | 1.20 JB | 0.0182 | 12.6 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0330 U | 0.0330 | 1.26 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0264 JBQ | 0.0175 | 6.32 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0616 JB | 0.0178 | 6.32 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0499 JBQ | 0.0139 | 6.32 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0332 JBQ | 0.0131 | 6.32 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0243 JB | 0.0157 | 6.32 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0212 JBQ | 0.0130 | 6.32 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.0746 JB | 0.00904 | 6.32 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0262 JB | 0.0150 | 6.32 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.192 JBQ | 0.0259 | 12.6 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 67 | 25 - 164 |
| 13C12-12378-PeCDD | 74 | 25 - 181 |
| 13C12-123478-HxCDD | 74 | 32 - 141 |
| 13C12-123678-HxCDD | 75 | 28 - 130 |
| 13C12-123789-HxCDD | 74 | 28 - 130 |
| 13C12-1234678-HpCDD | 77 | 23 - 140 |
| 13C12-OCDD | 74 | 17 - 157 |
| 13C12-2378-TCDF | 58 | 24 - 169 |
| 13C12-12378-PeCDF | 72 | 24 - 185 |
| 13C12-23478-PeCDF | 66 | 21 - 178 |
| 13C12-123478-HxCDF | 69 | 26 - 152 |
| 13C12-123678-HxCDF | 76 | 26 - 123 |
| 13C12-234678-HxCDF | 71 | 28 - 136 |
| 13C12-123789-HxCDF | 68 | 29 - 147 |
| 13C12-1234678-HpCDF | 94 | 28 - 143 |
| 13C12-1234789-HpCDF | 62 | 26 - 138 |
| 13C12-OCDF | 58 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-036-NBZ-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-NBZ-SB

**LLI Sample # SW 6599827**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 12:30

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6402 SDG#: DX164-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-036-NBZ-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-NBZ-SB

**LLI Sample # SW 6599827**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 12:30

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6402 SDG#: DX164-02

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12097002 | 04/09/2012 21:21 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12097002 | 04/06/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** DUP-03-NBZ-QC-032812 Soil
SSFL Area IV Collocated Soil Sampling
DUP-03-NBZ

**LLI Sample # SW 6599828**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:10

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6403 SDG#: DX164-03FD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 8.1 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-03-NBZ-QC-032812 Soil
SSFL Area IV Collocated Soil Sampling
DUP-03-NBZ

**LLI Sample # SW 6599828**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:10

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6403 SDG#: DX164-03FD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0564 | U | 0.0564 | 1.08 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0348 | U | 0.0348 | 5.38 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.152 | JBQ | 0.0491 | 5.38 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.592 | JB | 0.0508 | 5.38 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.439 | JB | 0.0504 | 5.38 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 22.0 | B | 0.0553 | 5.38 | 1 |
| 11031 | OCDD | 3268-87-9 | 326 | B | 0.0380 | 10.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.276 | J | 0.0642 | 1.08 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 1.14 | JB | 0.0354 | 5.38 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.202 | JB | 0.0329 | 5.38 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.903 | JB | 0.0258 | 5.38 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.496 | JB | 0.0256 | 5.38 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0472 | JBQ | 0.0277 | 5.38 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.256 | JB | 0.0240 | 5.38 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 4.42 | JB | 0.0192 | 5.38 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.458 | JB | 0.0286 | 5.38 | 1 |
| 11031 | OCDF | 39001-02-0 | 12.0 | B | 0.0212 | 10.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 71 | 25 - 164 |
| 13C12-12378-PeCDD | 82 | 25 - 181 |
| 13C12-123478-HxCDD | 78 | 32 - 141 |
| 13C12-123678-HxCDD | 77 | 28 - 130 |
| 13C12-123789-HxCDD | 77 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 86 | 17 - 157 |
| 13C12-2378-TCDF | 62 | 24 - 169 |
| 13C12-12378-PeCDF | 77 | 24 - 185 |
| 13C12-23478-PeCDF | 73 | 21 - 178 |
| 13C12-123478-HxCDF | 72 | 26 - 152 |
| 13C12-123678-HxCDF | 76 | 26 - 123 |
| 13C12-234678-HxCDF | 74 | 28 - 136 |
| 13C12-123789-HxCDF | 74 | 29 - 147 |
| 13C12-1234678-HpCDF | 91 | 28 - 143 |
| 13C12-1234789-HpCDF | 70 | 26 - 138 |
| 13C12-OCDF | 77 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **DUP-03-NBZ-QC-032812 Soil**
**SSFL Area IV Collocated Soil Sampling**
**DUP-03-NBZ**

**LLI Sample # SW 6599828**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:10

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6403 SDG#: DX164-03FD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** DUP-03-NBZ-QC-032812 Soil
SSFL Area IV Collocated Soil Sampling
DUP-03-NBZ

**LLI Sample # SW 6599828**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:10

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6403 SDG#: DX164-03FD

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12097002 | 04/09/2012 22:17 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12097002 | 04/06/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-037-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-NBZ-SB

**LLI Sample # SW 6599829**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 15:12

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6404 SDG#: DX164-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 11.0 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-037-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-NBZ-SB

**LLI Sample # SW 6599829**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 15:12

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6404 SDG#: DX164-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0612 U | 0.0612 | 1.07 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0562 J | 0.0344 | 5.36 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0380 JBQ | 0.0238 | 5.36 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0857 JBQ | 0.0244 | 5.36 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.115 JB | 0.0245 | 5.36 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.388 JBQ | 0.0272 | 5.36 | 1 |
| 11031 | OCDD | 3268-87-9 | 1.37 JB | 0.0253 | 10.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0374 U | 0.0374 | 1.07 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0512 JBQ | 0.0237 | 5.36 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0586 JB | 0.0237 | 5.36 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0514 JBQ | 0.0146 | 5.36 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0244 JBQ | 0.0133 | 5.36 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0409 JBQ | 0.0173 | 5.36 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0383 JBQ | 0.0134 | 5.36 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.0721 JB | 0.0100 | 5.36 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0384 JB | 0.0193 | 5.36 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.133 JB | 0.0339 | 10.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 66 | 25 - 164 |
| 13C12-12378-PeCDD | 74 | 25 - 181 |
| 13C12-123478-HxCDD | 70 | 32 - 141 |
| 13C12-123678-HxCDD | 71 | 28 - 130 |
| 13C12-123789-HxCDD | 71 | 28 - 130 |
| 13C12-1234678-HpCDD | 74 | 23 - 140 |
| 13C12-OCDD | 69 | 17 - 157 |
| 13C12-2378-TCDF | 55 | 24 - 169 |
| 13C12-12378-PeCDF | 75 | 24 - 185 |
| 13C12-23478-PeCDF | 66 | 21 - 178 |
| 13C12-123478-HxCDF | 63 | 26 - 152 |
| 13C12-123678-HxCDF | 72 | 26 - 123 |
| 13C12-234678-HxCDF | 66 | 28 - 136 |
| 13C12-123789-HxCDF | 61 | 29 - 147 |
| 13C12-1234678-HpCDF | 93 | 28 - 143 |
| 13C12-1234789-HpCDF | 56 | 26 - 138 |
| 13C12-OCDF | 50 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-037-NBZ-SB-3.0-4.0 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-037-NBZ-SB**

**LLI Sample # SW 6599829**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 15:12

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6404 SDG#: DX164-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-037-NBZ-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-NBZ-SB

**LLI Sample # SW 6599829**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 15:12

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6404 SDG#: DX164-04

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12097002 | 04/09/2012 23:14 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12097002 | 04/06/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-039-NBZ-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-NBZ-SB

**LLI Sample # SW 6599830**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 14:35

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6405 SDG#: DX164-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 10.1 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-039-NBZ-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-NBZ-SB

**LLI Sample # SW 6599830**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 14:35

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6405 SDG#: DX164-05

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0537 | U | 0.0537 | 1.10 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.248 | J | 0.0528 | 5.51 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.243 | JB | 0.0693 | 5.51 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.970 | JB | 0.0759 | 5.51 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 1.19 | JB | 0.0730 | 5.51 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 13.0 | B | 0.0625 | 5.51 | 1 |
| 11031 | OCDD | 3268-87-9 | 105 | B | 0.0370 | 11.0 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.687 | J | 0.0915 | 1.10 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 1.16 | JB | 0.0494 | 5.51 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.641 | JB | 0.0466 | 5.51 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 1.38 | JB | 0.0348 | 5.51 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.732 | JB | 0.0316 | 5.51 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.330 | JB | 0.0372 | 5.51 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.477 | JBQ | 0.0308 | 5.51 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 5.62 | B | 0.0208 | 5.51 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.625 | JB | 0.0413 | 5.51 | 1 |
| 11031 | OCDF | 39001-02-0 | 12.0 | B | 0.0347 | 11.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 67 | 25 - 164 |
| 13C12-12378-PeCDD | 68 | 25 - 181 |
| 13C12-123478-HxCDD | 69 | 32 - 141 |
| 13C12-123678-HxCDD | 72 | 28 - 130 |
| 13C12-123789-HxCDD | 70 | 28 - 130 |
| 13C12-1234678-HpCDD | 76 | 23 - 140 |
| 13C12-OCDD | 77 | 17 - 157 |
| 13C12-2378-TCDF | 56 | 24 - 169 |
| 13C12-12378-PeCDF | 68 | 24 - 185 |
| 13C12-23478-PeCDF | 63 | 21 - 178 |
| 13C12-123478-HxCDF | 64 | 26 - 152 |
| 13C12-123678-HxCDF | 72 | 26 - 123 |
| 13C12-234678-HxCDF | 67 | 28 - 136 |
| 13C12-123789-HxCDF | 65 | 29 - 147 |
| 13C12-1234678-HpCDF | 96 | 28 - 143 |
| 13C12-1234789-HpCDF | 58 | 26 - 138 |
| 13C12-OCDF | 59 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-039-NBZ-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-NBZ-SB

**LLI Sample # SW 6599830**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 14:35

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6405 SDG#: DX164-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-039-NBZ-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-NBZ-SB

**LLI Sample # SW 6599830**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 14:35

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6405 SDG#: DX164-05

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12097002 | 04/10/2012 00:11 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12097002 | 04/06/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-040-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-NBZ-SS

**LLI Sample # SW 6599831**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 08:51

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6406 SDG#: DX164-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 11.3 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-040-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-NBZ-SS

**LLI Sample # SW 6599831**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 08:51

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6406 SDG#: DX164-06

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.116 | JB | 0.0507 | 1.08 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.198 | J | 0.0333 | 5.38 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.157 | JB | 0.0328 | 5.38 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.394 | JB | 0.0330 | 5.38 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.365 | JB | 0.0333 | 5.38 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 6.05 | B | 0.0369 | 5.38 | 1 |
| 11031 | OCDD | 3268-87-9 | 57.5 | B | 0.0246 | 10.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.169 | J | 0.0488 | 1.08 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.403 | JB | 0.0285 | 5.38 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.253 | JB | 0.0274 | 5.38 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.334 | JB | 0.0219 | 5.38 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.216 | JB | 0.0207 | 5.38 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.147 | JB | 0.0255 | 5.38 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.194 | JB | 0.0216 | 5.38 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.13 | JB | 0.0136 | 5.38 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.164 | JB | 0.0263 | 5.38 | 1 |
| 11031 | OCDF | 39001-02-0 | 2.37 | JB | 0.0263 | 10.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 71 | 25 - 164 |
| 13C12-12378-PeCDD | 80 | 25 - 181 |
| 13C12-123478-HxCDD | 74 | 32 - 141 |
| 13C12-123678-HxCDD | 73 | 28 - 130 |
| 13C12-123789-HxCDD | 73 | 28 - 130 |
| 13C12-1234678-HpCDD | 77 | 23 - 140 |
| 13C12-OCDD | 75 | 17 - 157 |
| 13C12-2378-TCDF | 61 | 24 - 169 |
| 13C12-12378-PeCDF | 82 | 24 - 185 |
| 13C12-23478-PeCDF | 72 | 21 - 178 |
| 13C12-123478-HxCDF | 66 | 26 - 152 |
| 13C12-123678-HxCDF | 76 | 26 - 123 |
| 13C12-234678-HxCDF | 69 | 28 - 136 |
| 13C12-123789-HxCDF | 65 | 29 - 147 |
| 13C12-1234678-HpCDF | 97 | 28 - 143 |
| 13C12-1234789-HpCDF | 58 | 26 - 138 |
| 13C12-OCDF | 56 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-040-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-NBZ-SS

**LLI Sample # SW 6599831**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 08:51

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6406 SDG#: DX164-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-040-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-NBZ-SS

**LLI Sample # SW 6599831**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 08:51

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6406 SDG#: DX164-06

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12097002 | 04/10/2012 01:07 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12097002 | 04/06/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-040-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-NBZ-SB

**LLI Sample # SW 6599832**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:00

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6407 SDG#: DX164-07BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 4.0 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-040-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-NBZ-SB

**LLI Sample # SW 6599832**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:00

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6407 SDG#: DX164-07BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0607 | JB | 0.0514 | 1.03 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.152 | J | 0.0334 | 5.14 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.104 | JB | 0.0497 | 5.14 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.556 | JB | 0.0516 | 5.14 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.367 | JB | 0.0479 | 5.14 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 7.47 | B | 0.0456 | 5.14 | 1 |
| 11031 | OCDD | 3268-87-9 | 65.3 | B | 0.0319 | 10.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.197 | J | 0.0450 | 1.03 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.905 | JB | 0.0278 | 5.14 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.242 | JB | 0.0274 | 5.14 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 1.05 | JB | 0.0243 | 5.14 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.543 | JB | 0.0233 | 5.14 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0474 | JBQ | 0.0288 | 5.14 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.221 | JB | 0.0223 | 5.14 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 3.91 | JB | 0.0159 | 5.14 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.432 | JBQ | 0.0283 | 5.14 | 1 |
| 11031 | OCDF | 39001-02-0 | 7.14 | JB | 0.0307 | 10.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 77 | 25 - 164 |
| 13C12-12378-PeCDD | 79 | 25 - 181 |
| 13C12-123478-HxCDD | 78 | 32 - 141 |
| 13C12-123678-HxCDD | 81 | 28 - 130 |
| 13C12-123789-HxCDD | 80 | 28 - 130 |
| 13C12-1234678-HpCDD | 81 | 23 - 140 |
| 13C12-OCDD | 79 | 17 - 157 |
| 13C12-2378-TCDF | 66 | 24 - 169 |
| 13C12-12378-PeCDF | 80 | 24 - 185 |
| 13C12-23478-PeCDF | 73 | 21 - 178 |
| 13C12-123478-HxCDF | 74 | 26 - 152 |
| 13C12-123678-HxCDF | 81 | 26 - 123 |
| 13C12-234678-HxCDF | 77 | 28 - 136 |
| 13C12-123789-HxCDF | 73 | 29 - 147 |
| 13C12-1234678-HpCDF | 103 | 28 - 143 |
| 13C12-1234789-HpCDF | 65 | 26 - 138 |
| 13C12-OCDF | 61 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-040-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-NBZ-SB

**LLI Sample # SW 6599832**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:00

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6407 SDG#: DX164-07BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-040-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-NBZ-SB

**LLI Sample # SW 6599832**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:00

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6407 SDG#: DX164-07BKG

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12097002 | 04/10/2012 02:04 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12097002 | 04/06/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-040-NBZ-SB-2.5-3.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-040-NBZ-SB

**LLI Sample # SW 6599833**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:00

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6407 SDG#: DX164-07MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 4.0 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-040-NBZ-SB-2.5-3.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-040-NBZ-SB

**LLI Sample # SW 6599833**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:00

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6407 SDG#: DX164-07MS

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 18.9 | B | 0.0455 | 1.02 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 95.0 | | 0.0459 | 5.12 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 96.8 | B | 0.0631 | 5.12 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 95.8 | B | 0.0634 | 5.12 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 103 | B | 0.0645 | 5.12 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 107 | B | 0.0604 | 5.12 | 1 |
| 11031 | OCDD | 3268-87-9 | 247 | B | 0.0317 | 10.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 18.9 | | 0.0534 | 1.02 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 105 | B | 0.0398 | 5.12 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 98.7 | B | 0.0360 | 5.12 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 101 | B | 0.0500 | 5.12 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 98.2 | B | 0.0503 | 5.12 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 97.4 | B | 0.0561 | 5.12 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 97.6 | B | 0.0494 | 5.12 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 96.0 | B | 0.0344 | 5.12 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 98.4 | B | 0.0529 | 5.12 | 1 |
| 11031 | OCDF | 39001-02-0 | 202 | B | 0.0295 | 10.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 74 | 25 - 164 |
| 13C12-12378-PeCDD | 84 | 25 - 181 |
| 13C12-123478-HxCDD | 78 | 32 - 141 |
| 13C12-123678-HxCDD | 79 | 28 - 130 |
| 13C12-123789-HxCDD | 79 | 28 - 130 |
| 13C12-1234678-HpCDD | 83 | 23 - 140 |
| 13C12-OCDD | 84 | 17 - 157 |
| 13C12-2378-TCDF | 66 | 24 - 169 |
| 13C12-12378-PeCDF | 79 | 24 - 185 |
| 13C12-23478-PeCDF | 77 | 21 - 178 |
| 13C12-123478-HxCDF | 74 | 26 - 152 |
| 13C12-123678-HxCDF | 79 | 26 - 123 |
| 13C12-234678-HxCDF | 75 | 28 - 136 |
| 13C12-123789-HxCDF | 76 | 29 - 147 |
| 13C12-1234678-HpCDF | 95 | 28 - 143 |
| 13C12-1234789-HpCDF | 72 | 26 - 138 |
| 13C12-OCDF | 74 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-040-NBZ-SB-2.5-3.5 MS Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-040-NBZ-SB**

**LLI Sample # SW 6599833**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:00

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6407 SDG#: DX164-07MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-040-NBZ-SB-2.5-3.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-040-NBZ-SB

**LLI Sample # SW 6599833**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:00

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6407 SDG#: DX164-07MS

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12097002 | 04/10/2012 06:03 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12097002 | 04/06/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-040-NBZ-SB-2.5-3.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-040-NBZ-SB

**LLI Sample # SW 6599834**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:00

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6407 SDG#: DX164-07MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 4.0 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-040-NBZ-SB-2.5-3.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-040-NBZ-SB

**LLI Sample # SW 6599834**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:00

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6407 SDG#: DX164-07MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 18.4 | B | 0.0779 | 0.996 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 94.3 | | 0.0572 | 4.98 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 93.0 | B | 0.0670 | 4.98 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 91.3 | B | 0.0745 | 4.98 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 100 | B | 0.0694 | 4.98 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 103 | B | 0.0788 | 4.98 | 1 |
| 11031 | OCDD | 3268-87-9 | 244 | B | 0.0401 | 9.96 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 19.4 | | 0.0641 | 0.996 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 102 | B | 0.0440 | 4.98 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 95.6 | B | 0.0433 | 4.98 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 93.9 | B | 0.0624 | 4.98 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 96.7 | B | 0.0595 | 4.98 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 96.9 | B | 0.0693 | 4.98 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 93.5 | B | 0.0564 | 4.98 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 94.2 | B | 0.0443 | 4.98 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 95.9 | B | 0.0656 | 4.98 | 1 |
| 11031 | OCDF | 39001-02-0 | 195 | B | 0.0385 | 9.96 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 68 | 25 - 164 |
| 13C12-12378-PeCDD | 77 | 25 - 181 |
| 13C12-123478-HxCDD | 77 | 32 - 141 |
| 13C12-123678-HxCDD | 76 | 28 - 130 |
| 13C12-123789-HxCDD | 75 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 82 | 17 - 157 |
| 13C12-2378-TCDF | 61 | 24 - 169 |
| 13C12-12378-PeCDF | 75 | 24 - 185 |
| 13C12-23478-PeCDF | 71 | 21 - 178 |
| 13C12-123478-HxCDF | 71 | 26 - 152 |
| 13C12-123678-HxCDF | 75 | 26 - 123 |
| 13C12-234678-HxCDF | 72 | 28 - 136 |
| 13C12-123789-HxCDF | 68 | 29 - 147 |
| 13C12-1234678-HpCDF | 92 | 28 - 143 |
| 13C12-1234789-HpCDF | 69 | 26 - 138 |
| 13C12-OCDF | 69 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-040-NBZ-SB-2.5-3.5 MSD Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-040-NBZ-SB**

**LLI Sample # SW 6599834**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:00

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6407 SDG#: DX164-07MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-040-NBZ-SB-2.5-3.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-040-NBZ-SB

**LLI Sample # SW 6599834**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:00

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6407 SDG#: DX164-07MSD

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12097002 | 04/10/2012 07:00 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12097002 | 04/06/2012 12:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401A | 04/03/2012 18:52 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-094-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-NBZ-SS

**LLI Sample # SW 6599835**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 14:20

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6408 SDG#: DX164-08

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 12.4 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-094-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-NBZ-SS

**LLI Sample # SW 6599835**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 14:20

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6408 SDG#: DX164-08

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0761 | JB | 0.0460 | 1.10 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.244 | J | 0.0358 | 5.48 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.207 | JB | 0.0291 | 5.48 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.356 | JB | 0.0320 | 5.48 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.495 | JB | 0.0299 | 5.48 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.75 | JB | 0.0259 | 5.48 | 1 |
| 11031 | OCDD | 3268-87-9 | 18.2 | B | 0.0228 | 11.0 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.155 | J | 0.0371 | 1.10 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.317 | JB | 0.0232 | 5.48 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.339 | JB | 0.0231 | 5.48 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.278 | JB | 0.0192 | 5.48 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.208 | JB | 0.0166 | 5.48 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.312 | JB | 0.0227 | 5.48 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.239 | JBQ | 0.0169 | 5.48 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.624 | JB | 0.0122 | 5.48 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.220 | JB | 0.0239 | 5.48 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.17 | JB | 0.0282 | 11.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 72 | 25 - 164 |
| 13C12-12378-PeCDD | 77 | 25 - 181 |
| 13C12-123478-HxCDD | 73 | 32 - 141 |
| 13C12-123678-HxCDD | 72 | 28 - 130 |
| 13C12-123789-HxCDD | 72 | 28 - 130 |
| 13C12-1234678-HpCDD | 73 | 23 - 140 |
| 13C12-OCDD | 70 | 17 - 157 |
| 13C12-2378-TCDF | 62 | 24 - 169 |
| 13C12-12378-PeCDF | 77 | 24 - 185 |
| 13C12-23478-PeCDF | 69 | 21 - 178 |
| 13C12-123478-HxCDF | 67 | 26 - 152 |
| 13C12-123678-HxCDF | 76 | 26 - 123 |
| 13C12-234678-HxCDF | 69 | 28 - 136 |
| 13C12-123789-HxCDF | 62 | 29 - 147 |
| 13C12-1234678-HpCDF | 96 | 28 - 143 |
| 13C12-1234789-HpCDF | 55 | 26 - 138 |
| 13C12-OCDF | 49 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-094-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-NBZ-SS

**LLI Sample # SW 6599835**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 14:20

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6408 SDG#: DX164-08

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-094-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-NBZ-SS

**LLI Sample # SW 6599835**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 14:20

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6408 SDG#: DX164-08

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12097002 | 04/10/2012 07:57 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12097002 | 04/06/2012 12:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401A | 04/05/2012 18:33 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-096-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-NBZ-SS

**LLI Sample # SW 6599836**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 09:45

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6409 SDG#: DX164-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 14.2 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-096-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-NBZ-SS

**LLI Sample # SW 6599836**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 09:45

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6409 SDG#: DX164-09

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0400 | JBQ | 0.0382 | 1.13 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.169 | JQ | 0.0364 | 5.66 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.123 | JBQ | 0.0326 | 5.66 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.305 | JB | 0.0324 | 5.66 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.389 | JB | 0.0340 | 5.66 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.65 | JB | 0.0265 | 5.66 | 1 |
| 11031 | OCDD | 3268-87-9 | 23.5 | B | 0.0214 | 11.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.281 | J | 0.0648 | 1.13 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.395 | JBQ | 0.0402 | 5.66 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.230 | JB | 0.0348 | 5.66 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.251 | JB | 0.0217 | 5.66 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.206 | JB | 0.0214 | 5.66 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.124 | JB | 0.0247 | 5.66 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.235 | JBQ | 0.0210 | 5.66 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.852 | JB | 0.0171 | 5.66 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.131 | JBQ | 0.0290 | 5.66 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.57 | JB | 0.0263 | 11.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 75 | 25 - 164 |
| 13C12-12378-PeCDD | 81 | 25 - 181 |
| 13C12-123478-HxCDD | 76 | 32 - 141 |
| 13C12-123678-HxCDD | 76 | 28 - 130 |
| 13C12-123789-HxCDD | 74 | 28 - 130 |
| 13C12-1234678-HpCDD | 78 | 23 - 140 |
| 13C12-OCDD | 76 | 17 - 157 |
| 13C12-2378-TCDF | 65 | 24 - 169 |
| 13C12-12378-PeCDF | 77 | 24 - 185 |
| 13C12-23478-PeCDF | 75 | 21 - 178 |
| 13C12-123478-HxCDF | 71 | 26 - 152 |
| 13C12-123678-HxCDF | 76 | 26 - 123 |
| 13C12-234678-HxCDF | 73 | 28 - 136 |
| 13C12-123789-HxCDF | 71 | 29 - 147 |
| 13C12-1234678-HpCDF | 94 | 28 - 143 |
| 13C12-1234789-HpCDF | 64 | 26 - 138 |
| 13C12-OCDF | 63 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-096-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-NBZ-SS

**LLI Sample # SW 6599836**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 09:45

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6409 SDG#: DX164-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-096-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-NBZ-SS

**LLI Sample # SW 6599836**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 09:45

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6409 SDG#: DX164-09

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12097002 | 04/10/2012 08:53 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12097002 | 04/06/2012 12:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401A | 04/05/2012 18:33 | Scott W Freisher | 1 |

eurofins | Lancaster Laboratories

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# Analysis Report



**Sample Description:** SL-102-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-NBZ-SS

**LLI Sample # SW 6599837**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 13:55

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6410 SDG#: DX164-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 13.5 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-102-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-NBZ-SS

**LLI Sample # SW 6599837**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 13:55

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6410 SDG#: DX164-10

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0327 | U | 0.0327 | 1.10 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0370 | J | 0.0335 | 5.51 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0667 | JB | 0.0267 | 5.51 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.358 | JB | 0.0275 | 5.51 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.343 | JB | 0.0281 | 5.51 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.11 | JB | 0.0264 | 5.51 | 1 |
| 11031 | OCDD | 3268-87-9 | 26.4 | B | 0.0251 | 11.0 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.101 | J | 0.0371 | 1.10 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.194 | JB | 0.0235 | 5.51 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.150 | JBQ | 0.0245 | 5.51 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.106 | JBQ | 0.0202 | 5.51 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0905 | JBQ | 0.0185 | 5.51 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.130 | JB | 0.0249 | 5.51 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0741 | JBQ | 0.0182 | 5.51 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.432 | JB | 0.0135 | 5.51 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0918 | JB | 0.0269 | 5.51 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.844 | JB | 0.0289 | 11.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 67 | 25 - 164 |
| 13C12-12378-PeCDD | 76 | 25 - 181 |
| 13C12-123478-HxCDD | 73 | 32 - 141 |
| 13C12-123678-HxCDD | 74 | 28 - 130 |
| 13C12-123789-HxCDD | 72 | 28 - 130 |
| 13C12-1234678-HpCDD | 77 | 23 - 140 |
| 13C12-OCDD | 75 | 17 - 157 |
| 13C12-2378-TCDF | 58 | 24 - 169 |
| 13C12-12378-PeCDF | 77 | 24 - 185 |
| 13C12-23478-PeCDF | 68 | 21 - 178 |
| 13C12-123478-HxCDF | 67 | 26 - 152 |
| 13C12-123678-HxCDF | 76 | 26 - 123 |
| 13C12-234678-HxCDF | 71 | 28 - 136 |
| 13C12-123789-HxCDF | 62 | 29 - 147 |
| 13C12-1234678-HpCDF | 103 | 28 - 143 |
| 13C12-1234789-HpCDF | 58 | 26 - 138 |
| 13C12-OCDF | 54 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-102-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-NBZ-SS

**LLI Sample # SW 6599837**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 13:55

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6410 SDG#: DX164-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-102-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-NBZ-SS

**LLI Sample # SW 6599837**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 13:55

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6410 SDG#: DX164-10

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12097002 | 04/10/2012 09:50 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12097002 | 04/06/2012 12:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401A | 04/05/2012 18:33 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-109-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-NBZ-SS

**LLI Sample # SW 6599838**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 14:55

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6411 SDG#: DX164-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 13.4 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-109-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-NBZ-SS

**LLI Sample # SW 6599838**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 14:55

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6411 SDG#: DX164-11

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0300 | U | 0.0300 | 1.13 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.114 | JQ | 0.0365 | 5.64 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.186 | JB | 0.0397 | 5.64 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 1.51 | JB | 0.0430 | 5.64 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.569 | JB | 0.0401 | 5.64 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 36.0 | B | 0.0659 | 5.64 | 1 |
| 11031 | OCDD | 3268-87-9 | 682 | B | 0.0398 | 11.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.152 | J | 0.0427 | 1.13 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.549 | JBQ | 0.0278 | 5.64 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.195 | JB | 0.0267 | 5.64 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.325 | JB | 0.0297 | 5.64 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.230 | JB | 0.0268 | 5.64 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.253 | JB | 0.0345 | 5.64 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.294 | JB | 0.0264 | 5.64 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 10.5 | B | 0.0211 | 5.64 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.604 | JB | 0.0442 | 5.64 | 1 |
| 11031 | OCDF | 39001-02-0 | 44.1 | B | 0.0312 | 11.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 75 | 25 - 164 |
| 13C12-12378-PeCDD | 82 | 25 - 181 |
| 13C12-123478-HxCDD | 78 | 32 - 141 |
| 13C12-123678-HxCDD | 77 | 28 - 130 |
| 13C12-123789-HxCDD | 76 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 87 | 17 - 157 |
| 13C12-2378-TCDF | 65 | 24 - 169 |
| 13C12-12378-PeCDF | 80 | 24 - 185 |
| 13C12-23478-PeCDF | 74 | 21 - 178 |
| 13C12-123478-HxCDF | 70 | 26 - 152 |
| 13C12-123678-HxCDF | 79 | 26 - 123 |
| 13C12-234678-HxCDF | 73 | 28 - 136 |
| 13C12-123789-HxCDF | 67 | 29 - 147 |
| 13C12-1234678-HpCDF | 109 | 28 - 143 |
| 13C12-1234789-HpCDF | 62 | 26 - 138 |
| 13C12-OCDF | 61 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-109-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-NBZ-SS

**LLI Sample # SW 6599838**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 14:55

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6411 SDG#: DX164-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-109-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-NBZ-SS

**LLI Sample # SW 6599838**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 14:55

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6411 SDG#: DX164-11

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12097002 | 04/10/2012 10:46 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12097002 | 04/06/2012 12:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401A | 04/05/2012 18:33 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-129-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-NBZ-SS

**LLI Sample # SW 6599839**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 14:35

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6412 SDG#: DX164-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 17.7 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-129-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-NBZ-SS

**LLI Sample # SW 6599839**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 14:35

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6412 SDG#: DX164-12

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0403 | JBQ | 0.0400 | 1.21 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.730 | J | 0.0740 | 6.03 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 1.21 | JB | 0.0518 | 6.03 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 11.7 | B | 0.0519 | 6.03 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 5.38 | JB | 0.0519 | 6.03 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 108 | B | 0.110 | 6.03 | 1 |
| 11031 | OCDD | 3268-87-9 | 1,800 | B | 0.0634 | 12.1 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.909 | J | 0.0919 | 1.21 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 2.03 | JB | 0.0564 | 6.03 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 1.14 | JB | 0.0525 | 6.03 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 1.43 | JB | 0.0361 | 6.03 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.745 | JB | 0.0338 | 6.03 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.465 | JB | 0.0412 | 6.03 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.955 | JB | 0.0345 | 6.03 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 11.8 | B | 0.0233 | 6.03 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.665 | JB | 0.0400 | 6.03 | 1 |
| 11031 | OCDF | 39001-02-0 | 29.0 | B | 0.0299 | 12.1 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 75 | 25 - 164 |
| 13C12-12378-PeCDD | 75 | 25 - 181 |
| 13C12-123478-HxCDD | 75 | 32 - 141 |
| 13C12-123678-HxCDD | 75 | 28 - 130 |
| 13C12-123789-HxCDD | 75 | 28 - 130 |
| 13C12-1234678-HpCDD | 75 | 23 - 140 |
| 13C12-OCDD | 78 | 17 - 157 |
| 13C12-2378-TCDF | 65 | 24 - 169 |
| 13C12-12378-PeCDF | 74 | 24 - 185 |
| 13C12-23478-PeCDF | 69 | 21 - 178 |
| 13C12-123478-HxCDF | 68 | 26 - 152 |
| 13C12-123678-HxCDF | 77 | 26 - 123 |
| 13C12-234678-HxCDF | 72 | 28 - 136 |
| 13C12-123789-HxCDF | 68 | 29 - 147 |
| 13C12-1234678-HpCDF | 92 | 28 - 143 |
| 13C12-1234789-HpCDF | 60 | 26 - 138 |
| 13C12-OCDF | 61 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-129-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-129-NBZ-SS**

**LLI Sample # SW 6599839**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 14:35

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6412 SDG#: DX164-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-129-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-NBZ-SS

**LLI Sample # SW 6599839**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/27/2012 14:35

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6412 SDG#: DX164-12

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12097002 | 04/10/2012 11:43 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12097002 | 04/06/2012 12:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401A | 04/05/2012 18:33 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-135-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-NBZ-SS

**LLI Sample # SW 6599840**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:50

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6413 SDG#: DX164-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 13.8 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-135-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-NBZ-SS

**LLI Sample # SW 6599840**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:50

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6413 SDG#: DX164-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0778 JB | 0.0350 | 1.13 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0977 J | 0.0360 | 5.65 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0659 JB | 0.0253 | 5.65 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.212 JB | 0.0261 | 5.65 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.235 JB | 0.0260 | 5.65 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.66 JB | 0.0259 | 5.65 | 1 |
| 11031 | OCDD | 3268-87-9 | 12.7 B | 0.0194 | 11.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0951 J | 0.0588 | 1.13 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.241 JB | 0.0360 | 5.65 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0353 U | 0.0353 | 5.65 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.160 JB | 0.0239 | 5.65 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.122 JB | 0.0230 | 5.65 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0733 JB | 0.0263 | 5.65 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.141 JB | 0.0216 | 5.65 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.438 JB | 0.0138 | 5.65 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0730 JB | 0.0224 | 5.65 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.843 JB | 0.0229 | 11.3 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 69 | 25 - 164 |
| 13C12-12378-PeCDD | 76 | 25 - 181 |
| 13C12-123478-HxCDD | 74 | 32 - 141 |
| 13C12-123678-HxCDD | 75 | 28 - 130 |
| 13C12-123789-HxCDD | 74 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 83 | 17 - 157 |
| 13C12-2378-TCDF | 59 | 24 - 169 |
| 13C12-12378-PeCDF | 75 | 24 - 185 |
| 13C12-23478-PeCDF | 70 | 21 - 178 |
| 13C12-123478-HxCDF | 66 | 26 - 152 |
| 13C12-123678-HxCDF | 73 | 26 - 123 |
| 13C12-234678-HxCDF | 71 | 28 - 136 |
| 13C12-123789-HxCDF | 68 | 29 - 147 |
| 13C12-1234678-HpCDF | 95 | 28 - 143 |
| 13C12-1234789-HpCDF | 66 | 26 - 138 |
| 13C12-OCDF | 69 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-135-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-135-NBZ-SS**

**LLI Sample # SW 6599840**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:50

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6413 SDG#: DX164-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-135-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-NBZ-SS

**LLI Sample # SW 6599840**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 10:50

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6413 SDG#: DX164-13

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12097002 | 04/10/2012 12:40 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12097002 | 04/06/2012 12:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401A | 04/05/2012 18:33 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-136-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-NBZ-SS

**LLI Sample # SW 6599841**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 13:45

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6414 SDG#: DX164-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.4 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-136-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-NBZ-SS

**LLI Sample # SW 6599841**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 13:45

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6414 SDG#: DX164-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0374 JBQ | 0.0252 | 1.08 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.119 JQ | 0.0241 | 5.40 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0789 JBQ | 0.0192 | 5.40 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.230 JB | 0.0210 | 5.40 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.244 JB | 0.0192 | 5.40 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.29 JB | 0.0200 | 5.40 | 1 |
| 11031 | OCDD | 3268-87-9 | 5.97 JB | 0.0129 | 10.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.139 JQ | 0.0346 | 1.08 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.152 JB | 0.0229 | 5.40 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.333 JB | 0.0217 | 5.40 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.130 JB | 0.0164 | 5.40 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.151 JB | 0.0163 | 5.40 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0614 JB | 0.0170 | 5.40 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.124 JBQ | 0.0140 | 5.40 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.321 JB | 0.0104 | 5.40 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0678 JBQ | 0.0142 | 5.40 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.435 JB | 0.0150 | 10.8 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 84 | 25 - 164 |
| 13C12-12378-PeCDD | 87 | 25 - 181 |
| 13C12-123478-HxCDD | 94 | 32 - 141 |
| 13C12-123678-HxCDD | 93 | 28 - 130 |
| 13C12-123789-HxCDD | 99 | 28 - 130 |
| 13C12-1234678-HpCDD | 96 | 23 - 140 |
| 13C12-OCDD | 97 | 17 - 157 |
| 13C12-2378-TCDF | 72 | 24 - 169 |
| 13C12-12378-PeCDF | 87 | 24 - 185 |
| 13C12-23478-PeCDF | 82 | 21 - 178 |
| 13C12-123478-HxCDF | 83 | 26 - 152 |
| 13C12-123678-HxCDF | 87 | 26 - 123 |
| 13C12-234678-HxCDF | 95 | 28 - 136 |
| 13C12-123789-HxCDF | 93 | 29 - 147 |
| 13C12-1234678-HpCDF | 100 | 28 - 143 |
| 13C12-1234789-HpCDF | 84 | 26 - 138 |
| 13C12-OCDF | 93 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-136-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-NBZ-SS

**LLI Sample # SW 6599841**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 13:45

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6414 SDG#: DX164-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-136-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-NBZ-SS

**LLI Sample # SW 6599841**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 13:45

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6414 SDG#: DX164-14

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12097002 | 04/10/2012 20:26 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12097002 | 04/06/2012 12:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401A | 04/05/2012 18:33 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-139-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-NBZ-SS

**LLI Sample # SW 6599842**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 15:15

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6415 SDG#: DX164-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 16.1 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-139-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-NBZ-SS

**LLI Sample # SW 6599842**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 15:15

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6415 SDG#: DX164-15

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0560 | JBQ | 0.0392 | 1.18 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.231 | JQ | 0.0476 | 5.91 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.211 | JB | 0.0381 | 5.91 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.520 | JB | 0.0383 | 5.91 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.533 | JB | 0.0399 | 5.91 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 5.84 | JB | 0.0375 | 5.91 | 1 |
| 11031 | OCDD | 3268-87-9 | 68.7 | B | 0.0255 | 11.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.615 | J | 0.0830 | 1.18 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 1.02 | JB | 0.0441 | 5.91 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.590 | JB | 0.0424 | 5.91 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.390 | JB | 0.0297 | 5.91 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.362 | JB | 0.0298 | 5.91 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.127 | JB | 0.0302 | 5.91 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.338 | JB | 0.0265 | 5.91 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.18 | JB | 0.0232 | 5.91 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.126 | JB | 0.0322 | 5.91 | 1 |
| 11031 | OCDF | 39001-02-0 | 2.29 | JB | 0.0235 | 11.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 75 | 25 - 164 |
| 13C12-12378-PeCDD | 79 | 25 - 181 |
| 13C12-123478-HxCDD | 78 | 32 - 141 |
| 13C12-123678-HxCDD | 77 | 28 - 130 |
| 13C12-123789-HxCDD | 77 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 82 | 17 - 157 |
| 13C12-2378-TCDF | 66 | 24 - 169 |
| 13C12-12378-PeCDF | 83 | 24 - 185 |
| 13C12-23478-PeCDF | 74 | 21 - 178 |
| 13C12-123478-HxCDF | 72 | 26 - 152 |
| 13C12-123678-HxCDF | 75 | 26 - 123 |
| 13C12-234678-HxCDF | 76 | 28 - 136 |
| 13C12-123789-HxCDF | 78 | 29 - 147 |
| 13C12-1234678-HpCDF | 89 | 28 - 143 |
| 13C12-1234789-HpCDF | 73 | 26 - 138 |
| 13C12-OCDF | 75 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-139-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-139-NBZ-SS**

**LLI Sample # SW 6599842**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 15:15

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6415 SDG#: DX164-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-139-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-NBZ-SS

**LLI Sample # SW 6599842**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 15:15

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6415 SDG#: DX164-15

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12097002 | 04/10/2012 14:33 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12097002 | 04/06/2012 12:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401A | 04/05/2012 18:33 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-141-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-NBZ-SS

**LLI Sample # SW 6599843**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 09:15

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6416 SDG#: DX164-16

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.4 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-141-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-NBZ-SS

**LLI Sample # SW 6599843**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 09:15

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6416 SDG#: DX164-16

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0612 | JB | 0.0318 | 1.12 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0734 | JQ | 0.0325 | 5.62 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0905 | JBQ | 0.0267 | 5.62 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.193 | JB | 0.0267 | 5.62 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.176 | JB | 0.0267 | 5.62 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.12 | JB | 0.0243 | 5.62 | 1 |
| 11031 | OCDD | 3268-87-9 | 12.4 | B | 0.0200 | 11.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.179 | J | 0.0567 | 1.12 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.238 | JB | 0.0356 | 5.62 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.119 | JB | 0.0323 | 5.62 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.167 | JB | 0.0213 | 5.62 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.163 | JB | 0.0222 | 5.62 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.132 | JBQ | 0.0242 | 5.62 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.183 | JBQ | 0.0209 | 5.62 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.532 | JB | 0.0147 | 5.62 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0948 | JBQ | 0.0207 | 5.62 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.00 | JB | 0.0196 | 11.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 76 | 25 - 164 |
| 13C12-12378-PeCDD | 79 | 25 - 181 |
| 13C12-123478-HxCDD | 78 | 32 - 141 |
| 13C12-123678-HxCDD | 80 | 28 - 130 |
| 13C12-123789-HxCDD | 79 | 28 - 130 |
| 13C12-1234678-HpCDD | 81 | 23 - 140 |
| 13C12-OCDD | 87 | 17 - 157 |
| 13C12-2378-TCDF | 65 | 24 - 169 |
| 13C12-12378-PeCDF | 75 | 24 - 185 |
| 13C12-23478-PeCDF | 72 | 21 - 178 |
| 13C12-123478-HxCDF | 76 | 26 - 152 |
| 13C12-123678-HxCDF | 79 | 26 - 123 |
| 13C12-234678-HxCDF | 75 | 28 - 136 |
| 13C12-123789-HxCDF | 79 | 29 - 147 |
| 13C12-1234678-HpCDF | 91 | 28 - 143 |
| 13C12-1234789-HpCDF | 72 | 26 - 138 |
| 13C12-OCDF | 78 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-141-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-141-NBZ-SS**

**LLI Sample # SW 6599843**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 09:15

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6416 SDG#: DX164-16

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-141-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-NBZ-SS

**LLI Sample # SW 6599843**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 09:15

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6416 SDG#: DX164-16

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12097002 | 04/10/2012 18:32 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12097002 | 04/06/2012 12:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401A | 04/05/2012 18:33 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-143-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-NBZ-SS

**LLI Sample # SW 6599844**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 14:50

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6417 SDG#: DX164-17*

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.2 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-143-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-NBZ-SS

**LLI Sample # SW 6599844**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 14:50

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6417 SDG#: DX164-17*

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0604 JBQ | 0.0265 | 1.05 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0367 JQ | 0.0271 | 5.24 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0501 JBQ | 0.0237 | 5.24 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.231 JBQ | 0.0245 | 5.24 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.277 JBQ | 0.0233 | 5.24 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.894 JB | 0.0207 | 5.24 | 1 |
| 11031 | OCDD | 3268-87-9 | 6.73 JB | 0.0163 | 10.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0511 JQ | 0.0343 | 1.05 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.100 JBQ | 0.0214 | 5.24 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.142 JBQ | 0.0211 | 5.24 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0989 JB | 0.0168 | 5.24 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0611 JBQ | 0.0159 | 5.24 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.128 JBQ | 0.0164 | 5.24 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0715 JBQ | 0.0147 | 5.24 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.229 JB | 0.0125 | 5.24 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0557 JB | 0.0168 | 5.24 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.403 JBQ | 0.0196 | 10.5 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 76 | 25 - 164 |
| 13C12-12378-PeCDD | 75 | 25 - 181 |
| 13C12-123478-HxCDD | 77 | 32 - 141 |
| 13C12-123678-HxCDD | 78 | 28 - 130 |
| 13C12-123789-HxCDD | 78 | 28 - 130 |
| 13C12-1234678-HpCDD | 84 | 23 - 140 |
| 13C12-OCDD | 87 | 17 - 157 |
| 13C12-2378-TCDF | 64 | 24 - 169 |
| 13C12-12378-PeCDF | 75 | 24 - 185 |
| 13C12-23478-PeCDF | 70 | 21 - 178 |
| 13C12-123478-HxCDF | 70 | 26 - 152 |
| 13C12-123678-HxCDF | 75 | 26 - 123 |
| 13C12-234678-HxCDF | 77 | 28 - 136 |
| 13C12-123789-HxCDF | 80 | 29 - 147 |
| 13C12-1234678-HpCDF | 88 | 28 - 143 |
| 13C12-1234789-HpCDF | 73 | 26 - 138 |
| 13C12-OCDF | 78 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-143-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-NBZ-SS

**LLI Sample # SW 6599844**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 14:50

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6417 SDG#: DX164-17*

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-143-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-NBZ-SS

**LLI Sample # SW 6599844**
**LLI Group # 1299118**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/28/2012 14:50

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 10:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6417 SDG#: DX164-17*

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12097002 | 04/10/2012 19:29 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12097002 | 04/06/2012 12:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401A | 04/05/2012 18:33 | Scott W Freisher | 1 |

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299118
Reported: 04/20/12 at 10:58 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12094162401A | Sample number(s): 6599826-6599834 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Batch number: 12096162401A | Sample number(s): 6599835-6599844 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12097002 | Sample number(s): 6599826-6599844 | | | | | | | | |
| 2378-TCDD | 0.0465 J | 0.0341 | 1.00 | ng/kg | 90 | | 67-158 | | |
| 12378-PeCDD | 0.0294 U | 0.0294 | 5.00 | ng/kg | 93 | | 70-142 | | |
| 123478-HxCDD | 0.0341 J | 0.0217 | 5.00 | ng/kg | 93 | | 70-164 | | |
| 123678-HxCDD | 0.0590 J | 0.0223 | 5.00 | ng/kg | 91 | | 76-134 | | |
| 123789-HxCDD | 0.0673 J | 0.0214 | 5.00 | ng/kg | 99 | | 64-162 | | |
| 1234678-HpCDD | 0.325 J | 0.0255 | 5.00 | ng/kg | 97 | | 70-140 | | |
| OCDD | 0.480 J | 0.0183 | 10.0 | ng/kg | 95 | | 78-144 | | |
| 2378-TCDF | 0.0325 U | 0.0325 | 1.00 | ng/kg | 97 | | 75-158 | | |
| 12378-PeCDF | 0.0426 J | 0.0194 | 5.00 | ng/kg | 98 | | 80-134 | | |
| 23478-PeCDF | 0.0632 J | 0.0185 | 5.00 | ng/kg | 94 | | 68-160 | | |
| 123478-HxCDF | 0.0368 J | 0.0160 | 5.00 | ng/kg | 95 | | 72-134 | | |
| 123678-HxCDF | 0.0359 J | 0.0147 | 5.00 | ng/kg | 97 | | 84-130 | | |
| 123789-HxCDF | 0.0266 J | 0.0193 | 5.00 | ng/kg | 98 | | 78-130 | | |
| 234678-HxCDF | 0.0494 J | 0.0155 | 5.00 | ng/kg | 93 | | 70-156 | | |
| 1234678-HpCDF | 0.0852 J | 0.00880 | 5.00 | ng/kg | 91 | | 82-122 | | |
| 1234789-HpCDF | 0.0714 J | 0.0164 | 5.00 | ng/kg | 96 | | 78-138 | | |
| OCDF | 0.161 J | 0.0275 | 10.0 | ng/kg | 95 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12094162401A | Sample number(s): 6599826-6599834 | | | | | BKG: P599821 | | | |
| Moisture Content by 160.3 | | | | | | 4.0 | 4.1 | 2 | 20 |
| Batch number: 12096162401A | Sample number(s): 6599835-6599844 | | | | | BKG: 6599842 | | | |
| Moisture Content by 160.3 | | | | | | 16.1 | 15.9 | 2 | 20 |
| Batch number: 12097002 | Sample number(s): 6599826-6599844 UNSPK: 6599832 | | | | | | | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299118
Reported: 04/20/12 at 10:58 AM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| 2378-TCDD | 92 | 92 | 67-158 | 2 | 25 | | | | |
| 12378-PeCDD | 93 | 95 | 70-142 | 1 | 25 | | | | |
| 123478-HxCDD | 95 | 93 | 70-164 | 4 | 25 | | | | |
| 123678-HxCDD | 93 | 91 | 76-134 | 5 | 25 | | | | |
| 123789-HxCDD | 100 | 100 | 64-162 | 3 | 25 | | | | |
| 1234678-HpCDD | 97 | 96 | 70-140 | 4 | 25 | | | | |
| OCDD | 89 | 90 | 78-144 | 1 | 25 | | | | |
| 2378-TCDF | 91 | 97 | 75-158 | 3 | 25 | | | | |
| 12378-PeCDF | 102 | 101 | 80-134 | 3 | 25 | | | | |
| 23478-PeCDF | 96 | 96 | 68-160 | 3 | 25 | | | | |
| 123478-HxCDF | 98 | 93 | 72-134 | 7 | 25 | | | | |
| 123678-HxCDF | 95 | 97 | 84-130 | 2 | 25 | | | | |
| 123789-HxCDF | 95 | 97 | 78-130 | 0 | 25 | | | | |
| 234678-HxCDF | 95 | 94 | 70-156 | 4 | 25 | | | | |
| 1234678-HpCDF | 90 | 91 | 82-122 | 2 | 25 | | | | |
| 1234789-HpCDF | 96 | 96 | 78-138 | 3 | 25 | | | | |
| OCDF | 95 | 94 | 63-170 | 3 | 25 | | | | |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12097002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6599826 | 69 | 69 | 70 | 78 | 71 | 67 |
| 6599827 | 67 | 66 | 69 | 76 | 71 | 68 |
| 6599828 | 71 | 73 | 72 | 76 | 74 | 74 |
| 6599829 | 66 | 66 | 63 | 72 | 66 | 61 |
| 6599830 | 67 | 63 | 64 | 72 | 67 | 65 |
| 6599831 | 71 | 72 | 66 | 76 | 69 | 65 |
| 6599832 | 77 | 73 | 74 | 81 | 77 | 73 |
| 6599833 | 74 | 77 | 74 | 79 | 75 | 76 |
| 6599834 | 68 | 71 | 71 | 75 | 72 | 68 |
| 6599835 | 72 | 69 | 67 | 76 | 69 | 62 |
| 6599836 | 75 | 75 | 71 | 76 | 73 | 71 |
| 6599837 | 67 | 68 | 67 | 76 | 71 | 62 |
| 6599838 | 75 | 74 | 70 | 79 | 73 | 67 |
| 6599839 | 75 | 69 | 68 | 77 | 72 | 68 |
| 6599840 | 69 | 70 | 66 | 73 | 71 | 68 |
| 6599841 | 84 | 82 | 83 | 87 | 95 | 93 |
| 6599842 | 75 | 74 | 72 | 75 | 76 | 78 |
| 6599843 | 76 | 72 | 76 | 79 | 75 | 79 |
| 6599844 | 76 | 70 | 70 | 75 | 77 | 80 |
| Blank | 68 | 71 | 74 | 83 | 75 | 70 |
| MS | 74 | 77 | 74 | 79 | 75 | 76 |
| MSD | 68 | 71 | 71 | 75 | 72 | 68 |
| OPR | 78 | 75 | 77 | 86 | 80 | 81 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299118
Reported: 04/20/12 at 10:58 AM

## Surrogate Quality Control

| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |
|---|---|---|---|---|---|---|
| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
| 6599826 | 96 | 63 | 61 | 77 | 77 | 77 |
| 6599827 | 94 | 62 | 58 | 74 | 74 | 75 |
| 6599828 | 91 | 70 | 77 | 82 | 78 | 77 |
| 6599829 | 93 | 56 | 50 | 74 | 70 | 71 |
| 6599830 | 96 | 58 | 59 | 68 | 69 | 72 |
| 6599831 | 97 | 58 | 56 | 80 | 74 | 73 |
| 6599832 | 103 | 65 | 61 | 79 | 78 | 81 |
| 6599833 | 95 | 72 | 74 | 84 | 78 | 79 |
| 6599834 | 92 | 69 | 69 | 77 | 77 | 76 |
| 6599835 | 96 | 55 | 49 | 77 | 73 | 72 |
| 6599836 | 94 | 64 | 63 | 81 | 76 | 76 |
| 6599837 | 103 | 58 | 54 | 76 | 73 | 74 |
| 6599838 | 109 | 62 | 61 | 82 | 78 | 77 |
| 6599839 | 92 | 60 | 61 | 75 | 75 | 75 |
| 6599840 | 95 | 66 | 69 | 76 | 74 | 75 |
| 6599841 | 100 | 84 | 93 | 87 | 94 | 93 |
| 6599842 | 89 | 73 | 75 | 79 | 78 | 77 |
| 6599843 | 91 | 72 | 78 | 79 | 78 | 80 |
| 6599844 | 88 | 73 | 78 | 75 | 77 | 78 |
| Blank | 105 | 66 | 64 | 80 | 80 | 81 |
| MS | 95 | 72 | 74 | 84 | 78 | 79 |
| MSD | 92 | 69 | 69 | 77 | 77 | 76 |
| OPR | 114 | 72 | 68 | 84 | 86 | 85 |

| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |
|---|---|---|---|---|---|---|
| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF | |
| 6599826 | 77 | 81 | 77 | 61 | 74 | |
| 6599827 | 74 | 77 | 74 | 58 | 72 | |
| 6599828 | 77 | 82 | 86 | 62 | 77 | |
| 6599829 | 71 | 74 | 69 | 55 | 75 | |
| 6599830 | 70 | 76 | 77 | 56 | 68 | |
| 6599831 | 73 | 77 | 75 | 61 | 82 | |
| 6599832 | 80 | 81 | 79 | 66 | 80 | |
| 6599833 | 79 | 83 | 84 | 66 | 79 | |
| 6599834 | 75 | 82 | 82 | 61 | 75 | |
| 6599835 | 72 | 73 | 70 | 62 | 77 | |
| 6599836 | 74 | 78 | 76 | 65 | 77 | |
| 6599837 | 72 | 77 | 75 | 58 | 77 | |
| 6599838 | 76 | 82 | 87 | 65 | 80 | |
| 6599839 | 75 | 75 | 78 | 65 | 74 | |
| 6599840 | 74 | 82 | 83 | 59 | 75 | |
| 6599841 | 99 | 96 | 97 | 72 | 87 | |
| 6599842 | 77 | 82 | 82 | 66 | 83 | |
| 6599843 | 79 | 81 | 87 | 65 | 75 | |
| 6599844 | 78 | 84 | 87 | 64 | 75 | |
| Blank | 81 | 83 | 83 | 60 | 76 | |
| MS | 79 | 83 | 84 | 66 | 79 | |
| MSD | 75 | 82 | 82 | 61 | 75 | |
| OPR | 87 | 91 | 93 | 63 | 81 | |

| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |
|---|---|---|---|---|---|

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299118
Reported: 04/20/12 at 10:58 AM

## Surrogate Quality Control

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Grp# 1249118 Sample# 659936-41

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | PRIMARY ANALYSES | | | | SECONDARY ANALYSES | |
|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C.<br><br>Samplers Signatures: | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes | |

| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| SL-036-NBZ-SB-4.0-5.0 | 3.28.12 | 1103 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-036-NBZ-SB-7.5-8.5 | 3.28.12 | 1230 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| DUP-03-NBZ-QC-032812 | 3.28.12 | 1010 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-037-NBZ-SB-3.0-4.0 | 3.28.12 | 1512 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-039-NBZ-SB-2.-3.0 | 3.28.12 | 1435 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-040-NBZ-SS-0.0-0.5 | 3.28.12 | 0851 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-040-NBZ-SB-2.5-3.5MS | 3.28.12 | 1000 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | MS/MSD |
| SL-094-NBZ-SS-0.0.-0.5 | 3.28.12 | 1420 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-096-NBZ-SS-0.0.-0.5 | 3.28.12 | 0905 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-102-NBZ-SS-0.0.-0.5 | 3.27.12 | 1355 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-109-NBZ-SS-0.0.-0.5 | 3.27.12 | 1455 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-129-NBZ-SS-0.0.-0.5 | 3.27.12 | 1435 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-135-NBZ-SS-0.0.-0.5 | 3.28.12 | 1050 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-136-NBZ-SS-0.0.-0.5 | 3.28.12 | 1345 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-139-NBZ-SS-0.0.-0.5 | 3.28.12 | 1515 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-141-NBZ-SS-0.0.-0.5 | 3.28.12 | 1450 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-143-NBZ-SS-0.0.-0.5 | 3.28.12 | 0915 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-044-NBZ-SS-0.0-0.5 | 3.29.12 | 1020 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-091-NBZ-SS-0.0-0.5 | 3.29.12 | 1120 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-092-NBZ-SS-0.0-0.5MS | 3.29.12 | 1540 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | MS/MSD |
| SL-101-NBZ-SS-0.0-0.5 | 3.29.12 | 1145 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-103-NBZ-SS-0.0-0.5 | 3.29.12 | 1110 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-130-NBZ-SS-0.0-0.5 | 3.29.12 | 0940 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| DUP-05-NBZ-QC-032912 | 3.29.12 | 1017 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| EB-NBZ-SB-032912 | 3.29.12 | 1500 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SB-032912 | 3.29.12 | 1500 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| EB-NBZ-SS-032912 | 3.29.12 | 1545 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SS-032912 | 3.29.12 | 1545 | WATER | NONE | 1-250 mL glass | X | X | X | X | |

| Relinquished by: (*Signature*) | Date/Time | Received for Labbratory by: (*Signature*) | Laboratory: |
|---|---|---|---|
| | 3/29/2012 / 1630 | 3/30/12 0930 | Lancaster Laboratories, Inc. |
| **Received by: (*Signature*)** | **Date/Time** | **Airbill No.(s)** | |
| | | | |

**Nicole Maljovec**

**From:** Hartman, Pamela [HartmanPM@cdmsmith.com]
**Sent:** Friday, March 30, 2012 3:19 PM
**To:** Nicole Maljovec
**Subject:** RE: 3/29 COC: Missing 2 samples, 1 extra, and time discrepancies

**Attachments:** COC_LLI_03_29_12.xlsx

COC_LLI_03_29_12
.xlsx (26 KB)

Hi Nicole

Sorry for the mess! I am getting help next week, so hopefully things will improve

I do have SL-103 and SL-130-I'll send them today.

Yes, please add SL-091-I updated the COC

The times on the jars are correct. I don't know what I did with the COC to mess up the times-too much Copy+Paste I think

The samples for SL-141 and SL-143 should be ok. The times probably did just get flipped. Our crews are out hiking around in steep terrain, so I think the tiny details are getting missed!

Thanks!

Pam
Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

---

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Friday, March 30, 2012 11:03 AM
To: Hartman, Pamela
Subject: 3/29 COC: Missing 2 samples, 1 extra, and time discrepancies

Hi Pam,
We received the coolers and everything is in temp and intact. I have a few questions for you.

1. We did not receive SL-103-NBZ-SS-0.0-0.5 and SL-130-NBZ-SS-0.0-0.5.
Do you have these?

2. We did receive SL-091-NBZ-SB-4.0-5.0 (collected 3/29 @1020)but it isn't on the COC. Should we analyze this sample?

3. There were time discrepancies on 6 samples.
SL-096: 9:45 on labels, 9:05 on COC
SL-044: 13:11 on labels, 10:20 on COC
SL-091: 9:09 on labels, 11:20 on COC
Sl-092: 11:43 on labels, 15:40 on COC
SL-141: 9:15 on labels, 14:50 on COC
SL-143: 14:50 on labels, 9:15 on COC

Should we enter per the COC or label?

4. SL-141 and SL-143 have flipped times. Is there a chance that the bottles labeled SL-141 are really from 143 and vice versa? This has happened in the past with other clients, so I just want to make sure.

Thanks!
Nicole

acct#13013 Cap# 1299118 Sample# 6599536 44

# CHAIN OF CUSTODY RECORD

**CDM** SSFL AREA IV COLLOCATED SOIL SAMPLING

PRI MARY ANALYSIS / SECONDARY ANALYSIS

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| SL-036-NBZ-SB-4.0-5.0 | 3.28.12 | 1103 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-036-NBZ-SB-7.5-8.5 | 3.28.12 | 1230 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| DUP-03-NBZ-QC-032812 | 3.28.12 | 1010 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-037-NBZ-SB-3.0-4.0 | 3.28.12 | 1512 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-039-NBZ-SB-2.-3.0 | 3.28.12 | 1435 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-040-NBZ-SS-0.0-0.5 | 3.28.12 | 0851 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-040-NBZ-SB-2.5-3.5MS | 3.28.12 | 1000 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | MS/MSD |
| SL-094-NBZ-SS-0.0.-0.5 | 3.28.12 | 1420 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-096-NBZ-SS-0.0.-0.5 | 3.28.12 | 0945 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-102-NBZ-SS-0.0.-0.5 | 3.27.12 | 1355 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-109-NBZ-SS-0.0.-0.5 | 3.27.12 | 1455 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-129-NBZ-SS-0.0.-0.5 | 3.27.12 | 1435 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-135-NBZ-SS-0.0.-0.5 | 3.28.12 | 1050 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-136-NBZ-SS-0.0.-0.5 | 3.28.12 | 1345 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-139-NBZ-SS-0.0.-0.5 | 3.28.12 | 1515 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-141-NBZ-SS-0.0.-0.5 | 3.28.12 | 0915 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-143-NBZ-SS-0.0.-0.5 | 3.28.12 | 1450 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-044-NBZ-SS-0.0-0.5 | 3.29.12 | 1311 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-091-NBZ-SS-0.0-0.5 | 3.29.12 | 0909 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-091-NBZ-SB-4.0-5.0 | 3.29.12 | 1020 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-092-NBZ-SS-0.0-0.5MS | 3.29.12 | 1143 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | MS/MSD |
| SL-101-NBZ-SS-0.0-0.5 | 3.29.12 | 1145 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| DUP-05-NBZ-QC-032912 | 3.29.12 | 1017 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| EB-NBZ-SB-032912 | 3.29.12 | 1500 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SB-032912 | 3.29.12 | 1500 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| EB-NBZ-SS-032912 | 3.29.12 | 1545 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SS-032912 | 3.29.12 | 1545 | WATER | NONE | 1-250 mL glass | X | X | X | X | |

| Relinquished by: (*Signature*) | Date/Time | Received for Laboratory by: (*Signature*) | Laboratory: |
|---|---|---|---|
| | 3/29/2012 / 1630 | | Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | Airbill No.(s) | |
| | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# DX165

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 20, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/30/2012
Group Number: 1299121
SDG: DX165
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-044-NBZ-SS-0.0-0.5 Soil | 6599858 |
| SL-091-NBZ-SS-0.0-0.5 Soil | 6599859 |
| SL-091-NBZ-SB-4.0-5.0 Soil | 6599860 |
| SL-092-NBZ-SS-0.0-0.5 Soil | 6599861 |
| SL-092-NBZ-SS-0.0-0.5 MS Soil | 6599862 |
| SL-092-NBZ-SS-0.0-0.5 MSD Soil | 6599863 |
| DUP-05-NBZ-QC-032912 Soil | 6599865 |
| EB-NBZ-SB-032912 Water | 6599866 |
| EB-NBZ-SS-032912 Water | 6599867 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-044-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-NBZ-SS

**LLI Sample # SW 6599858**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 13:11

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6501 SDG#: DX165-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 3.2 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-044-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-NBZ-SS

**LLI Sample # SW 6599858**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 13:11

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6501 SDG#: DX165-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 2.53 | | 0.0904 | 0.990 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 5.86 | B | 0.112 | 4.95 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 5.64 | B | 0.0808 | 4.95 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 68.7 | B | 0.0825 | 4.95 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 22.6 | B | 0.0806 | 4.95 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 657 | B | 0.137 | 4.95 | 1 |
| 11031 | OCDD | 3268-87-9 | 5,270 | EB | 0.0864 | 9.90 | 1 |
| 11650 | 2378-TCDF-Conf | 51207-31-9 | 12.3 | BC | 0.265 | 0.990 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 16.9 | B | 0.129 | 4.95 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 13.5 | B | 0.121 | 4.95 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 11.9 | B | 0.0684 | 4.95 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 9.44 | B | 0.0696 | 4.95 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 2.65 | JB | 0.0714 | 4.95 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 12.4 | B | 0.0645 | 4.95 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 409 | B | 0.0608 | 4.95 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 10.0 | B | 0.0747 | 4.95 | 1 |
| 11031 | OCDF | 39001-02-0 | 537 | B | 0.0408 | 9.90 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 74 | 25 - 164 |
| 13C12-2378-TCDF-Conf | 71 | 24 - 169 |
| 13C12-12378-PeCDD | 74 | 25 - 181 |
| 13C12-123478-HxCDD | 73 | 32 - 141 |
| 13C12-123678-HxCDD | 73 | 28 - 130 |
| 13C12-123789-HxCDD | 73 | 28 - 130 |
| 13C12-1234678-HpCDD | 72 | 23 - 140 |
| 13C12-OCDD | 68 | 17 - 157 |
| 13C12-12378-PeCDF | 70 | 24 - 185 |
| 13C12-23478-PeCDF | 70 | 21 - 178 |
| 13C12-123478-HxCDF | 72 | 26 - 152 |
| 13C12-123678-HxCDF | 72 | 26 - 123 |
| 13C12-234678-HxCDF | 72 | 28 - 136 |
| 13C12-123789-HxCDF | 73 | 29 - 147 |
| 13C12-1234678-HpCDF | 72 | 28 - 143 |
| 13C12-1234789-HpCDF | 69 | 26 - 138 |
| 13C12-OCDF | 64 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-044-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-044-NBZ-SS**

**LLI Sample # SW 6599858**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 13:11

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6501 SDG#: DX165-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-044-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-NBZ-SS

**LLI Sample # SW 6599858**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 13:11

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6501 SDG#: DX165-01

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/12/2012 20:19 | Joseph D Anderson | 1 |
| 11650 | Dioxins/Furans in Solids-Conf | EPA 1613B | 1 | 12101002 | 04/16/2012 17:01 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401B | 04/04/2012 19:16 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-091-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-NBZ-SS

**LLI Sample # SW 6599859**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 09:09

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6502 SDG#: DX165-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 18.1 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-091-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-NBZ-SS

**LLI Sample # SW 6599859**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 09:09

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6502 SDG#: DX165-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.263 | J | 0.0422 | 1.19 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 1.07 | JB | 0.0844 | 5.96 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 1.97 | JB | 0.0726 | 5.96 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 11.5 | B | 0.0774 | 5.96 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 6.46 | B | 0.0740 | 5.96 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 263 | B | 0.145 | 5.96 | 1 |
| 11031 | OCDD | 3268-87-9 | 2,340 | B | 0.0822 | 11.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.342 | JB | 0.0665 | 1.19 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 1.90 | JB | 0.0454 | 5.96 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.663 | JB | 0.0421 | 5.96 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 1.21 | JB | 0.0463 | 5.96 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 1.21 | JB | 0.0429 | 5.96 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0698 | JB | 0.0569 | 5.96 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 1.42 | JB | 0.0429 | 5.96 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 25.0 | B | 0.0341 | 5.96 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 2.51 | JB | 0.0568 | 5.96 | 1 |
| 11031 | OCDF | 39001-02-0 | 60.0 | B | 0.0529 | 11.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 66 | 25 - 164 |
| 13C12-12378-PeCDD | 71 | 25 - 181 |
| 13C12-123478-HxCDD | 71 | 32 - 141 |
| 13C12-123678-HxCDD | 71 | 28 - 130 |
| 13C12-123789-HxCDD | 72 | 28 - 130 |
| 13C12-1234678-HpCDD | 69 | 23 - 140 |
| 13C12-OCDD | 63 | 17 - 157 |
| 13C12-2378-TCDF | 59 | 24 - 169 |
| 13C12-12378-PeCDF | 70 | 24 - 185 |
| 13C12-23478-PeCDF | 64 | 21 - 178 |
| 13C12-123478-HxCDF | 64 | 26 - 152 |
| 13C12-123678-HxCDF | 71 | 26 - 123 |
| 13C12-234678-HxCDF | 68 | 28 - 136 |
| 13C12-123789-HxCDF | 59 | 29 - 147 |
| 13C12-1234678-HpCDF | 78 | 28 - 143 |
| 13C12-1234789-HpCDF | 55 | 26 - 138 |
| 13C12-OCDF | 49 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-091-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-NBZ-SS

**LLI Sample # SW 6599859**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 09:09

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6502 SDG#: DX165-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-091-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-NBZ-SS

**LLI Sample # SW 6599859**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 09:09

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6502 SDG#: DX165-02

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/12/2012 21:16 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401B | 04/04/2012 19:16 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-091-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-NBZ-SB

**LLI Sample # SW 6599860**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:20

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6503 SDG#: DX165-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 17.8 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-091-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-NBZ-SB

**LLI Sample # SW 6599860**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:20

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6503 SDG#: DX165-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0336 JQ | 0.0290 | 1.20 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0381 U | 0.0381 | 6.02 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.105 JBQ | 0.0366 | 6.02 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.160 JB | 0.0359 | 6.02 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0966 JBQ | 0.0377 | 6.02 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 5.39 JB | 0.0476 | 6.02 | 1 |
| 11031 | OCDD | 3268-87-9 | 62.8 B | 0.0371 | 12.0 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0326 U | 0.0326 | 1.20 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0924 JB | 0.0226 | 6.02 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.104 JB | 0.0224 | 6.02 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0929 JB | 0.0254 | 6.02 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0234 U | 0.0234 | 6.02 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0683 JBQ | 0.0313 | 6.02 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0973 JBQ | 0.0232 | 6.02 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.637 JB | 0.0308 | 6.02 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.133 JBQ | 0.0556 | 6.02 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.84 JB | 0.0499 | 12.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 61 | 25 - 164 |
| 13C12-12378-PeCDD | 63 | 25 - 181 |
| 13C12-123478-HxCDD | 67 | 32 - 141 |
| 13C12-123678-HxCDD | 66 | 28 - 130 |
| 13C12-123789-HxCDD | 66 | 28 - 130 |
| 13C12-1234678-HpCDD | 64 | 23 - 140 |
| 13C12-OCDD | 57 | 17 - 157 |
| 13C12-2378-TCDF | 50 | 24 - 169 |
| 13C12-12378-PeCDF | 65 | 24 - 185 |
| 13C12-23478-PeCDF | 56 | 21 - 178 |
| 13C12-123478-HxCDF | 58 | 26 - 152 |
| 13C12-123678-HxCDF | 66 | 26 - 123 |
| 13C12-234678-HxCDF | 61 | 28 - 136 |
| 13C12-123789-HxCDF | 53 | 29 - 147 |
| 13C12-1234678-HpCDF | 77 | 28 - 143 |
| 13C12-1234789-HpCDF | 47 | 26 - 138 |
| 13C12-OCDF | 42 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-091-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-NBZ-SB

**LLI Sample # SW 6599860**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:20

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6503 SDG#: DX165-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-091-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-NBZ-SB

**LLI Sample # SW 6599860**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:20

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6503 SDG#: DX165-03

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/12/2012 22:13 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401B | 04/04/2012 19:16 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-092-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-NBZ-SS

**LLI Sample # SW 6599861**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 11:43

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6504 SDG#: DX165-04BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 15.2 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-092-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-NBZ-SS

**LLI Sample # SW 6599861**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 11:43

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6504 SDG#: DX165-04BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0537 | J | 0.0263 | 1.14 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.119 | JBQ | 0.0304 | 5.72 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.255 | JB | 0.0412 | 5.72 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 2.71 | JB | 0.0429 | 5.72 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.837 | JB | 0.0421 | 5.72 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 101 | B | 0.0876 | 5.72 | 1 |
| 11031 | OCDD | 3268-87-9 | 1,100 | B | 0.0550 | 11.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0322 | U | 0.0322 | 1.14 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.228 | JBQ | 0.0270 | 5.72 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.142 | JB | 0.0279 | 5.72 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.600 | JB | 0.0322 | 5.72 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.451 | JB | 0.0298 | 5.72 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.162 | JB | 0.0410 | 5.72 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.890 | JB | 0.0311 | 5.72 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 18.2 | B | 0.0302 | 5.72 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 1.71 | JB | 0.0631 | 5.72 | 1 |
| 11031 | OCDF | 39001-02-0 | 41.4 | B | 0.0403 | 11.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 66 | 25 - 164 |
| 13C12-12378-PeCDD | 69 | 25 - 181 |
| 13C12-123478-HxCDD | 73 | 32 - 141 |
| 13C12-123678-HxCDD | 72 | 28 - 130 |
| 13C12-123789-HxCDD | 73 | 28 - 130 |
| 13C12-1234678-HpCDD | 71 | 23 - 140 |
| 13C12-OCDD | 67 | 17 - 157 |
| 13C12-2378-TCDF | 56 | 24 - 169 |
| 13C12-12378-PeCDF | 68 | 24 - 185 |
| 13C12-23478-PeCDF | 60 | 21 - 178 |
| 13C12-123478-HxCDF | 62 | 26 - 152 |
| 13C12-123678-HxCDF | 72 | 26 - 123 |
| 13C12-234678-HxCDF | 65 | 28 - 136 |
| 13C12-123789-HxCDF | 55 | 29 - 147 |
| 13C12-1234678-HpCDF | 88 | 28 - 143 |
| 13C12-1234789-HpCDF | 51 | 26 - 138 |
| 13C12-OCDF | 48 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-092-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-NBZ-SS

**LLI Sample # SW 6599861**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 11:43

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6504 SDG#: DX165-04BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-092-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-NBZ-SS

**LLI Sample # SW 6599861**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 11:43

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6504 SDG#: DX165-04BKG

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/12/2012 23:09 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401B | 04/04/2012 19:16 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-092-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-092-NBZ-SS

**LLI Sample # SW 6599862**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 11:43

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6504 SDG#: DX165-04MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 15.2 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-092-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-092-NBZ-SS

**LLI Sample # SW 6599862**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 11:43

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6504 SDG#: DX165-04MS

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 21.0 | | 0.0292 | 1.14 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 112 | B | 0.0425 | 5.68 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 110 | B | 0.0496 | 5.68 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 111 | B | 0.0514 | 5.68 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 117 | B | 0.0491 | 5.68 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 214 | B | 0.0874 | 5.68 | 1 |
| 11031 | OCDD | 3268-87-9 | 1,290 | B | 0.0559 | 11.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 23.4 | B | 0.0390 | 1.14 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 116 | B | 0.0364 | 5.68 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 111 | B | 0.0399 | 5.68 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 112 | B | 0.0646 | 5.68 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 114 | B | 0.0584 | 5.68 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 112 | B | 0.0770 | 5.68 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 112 | B | 0.0580 | 5.68 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 122 | B | 0.0432 | 5.68 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 113 | B | 0.0809 | 5.68 | 1 |
| 11031 | OCDF | 39001-02-0 | 266 | B | 0.0401 | 11.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 70 | 25 - 164 |
| 13C12-12378-PeCDD | 73 | 25 - 181 |
| 13C12-123478-HxCDD | 76 | 32 - 141 |
| 13C12-123678-HxCDD | 75 | 28 - 130 |
| 13C12-123789-HxCDD | 76 | 28 - 130 |
| 13C12-1234678-HpCDD | 73 | 23 - 140 |
| 13C12-OCDD | 68 | 17 - 157 |
| 13C12-2378-TCDF | 60 | 24 - 169 |
| 13C12-12378-PeCDF | 75 | 24 - 185 |
| 13C12-23478-PeCDF | 64 | 21 - 178 |
| 13C12-123478-HxCDF | 67 | 26 - 152 |
| 13C12-123678-HxCDF | 75 | 26 - 123 |
| 13C12-234678-HxCDF | 69 | 28 - 136 |
| 13C12-123789-HxCDF | 61 | 29 - 147 |
| 13C12-1234678-HpCDF | 91 | 28 - 143 |
| 13C12-1234789-HpCDF | 54 | 26 - 138 |
| 13C12-OCDF | 50 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-092-NBZ-SS-0.0-0.5 MS Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-092-NBZ-SS**

**LLI Sample # SW 6599862**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 11:43

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6504 SDG#: DX165-04MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-092-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-092-NBZ-SS

**LLI Sample # SW 6599862**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 11:43

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6504 SDG#: DX165-04MS

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/13/2012 00:06 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401B | 04/04/2012 19:16 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-092-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-092-NBZ-SS

**LLI Sample # SW 6599863**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 11:43

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6504 SDG#: DX165-04MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 15.2 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-092-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-092-NBZ-SS

**LLI Sample # SW 6599863**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 11:43

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6504 SDG#: DX165-04MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 22.1 | | 0.0333 | 1.18 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 114 | B | 0.0413 | 5.90 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 116 | B | 0.0489 | 5.90 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 114 | B | 0.0529 | 5.90 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 122 | B | 0.0506 | 5.90 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 229 | B | 0.0907 | 5.90 | 1 |
| 11031 | OCDD | 3268-87-9 | 1,400 | B | 0.0579 | 11.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 24.1 | B | 0.0397 | 1.18 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 120 | B | 0.0403 | 5.90 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 118 | B | 0.0425 | 5.90 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 116 | B | 0.0573 | 5.90 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 116 | B | 0.0508 | 5.90 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 121 | B | 0.0689 | 5.90 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 117 | B | 0.0519 | 5.90 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 131 | B | 0.0445 | 5.90 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 118 | B | 0.0818 | 5.90 | 1 |
| 11031 | OCDF | 39001-02-0 | 279 | B | 0.0410 | 11.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 66 | 25 - 164 |
| 13C12-12378-PeCDD | 68 | 25 - 181 |
| 13C12-123478-HxCDD | 72 | 32 - 141 |
| 13C12-123678-HxCDD | 74 | 28 - 130 |
| 13C12-123789-HxCDD | 73 | 28 - 130 |
| 13C12-1234678-HpCDD | 71 | 23 - 140 |
| 13C12-OCDD | 66 | 17 - 157 |
| 13C12-2378-TCDF | 57 | 24 - 169 |
| 13C12-12378-PeCDF | 71 | 24 - 185 |
| 13C12-23478-PeCDF | 61 | 21 - 178 |
| 13C12-123478-HxCDF | 66 | 26 - 152 |
| 13C12-123678-HxCDF | 75 | 26 - 123 |
| 13C12-234678-HxCDF | 68 | 28 - 136 |
| 13C12-123789-HxCDF | 61 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 52 | 26 - 138 |
| 13C12-OCDF | 49 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-092-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-092-NBZ-SS

**LLI Sample # SW 6599863**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 11:43

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6504 SDG#: DX165-04MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-092-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-092-NBZ-SS

**LLI Sample # SW 6599863**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 11:43

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6504 SDG#: DX165-04MSD

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/13/2012 01:02 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401B | 04/04/2012 19:16 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** DUP-05-NBZ-QC-032912 Soil
SSFL Area IV Collocated Soil Sampling
DUP-05-NBZ

**LLI Sample #** SW 6599865
**LLI Group #** 1299121
**Account #** 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:17

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6506 SDG#: DX165-06FD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 20.4 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-05-NBZ-QC-032912 Soil
SSFL Area IV Collocated Soil Sampling
DUP-05-NBZ

**LLI Sample #** SW 6599865
**LLI Group #** 1299121
**Account #** 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:17

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6506 SDG#: DX165-06FD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.104 | J | 0.0305 | 1.25 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.669 | JB | 0.0492 | 6.24 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 1.38 | JB | 0.0552 | 6.24 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 8.94 | B | 0.0611 | 6.24 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 2.95 | JB | 0.0572 | 6.24 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 241 | B | 0.123 | 6.24 | 1 |
| 11031 | OCDD | 3268-87-9 | 2,260 | B | 0.0695 | 12.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.165 | JB | 0.0417 | 1.25 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.646 | JB | 0.0345 | 6.24 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.414 | JB | 0.0378 | 6.24 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 1.26 | JB | 0.0504 | 6.24 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 1.20 | JB | 0.0425 | 6.24 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.425 | JB | 0.0592 | 6.24 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 2.20 | JB | 0.0454 | 6.24 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 38.5 | B | 0.0394 | 6.24 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 4.44 | JB | 0.0753 | 6.24 | 1 |
| 11031 | OCDF | 39001-02-0 | 95.0 | B | 0.0418 | 12.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 68 | 25 - 164 |
| 13C12-12378-PeCDD | 70 | 25 - 181 |
| 13C12-123478-HxCDD | 74 | 32 - 141 |
| 13C12-123678-HxCDD | 73 | 28 - 130 |
| 13C12-123789-HxCDD | 73 | 28 - 130 |
| 13C12-1234678-HpCDD | 70 | 23 - 140 |
| 13C12-OCDD | 68 | 17 - 157 |
| 13C12-2378-TCDF | 57 | 24 - 169 |
| 13C12-12378-PeCDF | 71 | 24 - 185 |
| 13C12-23478-PeCDF | 60 | 21 - 178 |
| 13C12-123478-HxCDF | 64 | 26 - 152 |
| 13C12-123678-HxCDF | 76 | 26 - 123 |
| 13C12-234678-HxCDF | 66 | 28 - 136 |
| 13C12-123789-HxCDF | 57 | 29 - 147 |
| 13C12-1234678-HpCDF | 88 | 28 - 143 |
| 13C12-1234789-HpCDF | 50 | 26 - 138 |
| 13C12-OCDF | 48 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B* *Detected in Method Blank*
*U* *Undetected*
*J* *Estimated concentration between Estimated Detection Limit and Minimum Level*
*E* *Exceeds calibration range*
*C* *Confirmed quantitation on secondary GC column*
*Q* *EMPC - Estimated Maximum Possible Concentration*
*F* *Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-05-NBZ-QC-032912 Soil
SSFL Area IV Collocated Soil Sampling
DUP-05-NBZ

**LLI Sample # SW 6599865**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:17

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6506 SDG#: DX165-06FD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-05-NBZ-QC-032912 Soil
SSFL Area IV Collocated Soil Sampling
DUP-05-NBZ

**LLI Sample # SW 6599865**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:17

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6506 SDG#: DX165-06FD

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/13/2012 01:59 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12095162401B | 04/04/2012 19:16 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** EB-NBZ-SB-032912 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SB

**LLI Sample # WW 6599866**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:00

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6507 SDG#: DX165-07EB

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | pg/l | | pg/l | pg/l | |
| 10915 | 2378-TCDD | 1746-01-6 | 0.274 | U | 0.274 | 2.11 | 1 |
| 10915 | 12378-PeCDD | 40321-76-4 | 0.900 | JQ | 0.321 | 10.5 | 1 |
| 10915 | 123478-HxCDD | 39227-28-6 | 0.641 | JBQ | 0.246 | 10.5 | 1 |
| 10915 | 123678-HxCDD | 57653-85-7 | 0.948 | JBQ | 0.254 | 10.5 | 1 |
| 10915 | 123789-HxCDD | 19408-74-3 | 0.977 | JBQ | 0.258 | 10.5 | 1 |
| 10915 | 1234678-HpCDD | 35822-46-9 | 6.49 | JB | 0.365 | 10.5 | 1 |
| 10915 | OCDD | 3268-87-9 | 19.0 | JB | 0.355 | 21.1 | 1 |
| 10915 | 2378-TCDF | 51207-31-9 | 0.232 | U | 0.232 | 2.11 | 1 |
| 10915 | 12378-PeCDF | 57117-41-6 | 0.377 | JB | 0.206 | 10.5 | 1 |
| 10915 | 23478-PeCDF | 57117-31-4 | 0.681 | JB | 0.184 | 10.5 | 1 |
| 10915 | 123478-HxCDF | 70648-26-9 | 0.719 | JB | 0.173 | 10.5 | 1 |
| 10915 | 123678-HxCDF | 57117-44-9 | 0.635 | JB | 0.188 | 10.5 | 1 |
| 10915 | 123789-HxCDF | 72918-21-9 | 0.780 | JBQ | 0.187 | 10.5 | 1 |
| 10915 | 234678-HxCDF | 60851-34-5 | 0.742 | JBQ | 0.166 | 10.5 | 1 |
| 10915 | 1234678-HpCDF | 67562-39-4 | 2.69 | JB | 0.176 | 10.5 | 1 |
| 10915 | 1234789-HpCDF | 55673-89-7 | 0.683 | JB | 0.210 | 10.5 | 1 |
| 10915 | OCDF | 39001-02-0 | 3.79 | JBQ | 0.386 | 21.1 | 1 |

| **Labeled Compounds** | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 50 | 25 - 164 |
| 13C12-12378-PeCDD | 44 | 25 - 181 |
| 13C12-123478-HxCDD | 44 | 32 - 141 |
| 13C12-123678-HxCDD | 44 | 28 - 130 |
| 13C12-123789-HxCDD | 43 | 28 - 130 |
| 13C12-1234678-HpCDD | 39 | 23 - 140 |
| 13C12-OCDD | 30 | 17 - 157 |
| 13C12-2378-TCDF | 45 | 24 - 169 |
| 13C12-12378-PeCDF | 41 | 24 - 185 |
| 13C12-23478-PeCDF | 42 | 21 - 178 |
| 13C12-123478-HxCDF | 43 | 26 - 152 |
| 13C12-123678-HxCDF | 42 | 26 - 123 |
| 13C12-234678-HxCDF | 44 | 28 - 136 |
| 13C12-123789-HxCDF | 45 | 29 - 147 |
| 13C12-1234678-HpCDF | 38 | 28 - 143 |
| 13C12-1234789-HpCDF | 37 | 26 - 138 |
| 13C12-OCDF | 30 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** **EB-NBZ-SB-032912 Water**
**SSFL Area IV Collocated Soil Sampling**
**EB-NBZ-SB**

**LLI Sample # WW 6599866**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:00

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6507 SDG#: DX165-07EB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10915 | 10b Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12094001 | 04/04/2012 20:59 | Joseph D Anderson | 1 |
| 10914 | Dioxins/Furans in Water - SepF | EPA 1613B | 1 | 12094001 | 04/03/2012 06:00 | Ginelle L Haines | 1 |

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# Analysis Report



**Sample Description:** EB-NBZ-SS-032912 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SS

**LLI Sample # WW 6599867**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:45

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6508 SDG#: DX165-08EB

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | pg/l | | pg/l | pg/l | |
| 10915 | 2378-TCDD | 1746-01-6 | 0.258 | U | 0.258 | 2.20 | 1 |
| 10915 | 12378-PeCDD | 40321-76-4 | 0.341 | JQ | 0.313 | 11.0 | 1 |
| 10915 | 123478-HxCDD | 39227-28-6 | 0.222 | U | 0.222 | 11.0 | 1 |
| 10915 | 123678-HxCDD | 57653-85-7 | 0.569 | JBQ | 0.236 | 11.0 | 1 |
| 10915 | 123789-HxCDD | 19408-74-3 | 0.466 | JB | 0.233 | 11.0 | 1 |
| 10915 | 1234678-HpCDD | 35822-46-9 | 7.20 | JB | 0.331 | 11.0 | 1 |
| 10915 | OCDD | 3268-87-9 | 16.6 | JB | 0.318 | 22.0 | 1 |
| 10915 | 2378-TCDF | 51207-31-9 | 0.233 | U | 0.233 | 2.20 | 1 |
| 10915 | 12378-PeCDF | 57117-41-6 | 0.220 | JB | 0.187 | 11.0 | 1 |
| 10915 | 23478-PeCDF | 57117-31-4 | 0.700 | JBQ | 0.165 | 11.0 | 1 |
| 10915 | 123478-HxCDF | 70648-26-9 | 0.496 | JBQ | 0.150 | 11.0 | 1 |
| 10915 | 123678-HxCDF | 57117-44-9 | 0.314 | JB | 0.145 | 11.0 | 1 |
| 10915 | 123789-HxCDF | 72918-21-9 | 0.457 | JBQ | 0.152 | 11.0 | 1 |
| 10915 | 234678-HxCDF | 60851-34-5 | 0.320 | JBQ | 0.133 | 11.0 | 1 |
| 10915 | 1234678-HpCDF | 67562-39-4 | 2.11 | JB | 0.150 | 11.0 | 1 |
| 10915 | 1234789-HpCDF | 55673-89-7 | 0.358 | JBQ | 0.176 | 11.0 | 1 |
| 10915 | OCDF | 39001-02-0 | 1.08 | JBQ | 0.318 | 22.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 53 | 25 - 164 |
| 13C12-12378-PeCDD | 49 | 25 - 181 |
| 13C12-123478-HxCDD | 53 | 32 - 141 |
| 13C12-123678-HxCDD | 53 | 28 - 130 |
| 13C12-123789-HxCDD | 52 | 28 - 130 |
| 13C12-1234678-HpCDD | 47 | 23 - 140 |
| 13C12-OCDD | 36 | 17 - 157 |
| 13C12-2378-TCDF | 47 | 24 - 169 |
| 13C12-12378-PeCDF | 46 | 24 - 185 |
| 13C12-23478-PeCDF | 47 | 21 - 178 |
| 13C12-123478-HxCDF | 50 | 26 - 152 |
| 13C12-123678-HxCDF | 51 | 26 - 123 |
| 13C12-234678-HxCDF | 52 | 28 - 136 |
| 13C12-123789-HxCDF | 54 | 29 - 147 |
| 13C12-1234678-HpCDF | 46 | 28 - 143 |
| 13C12-1234789-HpCDF | 43 | 26 - 138 |
| 13C12-OCDF | 37 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B* *Detected in Method Blank*
*U* *Undetected*
*J* *Estimated concentration between Estimated Detection Limit and Minimum Level*
*E* *Exceeds calibration range*
*C* *Confirmed quantitation on secondary GC column*
*Q* *EMPC - Estimated Maximum Possible Concentration*
*F* *Interference is present*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** **EB-NBZ-SS-032912 Water**
**SSFL Area IV Collocated Soil Sampling**
**EB-NBZ-SS**

**LLI Sample # WW 6599867**
**LLI Group # 1299121**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:45

Submitted: 03/30/2012 09:30
Reported: 04/20/2012 07:04

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6508 SDG#: DX165-08EB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10915 | 10b Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12094001 | 04/04/2012 21:55 | Joseph D Anderson | 1 |
| 10914 | Dioxins/Furans in Water - SepF | EPA 1613B | 1 | 12094001 | 04/03/2012 06:00 | Ginelle L Haines | 1 |

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299121
Reported: 04/20/12 at 07:04 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12095162401B | Sample number(s): 6599858-6599863,6599865 | | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12094001 | Sample number(s): 6599866-6599867 | | | | | | | | | |
| 2378-TCDD | 0.269 | J | 0.167 | 2.00 | pg/l | 91 | | 67-158 | | |
| 12378-PeCDD | 0.205 | U | 0.205 | 10.0 | pg/l | 94 | | 70-142 | | |
| 123478-HxCDD | 0.221 | J | 0.140 | 10.0 | pg/l | 94 | | 70-164 | | |
| 123678-HxCDD | 0.438 | J | 0.155 | 10.0 | pg/l | 96 | | 76-134 | | |
| 123789-HxCDD | 0.508 | J | 0.144 | 10.0 | pg/l | 102 | | 64-162 | | |
| 1234678-HpCDD | 4.80 | J | 0.225 | 10.0 | pg/l | 101 | | 70-140 | | |
| OCDD | 14.6 | J | 0.172 | 20.0 | pg/l | 99 | | 78-144 | | |
| 2378-TCDF | 0.147 | U | 0.147 | 2.00 | pg/l | 94 | | 75-158 | | |
| 12378-PeCDF | 0.176 | J | 0.139 | 10.0 | pg/l | 102 | | 80-134 | | |
| 23478-PeCDF | 0.605 | J | 0.121 | 10.0 | pg/l | 97 | | 68-160 | | |
| 123478-HxCDF | 0.403 | J | 0.106 | 10.0 | pg/l | 102 | | 72-134 | | |
| 123678-HxCDF | 0.161 | J | 0.103 | 10.0 | pg/l | 100 | | 84-130 | | |
| 123789-HxCDF | 0.364 | J | 0.106 | 10.0 | pg/l | 100 | | 78-130 | | |
| 234678-HxCDF | 0.356 | J | 0.0928 | 10.0 | pg/l | 100 | | 70-156 | | |
| 1234678-HpCDF | 1.46 | J | 0.0984 | 10.0 | pg/l | 95 | | 82-122 | | |
| 1234789-HpCDF | 0.326 | J | 0.126 | 10.0 | pg/l | 99 | | 78-138 | | |
| OCDF | 1.40 | J | 0.218 | 20.0 | pg/l | 99 | | 63-170 | | |
| Batch number: 12101002 | Sample number(s): 6599858-6599863,6599865 | | | | | | | | | |
| 2378-TCDD | 0.0243 | U | 0.0243 | 1.00 | ng/kg | 93 | | 67-158 | | |
| 12378-PeCDD | 0.0488 | J | 0.0249 | 5.00 | ng/kg | 97 | | 70-142 | | |
| 123478-HxCDD | 0.0356 | J | 0.0185 | 5.00 | ng/kg | 97 | | 70-164 | | |
| 123678-HxCDD | 0.0560 | J | 0.0203 | 5.00 | ng/kg | 96 | | 76-134 | | |
| 123789-HxCDD | 0.0546 | J | 0.0192 | 5.00 | ng/kg | 104 | | 64-162 | | |
| 1234678-HpCDD | 0.375 | J | 0.0226 | 5.00 | ng/kg | 100 | | 70-140 | | |
| OCDD | 0.647 | J | 0.0180 | 10.0 | ng/kg | 97 | | 78-144 | | |
| 2378-TCDF | 0.0266 | J | 0.0245 | 1.00 | ng/kg | 103 | | 75-158 | | |
| 2378-TCDF-Conf | 0.0295 | U | 0.0295 | 1.00 | ng/kg | 103 | | 75-158 | | |
| 12378-PeCDF | 0.0238 | J | 0.0149 | 5.00 | ng/kg | 104 | | 80-134 | | |
| 23478-PeCDF | 0.0700 | J | 0.0147 | 5.00 | ng/kg | 101 | | 68-160 | | |
| 123478-HxCDF | 0.0457 | J | 0.0149 | 5.00 | ng/kg | 101 | | 72-134 | | |
| 123678-HxCDF | 0.0356 | J | 0.0132 | 5.00 | ng/kg | 101 | | 84-130 | | |
| 123789-HxCDF | 0.0769 | J | 0.0177 | 5.00 | ng/kg | 101 | | 78-130 | | |
| 234678-HxCDF | 0.0477 | J | 0.0133 | 5.00 | ng/kg | 98 | | 70-156 | | |
| 1234678-HpCDF | 0.130 | J | 0.00860 | 5.00 | ng/kg | 95 | | 82-122 | | |
| 1234789-HpCDF | 0.0593 | J | 0.0149 | 5.00 | ng/kg | 100 | | 78-138 | | |
| OCDF | 0.176 | J | 0.0265 | 10.0 | ng/kg | 99 | | 63-170 | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299121
Reported: 04/20/12 at 07:04 AM

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12095162401B | Sample number(s): 6599858-6599863,6599865 BKG: P599848 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 15.2 | 14.9 | 2 | 20 |
| Batch number: 12101002 | Sample number(s): 6599858-6599863,6599865 UNSPK: 6599861 | | | | | | | | |
| 2378-TCDD | 92 | 94 | 67-158 | 5 | 25 | | | | |
| 12378-PeCDD | 98 | 96 | 70-142 | 2 | 25 | | | | |
| 123478-HxCDD | 97 | 98 | 70-164 | 5 | 25 | | | | |
| 123678-HxCDD | 95 | 94 | 76-134 | 3 | 25 | | | | |
| 123789-HxCDD | 102 | 103 | 64-162 | 4 | 25 | | | | |
| 1234678-HpCDD | 99 | 108 | 70-140 | 7 | 25 | | | | |
| OCDD | 83 (2) | 127 (2) | 78-144 | 8 | 25 | | | | |
| 2378-TCDF | 103 | 102 | 75-158 | 3 | 25 | | | | |
| 2378-TCDF-Conf | 103 | 102 | 75-158 | 3 | 25 | | | | |
| 12378-PeCDF | 102 | 102 | 80-134 | 3 | 25 | | | | |
| 23478-PeCDF | 97 | 100 | 68-160 | 7 | 25 | | | | |
| 123478-HxCDF | 98 | 98 | 72-134 | 3 | 25 | | | | |
| 123678-HxCDF | 100 | 98 | 84-130 | 2 | 25 | | | | |
| 123789-HxCDF | 99 | 102 | 78-130 | 7 | 25 | | | | |
| 234678-HxCDF | 98 | 98 | 70-156 | 4 | 25 | | | | |
| 1234678-HpCDF | 92 | 95 | 82-122 | 7 | 25 | | | | |
| 1234789-HpCDF | 98 | 99 | 78-138 | 4 | 25 | | | | |
| OCDF | 99 | 101 | 63-170 | 5 | 25 | | | | |

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 12094001

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6599866 | 50 | 42 | 43 | 42 | 44 | 45 |
| 6599867 | 53 | 47 | 50 | 51 | 52 | 54 |
| Blank | 78 | 67 | 73 | 75 | 76 | 79 |
| OPR | 76 | 64 | 72 | 73 | 71 | 80 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6599866 | 38 | 37 | 30 | 44 | 44 | 44 |
| 6599867 | 46 | 43 | 37 | 49 | 53 | 53 |
| Blank | 71 | 64 | 57 | 71 | 77 | 76 |
| OPR | 67 | 65 | 59 | 69 | 74 | 74 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299121
Reported: 04/20/12 at 07:04 AM

## Surrogate Quality Control

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF | 13C12-2378-TCDF-Conf |
|---|---|---|---|---|---|---|
| 6599866 | 43 | 39 | 30 | 45 | 41 | |
| 6599867 | 52 | 47 | 36 | 47 | 46 | |
| Blank | 80 | 69 | 60 | 71 | 67 | |
| OPR | 73 | 71 | 60 | 66 | 65 | 66 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 | 22-152 |

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12101002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6599858 | 74 | 70 | 72 | 72 | 72 | 73 |
| 6599859 | 66 | 64 | 64 | 71 | 68 | 59 |
| 6599860 | 61 | 56 | 58 | 66 | 61 | 53 |
| 6599861 | 66 | 60 | 62 | 72 | 65 | 55 |
| 6599862 | 70 | 64 | 67 | 75 | 69 | 61 |
| 6599863 | 66 | 61 | 66 | 75 | 68 | 61 |
| 6599865 | 68 | 60 | 64 | 76 | 66 | 57 |
| Blank | 66 | 61 | 65 | 73 | 65 | 61 |
| MS | 70 | 64 | 67 | 75 | 69 | 61 |
| MSD | 66 | 61 | 66 | 75 | 68 | 61 |
| OPR | 75 | 68 | 73 | 84 | 78 | 71 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6599858 | 72 | 69 | 64 | 74 | 73 | 73 |
| 6599859 | 78 | 55 | 49 | 71 | 71 | 71 |
| 6599860 | 77 | 47 | 42 | 63 | 67 | 66 |
| 6599861 | 88 | 51 | 48 | 69 | 73 | 72 |
| 6599862 | 91 | 54 | 50 | 73 | 76 | 75 |
| 6599863 | 86 | 52 | 49 | 68 | 72 | 74 |
| 6599865 | 88 | 50 | 48 | 70 | 74 | 73 |
| Blank | 86 | 54 | 50 | 67 | 74 | 75 |
| MS | 91 | 54 | 50 | 73 | 76 | 75 |
| MSD | 86 | 52 | 49 | 68 | 72 | 74 |
| OPR | 104 | 63 | 60 | 78 | 88 | 86 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF | 13C12-2378-TCDF-Conf |
|---|---|---|---|---|---|---|
| 6599858 | 73 | 72 | 68 | | 70 | 71 |
| 6599859 | 72 | 69 | 63 | 59 | 70 | |
| 6599860 | 66 | 64 | 57 | 50 | 65 | |
| 6599861 | 73 | 71 | 67 | 56 | 68 | |
| 6599862 | 76 | 73 | 68 | 60 | 75 | |
| 6599863 | 73 | 71 | 66 | 57 | 71 | |
| 6599865 | 73 | 70 | 68 | 57 | 71 | |
| Blank | 73 | 68 | 64 | 55 | 66 | 69 |
| MS | 76 | 73 | 68 | 60 | 75 | 60 |
| MSD | 73 | 71 | 66 | 57 | 71 | 57 |
| OPR | 86 | 84 | 81 | 60 | 75 | 60 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299121
Reported: 04/20/12 at 07:04 AM

### Surrogate Quality Control

| | | | | | | |
|---|---|---|---|---|---|---|
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 | 24-169 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Qp# 1299121 Sample# 6599353-67

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | PRIMARY ANALYSES* | | SECONDARY ANALYSES** | | Other Instructions and Notes |
|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | Samplers Signatures: | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |

| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| SL-036-NBZ-SB-4.0-5.0 | 3.28.12 | 1103 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-036-NBZ-SB-7.5-8.5 | 3.28.12 | 1230 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| DUP-03-NBZ-QC-032812 | 3.28.12 | 1010 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-037-NBZ-SB-3.0-4.0 | 3.28.12 | 1512 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-039-NBZ-SB-2.-3.0 | 3.28.12 | 1435 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-040-NBZ-SS-0.0-0.5 | 3.28.12 | 0851 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-040-NBZ-SB-2.5-3.5MS | 3.28.12 | 1000 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | MS/MSD |
| SL-094-NBZ-SS-0.0.-0.5 | 3.28.12 | 1420 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-096-NBZ-SS-0.0.-0.5 | 3.28.12 | 0905 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-102-NBZ-SS-0.0.-0.5 | 3.27.12 | 1355 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-109-NBZ-SS-0.0.-0.5 | 3.27.12 | 1455 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-129-NBZ-SS-0.0.-0.5 | 3.27.12 | 1435 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-135-NBZ-SS-0.0.-0.5 | 3.28.12 | 1050 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-136-NBZ-SS-0.0.-0.5 | 3.28.12 | 1345 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-139-NBZ-SS-0.0.-0.5 | 3.28.12 | 1515 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-141-NBZ-SS-0.0.-0.5 | 3.28.12 | 1450 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-143-NBZ-SS-0.0.-0.5 | 3.28.12 | 0915 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-044-NBZ-SS-0.0-0.5 | 3.29.12 | 1020 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-091-NBZ-SS-0.0-0.5 | 3.29.12 | 1120 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-092-NBZ-SS-0.0-0.5MS | 3.29.12 | 1540 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | MS/MSD |
| SL-101-NBZ-SS-0.0-0.5 | 3.29.12 | 1145 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-103-NBZ-SS-0.0-0.5 | 3.29.12 | 1110 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-130-NBZ-SS-0.0-0.5 | 3.29.12 | 0940 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| DUP-05-NBZ-QC-032912 | 3.29.12 | 1017 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| EB-NBZ-SB-032912 | 3.29.12 | 1500 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SB-032912 | 3.29.12 | 1500 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| EB-NBZ-SS-032912 | 3.29.12 | 1545 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SS-032912 | 3.29.12 | 1545 | WATER | NONE | 1-250 mL glass | X | X | X | X | |

| Relinquished by: (*Signature*) | Date/Time | Received for Laboratory by: (*Signature*) | Laboratory: |
|---|---|---|---|
| | 3/29/2012 / 1630 | 3/30/12 0930 | Lancaster Laboratories, Inc. |
| **Received by: (*Signature*)** | **Date/Time** | **Airbill No.(s)** | |
| | | | |

**Nicole Maljovec**

**From:** Hartman, Pamela [HartmanPM@cdmsmith.com]
**Sent:** Friday, March 30, 2012 3:19 PM
**To:** Nicole Maljovec
**Subject:** RE: 3/29 COC: Missing 2 samples, 1 extra, and time discrepancies

**Attachments:** COC_LLI_03_29_12.xlsx

COC_LLI_03_29_12
.xlsx (26 KB)

Hi Nicole

Sorry for the mess! I am getting help next week, so hopefully things will improve

I do have SL-103 and SL-130-I'll send them today.

Yes, please add SL-091-I updated the COC

The times on the jars are correct. I don't know what I did with the COC to mess up the times-too much Copy+Paste I think

The samples for SL-141 and SL-143 should be ok. The times probably did just get flipped. Our crews are out hiking around in steep terrain, so I think the tiny details are getting missed!

Thanks!

Pam
Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

---

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Friday, March 30, 2012 11:03 AM
To: Hartman, Pamela
Subject: 3/29 COC: Missing 2 samples, 1 extra, and time discrepancies

Hi Pam,
We received the coolers and everything is in temp and intact. I have a few questions for you.

1. We did not receive SL-103-NBZ-SS-0.0-0.5 and SL-130-NBZ-SS-0.0-0.5.
Do you have these?

2. We did receive SL-091-NBZ-SB-4.0-5.0 (collected 3/29 @1020)but it isn't on the COC. Should we analyze this sample?

3. There were time discrepancies on 6 samples.
SL-096: 9:45 on labels, 9:05 on COC
SL-044: 13:11 on labels, 10:20 on COC
SL-091: 9:09 on labels, 11:20 on COC
Sl-092: 11:43 on labels, 15:40 on COC
SL-141: 9:15 on labels, 14:50 on COC
SL-143: 14:50 on labels, 9:15 on COC

Should we enter per the COC or label?

4. SL-141 and SL-143 have flipped times. Is there a chance that the bottles labeled SL-141 are really from 143 and vice versa? This has happened in the past with other clients, so I just want to make sure.

Thanks!
Nicole

acct#13013 Cp#1299171 Sample# 6599558-67

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSIS | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C.<br><br>Samplers Signatures: | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes<br>Amended COC NJM 4/9/12 |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-036-NBZ-SB-4.0-5.0 | 3.28.12 | 1103 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-036-NBZ-SB-7.5-8.5 | 3.28.12 | 1230 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| DUP-03-NBZ-QC-032812 | 3.28.12 | 1010 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-037-NBZ-SB-3.0-4.0 | 3.28.12 | 1512 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-039-NBZ-SB-2.-3.0 | 3.28.12 | 1435 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-040-NBZ-SS-0.0-0.5 | 3.28.12 | 0851 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-040-NBZ-SB-2.5-3.5MS | 3.28.12 | 1000 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | MS/MSD |
| SL-094-NBZ-SS-0.0.-0.5 | 3.28.12 | 1420 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-096-NBZ-SS-0.0.-0.5 | 3.28.12 | 0945 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-102-NBZ-SS-0.0.-0.5 | 3.27.12 | 1355 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-109-NBZ-SS-0.0.-0.5 | 3.27.12 | 1455 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-129-NBZ-SS-0.0.-0.5 | 3.27.12 | 1435 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-135-NBZ-SS-0.0.-0.5 | 3.28.12 | 1050 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-136-NBZ-SS-0.0.-0.5 | 3.28.12 | 1345 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-139-NBZ-SS-0.0.-0.5 | 3.28.12 | 1515 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-141-NBZ-SS-0.0.-0.5 | 3.28.12 | 0915 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-143-NBZ-SS-0.0.-0.5 | 3.28.12 | 1450 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-044-NBZ-SS-0.0-0.5 | 3.29.12 | 1311 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-091-NBZ-SS-0.0-0.5 | 3.29.12 | 0909 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-091-NBZ-SB-4.0-5.0 | 3.29.12 | 1020 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-092-NBZ-SS-0.0-0.5MS | 3.29.12 | 1143 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | MS/MSD |
| SL-101-NBZ-SS-0.0-0.5 | 3.29.12 | 1145 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| DUP-05-NBZ-QC-032912 | 3.29.12 | 1017 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| EB-NBZ-SB-032912 | 3.29.12 | 1500 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SB-032912 | 3.29.12 | 1500 | WATER | NONE | 1-250 mL glass | X | X | X | X | |
| EB-NBZ-SS-032912 | 3.29.12 | 1545 | WATER | NONE | 4-1 L Ambers | X | X | X | X | |
| EB-NBZ-SS-032912 | 3.29.12 | 1545 | WATER | NONE | 1-250 mL glass | X | X | X | X | |

| Relinquished by: (*Signature*) | Date/Time | Received for Laboratory by: (*Signature*) | Laboratory: |
|---|---|---|---|
| | 3/29/2012 / 1630 | | Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | Airbill No.(s) | |
| | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 24, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/04/2012
Group Number: 1299987
SDG: DX165
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-025-NBZ-SS-0.0-0.5 Soil | 6605181 |
| SL-026-NBZ-SS-0.0-0.5 Soil | 6605182 |
| SL-027-NBZ-SS-0.0-0.5 Soil | 6605183 |
| SL-028-NBZ-SS-0.0-0.5 Soil | 6605184 |
| SL-107-NBZ-SS-0.0-0.5 Soil | 6605185 |
| SL-111-NBZ-SS-0.0-0.5 Soil | 6605186 |
| SL-112-NBZ-SS-0.0-0.5 Soil | 6605187 |
| SL-113-NBZ-SS-0.0-0.5 Soil | 6605188 |
| SL-138-NBZ-SS-0.0-0.5 Soil | 6605189 |
| SL-194-NBZ-SS-0.0-0.5 Soil | 6605190 |
| SL-031-NBZ-SS-0.0-0.5 Soil | 6605191 |
| SL-033-NBZ-SS-0.0-0.5 Soil | 6605192 |
| SL-034-NBZ-SS-0.0-0.5 Soil | 6605193 |
| SL-108-NBZ-SS-0.0-0.5 Soil | 6605194 |
| SL-122-NBZ-SS-0.0-0.5 Soil | 6605195 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

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Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-025-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-NBZ-SS

**LLI Sample # SW 6605181**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 10:05

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6509 SDG#: DX165-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 8.5 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-025-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-NBZ-SS

**LLI Sample # SW 6605181**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 10:05

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6509 SDG#: DX165-09

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0340 | JQ | 0.0277 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.142 | JB | 0.0332 | 5.46 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.112 | JBQ | 0.0284 | 5.46 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.246 | JB | 0.0286 | 5.46 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.327 | JB | 0.0293 | 5.46 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.30 | JB | 0.0299 | 5.46 | 1 |
| 11031 | OCDD | 3268-87-9 | 17.8 | B | 0.0259 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0899 | JB | 0.0368 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.200 | JB | 0.0243 | 5.46 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.144 | JB | 0.0243 | 5.46 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.156 | JB | 0.0274 | 5.46 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.142 | JBQ | 0.0257 | 5.46 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.105 | JB | 0.0314 | 5.46 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.156 | JBQ | 0.0261 | 5.46 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.497 | JB | 0.0191 | 5.46 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0950 | JB | 0.0320 | 5.46 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.893 | JB | 0.0308 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 80 | 25 - 164 |
| 13C12-12378-PeCDD | 80 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 84 | 28 - 130 |
| 13C12-123789-HxCDD | 83 | 28 - 130 |
| 13C12-1234678-HpCDD | 81 | 23 - 140 |
| 13C12-OCDD | 77 | 17 - 157 |
| 13C12-2378-TCDF | 69 | 24 - 169 |
| 13C12-12378-PeCDF | 83 | 24 - 185 |
| 13C12-23478-PeCDF | 73 | 21 - 178 |
| 13C12-123478-HxCDF | 76 | 26 - 152 |
| 13C12-123678-HxCDF | 85 | 26 - 123 |
| 13C12-234678-HxCDF | 80 | 28 - 136 |
| 13C12-123789-HxCDF | 74 | 29 - 147 |
| 13C12-1234678-HpCDF | 97 | 28 - 143 |
| 13C12-1234789-HpCDF | 65 | 26 - 138 |
| 13C12-OCDF | 65 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-025-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-NBZ-SS

**LLI Sample # SW 6605181**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 10:05

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6509 SDG#: DX165-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-025-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-NBZ-SS

**LLI Sample # SW 6605181**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 10:05

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6509 SDG#: DX165-09

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/13/2012 02:56 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401B | 04/05/2012 18:33 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-026-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-NBZ-SS

**LLI Sample # SW 6605182**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 12:50

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6510 SDG#: DX165-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 7.4 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-026-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-NBZ-SS

**LLI Sample # SW 6605182**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 12:50

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6510 SDG#: DX165-10

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.100 | J | 0.0234 | 1.04 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.252 | JBQ | 0.0301 | 5.21 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.128 | JBQ | 0.0260 | 5.21 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.312 | JB | 0.0266 | 5.21 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.305 | JB | 0.0260 | 5.21 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.36 | JB | 0.0286 | 5.21 | 1 |
| 11031 | OCDD | 3268-87-9 | 15.4 | B | 0.0192 | 10.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.142 | JB | 0.0418 | 1.04 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.457 | JB | 0.0267 | 5.21 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.255 | JB | 0.0256 | 5.21 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.255 | JB | 0.0207 | 5.21 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.193 | JB | 0.0189 | 5.21 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.188 | JB | 0.0230 | 5.21 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.186 | JBQ | 0.0197 | 5.21 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.471 | JB | 0.0123 | 5.21 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.140 | JB | 0.0234 | 5.21 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.886 | JB | 0.0282 | 10.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 74 | 25 - 164 |
| 13C12-12378-PeCDD | 76 | 25 - 181 |
| 13C12-123478-HxCDD | 76 | 32 - 141 |
| 13C12-123678-HxCDD | 75 | 28 - 130 |
| 13C12-123789-HxCDD | 78 | 28 - 130 |
| 13C12-1234678-HpCDD | 76 | 23 - 140 |
| 13C12-OCDD | 76 | 17 - 157 |
| 13C12-2378-TCDF | 59 | 24 - 169 |
| 13C12-12378-PeCDF | 74 | 24 - 185 |
| 13C12-23478-PeCDF | 67 | 21 - 178 |
| 13C12-123478-HxCDF | 65 | 26 - 152 |
| 13C12-123678-HxCDF | 76 | 26 - 123 |
| 13C12-234678-HxCDF | 67 | 28 - 136 |
| 13C12-123789-HxCDF | 67 | 29 - 147 |
| 13C12-1234678-HpCDF | 95 | 28 - 143 |
| 13C12-1234789-HpCDF | 55 | 26 - 138 |
| 13C12-OCDF | 55 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-026-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-NBZ-SS

**LLI Sample # SW 6605182**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 12:50

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6510 SDG#: DX165-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-026-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-NBZ-SS

**LLI Sample # SW 6605182**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 12:50

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6510 SDG#: DX165-10

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/13/2012 06:55 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401B | 04/05/2012 18:33 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-027-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-NBZ-SS

**LLI Sample # SW 6605183**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 10:05

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6511 SDG#: DX165-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 14.3 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-027-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-NBZ-SS

**LLI Sample # SW 6605183**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 10:05

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6511 SDG#: DX165-11

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.106 | JQ | 0.0335 | 1.14 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.304 | JB | 0.0428 | 5.72 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.319 | JB | 0.0364 | 5.72 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.695 | JB | 0.0377 | 5.72 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.538 | JB | 0.0373 | 5.72 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 13.8 | B | 0.0498 | 5.72 | 1 |
| 11031 | OCDD | 3268-87-9 | 128 | B | 0.0275 | 11.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.336 | JB | 0.0547 | 1.14 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.611 | JB | 0.0326 | 5.72 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.391 | JB | 0.0352 | 5.72 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.410 | JB | 0.0292 | 5.72 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.337 | JBQ | 0.0263 | 5.72 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.221 | JB | 0.0345 | 5.72 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.338 | JB | 0.0278 | 5.72 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 2.08 | JB | 0.0169 | 5.72 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.302 | JB | 0.0298 | 5.72 | 1 |
| 11031 | OCDF | 39001-02-0 | 4.36 | JB | 0.0310 | 11.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 66 | 25 - 164 |
| 13C12-12378-PeCDD | 71 | 25 - 181 |
| 13C12-123478-HxCDD | 70 | 32 - 141 |
| 13C12-123678-HxCDD | 69 | 28 - 130 |
| 13C12-123789-HxCDD | 69 | 28 - 130 |
| 13C12-1234678-HpCDD | 72 | 23 - 140 |
| 13C12-OCDD | 69 | 17 - 157 |
| 13C12-2378-TCDF | 56 | 24 - 169 |
| 13C12-12378-PeCDF | 76 | 24 - 185 |
| 13C12-23478-PeCDF | 63 | 21 - 178 |
| 13C12-123478-HxCDF | 61 | 26 - 152 |
| 13C12-123678-HxCDF | 70 | 26 - 123 |
| 13C12-234678-HxCDF | 64 | 28 - 136 |
| 13C12-123789-HxCDF | 59 | 29 - 147 |
| 13C12-1234678-HpCDF | 88 | 28 - 143 |
| 13C12-1234789-HpCDF | 56 | 26 - 138 |
| 13C12-OCDF | 53 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-027-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-NBZ-SS

**LLI Sample # SW 6605183**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 10:05

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CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6511 SDG#: DX165-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-027-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-NBZ-SS

**LLI Sample # SW 6605183**
**LLI Group # 1299987**
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**Project Name: SSFL Area IV Collocated Soil Sampling**

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CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6511 SDG#: DX165-11

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/13/2012 07:52 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401B | 04/05/2012 18:33 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-028-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-NBZ-SS

**LLI Sample # SW 6605184**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 09:10

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6512 SDG#: DX165-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 9.4 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-028-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-NBZ-SS

**LLI Sample # SW 6605184**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 09:10

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6512 SDG#: DX165-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0567 JQ | 0.0274 | 1.07 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0535 JBQ | 0.0310 | 5.35 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0923 JBQ | 0.0274 | 5.35 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.210 JB | 0.0280 | 5.35 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.214 JB | 0.0278 | 5.35 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.20 JB | 0.0306 | 5.35 | 1 |
| 11031 | OCDD | 3268-87-9 | 25.3 B | 0.0209 | 10.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0609 JBQ | 0.0349 | 1.07 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.187 JBQ | 0.0208 | 5.35 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.181 JB | 0.0222 | 5.35 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.138 JB | 0.0213 | 5.35 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.116 JBQ | 0.0202 | 5.35 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.126 JB | 0.0265 | 5.35 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.128 JB | 0.0199 | 5.35 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.592 JB | 0.0169 | 5.35 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.123 JBQ | 0.0307 | 5.35 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.06 JB | 0.0308 | 10.7 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 63 | 25 - 164 |
| 13C12-12378-PeCDD | 67 | 25 - 181 |
| 13C12-123478-HxCDD | 70 | 32 - 141 |
| 13C12-123678-HxCDD | 71 | 28 - 130 |
| 13C12-123789-HxCDD | 70 | 28 - 130 |
| 13C12-1234678-HpCDD | 73 | 23 - 140 |
| 13C12-OCDD | 68 | 17 - 157 |
| 13C12-2378-TCDF | 54 | 24 - 169 |
| 13C12-12378-PeCDF | 70 | 24 - 185 |
| 13C12-23478-PeCDF | 60 | 21 - 178 |
| 13C12-123478-HxCDF | 64 | 26 - 152 |
| 13C12-123678-HxCDF | 71 | 26 - 123 |
| 13C12-234678-HxCDF | 67 | 28 - 136 |
| 13C12-123789-HxCDF | 58 | 29 - 147 |
| 13C12-1234678-HpCDF | 88 | 28 - 143 |
| 13C12-1234789-HpCDF | 55 | 26 - 138 |
| 13C12-OCDF | 53 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-028-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-NBZ-SS

**LLI Sample # SW 6605184**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 09:10

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6512 SDG#: DX165-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-028-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-NBZ-SS

**LLI Sample # SW 6605184**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 09:10

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6512 SDG#: DX165-12

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/13/2012 08:48 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401B | 04/05/2012 18:33 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-107-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-NBZ-SS

**LLI Sample # SW 6605185**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 13:58

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6513 SDG#: DX165-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 10.7 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-107-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-NBZ-SS

**LLI Sample # SW 6605185**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 13:58

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6513 SDG#: DX165-13

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0376 | J | 0.0282 | 1.07 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.149 | JB | 0.0317 | 5.37 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.116 | JBQ | 0.0280 | 5.37 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.270 | JB | 0.0288 | 5.37 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.312 | JB | 0.0289 | 5.37 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.98 | JB | 0.0296 | 5.37 | 1 |
| 11031 | OCDD | 3268-87-9 | 49.9 | B | 0.0240 | 10.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.271 | JB | 0.0671 | 1.07 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.464 | JB | 0.0398 | 5.37 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.253 | JB | 0.0385 | 5.37 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.293 | JB | 0.0236 | 5.37 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.216 | JB | 0.0217 | 5.37 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0861 | JBQ | 0.0295 | 5.37 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.278 | JB | 0.0218 | 5.37 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.04 | JB | 0.0213 | 5.37 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.163 | JBQ | 0.0387 | 5.37 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.93 | JB | 0.0270 | 10.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 67 | 25 - 164 |
| 13C12-12378-PeCDD | 70 | 25 - 181 |
| 13C12-123478-HxCDD | 73 | 32 - 141 |
| 13C12-123678-HxCDD | 74 | 28 - 130 |
| 13C12-123789-HxCDD | 72 | 28 - 130 |
| 13C12-1234678-HpCDD | 74 | 23 - 140 |
| 13C12-OCDD | 69 | 17 - 157 |
| 13C12-2378-TCDF | 57 | 24 - 169 |
| 13C12-12378-PeCDF | 70 | 24 - 185 |
| 13C12-23478-PeCDF | 61 | 21 - 178 |
| 13C12-123478-HxCDF | 65 | 26 - 152 |
| 13C12-123678-HxCDF | 74 | 26 - 123 |
| 13C12-234678-HxCDF | 67 | 28 - 136 |
| 13C12-123789-HxCDF | 59 | 29 - 147 |
| 13C12-1234678-HpCDF | 89 | 28 - 143 |
| 13C12-1234789-HpCDF | 54 | 26 - 138 |
| 13C12-OCDF | 53 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-107-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-NBZ-SS

**LLI Sample # SW 6605185**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 13:58

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6513 SDG#: DX165-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-107-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-NBZ-SS

**LLI Sample # SW 6605185**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 13:58

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6513 SDG#: DX165-13

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/13/2012 09:45 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401A | 04/17/2012 11:46 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-111-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-NBZ-SS

**LLI Sample # SW 6605186**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 13:33

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6514 SDG#: DX165-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 20.3 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-111-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-NBZ-SS

**LLI Sample # SW 6605186**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 13:33

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6514 SDG#: DX165-14

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0319 | U | 0.0319 | 1.25 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.227 | JB | 0.0410 | 6.24 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.207 | JBQ | 0.0329 | 6.24 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.758 | JB | 0.0350 | 6.24 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.883 | JB | 0.0327 | 6.24 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 6.47 | B | 0.0319 | 6.24 | 1 |
| 11031 | OCDD | 3268-87-9 | 46.0 | B | 0.0233 | 12.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.596 | JB | 0.0846 | 1.25 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.744 | JB | 0.0542 | 6.24 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.673 | JB | 0.0523 | 6.24 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.558 | JB | 0.0291 | 6.24 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.424 | JB | 0.0272 | 6.24 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.190 | JB | 0.0329 | 6.24 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.569 | JB | 0.0261 | 6.24 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.87 | JB | 0.0206 | 6.24 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.238 | JB | 0.0348 | 6.24 | 1 |
| 11031 | OCDF | 39001-02-0 | 3.57 | JB | 0.0267 | 12.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 69 | 25 - 164 |
| 13C12-12378-PeCDD | 70 | 25 - 181 |
| 13C12-123478-HxCDD | 74 | 32 - 141 |
| 13C12-123678-HxCDD | 74 | 28 - 130 |
| 13C12-123789-HxCDD | 74 | 28 - 130 |
| 13C12-1234678-HpCDD | 74 | 23 - 140 |
| 13C12-OCDD | 70 | 17 - 157 |
| 13C12-2378-TCDF | 58 | 24 - 169 |
| 13C12-12378-PeCDF | 69 | 24 - 185 |
| 13C12-23478-PeCDF | 63 | 21 - 178 |
| 13C12-123478-HxCDF | 65 | 26 - 152 |
| 13C12-123678-HxCDF | 73 | 26 - 123 |
| 13C12-234678-HxCDF | 69 | 28 - 136 |
| 13C12-123789-HxCDF | 65 | 29 - 147 |
| 13C12-1234678-HpCDF | 88 | 28 - 143 |
| 13C12-1234789-HpCDF | 57 | 26 - 138 |
| 13C12-OCDF | 55 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-111-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-NBZ-SS

**LLI Sample # SW 6605186**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 13:33

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6514 SDG#: DX165-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-111-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-NBZ-SS

**LLI Sample # SW 6605186**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 13:33

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6514 SDG#: DX165-14

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/13/2012 10:41 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401A | 04/17/2012 11:46 | William C Schwebel | 1 |

eurofins | Lancaster Laboratories

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# Analysis Report



**Sample Description:** SL-112-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-NBZ-SS

**LLI Sample # SW 6605187**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 10:40

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6515 SDG#: DX165-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 9.0 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-112-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-NBZ-SS

**LLI Sample # SW 6605187**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 10:40

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6515 SDG#: DX165-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0445 J | 0.0275 | 1.07 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0675 JB | 0.0303 | 5.33 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0671 JBQ | 0.0259 | 5.33 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.122 JBQ | 0.0270 | 5.33 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.146 JBQ | 0.0266 | 5.33 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.74 JB | 0.0285 | 5.33 | 1 |
| 11031 | OCDD | 3268-87-9 | 11.7 B | 0.0197 | 10.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.105 JB | 0.0424 | 1.07 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.168 JBQ | 0.0259 | 5.33 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.117 JBQ | 0.0254 | 5.33 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.161 JB | 0.0223 | 5.33 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.122 JB | 0.0196 | 5.33 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0498 JBQ | 0.0251 | 5.33 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.157 JBQ | 0.0191 | 5.33 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.449 JB | 0.0112 | 5.33 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0773 JB | 0.0226 | 5.33 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.815 JB | 0.0285 | 10.7 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 70 | 25 - 164 |
| 13C12-12378-PeCDD | 73 | 25 - 181 |
| 13C12-123478-HxCDD | 76 | 32 - 141 |
| 13C12-123678-HxCDD | 76 | 28 - 130 |
| 13C12-123789-HxCDD | 76 | 28 - 130 |
| 13C12-1234678-HpCDD | 78 | 23 - 140 |
| 13C12-OCDD | 75 | 17 - 157 |
| 13C12-2378-TCDF | 56 | 24 - 169 |
| 13C12-12378-PeCDF | 70 | 24 - 185 |
| 13C12-23478-PeCDF | 62 | 21 - 178 |
| 13C12-123478-HxCDF | 63 | 26 - 152 |
| 13C12-123678-HxCDF | 74 | 26 - 123 |
| 13C12-234678-HxCDF | 69 | 28 - 136 |
| 13C12-123789-HxCDF | 62 | 29 - 147 |
| 13C12-1234678-HpCDF | 97 | 28 - 143 |
| 13C12-1234789-HpCDF | 57 | 26 - 138 |
| 13C12-OCDF | 55 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-112-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-NBZ-SS

**LLI Sample # SW 6605187**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 10:40

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6515 SDG#: DX165-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-112-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-NBZ-SS

**LLI Sample # SW 6605187**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 10:40

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6515 SDG#: DX165-15

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/13/2012 11:38 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401A | 04/17/2012 11:46 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-113-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-NBZ-SS

**LLI Sample # SW 6605188**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 09:29

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6516 SDG#: DX165-16

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.5 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-113-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-NBZ-SS

**LLI Sample # SW 6605188**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 09:29

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6516 SDG#: DX165-16

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0236 U | 0.0236 | 1.08 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0663 JBQ | 0.0270 | 5.38 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0412 JBQ | 0.0213 | 5.38 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.194 JBQ | 0.0224 | 5.38 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.277 JB | 0.0224 | 5.38 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.62 JB | 0.0187 | 5.38 | 1 |
| 11031 | OCDD | 3268-87-9 | 9.20 JB | 0.0157 | 10.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0743 JB | 0.0419 | 1.08 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.170 JB | 0.0246 | 5.38 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.138 JBQ | 0.0239 | 5.38 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.153 JB | 0.0174 | 5.38 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0997 JB | 0.0160 | 5.38 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0814 JB | 0.0226 | 5.38 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.128 JB | 0.0160 | 5.38 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.454 JB | 0.0109 | 5.38 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0813 JB | 0.0207 | 5.38 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.709 JB | 0.0215 | 10.8 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 69 | 25 - 164 |
| 13C12-12378-PeCDD | 77 | 25 - 181 |
| 13C12-123478-HxCDD | 78 | 32 - 141 |
| 13C12-123678-HxCDD | 77 | 28 - 130 |
| 13C12-123789-HxCDD | 75 | 28 - 130 |
| 13C12-1234678-HpCDD | 79 | 23 - 140 |
| 13C12-OCDD | 75 | 17 - 157 |
| 13C12-2378-TCDF | 57 | 24 - 169 |
| 13C12-12378-PeCDF | 73 | 24 - 185 |
| 13C12-23478-PeCDF | 65 | 21 - 178 |
| 13C12-123478-HxCDF | 65 | 26 - 152 |
| 13C12-123678-HxCDF | 76 | 26 - 123 |
| 13C12-234678-HxCDF | 70 | 28 - 136 |
| 13C12-123789-HxCDF | 59 | 29 - 147 |
| 13C12-1234678-HpCDF | 99 | 28 - 143 |
| 13C12-1234789-HpCDF | 57 | 26 - 138 |
| 13C12-OCDF | 55 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-113-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-NBZ-SS

**LLI Sample # SW 6605188**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 09:29

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6516 SDG#: DX165-16

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-113-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-NBZ-SS

**LLI Sample # SW 6605188**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 09:29

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6516 SDG#: DX165-16

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/13/2012 12:35 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401A | 04/17/2012 11:46 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-138-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-NBZ-SS

**LLI Sample # SW 6605189**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 10:11

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6517 SDG#: DX165-17

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.5 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-138-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-NBZ-SS

**LLI Sample # SW 6605189**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 10:11

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6517 SDG#: DX165-17

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0353 JQ | 0.0252 | 1.12 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0665 JB | 0.0286 | 5.59 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0352 JBQ | 0.0231 | 5.59 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.142 JB | 0.0232 | 5.59 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.239 JBQ | 0.0245 | 5.59 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.04 JB | 0.0268 | 5.59 | 1 |
| 11031 | OCDD | 3268-87-9 | 5.12 JB | 0.0179 | 11.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.135 JB | 0.0432 | 1.12 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.129 JB | 0.0277 | 5.59 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.131 JBQ | 0.0270 | 5.59 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.103 JBQ | 0.0181 | 5.59 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.106 JB | 0.0173 | 5.59 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0740 JB | 0.0219 | 5.59 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.137 JBQ | 0.0165 | 5.59 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.333 JBQ | 0.0108 | 5.59 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0834 JB | 0.0193 | 5.59 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.554 JB | 0.0296 | 11.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 70 | 25 - 164 |
| 13C12-12378-PeCDD | 72 | 25 - 181 |
| 13C12-123478-HxCDD | 77 | 32 - 141 |
| 13C12-123678-HxCDD | 77 | 28 - 130 |
| 13C12-123789-HxCDD | 74 | 28 - 130 |
| 13C12-1234678-HpCDD | 79 | 23 - 140 |
| 13C12-OCDD | 75 | 17 - 157 |
| 13C12-2378-TCDF | 58 | 24 - 169 |
| 13C12-12378-PeCDF | 69 | 24 - 185 |
| 13C12-23478-PeCDF | 62 | 21 - 178 |
| 13C12-123478-HxCDF | 66 | 26 - 152 |
| 13C12-123678-HxCDF | 73 | 26 - 123 |
| 13C12-234678-HxCDF | 71 | 28 - 136 |
| 13C12-123789-HxCDF | 64 | 29 - 147 |
| 13C12-1234678-HpCDF | 93 | 28 - 143 |
| 13C12-1234789-HpCDF | 59 | 26 - 138 |
| 13C12-OCDF | 58 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-138-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-NBZ-SS

**LLI Sample # SW 6605189**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 10:11

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6517 SDG#: DX165-17

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-138-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-NBZ-SS

**LLI Sample # SW 6605189**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 10:11

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6517 SDG#: DX165-17

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/13/2012 13:31 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401A | 04/17/2012 11:46 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

eurofins | Lancaster Laboratories

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# Analysis Report



**Sample Description:** SL-194-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-NBZ-SS

**LLI Sample # SW 6605190**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 14:40

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6518 SDG#: DX165-18

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.7 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-194-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-NBZ-SS

**LLI Sample # SW 6605190**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 14:40

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6518 SDG#: DX165-18

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0352 | U | 0.0352 | 1.12 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.272 | JB | 0.0435 | 5.62 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.172 | JB | 0.0393 | 5.62 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.659 | JB | 0.0395 | 5.62 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.516 | JB | 0.0413 | 5.62 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 12.7 | B | 0.0450 | 5.62 | 1 |
| 11031 | OCDD | 3268-87-9 | 179 | B | 0.0341 | 11.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.376 | JB | 0.0857 | 1.12 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 2.42 | JB | 0.0507 | 5.62 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.222 | JB | 0.0465 | 5.62 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.536 | JB | 0.0282 | 5.62 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.348 | JB | 0.0276 | 5.62 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.162 | JB | 0.0317 | 5.62 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.330 | JB | 0.0258 | 5.62 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.96 | JB | 0.0211 | 5.62 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.159 | JBQ | 0.0305 | 5.62 | 1 |
| 11031 | OCDF | 39001-02-0 | 5.43 | JB | 0.0267 | 11.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 77 | 25 - 164 |
| 13C12-12378-PeCDD | 82 | 25 - 181 |
| 13C12-123478-HxCDD | 85 | 32 - 141 |
| 13C12-123678-HxCDD | 88 | 28 - 130 |
| 13C12-123789-HxCDD | 84 | 28 - 130 |
| 13C12-1234678-HpCDD | 91 | 23 - 140 |
| 13C12-OCDD | 90 | 17 - 157 |
| 13C12-2378-TCDF | 69 | 24 - 169 |
| 13C12-12378-PeCDF | 80 | 24 - 185 |
| 13C12-23478-PeCDF | 78 | 21 - 178 |
| 13C12-123478-HxCDF | 78 | 26 - 152 |
| 13C12-123678-HxCDF | 86 | 26 - 123 |
| 13C12-234678-HxCDF | 84 | 28 - 136 |
| 13C12-123789-HxCDF | 83 | 29 - 147 |
| 13C12-1234678-HpCDF | 98 | 28 - 143 |
| 13C12-1234789-HpCDF | 76 | 26 - 138 |
| 13C12-OCDF | 77 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-194-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-NBZ-SS

**LLI Sample # SW 6605190**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 14:40

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6518 SDG#: DX165-18

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-194-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-NBZ-SS

**LLI Sample # SW 6605190**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/02/2012 14:40

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6518 SDG#: DX165-18

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/13/2012 14:28 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401A | 04/17/2012 11:46 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-031-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-NBZ-SS

**LLI Sample # SW 6605191**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 09:30

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6519 SDG#: DX165-19

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 7.8 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-031-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-NBZ-SS

**LLI Sample # SW 6605191**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 09:30

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6519 SDG#: DX165-19

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0293 | U | 0.0293 | 1.08 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.217 | JB | 0.0333 | 5.40 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.159 | JB | 0.0265 | 5.40 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.426 | JB | 0.0277 | 5.40 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.441 | JB | 0.0269 | 5.40 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 5.79 | B | 0.0292 | 5.40 | 1 |
| 11031 | OCDD | 3268-87-9 | 43.7 | B | 0.0198 | 10.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.275 | JBQ | 0.0472 | 1.08 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.536 | JB | 0.0311 | 5.40 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.335 | JB | 0.0290 | 5.40 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.303 | JB | 0.0204 | 5.40 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.246 | JB | 0.0201 | 5.40 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0980 | JBQ | 0.0234 | 5.40 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.231 | JB | 0.0184 | 5.40 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.18 | JB | 0.0169 | 5.40 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.122 | JB | 0.0249 | 5.40 | 1 |
| 11031 | OCDF | 39001-02-0 | 2.64 | JB | 0.0217 | 10.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 67 | 25 - 164 |
| 13C12-12378-PeCDD | 71 | 25 - 181 |
| 13C12-123478-HxCDD | 71 | 32 - 141 |
| 13C12-123678-HxCDD | 70 | 28 - 130 |
| 13C12-123789-HxCDD | 69 | 28 - 130 |
| 13C12-1234678-HpCDD | 72 | 23 - 140 |
| 13C12-OCDD | 69 | 17 - 157 |
| 13C12-2378-TCDF | 58 | 24 - 169 |
| 13C12-12378-PeCDF | 70 | 24 - 185 |
| 13C12-23478-PeCDF | 65 | 21 - 178 |
| 13C12-123478-HxCDF | 65 | 26 - 152 |
| 13C12-123678-HxCDF | 70 | 26 - 123 |
| 13C12-234678-HxCDF | 67 | 28 - 136 |
| 13C12-123789-HxCDF | 65 | 29 - 147 |
| 13C12-1234678-HpCDF | 78 | 28 - 143 |
| 13C12-1234789-HpCDF | 60 | 26 - 138 |
| 13C12-OCDF | 62 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-031-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-NBZ-SS

**LLI Sample # SW 6605191**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 09:30

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6519 SDG#: DX165-19

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-031-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-NBZ-SS

**LLI Sample # SW 6605191**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 09:30

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6519 SDG#: DX165-19

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/13/2012 15:24 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401B | 04/05/2012 18:33 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-033-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-NBZ-SS

**LLI Sample # SW 6605192**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 10:30

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6520 SDG#: DX165-20

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 8.6 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-033-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-NBZ-SS

**LLI Sample # SW 6605192**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 10:30

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6520 SDG#: DX165-20

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.280 | J | 0.0417 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.242 | JBQ | 0.0491 | 5.43 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0968 | JB | 0.0472 | 5.43 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.215 | JB | 0.0521 | 5.43 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.269 | JB | 0.0443 | 5.43 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.27 | JB | 0.0406 | 5.43 | 1 |
| 11031 | OCDD | 3268-87-9 | 14.9 | B | 0.0463 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.176 | J | 0.0548 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.332 | JB | 0.0359 | 5.43 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.386 | JB | 0.0360 | 5.43 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.160 | JB | 0.0349 | 5.43 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.115 | JB | 0.0323 | 5.43 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.114 | JB | 0.0392 | 5.43 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.131 | JB | 0.0338 | 5.43 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.588 | JB | 0.0283 | 5.43 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0798 | JB | 0.0430 | 5.43 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.12 | JB | 0.0392 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 64 | 25 - 164 |
| 13C12-12378-PeCDD | 68 | 25 - 181 |
| 13C12-123478-HxCDD | 67 | 32 - 141 |
| 13C12-123678-HxCDD | 68 | 28 - 130 |
| 13C12-123789-HxCDD | 74 | 28 - 130 |
| 13C12-1234678-HpCDD | 66 | 23 - 140 |
| 13C12-OCDD | 60 | 17 - 157 |
| 13C12-2378-TCDF | 66 | 24 - 169 |
| 13C12-12378-PeCDF | 69 | 24 - 185 |
| 13C12-23478-PeCDF | 63 | 21 - 178 |
| 13C12-123478-HxCDF | 68 | 26 - 152 |
| 13C12-123678-HxCDF | 72 | 26 - 123 |
| 13C12-234678-HxCDF | 69 | 28 - 136 |
| 13C12-123789-HxCDF | 64 | 29 - 147 |
| 13C12-1234678-HpCDF | 80 | 28 - 143 |
| 13C12-1234789-HpCDF | 57 | 26 - 138 |
| 13C12-OCDF | 53 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-033-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-NBZ-SS

**LLI Sample # SW 6605192**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 10:30

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6520 SDG#: DX165-20

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-033-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-NBZ-SS

**LLI Sample # SW 6605192**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 10:30

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6520 SDG#: DX165-20

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 10:58 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401B | 04/05/2012 18:33 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-034-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-NBZ-SS

**LLI Sample # SW 6605193**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 11:22

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6521 SDG#: DX165-21

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 16.2 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-034-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-NBZ-SS

**LLI Sample # SW 6605193**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 11:22

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6521 SDG#: DX165-21

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0657 | J | 0.0418 | 1.19 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.222 | JB | 0.0502 | 5.96 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.149 | JB | 0.0409 | 5.96 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 1.28 | JB | 0.0413 | 5.96 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 1.74 | JB | 0.0424 | 5.96 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 4.83 | JB | 0.0375 | 5.96 | 1 |
| 11031 | OCDD | 3268-87-9 | 38.8 | B | 0.0249 | 11.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.353 | JB | 0.0884 | 1.19 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.448 | JB | 0.0500 | 5.96 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.334 | JB | 0.0456 | 5.96 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.305 | JB | 0.0305 | 5.96 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.339 | JB | 0.0289 | 5.96 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.260 | JBQ | 0.0334 | 5.96 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.313 | JB | 0.0298 | 5.96 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.17 | JB | 0.0208 | 5.96 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.203 | JB | 0.0335 | 5.96 | 1 |
| 11031 | OCDF | 39001-02-0 | 2.06 | JB | 0.0341 | 11.9 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 59 | 25 - 164 |
| 13C12-12378-PeCDD | 66 | 25 - 181 |
| 13C12-123478-HxCDD | 64 | 32 - 141 |
| 13C12-123678-HxCDD | 65 | 28 - 130 |
| 13C12-123789-HxCDD | 64 | 28 - 130 |
| 13C12-1234678-HpCDD | 69 | 23 - 140 |
| 13C12-OCDD | 67 | 17 - 157 |
| 13C12-2378-TCDF | 50 | 24 - 169 |
| 13C12-12378-PeCDF | 62 | 24 - 185 |
| 13C12-23478-PeCDF | 58 | 21 - 178 |
| 13C12-123478-HxCDF | 56 | 26 - 152 |
| 13C12-123678-HxCDF | 63 | 26 - 123 |
| 13C12-234678-HxCDF | 59 | 28 - 136 |
| 13C12-123789-HxCDF | 60 | 29 - 147 |
| 13C12-1234678-HpCDF | 74 | 28 - 143 |
| 13C12-1234789-HpCDF | 54 | 26 - 138 |
| 13C12-OCDF | 52 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-034-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-NBZ-SS

**LLI Sample # SW 6605193**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 11:22

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6521 SDG#: DX165-21

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-034-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-NBZ-SS

**LLI Sample # SW 6605193**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 11:22

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6521 SDG#: DX165-21

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/13/2012 21:27 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12096162401B | 04/05/2012 18:33 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-108-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-NBZ-SS

**LLI Sample # SW 6605194**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 09:45

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6522 SDG#: DX165-22

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 5.4 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-108-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-NBZ-SS

**LLI Sample # SW 6605194**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 09:45

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6522 SDG#: DX165-22

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0463 JQ | 0.0225 | 1.06 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0227 U | 0.0227 | 5.29 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0296 JBQ | 0.0173 | 5.29 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0336 JBQ | 0.0183 | 5.29 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0643 JB | 0.0180 | 5.29 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.604 JB | 0.0190 | 5.29 | 1 |
| 11031 | OCDD | 3268-87-9 | 2.28 JB | 0.0162 | 10.6 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0526 JB | 0.0278 | 1.06 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0767 JBQ | 0.0182 | 5.29 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0624 JB | 0.0180 | 5.29 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0629 JB | 0.0134 | 5.29 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0334 JB | 0.0133 | 5.29 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0301 JB | 0.0144 | 5.29 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0123 U | 0.0123 | 5.29 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.164 JB | 0.0104 | 5.29 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0691 JBQ | 0.0148 | 5.29 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.217 JB | 0.0212 | 10.6 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 62 | 25 - 164 |
| 13C12-12378-PeCDD | 62 | 25 - 181 |
| 13C12-123478-HxCDD | 66 | 32 - 141 |
| 13C12-123678-HxCDD | 66 | 28 - 130 |
| 13C12-123789-HxCDD | 65 | 28 - 130 |
| 13C12-1234678-HpCDD | 67 | 23 - 140 |
| 13C12-OCDD | 61 | 17 - 157 |
| 13C12-2378-TCDF | 50 | 24 - 169 |
| 13C12-12378-PeCDF | 59 | 24 - 185 |
| 13C12-23478-PeCDF | 55 | 21 - 178 |
| 13C12-123478-HxCDF | 60 | 26 - 152 |
| 13C12-123678-HxCDF | 64 | 26 - 123 |
| 13C12-234678-HxCDF | 63 | 28 - 136 |
| 13C12-123789-HxCDF | 64 | 29 - 147 |
| 13C12-1234678-HpCDF | 72 | 28 - 143 |
| 13C12-1234789-HpCDF | 55 | 26 - 138 |
| 13C12-OCDF | 54 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-108-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-NBZ-SS

**LLI Sample # SW 6605194**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 09:45

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6522 SDG#: DX165-22

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-108-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-NBZ-SS

**LLI Sample # SW 6605194**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 09:45

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6522 SDG#: DX165-22

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/13/2012 22:24 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401A | 04/17/2012 11:46 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-122-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-NBZ-SS

**LLI Sample # SW 6605195**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 11:03

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6523 SDG#: DX165-23*

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 13.1 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-122-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-NBZ-SS

**LLI Sample # SW 6605195**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 11:03

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6523 SDG#: DX165-23*

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0305 | JQ | 0.0296 | 1.14 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0895 | JBQ | 0.0311 | 5.69 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0818 | JB | 0.0259 | 5.69 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.166 | JBQ | 0.0287 | 5.69 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.154 | JB | 0.0266 | 5.69 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.24 | JB | 0.0250 | 5.69 | 1 |
| 11031 | OCDD | 3268-87-9 | 13.3 | B | 0.0184 | 11.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.148 | JB | 0.0476 | 1.14 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.317 | JB | 0.0295 | 5.69 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.235 | JB | 0.0287 | 5.69 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.196 | JBQ | 0.0214 | 5.69 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.140 | JB | 0.0189 | 5.69 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.107 | JB | 0.0238 | 5.69 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.176 | JB | 0.0189 | 5.69 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.648 | JB | 0.0147 | 5.69 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.106 | JBQ | 0.0231 | 5.69 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.11 | JB | 0.0236 | 11.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 61 | 25 - 164 |
| 13C12-12378-PeCDD | 64 | 25 - 181 |
| 13C12-123478-HxCDD | 68 | 32 - 141 |
| 13C12-123678-HxCDD | 67 | 28 - 130 |
| 13C12-123789-HxCDD | 66 | 28 - 130 |
| 13C12-1234678-HpCDD | 68 | 23 - 140 |
| 13C12-OCDD | 66 | 17 - 157 |
| 13C12-2378-TCDF | 51 | 24 - 169 |
| 13C12-12378-PeCDF | 60 | 24 - 185 |
| 13C12-23478-PeCDF | 56 | 21 - 178 |
| 13C12-123478-HxCDF | 60 | 26 - 152 |
| 13C12-123678-HxCDF | 66 | 26 - 123 |
| 13C12-234678-HxCDF | 62 | 28 - 136 |
| 13C12-123789-HxCDF | 57 | 29 - 147 |
| 13C12-1234678-HpCDF | 78 | 28 - 143 |
| 13C12-1234789-HpCDF | 54 | 26 - 138 |
| 13C12-OCDF | 55 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-122-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-NBZ-SS

**LLI Sample # SW 6605195**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 11:03

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6523 SDG#: DX165-23*

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-122-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-NBZ-SS

**LLI Sample # SW 6605195**
**LLI Group # 1299987**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 11:03

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 11:58

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D6523 SDG#: DX165-23*

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101002 | 04/13/2012 23:20 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12101002 | 04/10/2012 13:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401A | 04/17/2012 11:46 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299987
Reported: 04/24/12 at 11:58 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12096162401B | Sample number(s): 6605181-6605184,6605191-6605193 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Batch number: 12108162401A | Sample number(s): 6605185-6605190,6605194-6605195 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12101002 | Sample number(s): 6605181-6605191,6605193-6605195 | | | | | | | | |
| 2378-TCDD | 0.0243 U | 0.0243 | 1.00 | ng/kg | 93 | | 67-158 | | |
| 12378-PeCDD | 0.0488 J | 0.0249 | 5.00 | ng/kg | 97 | | 70-142 | | |
| 123478-HxCDD | 0.0356 J | 0.0185 | 5.00 | ng/kg | 97 | | 70-164 | | |
| 123678-HxCDD | 0.0560 J | 0.0203 | 5.00 | ng/kg | 96 | | 76-134 | | |
| 123789-HxCDD | 0.0546 J | 0.0192 | 5.00 | ng/kg | 104 | | 64-162 | | |
| 1234678-HpCDD | 0.375 J | 0.0226 | 5.00 | ng/kg | 100 | | 70-140 | | |
| OCDD | 0.647 J | 0.0180 | 10.0 | ng/kg | 97 | | 78-144 | | |
| 2378-TCDF | 0.0266 J | 0.0245 | 1.00 | ng/kg | 103 | | 75-158 | | |
| 12378-PeCDF | 0.0238 J | 0.0149 | 5.00 | ng/kg | 104 | | 80-134 | | |
| 23478-PeCDF | 0.0700 J | 0.0147 | 5.00 | ng/kg | 101 | | 68-160 | | |
| 123478-HxCDF | 0.0457 J | 0.0149 | 5.00 | ng/kg | 101 | | 72-134 | | |
| 123678-HxCDF | 0.0356 J | 0.0132 | 5.00 | ng/kg | 101 | | 84-130 | | |
| 123789-HxCDF | 0.0769 J | 0.0177 | 5.00 | ng/kg | 101 | | 78-130 | | |
| 234678-HxCDF | 0.0477 J | 0.0133 | 5.00 | ng/kg | 98 | | 70-156 | | |
| 1234678-HpCDF | 0.130 J | 0.00860 | 5.00 | ng/kg | 95 | | 82-122 | | |
| 1234789-HpCDF | 0.0593 J | 0.0149 | 5.00 | ng/kg | 100 | | 78-138 | | |
| OCDF | 0.176 J | 0.0265 | 10.0 | ng/kg | 99 | | 63-170 | | |
| Batch number: 12103002 | Sample number(s): 6605192 | | | | | | | | |
| 2378-TCDD | 0.0486 U | 0.0486 | 1.00 | ng/kg | 87 | | 67-158 | | |
| 12378-PeCDD | 0.0493 J | 0.0246 | 5.00 | ng/kg | 94 | | 70-142 | | |
| 123478-HxCDD | 0.0299 J | 0.0290 | 5.00 | ng/kg | 96 | | 70-164 | | |
| 123678-HxCDD | 0.104 J | 0.0292 | 5.00 | ng/kg | 92 | | 76-134 | | |
| 123789-HxCDD | 0.0587 J | 0.0287 | 5.00 | ng/kg | 101 | | 64-162 | | |
| 1234678-HpCDD | 0.498 J | 0.0286 | 5.00 | ng/kg | 94 | | 70-140 | | |
| OCDD | 0.514 J | 0.0384 | 10.0 | ng/kg | 96 | | 78-144 | | |
| 2378-TCDF | 0.0342 U | 0.0342 | 1.00 | ng/kg | 91 | | 75-158 | | |
| 12378-PeCDF | 0.0922 J | 0.0234 | 5.00 | ng/kg | 95 | | 80-134 | | |
| 23478-PeCDF | 0.131 J | 0.0231 | 5.00 | ng/kg | 92 | | 68-160 | | |
| 123478-HxCDF | 0.0599 J | 0.0208 | 5.00 | ng/kg | 98 | | 72-134 | | |
| 123678-HxCDF | 0.0799 J | 0.0183 | 5.00 | ng/kg | 98 | | 84-130 | | |
| 123789-HxCDF | 0.0229 J | 0.0210 | 5.00 | ng/kg | 99 | | 78-130 | | |
| 234678-HxCDF | 0.0864 J | 0.0191 | 5.00 | ng/kg | 94 | | 70-156 | | |
| 1234678-HpCDF | 0.143 J | 0.0176 | 5.00 | ng/kg | 91 | | 82-122 | | |
| 1234789-HpCDF | 0.0810 J | 0.0247 | 5.00 | ng/kg | 95 | | 78-138 | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299987
Reported: 04/24/12 at 11:58 AM

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| OCDF | 0.114 J | 0.0330 | 10.0 | ng/kg | 96 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12096162401B | Sample number(s): 6605181-6605184,6605191-6605193 | | | | | BKG: P605177 | | | |
| Moisture Content by 160.3 | | | | | | 9.4 | 9.5 | 0 | 20 |
| Batch number: 12108162401A | Sample number(s): 6605185-6605190,6605194-6605195 | | | | | BKG: 6605188 | | | |
| Moisture Content by 160.3 | | | | | | 8.5 | 8.7 | 1 | 20 |
| Batch number: 12101002 | Sample number(s): 6605181-6605191,6605193-6605195 | | | | | UNSPK: P599861 | | | |
| 2378-TCDD | 92 | 94 | 67-158 | 5 | 25 | | | | |
| 12378-PeCDD | 98 | 96 | 70-142 | 2 | 25 | | | | |
| 123478-HxCDD | 97 | 98 | 70-164 | 5 | 25 | | | | |
| 123678-HxCDD | 95 | 94 | 76-134 | 3 | 25 | | | | |
| 123789-HxCDD | 102 | 103 | 64-162 | 4 | 25 | | | | |
| 1234678-HpCDD | 99 | 108 | 70-140 | 7 | 25 | | | | |
| OCDD | 83 (2) | 127 (2) | 78-144 | 8 | 25 | | | | |
| 2378-TCDF | 103 | 102 | 75-158 | 3 | 25 | | | | |
| 12378-PeCDF | 102 | 102 | 80-134 | 3 | 25 | | | | |
| 23478-PeCDF | 97 | 100 | 68-160 | 7 | 25 | | | | |
| 123478-HxCDF | 98 | 98 | 72-134 | 3 | 25 | | | | |
| 123678-HxCDF | 100 | 98 | 84-130 | 2 | 25 | | | | |
| 123789-HxCDF | 99 | 102 | 78-130 | 7 | 25 | | | | |
| 234678-HxCDF | 98 | 98 | 70-156 | 4 | 25 | | | | |
| 1234678-HpCDF | 92 | 95 | 82-122 | 7 | 25 | | | | |
| 1234789-HpCDF | 98 | 99 | 78-138 | 4 | 25 | | | | |
| OCDF | 99 | 101 | 63-170 | 5 | 25 | | | | |
| Batch number: 12103002 | Sample number(s): 6605192 | | | | | UNSPK: P600775 | | | |
| 2378-TCDD | 91 | 88 | 67-158 | 5 | 25 | | | | |
| 12378-PeCDD | 95 | 92 | 70-142 | 4 | 25 | | | | |
| 123478-HxCDD | 96 | 97 | 70-164 | 0 | 25 | | | | |
| 123678-HxCDD | 92 | 94 | 76-134 | 0 | 25 | | | | |
| 123789-HxCDD | 102 | 98 | 64-162 | 5 | 25 | | | | |
| 1234678-HpCDD | 95 | 95 | 70-140 | 1 | 25 | | | | |
| OCDD | 94 | 95 | 78-144 | 0 | 25 | | | | |
| 2378-TCDF | 90 | 91 | 75-158 | 0 | 25 | | | | |
| 12378-PeCDF | 96 | 96 | 80-134 | 1 | 25 | | | | |
| 23478-PeCDF | 91 | 89 | 68-160 | 3 | 25 | | | | |
| 123478-HxCDF | 98 | 101 | 72-134 | 1 | 25 | | | | |
| 123678-HxCDF | 99 | 100 | 84-130 | 0 | 25 | | | | |
| 123789-HxCDF | 98 | 101 | 78-130 | 2 | 25 | | | | |
| 234678-HxCDF | 95 | 97 | 70-156 | 0 | 25 | | | | |
| 1234678-HpCDF | 91 | 91 | 82-122 | 2 | 25 | | | | |
| 1234789-HpCDF | 94 | 96 | 78-138 | 0 | 25 | | | | |
| OCDF | 98 | 98 | 63-170 | 1 | 25 | | | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299987
Reported: 04/24/12 at 11:58 AM

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12101002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6605181 | 80 | 73 | 76 | 85 | 80 | 74 |
| 6605182 | 74 | 67 | 65 | 76 | 67 | 67 |
| 6605183 | 66 | 63 | 61 | 70 | 64 | 59 |
| 6605184 | 63 | 60 | 64 | 71 | 67 | 58 |
| 6605185 | 67 | 61 | 65 | 74 | 67 | 59 |
| 6605186 | 69 | 63 | 65 | 73 | 69 | 65 |
| 6605187 | 70 | 62 | 63 | 74 | 69 | 62 |
| 6605188 | 69 | 65 | 65 | 76 | 70 | 59 |
| 6605189 | 70 | 62 | 66 | 73 | 71 | 64 |
| 6605190 | 77 | 78 | 78 | 86 | 84 | 83 |
| 6605191 | 67 | 65 | 65 | 70 | 67 | 65 |
| 6605193 | 59 | 58 | 56 | 63 | 59 | 60 |
| 6605194 | 62 | 55 | 60 | 64 | 63 | 64 |
| 6605195 | 61 | 56 | 60 | 66 | 62 | 57 |
| Blank | 66 | 61 | 65 | 73 | 65 | 61 |
| MS | 70 | 64 | 67 | 75 | 69 | 61 |
| MSD | 66 | 61 | 66 | 75 | 68 | 61 |
| OPR | 75 | 68 | 73 | 84 | 78 | 71 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6605181 | 97 | 65 | 65 | 80 | 84 | 84 |
| 6605182 | 95 | 55 | 55 | 76 | 76 | 75 |
| 6605183 | 88 | 56 | 53 | 71 | 70 | 69 |
| 6605184 | 88 | 55 | 53 | 67 | 70 | 71 |
| 6605185 | 89 | 54 | 53 | 70 | 73 | 74 |
| 6605186 | 88 | 57 | 55 | 70 | 74 | 74 |
| 6605187 | 97 | 57 | 55 | 73 | 76 | 76 |
| 6605188 | 99 | 57 | 55 | 77 | 78 | 77 |
| 6605189 | 93 | 59 | 58 | 72 | 77 | 77 |
| 6605190 | 98 | 76 | 77 | 82 | 85 | 88 |
| 6605191 | 78 | 60 | 62 | 71 | 71 | 70 |
| 6605193 | 74 | 54 | 52 | 66 | 64 | 65 |
| 6605194 | 72 | 55 | 54 | 62 | 66 | 66 |
| 6605195 | 78 | 54 | 55 | 64 | 68 | 67 |
| Blank | 86 | 54 | 50 | 67 | 74 | 75 |
| MS | 91 | 54 | 50 | 73 | 76 | 75 |
| MSD | 86 | 52 | 49 | 68 | 72 | 74 |
| OPR | 104 | 63 | 60 | 78 | 88 | 86 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6605181 | 83 | 81 | 77 | 69 | 83 |
| 6605182 | 78 | 76 | 76 | 59 | 74 |
| 6605183 | 69 | 72 | 69 | 56 | 76 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299987
Reported: 04/24/12 at 11:58 AM

### Surrogate Quality Control

| | | | | | |
|---|---|---|---|---|---|
| 6605184 | 70 | 73 | 68 | 54 | 70 |
| 6605185 | 72 | 74 | 69 | 57 | 70 |
| 6605186 | 74 | 74 | 70 | 58 | 69 |
| 6605187 | 76 | 78 | 75 | 56 | 70 |
| 6605188 | 75 | 79 | 75 | 57 | 73 |
| 6605189 | 74 | 79 | 75 | 58 | 69 |
| 6605190 | 84 | 91 | 90 | 69 | 80 |
| 6605191 | 69 | 72 | 69 | 58 | 70 |
| 6605193 | 64 | 69 | 67 | 50 | 62 |
| 6605194 | 65 | 67 | 61 | 50 | 59 |
| 6605195 | 66 | 68 | 66 | 51 | 60 |
| Blank | 73 | 68 | 64 | 55 | 66 |
| MS | 76 | 73 | 68 | 60 | 75 |
| MSD | 73 | 71 | 66 | 57 | 71 |
| OPR | 86 | 84 | 81 | 60 | 75 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12103002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6605192 | 64 | 63 | 68 | 72 | 69 | 64 |
| Blank | 59 | 59 | 57 | 62 | 58 | 56 |
| MS | 68 | 65 | 71 | 74 | 71 | 70 |
| MSD | 73 | 64 | 69 | 70 | 68 | 66 |
| OPR | 72 | 63 | 68 | 73 | 70 | 66 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6605192 | 80 | 57 | 53 | 68 | 67 | 68 |
| Blank | 68 | 52 | 51 | 65 | 64 | 64 |
| MS | 77 | 65 | 60 | 69 | 72 | 77 |
| MSD | 72 | 60 | 58 | 71 | 68 | 72 |
| OPR | 80 | 60 | 56 | 72 | 73 | 75 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6605192 | 74 | 66 | 60 | 66 | 69 |
| Blank | 62 | 60 | 59 | 52 | 60 |
| MS | 79 | 72 | 65 | 61 | 66 |
| MSD | 77 | 68 | 61 | 61 | 65 |
| OPR | 73 | 72 | 66 | 59 | 66 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Ap# 1299987 Sample# 6605181-95

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSES | SECONDARY ANALYSES | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C.<br>Samplers Signatures: | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-025-NBZ-SS-0.0-0.5 | 4.02.12 | 1005 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-026-NBZ-SS-0.0-0.5 | 4.02.12 | 1250 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-027-NBZ-SS-0.0-0.5 | 4.02.12 | 1005 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-028-NBZ-SS-0.0-0.5 | 4.02.12 | 0910 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-107-NBZ-SS-0.0-0.5 | 4.02.12 | 1358 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-111-NBZ-SS-0.0-0.5 | 4.02.12 | 1333 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-112-NBZ-SS-0.0-0.5 | 4.02.12 | 1040 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-113-NBZ-SS-0.0-0.5 | 4.02.12 | 0929 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-138-NBZ-SS-0.0-0.5 | 4.02.12 | 1011 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-194-NBZ-SS-0.0-0.5 | 4.02.12 | 1440 | SOIL | NONE | 1-16 oz Jar | X | | | | |
| SL-031-NBZ-SS-0.0-0.5 | 4.03.12 | 0930 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-033-NBZ-SS-0.0-0.5 | 4.03.12 | 1030 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-034-NBZ-SS-0.0-0.5 | 4.03.12 | 1122 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-108-NBZ-SS-0.0-0.5 | 4.03.12 | 0945 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-122-NBZ-SS-0.0-0.5 | 4.03.12 | 1103 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-127-NBZ-SS-0.0-0.5 | 4.03.12 | 1010 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-169-NBZ-SS-0.0-0.5 | 4.03.12 | 0911 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| Relinquished by: (*Signature*) | Date/Time<br>4/03/2012 / 1630 | | Received for Laboratory by: (*Signature*)<br>Brandy Bundy 4.4.12 930 | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s)<br>7982 4521 9334 | | | | | | | |

eurofins | Lancaster Laboratories

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# DX166

**NBZ – Data Package Amendment**
**SDG 12C273, SDG 12C305, SDG DX163, SDG DX166**
**6-17-13**

During the database check, an inconsistency in sample identification was discovered that needed to be corrected. They are listed below:

- Sample SL-130-NBZ-SS-0.0-0.5 had duplicate results.
- One set of results belongs to SL-131-NBZ-SS-0.0-0.5.
- All data packages were reviewed by field personnel and the validator to determine which sample results went with which sample.
- The appropriate method results were moved to sample SL-131-NBZ-SS-0.0-05.

All changes have been documented and verified by the field personnel and data group.

Pam Hartman
Catherine Love
Cherie Zakowski

SL-130

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/10/12 17:03 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/13/12 09:30 |
| Lab Samp ID: C273-12R | Dilution Factor: 1 |
| Lab File ID: RDH192 | Matrix : SOIL |
| Ext Btch ID: SVD020S | % Moisture : 16.1 |
| Calib. Ref.: RCH007 | Instrument ID : T-0E7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 400 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 400 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 400 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 400 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 400 | 200 |
| BENZIDINE | ND | 990 | 500 |
| BENZOIC ACID | ND | 790 | 400 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1070 | 1192 | 89.8 | 35-130 |
| 2-FLUOROBIPHENYL | 283 | 397.3 | 71.3 | 45-130 |
| 2-FLUOROPHENOL | 860 | 1192 | 72.2 | 25-130 |
| NITROBENZENE-D5 | 271 | 397.3 | 68.3 | 40-130 |
| PHENOL-D5 | 978 | 1192 | 82.1 | 25-120 |
| TERPHENYL-D14 | 368 | 397.3 | 92.8 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

SL-130

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/10/12 17:03 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/13/12 09:30 |
| Lab Samp ID: C273-12R | Dilution Factor: 1 |
| Lab File ID: RDH192 | Matrix : SOIL |
| Ext Btch ID: SVD020S | % Moisture : 16.1 |
| Calib. Ref.: RCH007 | Instrument ID : T-QE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 1.0 |
| ACENAPHTHYLENE | ND | 2.0 | 1.0 |
| ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)PYRENE | 1.3J | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | 2.1 | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | 2.1 | 2.0 | 1.0 |
| CHRYSENE | ND | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 1.0 |
| FLUORANTHENE | 2.2 | 2.0 | 1.0 |
| FLUORENE | ND | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 1.0 |
| NAPHTHALENE | ND | 2.0 | 1.0 |
| PHENANTHRENE | 1.1J | 2.0 | 1.0 |
| PYRENE | 2.4 | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 30 | 20 | 10 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 297 | 397.3 | 74.8 | 40-130 |
| 2-FLUOROBIPHENYL | 306 | 397.3 | 77.1 | 45-130 |
| TERPHENYL-D14 | 346 | 397.3 | 87.0 | 45-135 |

SL-130

METHOD 3550B/8081A
PESTICIDES

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 03/27/12 |
| Batch No. | : 12C273 | Date Extracted: | 04/05/12 14:56 |
| Sample ID: | SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: | 04/11/12 15:32 |
| Lab Samp ID: | C273-12 | Dilution Factor: | 1 |
| Lab File ID: | LD11018A | Matrix : | SOIL |
| Ext Btch ID: | CPD010S | % Moisture : | 16.1 |
| Calib. Ref.: | LD11005A | Instrument ID : | GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.30 | 0.20 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.18J | 0.20 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| 0.50 | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR | 0.98 \| (ND) | 0.20 | 0.10 \| 0.10 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| ALDRIN | 0.31 \| (ND) | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| 4,4'-DDE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| DIELDRIN | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDRIN | 0.78 \| (ND) | 0.41 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDOSULFAN II | 3.4 \| (ND) | 0.41 | 0.20 \| 0.20 |
| 4,4'-DDT | 0.43 \| (0.32J) | 0.41 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| 6.8 | 0.41 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| ND | 2.0 | 1.0 \| 1.0 |
| MIREX | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.9 | 3.9 \| 3.9 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.1 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.482 \| (5.973) | 6.356 | 70.5 \| (94.0) | 50-130 |
| DECACHLOROBIPHENYL | (4.747) \| 4.480 | 6.356 | (74.7) \| 70.5 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SL-130

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 03/27/12 |
| Batch No. | : 12C273 | Date Extracted: | 04/06/12 16:33 |
| Sample ID: | SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: | 04/18/12 10:03 |
| Lab Samp ID: | C273-12 | Dilution Factor: | 1 |
| Lab File ID: | KD17029A | Matrix : | SOIL |
| Ext Btch ID: | CPD013S | % Moisture : | 16.1 |
| Calib. Ref.: | KD17017A | Instrument ID : | GCT071 |

| PARAMETERS | RESULTS (ug/kg) | | RL (ug/kg) | MDL (ug/kg) | |
|---|---|---|---|---|---|
| AROCLOR 1016 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1221 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1232 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1242 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1248 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1254 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1260 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1262 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1268 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 5432 | (ND) | ND | 3.9 | 2.0 | 2.0 |
| AROCLOR 5442 | (ND) | ND | 3.9 | 2.0 | 2.0 |
| AROCLOR 5460 | (ND) | ND | 3.9 | 2.0 | 2.0 |

| SURROGATE PARAMETERS | RESULTS | | SPK_AMT | % RECOVERY | | QC LIMIT |
|---|---|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.378) | 5.194 | 6.356 | (116) | 81.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (8.131) | 5.788 | 6.356 | (128) | 91.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

SL-130

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 22:07 |
| Lab Samp ID: C273-12 | Dilution Factor: 1 |
| Lab File ID: WD09033A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 16.1 |
| Calib. Ref.: WD09020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 4.3 | 2.1 \| 2.1 |
| 2,4-DB | (ND) \| ND | 2.0 | 1.0 \| 1.0 |
| 2,4,5-T | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| 2,4,5-TP(SILVEX) | 0.84 \| (ND) | 0.20 | 0.10 \| 0.10 |
| DALAPON | (ND) \| ND | 11 | 5.4 \| 5.4 |
| DICAMBA | (ND) \| ND | 1.4 | 0.72 \| 0.72 |
| DICHLOROPROP | (ND) \| ND | 2.9 | 1.4 \| 1.4 |
| DINOSEB | (ND) \| ND | 2.0 | 1.0 \| 1.0 |
| MCPA | 1200 \| (ND) | 300 | 150 \| 150 |
| MCPP | (ND) \| 230J | 300 | 150 \| 150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (83.86) \| 70.20 | 178.8 | (46.9) \| 39.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

SL-130

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 03/27/12 |
| SDG NO. | : 12C273 | Date Extracted: | 04/05/12 11:54 |
| Sample ID: | SL-130-N8Z-SS-0.0-0.5 | Date Analyzed: | 04/11/12 00:14 |
| Lab Samp ID: | C273-12 | Dilution Factor: | 1.00 |
| Lab File ID: | 98D05060 | Matrix : | SOIL |
| Ext Btch ID: | IMD009S | % Moisture : | 16.1 |
| Calib. Ref.: | 98D05053 | Instrument ID : | T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11300 | 28.6 | 14.3 |
| Antimony | 0.138J | 0.238 | 0.119 |
| Arsenic | 3.31 | 0.477 | 0.238 |
| Barium | 71.8 | 0.477 | 0.238 |
| Beryllium | 0.344 | 0.119 | 0.0596 |
| Boron | ND | 5.96 | 2.98 |
| Cadmium | 0.201 | 0.119 | 0.0596 |
| Calcium | 2770 | 23.8 | 11.9 |
| Chromium | 17.5 | 0.477 | 0.238 |
| Cobalt | 5.17 | 0.119 | 0.0596 |
| Copper | 6.90 | 0.477 | 0.238 |
| Iron | 19700 | 23.8 | 11.9 |
| Lead | 8.48 | 0.238 | 0.119 |
| Magnesium | 6810 | 11.9 | 5.96 |
| Manganese | 274 | 0.596 | 0.298 |
| Molybdenum | 0.267 | 0.119 | 0.0596 |
| Nickel | 10.7 | 0.477 | 0.238 |
| Potassium | 2990 | 71.5 | 35.8 |
| Selenium | ND | 0.477 | 0.238 |
| Silver | ND | 0.119 | 0.0596 |
| Sodium | ND | 119 | 59.6 |
| Strontium | 9.36 | 0.596 | 0.298 |
| Thallium | 0.214 | 0.119 | 0.0596 |
| Tin | ND | 11.9 | 5.96 |
| Titanium | 1020 | 1.19 | 0.596 |
| Vanadium | 35.3 | 0.119 | 0.0596 |
| Zinc | 54.9 | 3.58 | 1.79 |
| Lithium | 26.7 | 2.38 | 1.19 |
| Phosphorus | 429 | 14.3 | 7.15 |
| Zirconium | ND | 5.96 | 2.98 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD001SB | ND | 1 | NA | 0.100 | 0.0500 | 04/03/1210:18 | 04/02/1217:30 | M47D001010 | M47D001008 | HGD001S | NA | 04/02/12 |
| LCS1S | HGD001SL | 0.863 | 1 | NA | 0.100 | 0.0500 | 04/03/1210:20 | 04/02/1217:30 | M47D001011 | M47D001008 | HGD001S | NA | 04/02/12 |
| LCD1S | HGD001SC | 0.858 | 1 | NA | 0.100 | 0.0500 | 04/03/1210:23 | 04/02/1217:30 | M47D001012 | M47D001008 | HGD001S | NA | 04/02/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | ND | 0.997 | 12.3 | 0.114 | 0.0568 | 04/03/1211:00 | 04/02/1217:30 | M47D001030 | M47D001020 | HGD001S | 03/27/12 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | ND | 1.00 | 17.1 | 0.121 | 0.0603 | 04/03/1211:03 | 04/02/1217:30 | M47D001031 | M47D001020 | HGD001S | 03/27/12 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | ND | 1.00 | 11.5 | 0.113 | 0.0565 | 04/03/1211:09 | 04/02/1217:30 | M47D001034 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | ND | 0.993 | 11.9 | 0.113 | 0.0564 | 04/03/1211:11 | 04/02/1217:30 | M47D001035 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | ND | 1.01 | 13.8 | 0.117 | 0.0586 | 04/03/1211:13 | 04/02/1217:30 | M47D001036 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09 | ND | 0.987 | 12.8 | 0.113 | 0.0566 | 04/03/1211:15 | 04/02/1217:30 | M47D001037 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | ND | 0.997 | 11.1 | 0.112 | 0.0561 | 04/03/1211:17 | 04/02/1217:30 | M47D001038 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | ND | 1.01 | 20.0 | 0.126 | 0.0631 | 04/03/1211:20 | 04/02/1217:30 | M47D001039 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | ND | 0.992 | 16.1 | 0.118 | 0.0591 | 04/03/1211:22 | 04/02/1217:30 | M47D001040 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |

2105

SL-130

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCS1S | ICC009SL | 5.89 | 1 | NA | 1.00 | 0.500 | 03/31/1200:14 | 03/29/1217:10 | AC39-142 | AC39-138 | ICC009S | NA | 03/29/12 |
| LCD1S | ICC009SC | 5.86 | 1 | NA | 1.00 | 0.500 | 03/31/1200:30 | 03/29/1217:10 | AC39-143 | AC39-138 | ICC009S | NA | 03/29/12 |
| MBLK1S | ICC009SB | ND | 1 | NA | 1.00 | 0.500 | 03/31/1200:46 | 03/29/1217:10 | AC39-144 | AC39-138 | ICC009S | NA | 03/29/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | 1.40 | 1 | 12.3 | 1.14 | 0.570 | 03/31/1201:35 | 03/29/1217:10 | AC39-147 | AC39-145 | ICC009S | 03/27/1214:35 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | 0.860J | 1 | 17.1 | 1.21 | 0.603 | 03/31/1201:51 | 03/29/1217:10 | AC39-148 | AC39-145 | ICC009S | 03/27/1211:10 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | ND | 1 | 11.5 | 1.13 | 0.565 | 03/31/1202:07 | 03/29/1217:10 | AC39-149 | AC39-145 | ICC009S | 03/27/1209:40 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | ND | 1 | 11.9 | 1.14 | 0.568 | 03/31/1202:23 | 03/29/1217:10 | AC39-150 | AC39-145 | ICC009S | 03/27/1210:17 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | ND | 1 | 13.8 | 1.16 | 0.580 | 03/31/1202:39 | 03/29/1217:10 | AC39-151 | AC39-145 | ICC009S | 03/27/1213:55 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09 | 1.61 | 1 | 12.8 | 1.15 | 0.573 | 03/31/1202:55 | 03/29/1217:10 | AC39-152 | AC39-145 | ICC009S | 03/27/1214:55 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | ND | 1 | 11.1 | 1.12 | 0.562 | 03/31/1203:12 | 03/29/1217:10 | AC39-153 | AC39-145 | ICC009S | 03/27/1210:50 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | ND | 1 | 20.0 | 1.25 | 0.625 | 03/31/1203:28 | 03/29/1217:10 | AC39-154 | AC39-145 | ICC009S | 03/27/1214:35 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | ND | 1 | 16.1 | 1.19 | 0.596 | 03/31/1203:44 | 03/29/1217:10 | AC39-155 | AC39-145 | ICC009S | 03/27/1210:20 | 03/27/12 |

Page 2 of 2

SL-130

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD004SB | ND | 1 | NA | 20.0 | 10.0 | 04/05/1204:49 | 04/02/1215:30 | JD05029 | JD05028 | PCD004S | NA | 04/02/12 |
| LCS1S | PCD004SL | 272 | 1 | NA | 20.0 | 10.0 | 04/05/1205:31 | 04/02/1215:30 | JD05031 | JD05028 | PCD004S | NA | 04/02/12 |
| LCD1S | PCD004SC | 271 | 1 | NA | 20.0 | 10.0 | 04/05/1205:52 | 04/02/1215:30 | JD05032 | JD05028 | PCD004S | NA | 04/02/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | ND | 1 | 12.3 | 22.8 | 11.4 | 04/05/1206:13 | 04/02/1215:30 | JD05033 | JD05028 | PCD004S | 03/27/1214:35 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | ND | 1 | 17.1 | 24.1 | 12.1 | 04/05/1206:34 | 04/02/1215:30 | JD05034 | JD05028 | PCD004S | 03/27/1211:10 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | ND | 1 | 11.5 | 22.6 | 11.3 | 04/05/1206:55 | 04/02/1215:30 | JD05035 | JD05028 | PCD004S | 03/27/1209:40 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | ND | 1 | 11.9 | 22.7 | 11.4 | 04/05/1207:16 | 04/02/1215:30 | JD05036 | JD05028 | PCD004S | 03/27/1210:17 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | ND | 1 | 13.8 | 23.2 | 11.6 | 04/05/1207:37 | 04/02/1215:30 | JD05037 | JD05028 | PCD004S | 03/27/1213:55 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | ND | 1 | 11.1 | 22.5 | 11.2 | 04/05/1209:01 | 04/02/1215:30 | JD05041 | JD05039 | PCD004S | 03/27/1210:50 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | ND | 1 | 20.0 | 25.0 | 12.5 | 04/05/1209:22 | 04/02/1215:30 | JD05042 | JD05039 | PCD004S | 03/27/1214:35 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | ND | 1 | 16.1 | 23.8 | 11.9 | 04/05/1209:43 | 04/02/1215:30 | JD05043 | JD05039 | PCD004S | 03/27/1210:20 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09W | ND | 1 | 12.8 | 22.9 | 11.5 | 04/05/1214:13 | 04/02/1215:30 | JD05053 | JD05052 | PCD004S | 03/27/1214:55 | 03/27/12 |

C1222

SL-130

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | 7.32 | 1 | NA | NA | NA | 03/29/1218:20 | 03/29/1218:20 | 12PHC027S01 | 12PHC027S | 12PHC027S | 03/27/1214:35 | 03/27/12 |
| SL-039-NBZ-SB-2.0-3.0DUP | C273-04D | 7.29 | 1 | NA | NA | NA | 03/29/1218:20 | 03/29/1218:20 | 12PHC027S02 | 12PHC027S | 12PHC027S | 03/27/1214:35 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | 7.48 | 1 | NA | NA | NA | 03/29/1218:23 | 03/29/1218:20 | 12PHC027S03 | 12PHC027S | 12PHC027S | 03/27/1211:10 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | 6.66 | 1 | NA | NA | NA | 03/29/1218:25 | 03/29/1218:20 | 12PHC027S04 | 12PHC027S | 12PHC027S | 03/27/1209:40 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | 6.57 | 1 | NA | NA | NA | 03/29/1218:27 | 03/29/1218:20 | 12PHC027S05 | 12PHC027S | 12PHC027S | 03/27/1210:17 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | 6.27 | 1 | NA | NA | NA | 03/29/1218:28 | 03/29/1218:20 | 12PHC027S06 | 12PHC027S | 12PHC027S | 03/27/1213:55 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09 | 7.56 | 1 | NA | NA | NA | 03/29/1218:32 | 03/29/1218:20 | 12PHC027S07 | 12PHC027S | 12PHC027S | 03/27/1214:55 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | 6.42 | 1 | NA | NA | NA | 03/29/1218:34 | 03/29/1218:20 | 12PHC027S08 | 12PHC027S | 12PHC027S | 03/27/1210:50 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | 7.54 | 1 | NA | NA | NA | 03/29/1218:36 | 03/29/1218:20 | 12PHC027S09 | 12PHC027S | 12PHC027S | 03/27/1214:35 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | 6.47 | 1 | NA | NA | NA | 03/29/1218:38 | 03/29/1218:20 | 12PHC027S10 | 12PHC027S | 12PHC027S | 03/27/1210:20 | 03/27/12 |

12H27

SL-130

METHOD 6850
PERCHLORATE BY LC/MS

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : SOIL
Instrument ID : GO

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PLC003SB | ND | 1 | NA | 5.00 | 2.50 | 03/30/1208:01 | 03/29/1216:32 | NC30004 | NC30003 | PLC003S | NA | 03/29/12 |
| LCS1S | PLC003SL | 22.6 | 1 | NA | 5.00 | 2.50 | 03/30/1208:15 | 03/29/1216:32 | NC30005 | NC30003 | PLC003S | NA | 03/29/12 |
| LCD1S | PLC003SC | 22.9 | 1 | NA | 5.00 | 2.50 | 03/30/1208:29 | 03/29/1216:32 | NC30006 | NC30003 | PLC003S | NA | 03/29/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | ND | 1 | 11.9 | 5.68 | 2.84 | 03/30/1209:40 | 03/29/1216:32 | NC30011 | NC30003 | PLC003S | 03/27/1210:17 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | ND | 1 | 13.8 | 5.80 | 2.90 | 03/30/1209:54 | 03/29/1216:32 | NC30012 | NC30003 | PLC003S | 03/27/1213:55 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09 | ND | 1 | 12.8 | 5.73 | 2.87 | 03/30/1210:09 | 03/29/1216:32 | NC30013 | NC30003 | PLC003S | 03/27/1214:55 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | ND | 1 | 11.1 | 5.62 | 2.81 | 03/30/1210:37 | 03/29/1216:32 | NC30015 | NC30014 | PLC003S | 03/27/1210:50 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | ND | 1 | 20.0 | 6.25 | 3.12 | 03/30/1210:51 | 03/29/1216:32 | NC30016 | NC30014 | PLC003S | 03/27/1214:35 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | ND | 1 | 16.1 | 5.96 | 2.98 | 03/30/1211:05 | 03/29/1216:32 | NC30017 | NC30014 | PLC003S | 03/27/1210:20 | 03/27/12 |

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METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD001SB | ND | 1 | NA | 1.00 | 0.500 | 04/02/1218:11 | 04/02/1214:09 | ID02003 | ID02001 | HCD001S | NA | 04/02/12 |
| MBLK1S | HCD001SQ | ND | 1 | NA | 1.00 | 0.500 | 04/02/1218:21 | 04/02/1214:09 | ID02004 | ID02001 | HCD001S | NA | 04/02/12 |
| LCS1S | CSD001SL | 10.0 | 1 | NA | 1.00 | 0.500 | 04/02/1218:31 | 04/02/1214:09 | ID02005 | ID02001 | HCD001S | NA | 04/02/12 |
| LCS1S | CSD001SX | 10.0 | 1 | NA | 1.00 | 0.500 | 04/02/1218:42 | 04/02/1214:09 | ID02006 | ID02001 | HCD001S | NA | 04/02/12 |
| LCS2S | CID001SL | 206 | 10 | NA | 10.0 | 5.00 | 04/02/1219:03 | 04/02/1214:09 | ID02007 | ID02001 | HCD001S | NA | 04/02/12 |
| LCS2S | CID001SX | 213 | 10 | NA | 10.0 | 5.00 | 04/02/1219:13 | 04/02/1214:09 | ID02008 | ID02001 | HCD001S | NA | 04/02/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | ND | 1 | 12.3 | 1.14 | 0.570 | 04/02/1220:57 | 04/02/1214:09 | ID02017 | ID02013 | HCD001S | 03/27/1214:35 | 03/27/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04R | ND | 1 | 12.3 | 1.14 | 0.570 | 04/02/1221:07 | 04/02/1214:09 | ID02018 | ID02013 | HCD001S | 03/27/1214:35 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | ND | 1 | 17.1 | 1.21 | 0.603 | 04/02/1221:18 | 04/02/1214:09 | ID02019 | ID02013 | HCD001S | 03/27/1211:10 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05R | ND | 1 | 17.1 | 1.21 | 0.603 | 04/02/1221:28 | 04/02/1214:09 | ID02020 | ID02013 | HCD001S | 03/27/1211:10 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | ND | 1 | 11.5 | 1.13 | 0.565 | 04/02/1221:39 | 04/02/1214:09 | ID02021 | ID02013 | HCD001S | 03/27/1209:40 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06R | ND | 1 | 11.5 | 1.13 | 0.565 | 04/02/1221:49 | 04/02/1214:09 | ID02022 | ID02013 | HCD001S | 03/27/1209:40 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | ND | 1 | 11.9 | 1.14 | 0.568 | 04/02/1221:59 | 04/02/1214:09 | ID02023 | ID02013 | HCD001S | 03/27/1210:17 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07R | ND | 1 | 11.9 | 1.14 | 0.568 | 04/02/1222:10 | 04/02/1214:09 | ID02024 | ID02013 | HCD001S | 03/27/1210:17 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | ND | 1 | 13.8 | 1.16 | 0.580 | 04/02/1222:51 | 04/02/1214:09 | ID02027 | ID02025 | HCD001S | 03/27/1213:55 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08R | ND | 1 | 13.8 | 1.16 | 0.580 | 04/02/1223:02 | 04/02/1214:09 | ID02028 | ID02025 | HCD001S | 03/27/1213:55 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09 | ND | 1 | 12.8 | 1.15 | 0.573 | 04/02/1223:12 | 04/02/1214:09 | ID02029 | ID02025 | HCD001S | 03/27/1214:55 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09R | ND | 1 | 12.8 | 1.15 | 0.573 | 04/02/1223:23 | 04/02/1214:09 | ID02030 | ID02025 | HCD001S | 03/27/1214:55 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | ND | 1 | 11.1 | 1.12 | 0.562 | 04/02/1223:33 | 04/02/1214:09 | ID02031 | ID02025 | HCD001S | 03/27/1210:50 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10R | ND | 1 | 11.1 | 1.12 | 0.562 | 04/02/1223:43 | 04/02/1214:09 | ID02032 | ID02025 | HCD001S | 03/27/1210:50 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | ND | 1 | 20.0 | 1.25 | 0.625 | 04/02/1223:54 | 04/02/1214:09 | ID02033 | ID02025 | HCD001S | 03/27/1214:35 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11R | ND | 1 | 20.0 | 1.25 | 0.625 | 04/03/1200:04 | 04/02/1214:09 | ID02034 | ID02025 | HCD001S | 03/27/1214:35 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | ND | 1 | 16.1 | 1.19 | 0.596 | 04/03/1200:15 | 04/02/1214:09 | ID02035 | ID02025 | HCD001S | 03/27/1210:20 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12R | ND | 1 | 16.1 | 1.19 | 0.596 | 04/03/1200:25 | 04/02/1214:09 | ID02036 | ID02025 | HCD001S | 03/27/1210:20 | 03/27/12 |

C273

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

131 CZ 6/17/13



Sample Description: SL-130-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-NBZ-SS

LLI Sample # SW 6600778
LLI Group # 1299284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2012 10:35

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6607 SDG#: DX166-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.1 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

131 cz 6/17/13



Sample Description: SL-130-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-NBZ-SS

LLI Sample # SW 6600778
LLI Group # 1299284
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2012 10:35

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6607 SDG#: DX166-07

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0628 | JQ | 0.0242 | 1.05 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.185 | JB | 0.0268 | 5.25 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.111 | JB | 0.0215 | 5.25 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.155 | JB | 0.0228 | 5.25 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.132 | JB | 0.0213 | 5.25 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.886 | JB | 0.0157 | 5.25 | 1 |
| 11031 | OCDD | 3268-87-9 | 4.85 | JB | 0.0183 | 10.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.102 | J | 0.0321 | 1.05 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.306 | JB | 0.0206 | 5.25 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.424 | JB | 0.0200 | 5.25 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.206 | JB | 0.0181 | 5.25 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.162 | JB | 0.0161 | 5.25 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.100 | JB | 0.0193 | 5.25 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.136 | JB | 0.0180 | 5.25 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.320 | JB | 0.0104 | 5.25 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0836 | JB | 0.0153 | 5.25 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.527 | JB | 0.0168 | 10.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 81 | 25 - 164 |
| 13C12-12378-PeCDD | 78 | 25 - 181 |
| 13C12-123478-HxCDD | 76 | 32 - 141 |
| 13C12-123678-HxCDD | 77 | 28 - 130 |
| 13C12-123789-HxCDD | 76 | 28 - 130 |
| 13C12-1234678-HpCDD | 74 | 23 - 140 |
| 13C12-OCDD | 67 | 17 - 157 |
| 13C12-2378-TCDF | 67 | 24 - 169 |
| 13C12-12378-PeCDF | 75 | 24 - 185 |
| 13C12-23478-PeCDF | 73 | 21 - 178 |
| 13C12-123478-HxCDF | 73 | 26 - 152 |
| 13C12-123678-HxCDF | 79 | 26 - 123 |
| 13C12-234678-HxCDF | 74 | 28 - 136 |
| 13C12-123789-HxCDF | 75 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 66 | 26 - 138 |
| 13C12-OCDF | 60 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com



131 CR 6/7/13

Sample Description: SL-130-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-NBZ-SS

LLI Sample # SW 6600778
LLI Group # 1299284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2012 10:35

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6607 SDG#: DX166-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| S | *Saturation of detection signal* | | | | | |

*=This limit was used in the evaluation of the final result

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

131 cr 6/17/13



**Sample Description:** SL-~~130~~-131-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-NBZ-SS

LLI Sample # SW 6600778
LLI Group # 1299284
Account # 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:35

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6607 SDG#: DX166-07

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 08:08 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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131 C3 6/6/13

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/29/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/29/12 |
| Batch No. | : 12C3051 | Date Extracted | : 04/10/12 14:11 |
| Sample ID | : SL-131-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/17/12 03:46 |
| Lab Samp ID | : C305-09 | Dilution Factor | : 1 |
| Lab File ID | : RDH253 | Matrix | : SOIL |
| Ext Btch ID | : SVD019S | % Moisture | : 7.6 |
| Calib. Ref. | : RCH007 | Instrument ID | : T-QE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 450 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 869 | 1082 | 80.3 | 35-130 |
| 2-FLUOROBIPHENYL | 228 | 360.7 | 63.1 | 45-130 |
| 2-FLUOROPHENOL | 791 | 1082 | 73.1 | 25-130 |
| NITROBENZENE-D5 | 235 | 360.7 | 65.1 | 40-130 |
| PHENOL-D5 | 881 | 1082 | 81.4 | 25-120 |
| TERPHENYL-D14 | 309 | 360.7 | 85.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

CZ 6/17/13

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SL-131

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-131-N8Z-SS-0.0-0.5 | Date Analyzed: 04/17/12 03:46 |
| Lab Samp ID: C305-09 | Dilution Factor: 1 |
| Lab File ID: RDH253 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 7.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-QE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | ND | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | ND | 1.8 | 0.92 |
| PYRENE | ND | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 18J | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | 14J | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 261 | 360.7 | 72.2 | 40-130 |
| 2-FLUOROBIPHENYL | 250 | 360.7 | 69.4 | 45-130 |
| TERPHENYL-D14 | 293 | 360.7 | 81.4 | 45-135 |

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SC-131

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 10:30 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 22:56 |
| Lab Samp ID: C305-09 | Dilution Factor: 1 |
| Lab File ID: LD17029A | Matrix : SOIL |
| Ext Btch ID: CPD021S | % Moisture : 7.6 |
| Calib. Ref.: LD17005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | | RL (ug/kg) | MDL (ug/kg) | |
|---|---|---|---|---|---|
| ALPHA-BHC | (ND) | ND | 0.18 | 0.092 | 0.092 |
| GAMMA-BHC (LINDANE) | (ND) | 0.17J | 0.18 | 0.092 | 0.092 |
| BETA-BHC | (ND) | ND | 0.18 | 0.092 | 0.092 |
| HEPTACHLOR | 0.46 | (ND) | 0.18 | 0.092 | 0.092 |
| DELTA-BHC | (ND) | 3.8 | 0.18 | 0.092 | 0.092 |
| ALDRIN | (ND) | ND | 0.18 | 0.092 | 0.092 |
| HEPTACHLOR EPOXIDE | 1.3 | (ND) | 0.18 | 0.092 | 0.092 |
| ENDOSULFAN I | (ND) | 0.75 | 0.18 | 0.092 | 0.092 |
| 4,4'-DDE | 0.22J | (0.63) | 0.37 | 0.18 | 0.18 |
| DIELDRIN | (ND) | ND | 0.37 | 0.18 | 0.18 |
| ENDRIN | 0.97 | (ND) | 0.37 | 0.18 | 0.18 |
| 4,4'-DDD | 0.21J | (ND) | 0.37 | 0.18 | 0.18 |
| ENDOSULFAN II | 1.2 | (ND) | 0.37 | 0.18 | 0.18 |
| 4,4'-DDT | (ND) | 0.40 | 0.37 | 0.18 | 0.18 |
| ENDRIN ALDEHYDE | (ND) | ND | 0.37 | 0.18 | 0.18 |
| ENDOSULFAN SULFATE | (ND) | 0.72 | 0.37 | 0.18 | 0.18 |
| ENDRIN KETONE | (ND) | ND | 0.37 | 0.18 | 0.18 |
| METHOXYCHLOR | 1.8J | (ND) | 1.8 | 0.92 | 0.92 |
| MIREX | 0.74 | (ND) | 0.37 | 0.18 | 0.18 |
| TOXAPHENE | (ND) | ND | 7.1 | 3.6 | 3.6 |
| CHLORDANE (TECHNICAL) | (ND) | ND | 3.7 | 1.8 | 1.8 |

| SURROGATE PARAMETERS | RESULTS | | SPK_AMT | % RECOVERY | | QC LIMIT |
|---|---|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.004 | (7.182) | 5.772 | 86.7 | (124) | 50-130 |
| DECACHLOROBIPHENYL | 4.539 | (5.419) | 5.772 | 78.7 | (93.9) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SL-131

131 cz 6/17/13

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 13:15 |
| Sample ID: SL-131-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 22:01 |
| Lab Samp ID: C305-09 | Dilution Factor: 1 |
| Lab File ID: KD12086A | Matrix : SOIL |
| Ext Btch ID: CPD022S | % Moisture : 7.6 |
| Calib. Ref.: KD12074A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1221 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1232 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1242 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1248 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1254 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1260 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1262 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1268 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 5432 | (ND) \| ND | 3.6 | 1.8 \| 1.8 |
| AROCLOR 5442 | (ND) \| ND | 3.6 | 1.8 \| 1.8 |
| AROCLOR 5460 | (ND) \| ND | 3.6 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.456) \| 4.688 | 5.772 | (112) \| 81.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.269) \| 5.029 | 5.772 | (126) \| 87.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

131 CZ 6/7/13

SL-131

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 02:50 |
| Lab Samp ID: C305-09 | Dilution Factor: 1 |
| Lab File ID: WD09045A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 7.6 |
| Calib. Ref.: WD09037A | Instrument ID : GCTO16 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| 2,4-DB | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| 2,4,5-T | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| 2,4,5-TP(SILVEX) | 0.53 \| (ND) | 0.18 | 0.092 \| 0.092 |
| DALAPON | (ND) \| ND | 9.7 | 4.9 \| 4.9 |
| DICAMBA | (ND) \| ND | 1.3 | 0.65 \| 0.65 |
| DICHLOROPROP | (ND) \| ND | 2.6 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| MCPA | (ND) \| ND | 270 | 140 \| 140 |
| MCPP | (ND) \| ND | 270 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (56.29) \| 43.83 | 162.3 | (34.7) \| 27.0 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

131 07 6/7/13

SL-131

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 03/29/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 03/29/12 |
| SDG NO. | : 12C305 | Date Extracted: | 04/18/12 10:17 |
| Sample ID: | SL-131-NBZ-SS-0.0-0.5 | Date Analyzed: | 04/19/12 14:53 |
| Lab Samp ID: | C305-09R | Dilution Factor: | 1.00 |
| Lab File ID: | 98D11027 | Matrix : | SOIL |
| Ext Btch ID: | IMD027S | % Moisture : | 7.6 |
| Calib. Ref.: | 98D11017 | Instrument ID : | T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9740 | 26.0 | 13.0 |
| Antimony | 0.190J | 0.216 | 0.108 |
| Arsenic | 3.05 | 0.433 | 0.216 |
| Barium | 71.6 | 0.433 | 0.216 |
| Beryllium | 0.372 | 0.108 | 0.0541 |
| Boron | ND | 5.41 | 2.71 |
| Cadmium | 0.166 | 0.108 | 0.0541 |
| Calcium | 2440 | 21.6 | 10.8 |
| Chromium | 17.5 | 0.433 | 0.216 |
| Cobalt | 5.48 | 0.108 | 0.0541 |
| Copper | 7.14 | 0.433 | 0.216 |
| Iron | 20500 | 21.6 | 10.8 |
| Lead | 4.32 | 0.216 | 0.108 |
| Magnesium | 6150 | 10.8 | 5.41 |
| Manganese | 293 | 0.541 | 0.271 |
| Molybdenum | 0.354 | 0.108 | 0.0541 |
| Nickel | 10.3 | 0.433 | 0.216 |
| Potassium | 3140 | 64.9 | 32.5 |
| Selenium | ND | 0.433 | 0.216 |
| Silver | ND | 0.108 | 0.0541 |
| Sodium | ND | 108 | 54.1 |
| Strontium | 6.88 | 0.541 | 0.271 |
| Thallium | 0.225 | 0.108 | 0.0541 |
| Tin | ND | 10.8 | 5.41 |
| Titanium | 1010 | 1.08 | 0.541 |
| Vanadium | 37.4 | 0.108 | 0.0541 |
| Zinc | 50.1 | 3.25 | 1.62 |
| Lithium | 25.8 | 2.16 | 1.08 |
| Phosphorus | 384 | 13.0 | 6.49 |
| Zirconium | ND | 5.41 | 2.71 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD006SB | ND | 1 | NA | 0.100 | 0.0500 | 04/04/1215:25 | 04/04/1213:00 | M47D003010 | M47D003008 | HGD006S | NA | 04/04/12 |
| LCS1S | HGD006SL | 0.847 | 1 | NA | 0.100 | 0.0500 | 04/04/1215:27 | 04/04/1213:00 | M47D003011 | M47D003008 | HGD006S | NA | 04/04/12 |
| LCD1S | HGD006SC | 0.845 | 1 | NA | 0.100 | 0.0500 | 04/04/1215:29 | 04/04/1213:00 | M47D003012 | M47D003008 | HGD006S | NA | 04/04/12 |
| SL-092-NBZ-SS-0.0-0.5AS | C305-05A | 0.989 | 1.00 | 14.6 | 0.117 | 0.0585 | 04/04/1215:31 | 04/04/1213:00 | M47D003013 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | ND | 1.00 | 14.6 | 0.117 | 0.0585 | 04/04/1215:33 | 04/04/1213:00 | M47D003014 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5DL | C305-05J | ND | 5.02 | 14.6 | 0.588 | 0.294 | 04/04/1215:35 | 04/04/1213:00 | M47D003015 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M | 1.05 | 1.01 | 14.6 | 0.118 | 0.0591 | 04/04/1215:37 | 04/04/1213:00 | M47D003016 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S | 1.03 | 1.00 | 14.6 | 0.117 | 0.0585 | 04/04/1215:39 | 04/04/1213:00 | M47D003017 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5AS | C305-08A | 0.911 | 1.00 | 8.9 | 0.110 | 0.0549 | 04/04/1215:41 | 04/04/1213:00 | M47D003018 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | ND | 1.00 | 8.9 | 0.110 | 0.0549 | 04/04/1215:44 | 04/04/1213:00 | M47D003019 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5DL | C305-08J | ND | 5.02 | 8.9 | 0.551 | 0.276 | 04/04/1215:50 | 04/04/1213:00 | M47D003022 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M | 0.951 | 1.00 | 8.9 | 0.110 | 0.0549 | 04/04/1215:52 | 04/04/1213:00 | M47D003023 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S | 0.936 | 0.988 | 8.9 | 0.108 | 0.0542 | 04/04/1215:54 | 04/04/1213:00 | M47D003024 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-044-NBZ-SS-0.0-0.5DL | C305-03T | 24.3 | 50.1 | 3.5 | 5.19 | 2.60 | 04/04/1216:42 | 04/04/1213:00 | M47D003046 | M47D003044 | HGD006S | 03/29/12 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | ND | 0.992 | 17.7 | 0.121 | 0.0603 | 04/04/1215:58 | 04/04/1213:00 | M47D003026 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | ND | 1.00 | 12.5 | 0.114 | 0.0571 | 04/04/1216:00 | 04/04/1213:00 | M47D003027 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | ND | 1.01 | 12.8 | 0.116 | 0.0579 | 04/04/1216:03 | 04/04/1213:00 | M47D003028 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-100-NBZ-SS-0.0-0.5 | C305-09 | ND | 0.990 | 7.6 | 0.107 | 0.0536 | 04/04/1216:05 | 04/04/1213:00 | M47D003029 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | ND | 0.987 | 13.9 | 0.115 | 0.0573 | 04/04/1216:07 | 04/04/1213:00 | M47D003030 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-091-NBZ-SS-4.0-5.0 | C305-12 | ND | 1.00 | 18.6 | 0.123 | 0.0614 | 04/04/1216:09 | 04/04/1213:00 | M47D003031 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | ND | 0.998 | 15.9 | 0.119 | 0.0593 | 04/04/1216:15 | 04/04/1213:00 | M47D003034 | M47D003032 | HGD006S | 03/29/12 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | ND | 0.988 | 8.7 | 0.108 | 0.0541 | 04/04/1216:17 | 04/04/1213:00 | M47D003035 | M47D003032 | HGD006S | 03/29/12 | 03/29/12 |

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CT 6/12/13

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SL-131

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305

Matrix : SOIL
Instrument ID : DO

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD002SB | ND | 1 | NA | 1.00 | 0.500 | 04/03/1216:30 | 04/02/1216:09 | AD03-25 | AD03-23 | ICD002S | NA | 04/02/12 |
| LCS1S | ICD002SL | 5.78 | 1 | NA | 1.00 | 0.500 | 04/03/1216:46 | 04/02/1216:09 | AD03-26 | AD03-23 | ICD002S | NA | 04/02/12 |
| LCD1S | ICD002SC | 5.79 | 1 | NA | 1.00 | 0.500 | 04/03/1217:02 | 04/02/1216:09 | AD03-27 | AD03-23 | ICD002S | NA | 04/02/12 |
| SL-044-NBZ-SS-0.0-0.5 | C305-03 | 0.769J | 1 | NA | 1.00 | 0.500 | 04/03/1217:18 | 04/02/1216:09 | AD03-28 | AD03-23 | ICD002S | 03/29/1213:11 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | 0.529J | 1 | NA | 1.00 | 0.500 | 04/03/1217:35 | 04/02/1216:09 | AD03-29 | AD03-23 | ICD002S | 03/29/1209:09 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1217:51 | 04/02/1216:09 | AD03-30 | AD03-23 | ICD002S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M | 6.25 | 1 | NA | 1.00 | 0.500 | 04/03/1218:07 | 04/02/1216:09 | AD03-31 | AD03-23 | ICD002S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S | 6.26 | 1 | NA | 1.00 | 0.500 | 04/03/1218:23 | 04/02/1216:09 | AD03-32 | AD03-23 | ICD002S | 03/29/1211:43 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1218:39 | 04/02/1216:09 | AD03-33 | AD03-23 | ICD002S | 03/29/1210:05 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1219:44 | 04/02/1216:09 | AD03-37 | AD03-35 | ICD002S | 03/29/1209:25 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1220:00 | 04/02/1216:09 | AD03-38 | AD03-35 | ICD002S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M | 6.25 | 1 | NA | 1.00 | 0.500 | 04/03/1220:16 | 04/02/1216:09 | AD03-39 | AD03-35 | ICD002S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S | 6.20 | 1 | NA | 1.00 | 0.500 | 04/03/1220:32 | 04/02/1216:09 | AD03-40 | AD03-35 | ICD002S | 03/29/1215:10 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1220:49 | 04/02/1216:09 | AD03-41 | AD03-35 | ICD002S | 03/29/1210:35 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | 0.570J | 1 | NA | 1.00 | 0.500 | 04/03/1221:05 | 04/02/1216:09 | AD03-42 | AD03-35 | ICD002S | 03/29/1213:55 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12 | 4.50 | 1 | NA | 1.00 | 0.500 | 04/03/1221:21 | 04/02/1216:09 | AD03-43 | AD03-35 | ICD002S | 03/29/1210:20 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1221:37 | 04/02/1216:09 | AD03-44 | AD03-35 | ICD002S | 03/29/1212:09 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1221:53 | 04/02/1216:09 | AD03-45 | AD03-35 | ICD002S | 03/29/1215:10 | 03/29/12 |

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cz
4/7/13

SL-131

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD006SB | ND | 1 | NA | 20.0 | 10.0 | 04/06/1202:15 | 04/02/1216:00 | JD06028 | JD06027 | PCD006S | NA | 04/02/12 |
| LCS1S | PCD006SL | 272 | 1 | NA | 20.0 | 10.0 | 04/06/1202:57 | 04/02/1216:00 | JD06030 | JD06027 | PCD006S | NA | 04/02/12 |
| LCD1S | PCD006SC | 276 | 1 | NA | 20.0 | 10.0 | 04/06/1203:18 | 04/02/1216:00 | JD06031 | JD06027 | PCD006S | NA | 04/02/12 |
| SL-044-NBZ-SS-0.0-0.5 | C305-03 | 32.1 | 1 | 3.5 | 20.7 | 10.4 | 04/06/1203:39 | 04/02/1216:00 | JD06032 | JD06027 | PCD006S | 03/29/1213:11 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | ND | 1 | 17.7 | 24.3 | 12.2 | 04/06/1204:00 | 04/02/1216:00 | JD06033 | JD06027 | PCD006S | 03/29/1209:09 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | ND | 1 | 14.6 | 23.4 | 11.7 | 04/06/1204:21 | 04/02/1216:00 | JD06034 | JD06027 | PCD006S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M | 316 | 1 | 14.6 | 23.4 | 11.7 | 04/06/1204:42 | 04/02/1216:00 | JD06035 | JD06027 | PCD006S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S | 317 | 1 | 14.6 | 23.4 | 11.7 | 04/06/1205:03 | 04/02/1216:00 | JD06036 | JD06027 | PCD006S | 03/29/1211:43 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | ND | 1 | 12.5 | 22.9 | 11.4 | 04/06/1206:06 | 04/02/1216:00 | JD06039 | JD06038 | PCD006S | 03/29/1210:05 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | ND | 1 | 12.8 | 22.9 | 11.5 | 04/06/1206:27 | 04/02/1216:00 | JD06040 | JD06038 | PCD006S | 03/29/1209:25 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | ND | 1 | 8.9 | 22.0 | 11.0 | 04/06/1206:48 | 04/02/1216:00 | JD06041 | JD06038 | PCD006S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M | 290 | 1 | 8.9 | 22.0 | 11.0 | 04/06/1207:09 | 04/02/1216:00 | JD06042 | JD06038 | PCD006S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S | 292 | 1 | 8.9 | 22.0 | 11.0 | 04/06/1207:30 | 04/02/1216:00 | JD06043 | JD06038 | PCD006S | 03/29/1215:10 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09 | ND | 1 | 7.6 | 21.6 | 10.8 | 04/06/1207:51 | 04/02/1216:00 | JD06044 | JD06038 | PCD006S | 03/29/1210:35 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | ND | 1 | 13.9 | 23.2 | 11.6 | 04/06/1208:12 | 04/02/1216:00 | JD06045 | JD06038 | PCD006S | 03/29/1213:55 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12 | ND | 1 | 18.6 | 24.6 | 12.3 | 04/06/1208:34 | 04/02/1216:00 | JD06046 | JD06038 | PCD006S | 03/29/1210:20 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | ND | 1 | 15.9 | 23.8 | 11.9 | 04/06/1209:37 | 04/02/1216:00 | JD06049 | JD06048 | PCD006S | 03/29/1212:09 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | ND | 1 | 8.7 | 21.9 | 11.0 | 04/06/1209:58 | 04/02/1216:00 | JD06050 | JD06048 | PCD006S | 03/29/1215:10 | 03/29/12 |

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cz 6/17/13

SL-131

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD004SB | ND | 1 | NA | 1.00 | 0.500 | 04/05/1222:20 | 04/04/1214:52 | ID06010 | ID06008 | HCD004S | NA | 04/04/12 |
| MBLK1S | HCD004SQ | ND | 1 | NA | 1.00 | 0.500 | 04/05/1222:30 | 04/04/1214:52 | ID06011 | ID06008 | HCD004S | NA | 04/04/12 |
| LCS1S | CSD004SL | 10.2 | 1 | NA | 1.00 | 0.500 | 04/05/1222:41 | 04/04/1214:52 | ID06012 | ID06008 | HCD004S | NA | 04/04/12 |
| LCS1S | CSD004SX | 11.1 | 1 | NA | 1.00 | 0.500 | 04/05/1222:51 | 04/04/1214:52 | ID06013 | ID06008 | HCD004S | NA | 04/04/12 |
| LCS2S | CID004SL | 302 | 20 | NA | 20.0 | 10.0 | 04/05/1223:02 | 04/04/1214:52 | ID06014 | ID06008 | HCD004S | NA | 04/04/12 |
| LCS2S | CID004SX | 293 | 20 | NA | 20.0 | 10.0 | 04/05/1223:12 | 04/04/1214:52 | ID06015 | ID06008 | HCD004S | NA | 04/04/12 |
| SL-044-NBZ-SS-0.0-0.5 | C305-03 | ND | 1 | 3.5 | 1.04 | 0.518 | 04/05/1223:22 | 04/04/1214:52 | ID06016 | ID06008 | HCD004S | 03/29/1213:11 | 03/29/12 |
| SL-044-NBZ-SS-0.0-0.5 | C305-03R | ND | 1 | 3.5 | 1.04 | 0.518 | 04/05/1223:33 | 04/04/1214:52 | ID06017 | ID06008 | HCD004S | 03/29/1213:11 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | ND | 1 | 17.7 | 1.22 | 0.608 | 04/05/1223:43 | 04/04/1214:52 | ID06018 | ID06008 | HCD004S | 03/29/1209:09 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04R | ND | 1 | 17.7 | 1.22 | 0.608 | 04/05/1223:54 | 04/04/1214:52 | ID06019 | ID06008 | HCD004S | 03/29/1209:09 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | ND | 1 | 14.6 | 1.17 | 0.585 | 04/06/1200:25 | 04/04/1214:52 | ID06022 | ID06020 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05R | ND | 1 | 14.6 | 1.17 | 0.585 | 04/06/1200:35 | 04/04/1214:52 | ID06023 | ID06020 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05H | 197 | 20 | 14.6 | 23.4 | 11.7 | 04/06/1201:48 | 04/04/1214:52 | ID06030 | ID06020 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05H1 | 167 | 20 | 14.6 | 23.4 | 11.7 | 04/06/1201:59 | 04/04/1214:52 | ID06031 | ID06020 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | ND | 1 | 8.9 | 1.10 | 0.549 | 04/06/1202:30 | 04/04/1214:52 | ID06034 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08R | ND | 1 | 8.9 | 1.10 | 0.549 | 04/06/1202:40 | 04/04/1214:52 | ID06035 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08G | 202 | 20 | 8.9 | 22.0 | 11.0 | 04/06/1203:32 | 04/04/1214:52 | ID06040 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08G1 | 194 | 20 | 8.9 | 22.0 | 11.0 | 04/06/1203:43 | 04/04/1214:52 | ID06041 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08H | 193 | 20 | 8.9 | 22.0 | 11.0 | 04/06/1203:53 | 04/04/1214:52 | ID06042 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08H1 | 177 | 20 | 8.9 | 22.0 | 11.0 | 04/06/1204:03 | 04/04/1214:52 | ID06043 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | ND | 1 | 12.5 | 1.14 | 0.571 | 04/06/1204:35 | 04/04/1214:52 | ID06046 | ID06044 | HCD004S | 03/29/1210:05 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06R | ND | 1 | 12.5 | 1.14 | 0.571 | 04/06/1204:45 | 04/04/1214:52 | ID06047 | ID06044 | HCD004S | 03/29/1210:05 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09 | ND | 1 | 7.6 | 1.08 | 0.541 | 04/06/1205:16 | 04/04/1214:52 | ID06050 | ID06044 | HCD004S | 03/29/1210:35 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09R | ND | 1 | 7.6 | 1.08 | 0.541 | 04/06/1205:27 | 04/04/1214:52 | ID06051 | ID06044 | HCD004S | 03/29/1210:35 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | ND | 1 | 13.9 | 1.16 | 0.581 | 04/06/1205:37 | 04/04/1214:52 | ID06052 | ID06044 | HCD004S | 03/29/1213:55 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10R | ND | 1 | 13.9 | 1.16 | 0.581 | 04/06/1205:47 | 04/04/1214:52 | ID06053 | ID06044 | HCD004S | 03/29/1213:55 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12 | ND | 1 | 18.6 | 1.23 | 0.614 | 04/06/1205:58 | 04/04/1214:52 | ID06054 | ID06044 | HCD004S | 03/29/1210:20 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12R | ND | 1 | 18.6 | 1.23 | 0.614 | 04/06/1206:08 | 04/04/1214:52 | ID06055 | ID06044 | HCD004S | 03/29/1210:20 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | ND | 1 | 15.9 | 1.19 | 0.595 | 04/06/1206:39 | 04/04/1214:52 | ID06058 | ID06056 | HCD004S | 03/29/1212:09 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13R | ND | 1 | 15.9 | 1.19 | 0.595 | 04/06/1206:50 | 04/04/1214:52 | ID06059 | ID06056 | HCD004S | 03/29/1212:09 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | ND | 1 | 8.7 | 1.10 | 0.548 | 04/06/1207:00 | 04/04/1214:52 | ID06060 | ID06056 | HCD004S | 03/29/1215:10 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14R | ND | 1 | 8.7 | 1.10 | 0.548 | 04/06/1207:11 | 04/04/1214:52 | ID06061 | ID06056 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M | 12.3 | 1 | 14.6 | 1.17 | 0.585 | 04/06/1210:53 | 04/04/1214:52 | ID06072 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M1 | 10.5 | 1 | 14.6 | 1.17 | 0.585 | 04/06/1211:03 | 04/04/1214:52 | ID06073 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S | 12.1 | 1 | 14.6 | 1.17 | 0.585 | 04/06/1211:14 | 04/04/1214:52 | ID06074 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S1 | 12.5 | 1 | 14.6 | 1.17 | 0.585 | 04/06/1211:24 | 04/04/1214:52 | ID06075 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05G | 178 | 20 | 14.6 | 23.4 | 11.7 | 04/06/1211:34 | 04/04/1214:52 | ID06076 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05G1 | 192 | 20 | 14.6 | 23.4 | 11.7 | 04/06/1211:45 | 04/04/1214:52 | ID06077 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M | 10.0 | 1 | 8.9 | 1.10 | 0.549 | 04/06/1211:55 | 04/04/1214:52 | ID06078 | ID06070 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M1 | 11.4 | 1 | 8.9 | 1.10 | 0.549 | 04/06/1212:06 | 04/04/1214:52 | ID06079 | ID06070 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S | 11.6 | 1 | 8.9 | 1.10 | 0.549 | 04/06/1212:16 | 04/04/1214:52 | ID06080 | ID06070 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S1 | 10.6 | 1 | 8.9 | 1.10 | 0.549 | 04/06/1212:26 | 04/04/1214:52 | ID06081 | ID06070 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | ND | 1 | 12.8 | 1.15 | 0.573 | 04/06/1213:23 | 04/04/1214:52 | ID06084 | ID06082 | HCD004S | 03/29/1209:25 | 03/29/12 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305

Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-044-NBZ-SS-0.0-0.5 | C305-03 | 7.47 | 1 | NA | NA | NA | 03/30/1219:15 | 03/30/1219:15 | 12PHC030S01 | PHC030S | PHC030S | 03/29/1213:11 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | 7.54 | 1 | NA | NA | NA | 03/30/1219:17 | 03/30/1219:15 | 12PHC030S02 | PHC030S | PHC030S | 03/29/1209:09 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | 7.38 | 1 | NA | NA | NA | 03/30/1219:19 | 03/30/1219:15 | 12PHC030S03 | PHC030S | PHC030S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5DUP | C305-05D | 7.42 | 1 | NA | NA | NA | 03/30/1219:20 | 03/30/1219:15 | 12PHC030S04 | PHD030S | PHC030S | 03/29/1211:43 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | 6.80 | 1 | NA | NA | NA | 03/30/1219:21 | 03/30/1219:15 | 12PHC030S05 | PH3030S | PHC030S | 03/29/1210:05 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | 7.00 | 1 | NA | NA | NA | 03/30/1219:22 | 03/30/1219:15 | 12PHC030S06 | PHC030S | PHC030S | 03/29/1209:25 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | 6.83 | 1 | NA | NA | NA | 03/30/1219:23 | 03/30/1219:15 | 12PHC030S07 | PHC030S | PHC030S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5DUP | C305-08D | 6.81 | 1 | NA | NA | NA | 03/30/1219:25 | 03/30/1219:15 | 12PHC030S08 | PHC030S | PHC030S | 03/29/1215:10 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09 | 6.49 | 1 | NA | NA | NA | 03/30/1219:25 | 03/30/1219:15 | 12PHC030S09 | PHC030S | PHC030S | 03/29/1210:35 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | 7.34 | 1 | NA | NA | NA | 03/30/1219:27 | 03/30/1219:15 | 12PHC030S10 | PHC030S | PHC030S | 03/29/1213:55 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12 | 7.43 | 1 | NA | NA | NA | 03/30/1219:29 | 03/30/1219:15 | 12PHC030S11 | PHC030S | PHC030S | 03/29/1210:20 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | 7.24 | 1 | NA | NA | NA | 03/30/1219:33 | 03/30/1219:15 | 12PHC030S12 | PHC030S | PHC030S | 03/29/1212:09 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | 6.91 | 1 | NA | NA | NA | 03/30/1219:34 | 03/30/1219:15 | 12PHC030S13 | PHC030S | PHC030S | 03/29/1215:10 | 03/29/12 |

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CR 4/17/13

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 20, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 03/31/2012
Group Number: 1299284
SDG: DX166
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-079-NBZ-SS-0.0-0.5 Soil | 6600770 |
| SL-121-NBZ-SS-0.0-0.5 Soil | 6600771 |
| SL-134-NBZ-SS-0.0-0.5 Soil | 6600772 |
| SL-101-NBZ-SS-0.0-0.5 Soil | 6600773 |
| SL-103-NBZ-SS-0.0-0.5 Soil | 6600774 |
| SL-118-NBZ-SS-0.0-0.5 Soil | 6600775 |
| SL-118-NBZ-SS-0.0-0.5 MS Soil | 6600776 |
| SL-118-NBZ-SS-0.0-0.5 MSD Soil | 6600777 |
| SL-130-NBZ-SS-0.0-0.5 Soil | 6600778 |
| SL-197-NBZ-SS-0.0-0.5 Soil | 6600779 |
| DUP-004-NBZ-QC-032912 Soil | 6600780 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

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# Analysis Report



**Sample Description:** SL-079-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-NBZ-SS

**LLI Sample # SW 6600770**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/30/2012 09:50

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6601 SDG#: DX166-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 11.5 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-079-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-NBZ-SS

**LLI Sample # SW 6600770**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/30/2012 09:50

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6601 SDG#: DX166-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0712 | J | 0.0490 | 1.12 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.109 | JB | 0.0395 | 5.62 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.162 | JB | 0.0425 | 5.62 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.219 | JB | 0.0433 | 5.62 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.259 | JB | 0.0411 | 5.62 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.50 | JB | 0.0284 | 5.62 | 1 |
| 11031 | OCDD | 3268-87-9 | 17.5 | B | 0.0307 | 11.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.143 | J | 0.0574 | 1.12 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.304 | JB | 0.0365 | 5.62 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.512 | JB | 0.0379 | 5.62 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.247 | JB | 0.0357 | 5.62 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.135 | JB | 0.0322 | 5.62 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.176 | JB | 0.0358 | 5.62 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.286 | JB | 0.0329 | 5.62 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.678 | JB | 0.0184 | 5.62 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.111 | JB | 0.0271 | 5.62 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.19 | JB | 0.0249 | 11.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 66 | 25 - 164 |
| 13C12-12378-PeCDD | 75 | 25 - 181 |
| 13C12-123478-HxCDD | 72 | 32 - 141 |
| 13C12-123678-HxCDD | 75 | 28 - 130 |
| 13C12-123789-HxCDD | 77 | 28 - 130 |
| 13C12-1234678-HpCDD | 69 | 23 - 140 |
| 13C12-OCDD | 62 | 17 - 157 |
| 13C12-2378-TCDF | 65 | 24 - 169 |
| 13C12-12378-PeCDF | 75 | 24 - 185 |
| 13C12-23478-PeCDF | 70 | 21 - 178 |
| 13C12-123478-HxCDF | 71 | 26 - 152 |
| 13C12-123678-HxCDF | 74 | 26 - 123 |
| 13C12-234678-HxCDF | 70 | 28 - 136 |
| 13C12-123789-HxCDF | 69 | 29 - 147 |
| 13C12-1234678-HpCDF | 80 | 28 - 143 |
| 13C12-1234789-HpCDF | 62 | 26 - 138 |
| 13C12-OCDF | 57 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-079-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-NBZ-SS

**LLI Sample # SW 6600770**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/30/2012 09:50

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6601 SDG#: DX166-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-079-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-NBZ-SS

**LLI Sample # SW 6600770**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/30/2012 09:50

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6601 SDG#: DX166-01

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/13/2012 21:32 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12094162401B | 04/03/2012 18:52 | Scott W Freisher | 1 |

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# Analysis Report



**Sample Description:** SL-121-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-NBZ-SS

**LLI Sample # SW 6600771**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/30/2012 11:10

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6602 SDG#: DX166-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.3 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-121-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-NBZ-SS

**LLI Sample # SW 6600771**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/30/2012 11:10

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6602 SDG#: DX166-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.111 | J | 0.0478 | 1.08 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0379 | U | 0.0379 | 5.38 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0871 | JBQ | 0.0328 | 5.38 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.102 | JB | 0.0325 | 5.38 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0988 | JB | 0.0286 | 5.38 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.26 | JB | 0.0350 | 5.38 | 1 |
| 11031 | OCDD | 3268-87-9 | 5.42 | JB | 0.0346 | 10.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.140 | J | 0.0460 | 1.08 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.219 | JB | 0.0299 | 5.38 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.260 | JB | 0.0302 | 5.38 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.130 | JB | 0.0249 | 5.38 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0748 | JB | 0.0232 | 5.38 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0343 | JB | 0.0268 | 5.38 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.173 | JB | 0.0237 | 5.38 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.370 | JB | 0.0305 | 5.38 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.149 | JB | 0.0445 | 5.38 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.657 | JB | 0.0347 | 10.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 76 | 25 - 164 |
| 13C12-12378-PeCDD | 75 | 25 - 181 |
| 13C12-123478-HxCDD | 70 | 32 - 141 |
| 13C12-123678-HxCDD | 73 | 28 - 130 |
| 13C12-123789-HxCDD | 77 | 28 - 130 |
| 13C12-1234678-HpCDD | 66 | 23 - 140 |
| 13C12-OCDD | 59 | 17 - 157 |
| 13C12-2378-TCDF | 68 | 24 - 169 |
| 13C12-12378-PeCDF | 73 | 24 - 185 |
| 13C12-23478-PeCDF | 70 | 21 - 178 |
| 13C12-123478-HxCDF | 69 | 26 - 152 |
| 13C12-123678-HxCDF | 73 | 26 - 123 |
| 13C12-234678-HxCDF | 67 | 28 - 136 |
| 13C12-123789-HxCDF | 64 | 29 - 147 |
| 13C12-1234678-HpCDF | 76 | 28 - 143 |
| 13C12-1234789-HpCDF | 57 | 26 - 138 |
| 13C12-OCDF | 54 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-121-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-NBZ-SS

**LLI Sample # SW 6600771**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/30/2012 11:10

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6602 SDG#: DX166-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-121-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-NBZ-SS

**LLI Sample # SW 6600771**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/30/2012 11:10

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6602 SDG#: DX166-02

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/13/2012 22:29 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-134-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-NBZ-SS

**LLI Sample # SW 6600772**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/30/2012 10:30

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6603 SDG#: DX166-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.6 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-134-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-NBZ-SS

**LLI Sample # SW 6600772**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/30/2012 10:30

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6603 SDG#: DX166-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0306 U | 0.0306 | 1.06 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.120 JB | 0.0261 | 5.31 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.155 JB | 0.0378 | 5.31 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.232 JB | 0.0395 | 5.31 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.218 JB | 0.0335 | 5.31 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 4.16 JB | 0.0368 | 5.31 | 1 |
| 11031 | OCDD | 3268-87-9 | 30.6 B | 0.0240 | 10.6 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.208 J | 0.0912 | 1.06 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.300 JB | 0.0449 | 5.31 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.953 JB | 0.0412 | 5.31 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.224 JB | 0.0294 | 5.31 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.203 JB | 0.0280 | 5.31 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0330 U | 0.0330 | 5.31 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.221 JB | 0.0299 | 5.31 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.01 JB | 0.0279 | 5.31 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0922 JB | 0.0381 | 5.31 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.86 JB | 0.0197 | 10.6 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 89 | 25 - 164 |
| 13C12-12378-PeCDD | 84 | 25 - 181 |
| 13C12-123478-HxCDD | 85 | 32 - 141 |
| 13C12-123678-HxCDD | 88 | 28 - 130 |
| 13C12-123789-HxCDD | 91 | 28 - 130 |
| 13C12-1234678-HpCDD | 81 | 23 - 140 |
| 13C12-OCDD | 71 | 17 - 157 |
| 13C12-2378-TCDF | 85 | 24 - 169 |
| 13C12-12378-PeCDF | 85 | 24 - 185 |
| 13C12-23478-PeCDF | 85 | 21 - 178 |
| 13C12-123478-HxCDF | 88 | 26 - 152 |
| 13C12-123678-HxCDF | 89 | 26 - 123 |
| 13C12-234678-HxCDF | 85 | 28 - 136 |
| 13C12-123789-HxCDF | 84 | 29 - 147 |
| 13C12-1234678-HpCDF | 89 | 28 - 143 |
| 13C12-1234789-HpCDF | 75 | 26 - 138 |
| 13C12-OCDF | 70 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-134-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-134-NBZ-SS**

**LLI Sample # SW 6600772**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/30/2012 10:30

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6603 SDG#: DX166-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-134-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-NBZ-SS

**LLI Sample # SW 6600772**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/30/2012 10:30

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6603 SDG#: DX166-03

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/13/2012 23:25 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

eurofins | Lancaster Laboratories

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# Analysis Report



**Sample Description:** SL-101-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-NBZ-SS

**LLI Sample # SW 6600773**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:05

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6604 SDG#: DX166-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.4 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-101-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-NBZ-SS

**LLI Sample # SW 6600773**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:05

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6604 SDG#: DX166-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0736 J | 0.0394 | 1.10 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.252 JB | 0.0418 | 5.48 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.190 JB | 0.0484 | 5.48 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.440 JB | 0.0498 | 5.48 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.468 JB | 0.0491 | 5.48 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 4.67 JB | 0.0306 | 5.48 | 1 |
| 11031 | OCDD | 3268-87-9 | 39.7 B | 0.0368 | 11.0 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.342 J | 0.0790 | 1.10 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.419 JB | 0.0377 | 5.48 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.720 JB | 0.0361 | 5.48 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.303 JB | 0.0333 | 5.48 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.224 JB | 0.0299 | 5.48 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0980 JB | 0.0360 | 5.48 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.315 JB | 0.0337 | 5.48 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.33 JB | 0.0220 | 5.48 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.138 JB | 0.0317 | 5.48 | 1 |
| 11031 | OCDF | 39001-02-0 | 3.93 JB | 0.0322 | 11.0 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 79 | 25 - 164 |
| 13C12-12378-PeCDD | 81 | 25 - 181 |
| 13C12-123478-HxCDD | 79 | 32 - 141 |
| 13C12-123678-HxCDD | 80 | 28 - 130 |
| 13C12-123789-HxCDD | 73 | 28 - 130 |
| 13C12-1234678-HpCDD | 78 | 23 - 140 |
| 13C12-OCDD | 70 | 17 - 157 |
| 13C12-2378-TCDF | 70 | 24 - 169 |
| 13C12-12378-PeCDF | 81 | 24 - 185 |
| 13C12-23478-PeCDF | 78 | 21 - 178 |
| 13C12-123478-HxCDF | 83 | 26 - 152 |
| 13C12-123678-HxCDF | 88 | 26 - 123 |
| 13C12-234678-HxCDF | 78 | 28 - 136 |
| 13C12-123789-HxCDF | 80 | 29 - 147 |
| 13C12-1234678-HpCDF | 89 | 28 - 143 |
| 13C12-1234789-HpCDF | 70 | 26 - 138 |
| 13C12-OCDF | 65 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-101-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-NBZ-SS

**LLI Sample # SW 6600773**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:05

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6604 SDG#: DX166-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-101-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-NBZ-SS

**LLI Sample # SW 6600773**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:05

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6604 SDG#: DX166-04

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 00:22 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-103-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-NBZ-SS

**LLI Sample # SW 6600774**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 09:25

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6605 SDG#: DX166-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 13.5 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-103-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-NBZ-SS

**LLI Sample # SW 6600774**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 09:25

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6605 SDG#: DX166-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0931 J | 0.0388 | 1.12 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.193 JB | 0.0327 | 5.62 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0870 JB | 0.0360 | 5.62 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.199 JB | 0.0373 | 5.62 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.203 JB | 0.0314 | 5.62 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.91 JB | 0.0297 | 5.62 | 1 |
| 11031 | OCDD | 3268-87-9 | 17.4 B | 0.0317 | 11.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.235 J | 0.0613 | 1.12 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.398 JB | 0.0335 | 5.62 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.538 JB | 0.0323 | 5.62 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.250 JB | 0.0291 | 5.62 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.172 JB | 0.0273 | 5.62 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0708 JB | 0.0313 | 5.62 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.212 JB | 0.0281 | 5.62 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.614 JB | 0.0207 | 5.62 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.126 JB | 0.0319 | 5.62 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.09 JB | 0.0286 | 11.2 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 80 | 25 - 164 |
| 13C12-12378-PeCDD | 79 | 25 - 181 |
| 13C12-123478-HxCDD | 71 | 32 - 141 |
| 13C12-123678-HxCDD | 77 | 28 - 130 |
| 13C12-123789-HxCDD | 80 | 28 - 130 |
| 13C12-1234678-HpCDD | 71 | 23 - 140 |
| 13C12-OCDD | 67 | 17 - 157 |
| 13C12-2378-TCDF | 71 | 24 - 169 |
| 13C12-12378-PeCDF | 80 | 24 - 185 |
| 13C12-23478-PeCDF | 75 | 21 - 178 |
| 13C12-123478-HxCDF | 73 | 26 - 152 |
| 13C12-123678-HxCDF | 76 | 26 - 123 |
| 13C12-234678-HxCDF | 73 | 28 - 136 |
| 13C12-123789-HxCDF | 71 | 29 - 147 |
| 13C12-1234678-HpCDF | 88 | 28 - 143 |
| 13C12-1234789-HpCDF | 63 | 26 - 138 |
| 13C12-OCDF | 55 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-103-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-103-NBZ-SS**

**LLI Sample # SW 6600774**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 09:25

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6605 SDG#: DX166-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-103-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-NBZ-SS

**LLI Sample # SW 6600774**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 09:25

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6605 SDG#: DX166-05

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 01:19 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-118-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-NBZ-SS

**LLI Sample # SW 6600775**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:10

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6606 SDG#: DX166-06BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 9.0 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-118-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-NBZ-SS

**LLI Sample # SW 6600775**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:10

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6606 SDG#: DX166-06BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0407 | J | 0.0325 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.194 | JB | 0.0405 | 5.47 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.100 | JB | 0.0422 | 5.47 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.386 | JB | 0.0436 | 5.47 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.372 | JB | 0.0373 | 5.47 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.70 | JB | 0.0298 | 5.47 | 1 |
| 11031 | OCDD | 3268-87-9 | 21.9 | B | 0.0291 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.269 | J | 0.0443 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.487 | JB | 0.0289 | 5.47 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.401 | JB | 0.0277 | 5.47 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.331 | JB | 0.0309 | 5.47 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.193 | JB | 0.0287 | 5.47 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.200 | JB | 0.0351 | 5.47 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.231 | JB | 0.0319 | 5.47 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.718 | JB | 0.0181 | 5.47 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.143 | JB | 0.0302 | 5.47 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.15 | JB | 0.0256 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 78 | 25 - 164 |
| 13C12-12378-PeCDD | 81 | 25 - 181 |
| 13C12-123478-HxCDD | 71 | 32 - 141 |
| 13C12-123678-HxCDD | 74 | 28 - 130 |
| 13C12-123789-HxCDD | 78 | 28 - 130 |
| 13C12-1234678-HpCDD | 73 | 23 - 140 |
| 13C12-OCDD | 65 | 17 - 157 |
| 13C12-2378-TCDF | 69 | 24 - 169 |
| 13C12-12378-PeCDF | 79 | 24 - 185 |
| 13C12-23478-PeCDF | 77 | 21 - 178 |
| 13C12-123478-HxCDF | 71 | 26 - 152 |
| 13C12-123678-HxCDF | 76 | 26 - 123 |
| 13C12-234678-HxCDF | 70 | 28 - 136 |
| 13C12-123789-HxCDF | 67 | 29 - 147 |
| 13C12-1234678-HpCDF | 87 | 28 - 143 |
| 13C12-1234789-HpCDF | 61 | 26 - 138 |
| 13C12-OCDF | 57 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B* *Detected in Method Blank*
*U* *Undetected*
*J* *Estimated concentration between Estimated Detection Limit and Minimum Level*
*E* *Exceeds calibration range*
*C* *Confirmed quantitation on secondary GC column*
*Q* *EMPC - Estimated Maximum Possible Concentration*
*F* *Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-118-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-NBZ-SS

**LLI Sample # SW 6600775**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:10

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6606 SDG#: DX166-06BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-118-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-118-NBZ-SS**

**LLI Sample # SW 6600775**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:10

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6606 SDG#: DX166-06BKG

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 02:15 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-118-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-118-NBZ-SS

**LLI Sample # SW 6600776**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:10

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6606 SDG#: DX166-06MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 9.0 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-118-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-118-NBZ-SS

**LLI Sample # SW 6600776**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:10

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6606 SDG#: DX166-06MS

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 19.8 | | 0.0362 | 1.08 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 103 | B | 0.0325 | 5.42 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 104 | B | 0.0341 | 5.42 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 100 | B | 0.0343 | 5.42 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 110 | B | 0.0301 | 5.42 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 106 | B | 0.0351 | 5.42 | 1 |
| 11031 | OCDD | 3268-87-9 | 227 | B | 0.0266 | 10.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 19.7 | | 0.0453 | 1.08 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 104 | B | 0.0343 | 5.42 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 99.3 | B | 0.0333 | 5.42 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 107 | B | 0.0422 | 5.42 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 107 | B | 0.0388 | 5.42 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 107 | B | 0.0455 | 5.42 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 104 | B | 0.0405 | 5.42 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 99.7 | B | 0.0290 | 5.42 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 103 | B | 0.0395 | 5.42 | 1 |
| 11031 | OCDF | 39001-02-0 | 214 | B | 0.0280 | 10.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 68 | 25 - 164 |
| 13C12-12378-PeCDD | 69 | 25 - 181 |
| 13C12-123478-HxCDD | 72 | 32 - 141 |
| 13C12-123678-HxCDD | 77 | 28 - 130 |
| 13C12-123789-HxCDD | 79 | 28 - 130 |
| 13C12-1234678-HpCDD | 72 | 23 - 140 |
| 13C12-OCDD | 65 | 17 - 157 |
| 13C12-2378-TCDF | 61 | 24 - 169 |
| 13C12-12378-PeCDF | 66 | 24 - 185 |
| 13C12-23478-PeCDF | 65 | 21 - 178 |
| 13C12-123478-HxCDF | 71 | 26 - 152 |
| 13C12-123678-HxCDF | 74 | 26 - 123 |
| 13C12-234678-HxCDF | 71 | 28 - 136 |
| 13C12-123789-HxCDF | 70 | 29 - 147 |
| 13C12-1234678-HpCDF | 77 | 28 - 143 |
| 13C12-1234789-HpCDF | 65 | 26 - 138 |
| 13C12-OCDF | 60 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-118-NBZ-SS-0.0-0.5 MS Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-118-NBZ-SS**

**LLI Sample # SW 6600776**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:10

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6606 SDG#: DX166-06MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-118-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-118-NBZ-SS

**LLI Sample # SW 6600776**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:10

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6606 SDG#: DX166-06MS

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 03:12 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-118-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-118-NBZ-SS

**LLI Sample # SW 6600777**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:10

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6606 SDG#: DX166-06MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11626 | 28a Moisture Content by 160.3 | n.a. | 9.1 | 0.50 | 0.50 | 1 |
| | The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations. | | | | | |
| 11625 | Moisture Content by 160.3 | n.a. | 9.0 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-118-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-118-NBZ-SS

**LLI Sample # SW 6600777**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:10

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6606 SDG#: DX166-06MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 18.9 | | 0.0332 | 1.07 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 99.0 | B | 0.0302 | 5.35 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 104 | B | 0.0407 | 5.35 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 101 | B | 0.0438 | 5.35 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 105 | B | 0.0357 | 5.35 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 105 | B | 0.0318 | 5.35 | 1 |
| 11031 | OCDD | 3268-87-9 | 226 | B | 0.0269 | 10.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 19.6 | | 0.0455 | 1.07 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 103 | B | 0.0335 | 5.35 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 96.0 | B | 0.0315 | 5.35 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 108 | B | 0.0402 | 5.35 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 107 | B | 0.0382 | 5.35 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 109 | B | 0.0444 | 5.35 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 104 | B | 0.0403 | 5.35 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 98.1 | B | 0.0260 | 5.35 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 102 | B | 0.0354 | 5.35 | 1 |
| 11031 | OCDF | 39001-02-0 | 211 | B | 0.0223 | 10.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 73 | 25 - 164 |
| 13C12-12378-PeCDD | 71 | 25 - 181 |
| 13C12-123478-HxCDD | 68 | 32 - 141 |
| 13C12-123678-HxCDD | 72 | 28 - 130 |
| 13C12-123789-HxCDD | 77 | 28 - 130 |
| 13C12-1234678-HpCDD | 68 | 23 - 140 |
| 13C12-OCDD | 61 | 17 - 157 |
| 13C12-2378-TCDF | 61 | 24 - 169 |
| 13C12-12378-PeCDF | 65 | 24 - 185 |
| 13C12-23478-PeCDF | 64 | 21 - 178 |
| 13C12-123478-HxCDF | 69 | 26 - 152 |
| 13C12-123678-HxCDF | 70 | 26 - 123 |
| 13C12-234678-HxCDF | 68 | 28 - 136 |
| 13C12-123789-HxCDF | 66 | 29 - 147 |
| 13C12-1234678-HpCDF | 72 | 28 - 143 |
| 13C12-1234789-HpCDF | 60 | 26 - 138 |
| 13C12-OCDF | 58 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-118-NBZ-SS-0.0-0.5 MSD Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-118-NBZ-SS**

**LLI Sample # SW 6600777**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:10

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6606 SDG#: DX166-06MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-118-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-118-NBZ-SS

**LLI Sample # SW 6600777**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:10

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6606 SDG#: DX166-06MSD

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 04:08 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11626 | 28a Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-130-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-NBZ-SS

**LLI Sample # SW 6600778**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:35

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6607 SDG#: DX166-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.1 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-130-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-NBZ-SS

**LLI Sample # SW 6600778**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:35

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6607 SDG#: DX166-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0628 JQ | 0.0242 | 1.05 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.185 JB | 0.0268 | 5.25 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.111 JB | 0.0215 | 5.25 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.155 JB | 0.0228 | 5.25 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.132 JB | 0.0213 | 5.25 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.886 JB | 0.0157 | 5.25 | 1 |
| 11031 | OCDD | 3268-87-9 | 4.85 JB | 0.0183 | 10.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.102 J | 0.0321 | 1.05 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.306 JB | 0.0206 | 5.25 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.424 JB | 0.0200 | 5.25 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.206 JB | 0.0181 | 5.25 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.162 JB | 0.0161 | 5.25 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.100 JB | 0.0193 | 5.25 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.136 JB | 0.0180 | 5.25 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.320 JB | 0.0104 | 5.25 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0836 JB | 0.0153 | 5.25 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.527 JB | 0.0168 | 10.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 81 | 25 - 164 |
| 13C12-12378-PeCDD | 78 | 25 - 181 |
| 13C12-123478-HxCDD | 76 | 32 - 141 |
| 13C12-123678-HxCDD | 77 | 28 - 130 |
| 13C12-123789-HxCDD | 76 | 28 - 130 |
| 13C12-1234678-HpCDD | 74 | 23 - 140 |
| 13C12-OCDD | 67 | 17 - 157 |
| 13C12-2378-TCDF | 67 | 24 - 169 |
| 13C12-12378-PeCDF | 75 | 24 - 185 |
| 13C12-23478-PeCDF | 73 | 21 - 178 |
| 13C12-123478-HxCDF | 73 | 26 - 152 |
| 13C12-123678-HxCDF | 79 | 26 - 123 |
| 13C12-234678-HxCDF | 74 | 28 - 136 |
| 13C12-123789-HxCDF | 75 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 66 | 26 - 138 |
| 13C12-OCDF | 60 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-130-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-NBZ-SS

**LLI Sample # SW 6600778**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:35

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6607 SDG#: DX166-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-130-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-NBZ-SS

**LLI Sample # SW 6600778**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:35

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6607 SDG#: DX166-07

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 08:08 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-197-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-NBZ-SS

**LLI Sample # SW 6600779**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 13:55

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6608 SDG#: DX166-08

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 14.6 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-197-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-NBZ-SS

**LLI Sample # SW 6600779**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 13:55

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6608 SDG#: DX166-08

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0567 | U | 0.0567 | 1.15 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.266 | JB | 0.0487 | 5.73 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.263 | JB | 0.0663 | 5.73 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.462 | JB | 0.0689 | 5.73 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.399 | JB | 0.0615 | 5.73 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 6.18 | B | 0.0419 | 5.73 | 1 |
| 11031 | OCDD | 3268-87-9 | 54.3 | B | 0.0431 | 11.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.508 | J | 0.0961 | 1.15 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.852 | JB | 0.0560 | 5.73 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 1.33 | JB | 0.0536 | 5.73 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.519 | JB | 0.0508 | 5.73 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.351 | JB | 0.0489 | 5.73 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.242 | JB | 0.0535 | 5.73 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.420 | JB | 0.0480 | 5.73 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.36 | JB | 0.0328 | 5.73 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.270 | JB | 0.0465 | 5.73 | 1 |
| 11031 | OCDF | 39001-02-0 | 2.79 | JB | 0.0338 | 11.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 67 | 25 - 164 |
| 13C12-12378-PeCDD | 66 | 25 - 181 |
| 13C12-123478-HxCDD | 71 | 32 - 141 |
| 13C12-123678-HxCDD | 72 | 28 - 130 |
| 13C12-123789-HxCDD | 75 | 28 - 130 |
| 13C12-1234678-HpCDD | 68 | 23 - 140 |
| 13C12-OCDD | 64 | 17 - 157 |
| 13C12-2378-TCDF | 70 | 24 - 169 |
| 13C12-12378-PeCDF | 71 | 24 - 185 |
| 13C12-23478-PeCDF | 70 | 21 - 178 |
| 13C12-123478-HxCDF | 71 | 26 - 152 |
| 13C12-123678-HxCDF | 73 | 26 - 123 |
| 13C12-234678-HxCDF | 69 | 28 - 136 |
| 13C12-123789-HxCDF | 68 | 29 - 147 |
| 13C12-1234678-HpCDF | 78 | 28 - 143 |
| 13C12-1234789-HpCDF | 62 | 26 - 138 |
| 13C12-OCDF | 59 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-197-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-NBZ-SS

**LLI Sample # SW 6600779**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 13:55

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6608 SDG#: DX166-08

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-197-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-NBZ-SS

**LLI Sample # SW 6600779**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 13:55

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6608 SDG#: DX166-08

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 09:05 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** DUP-004-NBZ-QC-032912 Soil
SSFL Area IV Collocated Soil Sampling
DUP-004-NBZ

**LLI Sample # SW 6600780**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:10

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6609 SDG#: DX166-09FD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.6 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-004-NBZ-QC-032912 Soil
SSFL Area IV Collocated Soil Sampling
DUP-004-NBZ

**LLI Sample #** SW 6600780
**LLI Group #** 1299284
**Account #** 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:10

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6609 SDG#: DX166-09FD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0737 | J | 0.0447 | 1.08 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.121 | JBQ | 0.0371 | 5.38 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.313 | JB | 0.0561 | 5.38 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.238 | JB | 0.0596 | 5.38 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.283 | JB | 0.0654 | 5.38 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.60 | JB | 0.0349 | 5.38 | 1 |
| 11031 | OCDD | 3268-87-9 | 17.3 | B | 0.0316 | 10.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.148 | J | 0.0476 | 1.08 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.342 | JB | 0.0333 | 5.38 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.323 | JB | 0.0352 | 5.38 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.112 | JBQ | 0.0411 | 5.38 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.101 | JB | 0.0386 | 5.38 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0457 | U | 0.0457 | 5.38 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.219 | JB | 0.0412 | 5.38 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.655 | JB | 0.0245 | 5.38 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0738 | JB | 0.0385 | 5.38 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.13 | JB | 0.0301 | 10.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 76 | 25 - 164 |
| 13C12-12378-PeCDD | 74 | 25 - 181 |
| 13C12-123478-HxCDD | 73 | 32 - 141 |
| 13C12-123678-HxCDD | 74 | 28 - 130 |
| 13C12-123789-HxCDD | 62 | 28 - 130 |
| 13C12-1234678-HpCDD | 72 | 23 - 140 |
| 13C12-OCDD | 66 | 17 - 157 |
| 13C12-2378-TCDF | 66 | 24 - 169 |
| 13C12-12378-PeCDF | 72 | 24 - 185 |
| 13C12-23478-PeCDF | 67 | 21 - 178 |
| 13C12-123478-HxCDF | 73 | 26 - 152 |
| 13C12-123678-HxCDF | 77 | 26 - 123 |
| 13C12-234678-HxCDF | 70 | 28 - 136 |
| 13C12-123789-HxCDF | 67 | 29 - 147 |
| 13C12-1234678-HpCDF | 85 | 28 - 143 |
| 13C12-1234789-HpCDF | 62 | 26 - 138 |
| 13C12-OCDF | 57 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B* *Detected in Method Blank*
*U* *Undetected*
*J* *Estimated concentration between Estimated Detection Limit and Minimum Level*
*E* *Exceeds calibration range*
*C* *Confirmed quantitation on secondary GC column*
*Q* *EMPC - Estimated Maximum Possible Concentration*
*F* *Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-004-NBZ-QC-032912 Soil
SSFL Area IV Collocated Soil Sampling
DUP-004-NBZ

**LLI Sample # SW 6600780**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:10

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6609 SDG#: DX166-09FD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-004-NBZ-QC-032912 Soil
SSFL Area IV Collocated Soil Sampling
DUP-004-NBZ

**LLI Sample # SW 6600780**
**LLI Group # 1299284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 15:10

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6609 SDG#: DX166-09FD

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 10:01 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299284
Reported: 04/20/12 at 01:25 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12094162401B | Sample number(s): 6600770 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Batch number: 12102162401A | Sample number(s): 6600771-6600780 | | | | | | | | |
| 28a Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12103002 | Sample number(s): 6600770-6600780 | | | | | | | | |
| 2378-TCDD | 0.0486 U | 0.0486 | 1.00 | ng/kg | 87 | | 67-158 | | |
| 12378-PeCDD | 0.0493 J | 0.0246 | 5.00 | ng/kg | 94 | | 70-142 | | |
| 123478-HxCDD | 0.0299 J | 0.0290 | 5.00 | ng/kg | 96 | | 70-164 | | |
| 123678-HxCDD | 0.104 J | 0.0292 | 5.00 | ng/kg | 92 | | 76-134 | | |
| 123789-HxCDD | 0.0587 J | 0.0287 | 5.00 | ng/kg | 101 | | 64-162 | | |
| 1234678-HpCDD | 0.498 J | 0.0286 | 5.00 | ng/kg | 94 | | 70-140 | | |
| OCDD | 0.514 J | 0.0384 | 10.0 | ng/kg | 96 | | 78-144 | | |
| 2378-TCDF | 0.0342 U | 0.0342 | 1.00 | ng/kg | 91 | | 75-158 | | |
| 12378-PeCDF | 0.0922 J | 0.0234 | 5.00 | ng/kg | 95 | | 80-134 | | |
| 23478-PeCDF | 0.131 J | 0.0231 | 5.00 | ng/kg | 92 | | 68-160 | | |
| 123478-HxCDF | 0.0599 J | 0.0208 | 5.00 | ng/kg | 98 | | 72-134 | | |
| 123678-HxCDF | 0.0799 J | 0.0183 | 5.00 | ng/kg | 98 | | 84-130 | | |
| 123789-HxCDF | 0.0229 J | 0.0210 | 5.00 | ng/kg | 99 | | 78-130 | | |
| 234678-HxCDF | 0.0864 J | 0.0191 | 5.00 | ng/kg | 94 | | 70-156 | | |
| 1234678-HpCDF | 0.143 J | 0.0176 | 5.00 | ng/kg | 91 | | 82-122 | | |
| 1234789-HpCDF | 0.0810 J | 0.0247 | 5.00 | ng/kg | 95 | | 78-138 | | |
| OCDF | 0.114 J | 0.0330 | 10.0 | ng/kg | 96 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12094162401B | Sample number(s): 6600770 BKG: P600769 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 11.5 | 11.9 | 3 | 20 |
| Batch number: 12102162401A | Sample number(s): 6600771-6600780 BKG: 6600775 | | | | | | | | |
| 28a Moisture Content by 160.3 | | | | | | 9.0 | 9.1 | 1 | 20 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299284
Reported: 04/20/12 at 01:25 PM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Moisture Content by 160.3 | | | | | | 9.0 | 9.1 | 1 | 20 |
| Moisture Content by 160.3 | | | | | | 9.0 | 9.1 | 1 | 20 |
| Batch number: 12103002 | Sample number(s): 6600770-6600780 UNSPK: 6600775 | | | | | | | | |
| 2378-TCDD | 91 | 88 | 67-158 | 5 | 25 | | | | |
| 12378-PeCDD | 95 | 92 | 70-142 | 4 | 25 | | | | |
| 123478-HxCDD | 96 | 97 | 70-164 | 0 | 25 | | | | |
| 123678-HxCDD | 92 | 94 | 76-134 | 0 | 25 | | | | |
| 123789-HxCDD | 102 | 98 | 64-162 | 5 | 25 | | | | |
| 1234678-HpCDD | 95 | 95 | 70-140 | 1 | 25 | | | | |
| OCDD | 94 | 95 | 78-144 | 0 | 25 | | | | |
| 2378-TCDF | 90 | 91 | 75-158 | 0 | 25 | | | | |
| 12378-PeCDF | 96 | 96 | 80-134 | 1 | 25 | | | | |
| 23478-PeCDF | 91 | 89 | 68-160 | 3 | 25 | | | | |
| 123478-HxCDF | 98 | 101 | 72-134 | 1 | 25 | | | | |
| 123678-HxCDF | 99 | 100 | 84-130 | 0 | 25 | | | | |
| 123789-HxCDF | 98 | 101 | 78-130 | 2 | 25 | | | | |
| 234678-HxCDF | 95 | 97 | 70-156 | 0 | 25 | | | | |
| 1234678-HpCDF | 91 | 91 | 82-122 | 2 | 25 | | | | |
| 1234789-HpCDF | 94 | 96 | 78-138 | 0 | 25 | | | | |
| OCDF | 98 | 98 | 63-170 | 1 | 25 | | | | |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12103002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6600770 | 66 | 70 | 71 | 74 | 70 | 69 |
| 6600771 | 76 | 70 | 69 | 73 | 67 | 64 |
| 6600772 | 89 | 85 | 88 | 89 | 85 | 84 |
| 6600773 | 79 | 78 | 83 | 88 | 78 | 80 |
| 6600774 | 80 | 75 | 73 | 76 | 73 | 71 |
| 6600775 | 78 | 77 | 71 | 76 | 70 | 67 |
| 6600776 | 68 | 65 | 71 | 74 | 71 | 70 |
| 6600777 | 73 | 64 | 69 | 70 | 68 | 66 |
| 6600778 | 81 | 73 | 73 | 79 | 74 | 75 |
| 6600779 | 67 | 70 | 71 | 73 | 69 | 68 |
| 6600780 | 76 | 67 | 73 | 77 | 70 | 67 |
| Blank | 59 | 59 | 57 | 62 | 58 | 56 |
| MS | 68 | 65 | 71 | 74 | 71 | 70 |
| MSD | 73 | 64 | 69 | 70 | 68 | 66 |
| OPR | 72 | 63 | 68 | 73 | 70 | 66 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299284
Reported: 04/20/12 at 01:25 PM

## Surrogate Quality Control

| | | | | | | |
|---|---|---|---|---|---|---|
| 6600770 | 80 | 62 | 57 | 75 | 72 | 75 |
| 6600771 | 76 | 57 | 54 | 75 | 70 | 73 |
| 6600772 | 89 | 75 | 70 | 84 | 85 | 88 |
| 6600773 | 89 | 70 | 65 | 81 | 79 | 80 |
| 6600774 | 88 | 63 | 55 | 79 | 71 | 77 |
| 6600775 | 87 | 61 | 57 | 81 | 71 | 74 |
| 6600776 | 77 | 65 | 60 | 69 | 72 | 77 |
| 6600777 | 72 | 60 | 58 | 71 | 68 | 72 |
| 6600778 | 86 | 66 | 60 | 78 | 76 | 77 |
| 6600779 | 78 | 62 | 59 | 66 | 71 | 72 |
| 6600780 | 85 | 62 | 57 | 74 | 73 | 74 |
| Blank | 68 | 52 | 51 | 65 | 64 | 64 |
| MS | 77 | 65 | 60 | 69 | 72 | 77 |
| MSD | 72 | 60 | 58 | 71 | 68 | 72 |
| OPR | 80 | 60 | 56 | 72 | 73 | 75 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6600770 | 77 | 69 | 62 | 65 | 75 |
| 6600771 | 77 | 66 | 59 | 68 | 73 |
| 6600772 | 91 | 81 | 71 | 85 | 85 |
| 6600773 | 73 | 78 | 70 | 70 | 81 |
| 6600774 | 80 | 71 | 67 | 71 | 80 |
| 6600775 | 78 | 73 | 65 | 69 | 79 |
| 6600776 | 79 | 72 | 65 | 61 | 66 |
| 6600777 | 77 | 68 | 61 | 61 | 65 |
| 6600778 | 76 | 74 | 67 | 67 | 75 |
| 6600779 | 75 | 68 | 64 | 70 | 71 |
| 6600780 | 62 | 72 | 66 | 66 | 72 |
| Blank | 62 | 60 | 59 | 52 | 60 |
| MS | 79 | 72 | 65 | 61 | 66 |
| MSD | 77 | 68 | 61 | 61 | 65 |
| OPR | 73 | 72 | 66 | 59 | 66 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1299284 Sample# 6600770-80

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSIS | SECONDARY ANALYSIS | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C.<br>Samplers Signatures: | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-079-NBZ-SS-0.0-0.5 | 3.30.12 | 0950 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-121-NBZ-SS-0.0-0.5 | 3.30.12 | 1110 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-134-NBZ-SS-0.0-0.5 | 3.30.12 | 1030 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-101-NBZ-SS-0.0-0.5 | 3.29.12 | 1005 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-103-NBZ-SS-0.0-0.5 | 3.29.12 | 0925 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-118-NBZ-SS-0.0-0.5MS | 3.29.12 | 1510 | SOIL | NONE | 1-16 oz Jar | X | | | | MS/MSD |
| SL-130-NBZ-SS-0.0-0.5 | 3.29.12 | 1035 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-197-NBZ-SS-0.0-0.5 | 3.29.12 | 1355 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| DUP-004-NBZ-QC-032912 | 3.29.12 | 1510 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| Relinquished by: (*Signature*) | Date/Time<br>3/30/2012 / 1630 | | Received for Laboratory by: (*Signature*)<br>LLI 3/31/12 0935 | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s)<br>7934 0303 2826 | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 24, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/04/2012
Group Number: 1299989
SDG: DX166
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-127-NBZ-SS-0.0-0.5 Soil | 6605201 |
| SL-169-NBZ-SS-0.0-0.5 Soil | 6605202 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

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# Analysis Report



**Sample Description:** SL-127-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-NBZ-SS

**LLI Sample # SW 6605201**
**LLI Group # 1299989**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 10:10

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 12:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6610 SDG#: DX166-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 6.2 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-127-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-NBZ-SS

**LLI Sample # SW 6605201**
**LLI Group # 1299989**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 10:10

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 12:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6610 SDG#: DX166-10

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0313 | U | 0.0313 | 1.06 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0246 | U | 0.0246 | 5.31 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0642 | JB | 0.0230 | 5.31 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.106 | JB | 0.0252 | 5.31 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0928 | JB | 0.0206 | 5.31 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.03 | JB | 0.0254 | 5.31 | 1 |
| 11031 | OCDD | 3268-87-9 | 4.98 | JB | 0.0228 | 10.6 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0889 | J | 0.0326 | 1.06 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0726 | JB | 0.0199 | 5.31 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.169 | JB | 0.0198 | 5.31 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.171 | JB | 0.0209 | 5.31 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0725 | JB | 0.0178 | 5.31 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0522 | JB | 0.0221 | 5.31 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0694 | JBQ | 0.0192 | 5.31 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.226 | JB | 0.0149 | 5.31 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0595 | JB | 0.0268 | 5.31 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.397 | JB | 0.0244 | 10.6 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 74 | 25 - 164 |
| 13C12-12378-PeCDD | 76 | 25 - 181 |
| 13C12-123478-HxCDD | 73 | 32 - 141 |
| 13C12-123678-HxCDD | 70 | 28 - 130 |
| 13C12-123789-HxCDD | 78 | 28 - 130 |
| 13C12-1234678-HpCDD | 70 | 23 - 140 |
| 13C12-OCDD | 64 | 17 - 157 |
| 13C12-2378-TCDF | 63 | 24 - 169 |
| 13C12-12378-PeCDF | 75 | 24 - 185 |
| 13C12-23478-PeCDF | 70 | 21 - 178 |
| 13C12-123478-HxCDF | 66 | 26 - 152 |
| 13C12-123678-HxCDF | 75 | 26 - 123 |
| 13C12-234678-HxCDF | 67 | 28 - 136 |
| 13C12-123789-HxCDF | 64 | 29 - 147 |
| 13C12-1234678-HpCDF | 91 | 28 - 143 |
| 13C12-1234789-HpCDF | 54 | 26 - 138 |
| 13C12-OCDF | 49 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-127-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-NBZ-SS

**LLI Sample # SW 6605201**
**LLI Group # 1299989**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 10:10

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 12:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6610 SDG#: DX166-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-127-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-NBZ-SS

**LLI Sample # SW 6605201**
**LLI Group # 1299989**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 10:10

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 12:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6610 SDG#: DX166-10

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 11:55 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401A | 04/17/2012 11:46 | William C Schwebel | 1 |

eurofins | Lancaster Laboratories

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# Analysis Report



**Sample Description:** SL-169-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-NBZ-SS

**LLI Sample # SW 6605202**
**LLI Group # 1299989**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 09:11

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 12:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6611 SDG#: DX166-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 9.9 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-169-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-NBZ-SS

**LLI Sample # SW 6605202**
**LLI Group # 1299989**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 09:11

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 12:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6611 SDG#: DX166-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0333 U | 0.0333 | 1.11 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.141 JB | 0.0306 | 5.55 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.143 JB | 0.0347 | 5.55 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.290 JB | 0.0349 | 5.55 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.323 JB | 0.0316 | 5.55 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 4.29 JB | 0.0251 | 5.55 | 1 |
| 11031 | OCDD | 3268-87-9 | 35.1 B | 0.0248 | 11.1 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.151 J | 0.0501 | 1.11 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.218 JB | 0.0293 | 5.55 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.422 JB | 0.0290 | 5.55 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.202 JB | 0.0255 | 5.55 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.128 JB | 0.0232 | 5.55 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0802 JB | 0.0261 | 5.55 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.200 JB | 0.0242 | 5.55 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.751 JB | 0.0162 | 5.55 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.109 JB | 0.0246 | 5.55 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.66 JB | 0.0215 | 11.1 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 80 | 25 - 164 |
| 13C12-12378-PeCDD | 81 | 25 - 181 |
| 13C12-123478-HxCDD | 81 | 32 - 141 |
| 13C12-123678-HxCDD | 85 | 28 - 130 |
| 13C12-123789-HxCDD | 88 | 28 - 130 |
| 13C12-1234678-HpCDD | 80 | 23 - 140 |
| 13C12-OCDD | 77 | 17 - 157 |
| 13C12-2378-TCDF | 76 | 24 - 169 |
| 13C12-12378-PeCDF | 83 | 24 - 185 |
| 13C12-23478-PeCDF | 79 | 21 - 178 |
| 13C12-123478-HxCDF | 81 | 26 - 152 |
| 13C12-123678-HxCDF | 88 | 26 - 123 |
| 13C12-234678-HxCDF | 81 | 28 - 136 |
| 13C12-123789-HxCDF | 79 | 29 - 147 |
| 13C12-1234678-HpCDF | 100 | 28 - 143 |
| 13C12-1234789-HpCDF | 72 | 26 - 138 |
| 13C12-OCDF | 67 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-169-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-169-NBZ-SS**

**LLI Sample # SW 6605202**
**LLI Group # 1299989**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 09:11

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 12:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6611 SDG#: DX166-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-169-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-NBZ-SS

**LLI Sample # SW 6605202**
**LLI Group # 1299989**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 09:11

Submitted: 04/04/2012 09:30
Reported: 04/24/2012 12:00

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6611 SDG#: DX166-11

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 12:51 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401A | 04/17/2012 11:46 | William C Schwebel | 1 |

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299989
Reported: 04/24/12 at 12:00 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12108162401A | Sample number(s): 6605201-6605202 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12103002 | Sample number(s): 6605201-6605202 | | | | | | | | |
| 2378-TCDD | 0.0486 U | 0.0486 | 1.00 | ng/kg | 87 | | 67-158 | | |
| 12378-PeCDD | 0.0493 J | 0.0246 | 5.00 | ng/kg | 94 | | 70-142 | | |
| 123478-HxCDD | 0.0299 J | 0.0290 | 5.00 | ng/kg | 96 | | 70-164 | | |
| 123678-HxCDD | 0.104 J | 0.0292 | 5.00 | ng/kg | 92 | | 76-134 | | |
| 123789-HxCDD | 0.0587 J | 0.0287 | 5.00 | ng/kg | 101 | | 64-162 | | |
| 1234678-HpCDD | 0.498 J | 0.0286 | 5.00 | ng/kg | 94 | | 70-140 | | |
| OCDD | 0.514 J | 0.0384 | 10.0 | ng/kg | 96 | | 78-144 | | |
| 2378-TCDF | 0.0342 U | 0.0342 | 1.00 | ng/kg | 91 | | 75-158 | | |
| 12378-PeCDF | 0.0922 J | 0.0234 | 5.00 | ng/kg | 95 | | 80-134 | | |
| 23478-PeCDF | 0.131 J | 0.0231 | 5.00 | ng/kg | 92 | | 68-160 | | |
| 123478-HxCDF | 0.0599 J | 0.0208 | 5.00 | ng/kg | 98 | | 72-134 | | |
| 123678-HxCDF | 0.0799 J | 0.0183 | 5.00 | ng/kg | 98 | | 84-130 | | |
| 123789-HxCDF | 0.0229 J | 0.0210 | 5.00 | ng/kg | 99 | | 78-130 | | |
| 234678-HxCDF | 0.0864 J | 0.0191 | 5.00 | ng/kg | 94 | | 70-156 | | |
| 1234678-HpCDF | 0.143 J | 0.0176 | 5.00 | ng/kg | 91 | | 82-122 | | |
| 1234789-HpCDF | 0.0810 J | 0.0247 | 5.00 | ng/kg | 95 | | 78-138 | | |
| OCDF | 0.114 J | 0.0330 | 10.0 | ng/kg | 96 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12108162401A | Sample number(s): 6605201-6605202 | | | | | BKG: P605188 | | | |
| Moisture Content by 160.3 | | | | | | 8.5 | 8.7 | 1 | 20 |
| Batch number: 12103002 | Sample number(s): 6605201-6605202 | | | | | UNSPK: P600775 | | | |
| 2378-TCDD | 91 | 88 | 67-158 | 5 | 25 | | | | |
| 12378-PeCDD | 95 | 92 | 70-142 | 4 | 25 | | | | |
| 123478-HxCDD | 96 | 97 | 70-164 | 0 | 25 | | | | |
| 123678-HxCDD | 92 | 94 | 76-134 | 0 | 25 | | | | |
| 123789-HxCDD | 102 | 98 | 64-162 | 5 | 25 | | | | |
| 1234678-HpCDD | 95 | 95 | 70-140 | 1 | 25 | | | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299989
Reported: 04/24/12 at 12:00 PM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| OCDD | 94 | 95 | 78-144 | 0 | 25 | | | | |
| 2378-TCDF | 90 | 91 | 75-158 | 0 | 25 | | | | |
| 12378-PeCDF | 96 | 96 | 80-134 | 1 | 25 | | | | |
| 23478-PeCDF | 91 | 89 | 68-160 | 3 | 25 | | | | |
| 123478-HxCDF | 98 | 101 | 72-134 | 1 | 25 | | | | |
| 123678-HxCDF | 99 | 100 | 84-130 | 0 | 25 | | | | |
| 123789-HxCDF | 98 | 101 | 78-130 | 2 | 25 | | | | |
| 234678-HxCDF | 95 | 97 | 70-156 | 0 | 25 | | | | |
| 1234678-HpCDF | 91 | 91 | 82-122 | 2 | 25 | | | | |
| 1234789-HpCDF | 94 | 96 | 78-138 | 0 | 25 | | | | |
| OCDF | 98 | 98 | 63-170 | 1 | 25 | | | | |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12103002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6605201 | 74 | 70 | 66 | 75 | 67 | 64 |
| 6605202 | 80 | 79 | 81 | 88 | 81 | 79 |
| Blank | 59 | 59 | 57 | 62 | 58 | 56 |
| MS | 68 | 65 | 71 | 74 | 71 | 70 |
| MSD | 73 | 64 | 69 | 70 | 68 | 66 |
| OPR | 72 | 63 | 68 | 73 | 70 | 66 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6605201 | 91 | 54 | 49 | 76 | 73 | 70 |
| 6605202 | 100 | 72 | 67 | 81 | 81 | 85 |
| Blank | 68 | 52 | 51 | 65 | 64 | 64 |
| MS | 77 | 65 | 60 | 69 | 72 | 77 |
| MSD | 72 | 60 | 58 | 71 | 68 | 72 |
| OPR | 80 | 60 | 56 | 72 | 73 | 75 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6605201 | 78 | 70 | 64 | 63 | 75 |
| 6605202 | 88 | 80 | 77 | 76 | 83 |
| Blank | 62 | 60 | 59 | 52 | 60 |
| MS | 79 | 72 | 65 | 61 | 66 |
| MSD | 77 | 68 | 61 | 61 | 65 |
| OPR | 73 | 72 | 66 | 59 | 66 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com



# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1299989
Reported: 04/24/12 at 12:00 PM

## Surrogate Quality Control

| | | | | | |
|---|---|---|---|---|---|
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1299989 Sample#6605201-02

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSIS | SECONDARY ANALYSIS | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-025-NBZ-SS-0.0-0.5 | 4.02.12 | 1005 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-026-NBZ-SS-0.0-0.5 | 4.02.12 | 1250 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-027-NBZ-SS-0.0-0.5 | 4.02.12 | 1005 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-028-NBZ-SS-0.0-0.5 | 4.02.12 | 0910 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-107-NBZ-SS-0.0-0.5 | 4.02.12 | 1358 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-111-NBZ-SS-0.0-0.5 | 4.02.12 | 1333 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-112-NBZ-SS-0.0-0.5 | 4.02.12 | 1040 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-113-NBZ-SS-0.0-0.5 | 4.02.12 | 0929 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-138-NBZ-SS-0.0-0.5 | 4.02.12 | 1011 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-194-NBZ-SS-0.0-0.5 | 4.02.12 | 1440 | SOIL | NONE | 1-16 oz Jar | X | | | | |
| SL-031-NBZ-SS-0.0-0.5 | 4.03.12 | 0930 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-033-NBZ-SS-0.0-0.5 | 4.03.12 | 1030 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-034-NBZ-SS-0.0-0.5 | 4.03.12 | 1122 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-108-NBZ-SS-0.0-0.5 | 4.03.12 | 0945 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-122-NBZ-SS-0.0-0.5 | 4.03.12 | 1103 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-127-NBZ-SS-0.0-0.5 | 4.03.12 | 1010 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-169-NBZ-SS-0.0-0.5 | 4.03.12 | 0911 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| Relinquished by: (*Signature*) | Date/Time<br>4/03/2012 / 1630 | | Received for Laboratory by: (*Signature*)<br>Brandy Bundy 4.4.12 930 | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s)<br>7982 4521 9334 | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 24, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/05/2012
Group Number: 1300396
SDG: DX166
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-032-NBZ-SS-0.0-0.5 Soil | 6607522 |
| SL-035-NBZ-SS-0.0-0.5 Soil | 6607523 |
| SL-035-NBZ-SB-2.0-3.0 Soil | 6607524 |
| SL-115-NBZ-SS-0.0-0.5 Soil | 6607525 |
| SL-140-NBZ-SS-0.0-0.5 Soil | 6607526 |
| SL-198-NBZ-SS-0.0-0.5 Soil | 6607527 |
| SL-020-NBZ-SB-2.5-3.5 Soil | 6607528 |
| SL-097-NBZ-SS-0.0-0.5 Soil | 6607529 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-032-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-NBZ-SS

**LLI Sample # SW 6607522**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:00

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6612 SDG#: DX166-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 11.7 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-032-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-NBZ-SS

**LLI Sample # SW 6607522**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:00

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6612 SDG#: DX166-12

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0428 | J | 0.0348 | 1.10 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.251 | JB | 0.0430 | 5.51 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.114 | JBQ | 0.0480 | 5.51 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 1.34 | JB | 0.0521 | 5.51 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 1.72 | JB | 0.0439 | 5.51 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.91 | JB | 0.0307 | 5.51 | 1 |
| 11031 | OCDD | 3268-87-9 | 19.1 | B | 0.0336 | 11.0 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.166 | J | 0.0562 | 1.10 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.421 | JB | 0.0339 | 5.51 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.479 | JB | 0.0348 | 5.51 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.207 | JB | 0.0439 | 5.51 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.236 | JB | 0.0393 | 5.51 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.305 | JB | 0.0465 | 5.51 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.245 | JB | 0.0413 | 5.51 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.775 | JB | 0.0217 | 5.51 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.120 | JB | 0.0323 | 5.51 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.30 | JB | 0.0276 | 11.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 73 | 25 - 164 |
| 13C12-12378-PeCDD | 68 | 25 - 181 |
| 13C12-123478-HxCDD | 75 | 32 - 141 |
| 13C12-123678-HxCDD | 73 | 28 - 130 |
| 13C12-123789-HxCDD | 80 | 28 - 130 |
| 13C12-1234678-HpCDD | 70 | 23 - 140 |
| 13C12-OCDD | 63 | 17 - 157 |
| 13C12-2378-TCDF | 68 | 24 - 169 |
| 13C12-12378-PeCDF | 73 | 24 - 185 |
| 13C12-23478-PeCDF | 68 | 21 - 178 |
| 13C12-123478-HxCDF | 74 | 26 - 152 |
| 13C12-123678-HxCDF | 80 | 26 - 123 |
| 13C12-234678-HxCDF | 73 | 28 - 136 |
| 13C12-123789-HxCDF | 69 | 29 - 147 |
| 13C12-1234678-HpCDF | 88 | 28 - 143 |
| 13C12-1234789-HpCDF | 61 | 26 - 138 |
| 13C12-OCDF | 56 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-032-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-NBZ-SS

**LLI Sample # SW 6607522**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:00

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6612 SDG#: DX166-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-032-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-NBZ-SS

**LLI Sample # SW 6607522**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:00

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6612 SDG#: DX166-12

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 13:48 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-035-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-NBZ-SS

**LLI Sample # SW 6607523**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:30

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6613 SDG#: DX166-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 11.5 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-035-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-NBZ-SS

**LLI Sample # SW 6607523**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:30

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6613 SDG#: DX166-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0634 J | 0.0390 | 1.10 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.153 JB | 0.0401 | 5.51 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.157 JB | 0.0516 | 5.51 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.636 JB | 0.0546 | 5.51 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.481 JB | 0.0464 | 5.51 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 9.72 B | 0.0332 | 5.51 | 1 |
| 11031 | OCDD | 3268-87-9 | 82.3 B | 0.0374 | 11.0 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.165 JQ | 0.0544 | 1.10 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.343 JB | 0.0339 | 5.51 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.405 JB | 0.0366 | 5.51 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.286 JB | 0.0344 | 5.51 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.213 JB | 0.0313 | 5.51 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0829 JB | 0.0377 | 5.51 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.294 JB | 0.0330 | 5.51 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 3.86 JB | 0.0253 | 5.51 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.524 JB | 0.0390 | 5.51 | 1 |
| 11031 | OCDF | 39001-02-0 | 20.4 B | 0.0342 | 11.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 75 | 25 - 164 |
| 13C12-12378-PeCDD | 66 | 25 - 181 |
| 13C12-123478-HxCDD | 71 | 32 - 141 |
| 13C12-123678-HxCDD | 70 | 28 - 130 |
| 13C12-123789-HxCDD | 76 | 28 - 130 |
| 13C12-1234678-HpCDD | 65 | 23 - 140 |
| 13C12-OCDD | 59 | 17 - 157 |
| 13C12-2378-TCDF | 71 | 24 - 169 |
| 13C12-12378-PeCDF | 72 | 24 - 185 |
| 13C12-23478-PeCDF | 66 | 21 - 178 |
| 13C12-123478-HxCDF | 69 | 26 - 152 |
| 13C12-123678-HxCDF | 73 | 26 - 123 |
| 13C12-234678-HxCDF | 68 | 28 - 136 |
| 13C12-123789-HxCDF | 65 | 29 - 147 |
| 13C12-1234678-HpCDF | 81 | 28 - 143 |
| 13C12-1234789-HpCDF | 57 | 26 - 138 |
| 13C12-OCDF | 52 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-035-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-NBZ-SS

**LLI Sample # SW 6607523**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:30

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6613 SDG#: DX166-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-035-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-NBZ-SS

**LLI Sample # SW 6607523**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:30

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6613 SDG#: DX166-13

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 14:45 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-035-NBZ-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-NBZ-SB

**LLI Sample # SW 6607524**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:40

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6614 SDG#: DX166-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 4.2 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-035-NBZ-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-NBZ-SB

**LLI Sample # SW 6607524**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:40

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6614 SDG#: DX166-14

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.118 | J | 0.0289 | 0.994 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0902 | JB | 0.0290 | 4.97 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.210 | JB | 0.0237 | 4.97 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.176 | JB | 0.0251 | 4.97 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.152 | JB | 0.0251 | 4.97 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.342 | JB | 0.0225 | 4.97 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.685 | JB | 0.0284 | 9.94 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0585 | J | 0.0225 | 0.994 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.200 | JB | 0.0158 | 4.97 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.135 | JB | 0.0164 | 4.97 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0940 | JB | 0.0168 | 4.97 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0749 | JB | 0.0149 | 4.97 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0926 | JB | 0.0204 | 4.97 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.163 | JBQ | 0.0176 | 4.97 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.0711 | JB | 0.0105 | 4.97 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0400 | JB | 0.0209 | 4.97 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.148 | JB | 0.0247 | 9.94 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 70 | 25 - 164 |
| 13C12-12378-PeCDD | 67 | 25 - 181 |
| 13C12-123478-HxCDD | 67 | 32 - 141 |
| 13C12-123678-HxCDD | 70 | 28 - 130 |
| 13C12-123789-HxCDD | 67 | 28 - 130 |
| 13C12-1234678-HpCDD | 66 | 23 - 140 |
| 13C12-OCDD | 63 | 17 - 157 |
| 13C12-2378-TCDF | 64 | 24 - 169 |
| 13C12-12378-PeCDF | 69 | 24 - 185 |
| 13C12-23478-PeCDF | 65 | 21 - 178 |
| 13C12-123478-HxCDF | 67 | 26 - 152 |
| 13C12-123678-HxCDF | 74 | 26 - 123 |
| 13C12-234678-HxCDF | 66 | 28 - 136 |
| 13C12-123789-HxCDF | 60 | 29 - 147 |
| 13C12-1234678-HpCDF | 89 | 28 - 143 |
| 13C12-1234789-HpCDF | 52 | 26 - 138 |
| 13C12-OCDF | 46 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-035-NBZ-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-NBZ-SB

**LLI Sample # SW 6607524**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:40

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6614 SDG#: DX166-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-035-NBZ-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-NBZ-SB

**LLI Sample # SW 6607524**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:40

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6614 SDG#: DX166-14

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 15:41 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-115-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-NBZ-SS

**LLI Sample # SW 6607525**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:32

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6615 SDG#: DX166-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 12.3 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-115-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-NBZ-SS

**LLI Sample # SW 6607525**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:32

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6615 SDG#: DX166-15

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.101 | J | 0.0269 | 1.10 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.128 | JB | 0.0276 | 5.49 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.158 | JB | 0.0406 | 5.49 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.312 | JB | 0.0414 | 5.49 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.223 | JB | 0.0396 | 5.49 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.69 | JB | 0.0307 | 5.49 | 1 |
| 11031 | OCDD | 3268-87-9 | 22.0 | B | 0.0314 | 11.0 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.145 | J | 0.0538 | 1.10 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.391 | JB | 0.0344 | 5.49 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.581 | JB | 0.0340 | 5.49 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.285 | JB | 0.0380 | 5.49 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.216 | JB | 0.0334 | 5.49 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0482 | JB | 0.0426 | 5.49 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.263 | JB | 0.0366 | 5.49 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.791 | JB | 0.0186 | 5.49 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.120 | JB | 0.0306 | 5.49 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.66 | JB | 0.0273 | 11.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 72 | 25 - 164 |
| 13C12-12378-PeCDD | 67 | 25 - 181 |
| 13C12-123478-HxCDD | 73 | 32 - 141 |
| 13C12-123678-HxCDD | 76 | 28 - 130 |
| 13C12-123789-HxCDD | 76 | 28 - 130 |
| 13C12-1234678-HpCDD | 69 | 23 - 140 |
| 13C12-OCDD | 60 | 17 - 157 |
| 13C12-2378-TCDF | 65 | 24 - 169 |
| 13C12-12378-PeCDF | 68 | 24 - 185 |
| 13C12-23478-PeCDF | 64 | 21 - 178 |
| 13C12-123478-HxCDF | 72 | 26 - 152 |
| 13C12-123678-HxCDF | 78 | 26 - 123 |
| 13C12-234678-HxCDF | 71 | 28 - 136 |
| 13C12-123789-HxCDF | 65 | 29 - 147 |
| 13C12-1234678-HpCDF | 85 | 28 - 143 |
| 13C12-1234789-HpCDF | 59 | 26 - 138 |
| 13C12-OCDF | 51 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-115-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-NBZ-SS

**LLI Sample # SW 6607525**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:32

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6615 SDG#: DX166-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-115-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-NBZ-SS

**LLI Sample # SW 6607525**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:32

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6615 SDG#: DX166-15

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 16:38 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401B | 04/17/2012 11:46 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-140-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-NBZ-SS

**LLI Sample # SW 6607526**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:06

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6616 SDG#: DX166-16

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 14.4 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-140-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-NBZ-SS

**LLI Sample # SW 6607526**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:06

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6616 SDG#: DX166-16

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0389 | J | 0.0352 | 1.11 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.161 | JB | 0.0377 | 5.56 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.132 | JB | 0.0486 | 5.56 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.293 | JB | 0.0479 | 5.56 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.281 | JB | 0.0475 | 5.56 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.40 | JB | 0.0332 | 5.56 | 1 |
| 11031 | OCDD | 3268-87-9 | 27.0 | B | 0.0376 | 11.1 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.216 | J | 0.0643 | 1.11 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.410 | JB | 0.0359 | 5.56 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.798 | JB | 0.0367 | 5.56 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.336 | JB | 0.0391 | 5.56 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.216 | JB | 0.0346 | 5.56 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.113 | JB | 0.0435 | 5.56 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.308 | JB | 0.0377 | 5.56 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.03 | JB | 0.0207 | 5.56 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.179 | JB | 0.0364 | 5.56 | 1 |
| 11031 | OCDF | 39001-02-0 | 2.09 | JB | 0.0289 | 11.1 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 70 | 25 - 164 |
| 13C12-12378-PeCDD | 67 | 25 - 181 |
| 13C12-123478-HxCDD | 73 | 32 - 141 |
| 13C12-123678-HxCDD | 76 | 28 - 130 |
| 13C12-123789-HxCDD | 75 | 28 - 130 |
| 13C12-1234678-HpCDD | 68 | 23 - 140 |
| 13C12-OCDD | 63 | 17 - 157 |
| 13C12-2378-TCDF | 69 | 24 - 169 |
| 13C12-12378-PeCDF | 76 | 24 - 185 |
| 13C12-23478-PeCDF | 69 | 21 - 178 |
| 13C12-123478-HxCDF | 75 | 26 - 152 |
| 13C12-123678-HxCDF | 82 | 26 - 123 |
| 13C12-234678-HxCDF | 74 | 28 - 136 |
| 13C12-123789-HxCDF | 68 | 29 - 147 |
| 13C12-1234678-HpCDF | 90 | 28 - 143 |
| 13C12-1234789-HpCDF | 58 | 26 - 138 |
| 13C12-OCDF | 52 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-140-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-NBZ-SS

**LLI Sample # SW 6607526**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:06

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6616 SDG#: DX166-16

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-140-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-NBZ-SS

**LLI Sample # SW 6607526**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 14:06

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6616 SDG#: DX166-16

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 20:38 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401B | 04/17/2012 11:46 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-198-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-NBZ-SS

**LLI Sample # SW 6607527**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 15:26

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6617 SDG#: DX166-17

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.2 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-198-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-NBZ-SS

**LLI Sample # SW 6607527**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 15:26

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6617 SDG#: DX166-17

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0391 | U | 0.0391 | 1.04 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0500 | JBQ | 0.0295 | 5.21 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0574 | JB | 0.0315 | 5.21 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0877 | JB | 0.0336 | 5.21 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.128 | JB | 0.0288 | 5.21 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.05 | JB | 0.0348 | 5.21 | 1 |
| 11031 | OCDD | 3268-87-9 | 5.91 | JB | 0.0325 | 10.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0715 | JQ | 0.0411 | 1.04 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.107 | JB | 0.0253 | 5.21 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.224 | JB | 0.0260 | 5.21 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.204 | JB | 0.0261 | 5.21 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.109 | JB | 0.0238 | 5.21 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0288 | JB | 0.0261 | 5.21 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.119 | JB | 0.0250 | 5.21 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.307 | JB | 0.0175 | 5.21 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0872 | JB | 0.0281 | 5.21 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.509 | JBQ | 0.0315 | 10.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 71 | 25 - 164 |
| 13C12-12378-PeCDD | 72 | 25 - 181 |
| 13C12-123478-HxCDD | 71 | 32 - 141 |
| 13C12-123678-HxCDD | 71 | 28 - 130 |
| 13C12-123789-HxCDD | 76 | 28 - 130 |
| 13C12-1234678-HpCDD | 67 | 23 - 140 |
| 13C12-OCDD | 58 | 17 - 157 |
| 13C12-2378-TCDF | 67 | 24 - 169 |
| 13C12-12378-PeCDF | 76 | 24 - 185 |
| 13C12-23478-PeCDF | 71 | 21 - 178 |
| 13C12-123478-HxCDF | 69 | 26 - 152 |
| 13C12-123678-HxCDF | 77 | 26 - 123 |
| 13C12-234678-HxCDF | 69 | 28 - 136 |
| 13C12-123789-HxCDF | 68 | 29 - 147 |
| 13C12-1234678-HpCDF | 85 | 28 - 143 |
| 13C12-1234789-HpCDF | 56 | 26 - 138 |
| 13C12-OCDF | 51 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-198-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-NBZ-SS

**LLI Sample # SW 6607527**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 15:26

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6617 SDG#: DX166-17

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-198-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-NBZ-SS

**LLI Sample # SW 6607527**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/03/2012 15:26

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6617 SDG#: DX166-17

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 21:34 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401B | 04/17/2012 11:46 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-020-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-NBZ-SB

**LLI Sample # SW 6607528**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 13:40

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6618 SDG#: DX166-18

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 11.0 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-020-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-NBZ-SB

**LLI Sample # SW 6607528**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 13:40

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6618 SDG#: DX166-18

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0544 | J | 0.0329 | 1.08 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.132 | JB | 0.0309 | 5.40 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.236 | JB | 0.0465 | 5.40 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.602 | JB | 0.0456 | 5.40 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.439 | JB | 0.0397 | 5.40 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 11.6 | B | 0.0448 | 5.40 | 1 |
| 11031 | OCDD | 3268-87-9 | 128 | B | 0.0356 | 10.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0346 | U | 0.0346 | 1.08 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.243 | JBQ | 0.0246 | 5.40 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.136 | JB | 0.0246 | 5.40 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.301 | JB | 0.0308 | 5.40 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.155 | JB | 0.0265 | 5.40 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.118 | JB | 0.0354 | 5.40 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.213 | JB | 0.0290 | 5.40 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 2.40 | JB | 0.0210 | 5.40 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.246 | JB | 0.0364 | 5.40 | 1 |
| 11031 | OCDF | 39001-02-0 | 6.80 | JB | 0.0346 | 10.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 71 | 25 - 164 |
| 13C12-12378-PeCDD | 71 | 25 - 181 |
| 13C12-123478-HxCDD | 71 | 32 - 141 |
| 13C12-123678-HxCDD | 73 | 28 - 130 |
| 13C12-123789-HxCDD | 81 | 28 - 130 |
| 13C12-1234678-HpCDD | 70 | 23 - 140 |
| 13C12-OCDD | 60 | 17 - 157 |
| 13C12-2378-TCDF | 67 | 24 - 169 |
| 13C12-12378-PeCDF | 77 | 24 - 185 |
| 13C12-23478-PeCDF | 69 | 21 - 178 |
| 13C12-123478-HxCDF | 71 | 26 - 152 |
| 13C12-123678-HxCDF | 80 | 26 - 123 |
| 13C12-234678-HxCDF | 69 | 28 - 136 |
| 13C12-123789-HxCDF | 62 | 29 - 147 |
| 13C12-1234678-HpCDF | 88 | 28 - 143 |
| 13C12-1234789-HpCDF | 54 | 26 - 138 |
| 13C12-OCDF | 48 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-020-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-NBZ-SB

**LLI Sample # SW 6607528**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 13:40

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6618 SDG#: DX166-18

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-020-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-NBZ-SB

**LLI Sample # SW 6607528**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 13:40

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6618 SDG#: DX166-18

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 22:31 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-097-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-NBZ-SS

**LLI Sample # SW 6607529**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 09:14

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6619 SDG#: DX166-19*

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 6.7 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-097-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-NBZ-SS

**LLI Sample # SW 6607529**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 09:14

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6619 SDG#: DX166-19*

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0590 | JQ | 0.0360 | 1.04 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0809 | JB | 0.0305 | 5.21 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0796 | JBQ | 0.0369 | 5.21 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.245 | JB | 0.0357 | 5.21 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.198 | JB | 0.0304 | 5.21 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.71 | JB | 0.0323 | 5.21 | 1 |
| 11031 | OCDD | 3268-87-9 | 23.6 | B | 0.0265 | 10.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.241 | J | 0.0711 | 1.04 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.278 | JB | 0.0353 | 5.21 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.658 | JB | 0.0349 | 5.21 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.266 | JB | 0.0263 | 5.21 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.198 | JB | 0.0238 | 5.21 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0287 | U | 0.0287 | 5.21 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.260 | JB | 0.0250 | 5.21 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.718 | JB | 0.0197 | 5.21 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0811 | JB | 0.0318 | 5.21 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.30 | JB | 0.0282 | 10.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 70 | 25 - 164 |
| 13C12-12378-PeCDD | 68 | 25 - 181 |
| 13C12-123478-HxCDD | 70 | 32 - 141 |
| 13C12-123678-HxCDD | 73 | 28 - 130 |
| 13C12-123789-HxCDD | 80 | 28 - 130 |
| 13C12-1234678-HpCDD | 68 | 23 - 140 |
| 13C12-OCDD | 62 | 17 - 157 |
| 13C12-2378-TCDF | 70 | 24 - 169 |
| 13C12-12378-PeCDF | 74 | 24 - 185 |
| 13C12-23478-PeCDF | 69 | 21 - 178 |
| 13C12-123478-HxCDF | 72 | 26 - 152 |
| 13C12-123678-HxCDF | 77 | 26 - 123 |
| 13C12-234678-HxCDF | 71 | 28 - 136 |
| 13C12-123789-HxCDF | 68 | 29 - 147 |
| 13C12-1234678-HpCDF | 83 | 28 - 143 |
| 13C12-1234789-HpCDF | 59 | 26 - 138 |
| 13C12-OCDF | 54 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-097-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-097-NBZ-SS**

**LLI Sample # SW 6607529**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 09:14

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6619 SDG#: DX166-19*

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-097-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-NBZ-SS

**LLI Sample # SW 6607529**
**LLI Group # 1300396**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 09:14

Submitted: 04/05/2012 09:05
Reported: 04/24/2012 12:16

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6619 SDG#: DX166-19*

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 23:27 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401B | 04/17/2012 11:46 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300396
Reported: 04/24/12 at 12:16 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12102162401A | Sample number(s): 6607522-6607524,6607528 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Batch number: 12108162401B | Sample number(s): 6607525-6607527,6607529 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12103002 | Sample number(s): 6607522-6607529 | | | | | | | | |
| 2378-TCDD | 0.0486 U | 0.0486 | 1.00 | ng/kg | 87 | | 67-158 | | |
| 12378-PeCDD | 0.0493 J | 0.0246 | 5.00 | ng/kg | 94 | | 70-142 | | |
| 123478-HxCDD | 0.0299 J | 0.0290 | 5.00 | ng/kg | 96 | | 70-164 | | |
| 123678-HxCDD | 0.104 J | 0.0292 | 5.00 | ng/kg | 92 | | 76-134 | | |
| 123789-HxCDD | 0.0587 J | 0.0287 | 5.00 | ng/kg | 101 | | 64-162 | | |
| 1234678-HpCDD | 0.498 J | 0.0286 | 5.00 | ng/kg | 94 | | 70-140 | | |
| OCDD | 0.514 J | 0.0384 | 10.0 | ng/kg | 96 | | 78-144 | | |
| 2378-TCDF | 0.0342 U | 0.0342 | 1.00 | ng/kg | 91 | | 75-158 | | |
| 12378-PeCDF | 0.0922 J | 0.0234 | 5.00 | ng/kg | 95 | | 80-134 | | |
| 23478-PeCDF | 0.131 J | 0.0231 | 5.00 | ng/kg | 92 | | 68-160 | | |
| 123478-HxCDF | 0.0599 J | 0.0208 | 5.00 | ng/kg | 98 | | 72-134 | | |
| 123678-HxCDF | 0.0799 J | 0.0183 | 5.00 | ng/kg | 98 | | 84-130 | | |
| 123789-HxCDF | 0.0229 J | 0.0210 | 5.00 | ng/kg | 99 | | 78-130 | | |
| 234678-HxCDF | 0.0864 J | 0.0191 | 5.00 | ng/kg | 94 | | 70-156 | | |
| 1234678-HpCDF | 0.143 J | 0.0176 | 5.00 | ng/kg | 91 | | 82-122 | | |
| 1234789-HpCDF | 0.0810 J | 0.0247 | 5.00 | ng/kg | 95 | | 78-138 | | |
| OCDF | 0.114 J | 0.0330 | 10.0 | ng/kg | 96 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12102162401A | Sample number(s): 6607522-6607524,6607528 BKG: P600775 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 9.0 | 9.1 | 1 | 20 |
| Batch number: 12108162401B | Sample number(s): 6607525-6607527,6607529 BKG: P607530 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 9.0 | 9.0 | 0 | 20 |
| Batch number: 12103002 | Sample number(s): 6607522-6607529 UNSPK: P600775 | | | | | | | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300396
Reported: 04/24/12 at 12:16 PM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| 2378-TCDD | 91 | 88 | 67-158 | 5 | 25 | | | | |
| 12378-PeCDD | 95 | 92 | 70-142 | 4 | 25 | | | | |
| 123478-HxCDD | 96 | 97 | 70-164 | 0 | 25 | | | | |
| 123678-HxCDD | 92 | 94 | 76-134 | 0 | 25 | | | | |
| 123789-HxCDD | 102 | 98 | 64-162 | 5 | 25 | | | | |
| 1234678-HpCDD | 95 | 95 | 70-140 | 1 | 25 | | | | |
| OCDD | 94 | 95 | 78-144 | 0 | 25 | | | | |
| 2378-TCDF | 90 | 91 | 75-158 | 0 | 25 | | | | |
| 12378-PeCDF | 96 | 96 | 80-134 | 1 | 25 | | | | |
| 23478-PeCDF | 91 | 89 | 68-160 | 3 | 25 | | | | |
| 123478-HxCDF | 98 | 101 | 72-134 | 1 | 25 | | | | |
| 123678-HxCDF | 99 | 100 | 84-130 | 0 | 25 | | | | |
| 123789-HxCDF | 98 | 101 | 78-130 | 2 | 25 | | | | |
| 234678-HxCDF | 95 | 97 | 70-156 | 0 | 25 | | | | |
| 1234678-HpCDF | 91 | 91 | 82-122 | 2 | 25 | | | | |
| 1234789-HpCDF | 94 | 96 | 78-138 | 0 | 25 | | | | |
| OCDF | 98 | 98 | 63-170 | 1 | 25 | | | | |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12103002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6607522 | 73 | 68 | 74 | 80 | 73 | 69 |
| 6607523 | 75 | 66 | 69 | 73 | 68 | 65 |
| 6607524 | 70 | 65 | 67 | 74 | 66 | 60 |
| 6607525 | 72 | 64 | 72 | 78 | 71 | 65 |
| 6607526 | 70 | 69 | 75 | 82 | 74 | 68 |
| 6607527 | 71 | 71 | 69 | 77 | 69 | 68 |
| 6607528 | 71 | 69 | 71 | 80 | 69 | 62 |
| 6607529 | 70 | 69 | 72 | 77 | 71 | 68 |
| Blank | 59 | 59 | 57 | 62 | 58 | 56 |
| MS | 68 | 65 | 71 | 74 | 71 | 70 |
| MSD | 73 | 64 | 69 | 70 | 68 | 66 |
| OPR | 72 | 63 | 68 | 73 | 70 | 66 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6607522 | 88 | 61 | 56 | 68 | 75 | 73 |
| 6607523 | 81 | 57 | 52 | 66 | 71 | 70 |
| 6607524 | 89 | 52 | 46 | 67 | 67 | 70 |
| 6607525 | 85 | 59 | 51 | 67 | 73 | 76 |
| 6607526 | 90 | 58 | 52 | 67 | 73 | 76 |
| 6607527 | 85 | 56 | 51 | 72 | 71 | 71 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300396
Reported: 04/24/12 at 12:16 PM

## Surrogate Quality Control

| | | | | | | |
|---|---|---|---|---|---|---|
| 6607528 | 88 | 54 | 48 | 71 | 71 | 73 |
| 6607529 | 83 | 59 | 54 | 68 | 70 | 73 |
| Blank | 68 | 52 | 51 | 65 | 64 | 64 |
| MS | 77 | 65 | 60 | 69 | 72 | 77 |
| MSD | 72 | 60 | 58 | 71 | 68 | 72 |
| OPR | 80 | 60 | 56 | 72 | 73 | 75 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6607522 | 80 | 70 | 63 | 68 | 73 |
| 6607523 | 76 | 65 | 59 | 71 | 72 |
| 6607524 | 67 | 66 | 63 | 64 | 69 |
| 6607525 | 76 | 69 | 60 | 65 | 68 |
| 6607526 | 75 | 68 | 63 | 69 | 76 |
| 6607527 | 76 | 67 | 58 | 67 | 76 |
| 6607528 | 81 | 70 | 60 | 67 | 77 |
| 6607529 | 80 | 68 | 62 | 70 | 74 |
| Blank | 62 | 60 | 59 | 52 | 60 |
| MS | 79 | 72 | 65 | 61 | 66 |
| MSD | 77 | 68 | 61 | 61 | 65 |
| OPR | 73 | 72 | 66 | 59 | 66 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Acct# 13013 Cap# 1300396 Sample# 6607522-29

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | PRIMA | ONDARY ANAL | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| Samplers Signatures: | | | | | | |

| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| SL-032-NBZ-SS-0.0-0.5 | 4.03.12 | 1400 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-035-NBZ-SS-0.0-0.5 | 4.03.12 | 1430 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-035-NBZ-SS-2.0-3.0 | 4.03.12 | 1440 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-115-NBZ-SS-0.0-0.5 | 4.03.12 | 1432 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-140-NBZ-SS-0.0-0.5 | 4.03.12 | 1406 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-198-NBZ-SS-0.0-0.5 | 4.03.12 | 1526 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-020-NBZ-SS-0.0-0.5 | 4.04.12 | 1440 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-020-NBZ-SB-2.5-3.5 | 4.04.12 | 1340 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-097-NBZ-SS-0.0-0.5 | 4.04.12 | 0914 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-099-NBZ-SS-0.0-0.5 | 4.04.12 | 1041 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-100-NBZ-SS-0.0-0.5 | 4.04.12 | 951 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-104-NBZ-SS-0.0-0.5 | 4.04.12 | 1040 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-110-NBZ-SS-0.0-0.5 | 4.04.12 | 0900 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-114-NBZ-SS-0.0-0.5 | 4.04.12 | 0925 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-120-NBZ-SS-0.0-0.5 | 4.04.12 | 1105 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| EB-NBZ-SB-040412 | 4.04.12 | 1430 | WATER | NONE | 4-1 L Ambers | X | | X | X | |
| EB-NBZ-SB-040412 | 4.04.12 | 1430 | WATER | NONE | 1-250 mL glass | | X | | | |
| EB-NBZ-SS-040412 | 4.04.12 | 1545 | WATER | NONE | 4-1 L Ambers | X | | X | X | |
| EB-NBZ-SS-040412 | 4.04.12 | 1545 | WATER | NONE | 1-250 mL glass | | X | | | |

| Relinquished by: (*Signature*) | Date/Time | Received for Laboratory by: (*Signature*) | Laboratory: |
|---|---|---|---|
| | 4/04/2012 / 1630 | [signature] 2516 LII 4/5/12 0905 (SAC. 4/5/12) | Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | Airbill No.(s) | |
| | | | |

## Tamara J. Helsel

**From:** Nicole Maljovec
**Sent:** Thursday, April 05, 2012 2:46 PM
**To:** Tamara J. Helsel
**Subject:** FW: SSFL COC 4/4: SL-020-SS & SB Samples

FYI :)

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Thursday, April 05, 2012 2:44 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 4/4: SL-020-SS & SB Samples

Nicole

yes, we do have SL-20 and the SL-020-NBZ-SB-2.5-3.5 is for all four analyses!

thank you!

Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

---

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Thursday, April 05, 2012 9:21 AM
To: Hartman, Pamela
Subject: SSFL COC 4/4: SL-020-SS & SB Samples

Hi Pam,
We received the samples you sent last night, except for SL-020-NBZ-SS-0.0-0.5. Do you have this sample?

We did receive a 16 oz jar for SL-020-NBZ-SB-2.5-3.5, but only dioxins are checked off for this test. Can you confirm the analyses for SL-020-SB-2.5-3.5 and let me know if we should only analyze for dioxins?

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Wednesday, April 04, 2012 7:35 PM
To: Nicole Maljovec; SA Env Entry
Subject: SSLF COC 4/4/12

Nicole

We shipped two coolers today.

Thanks!

Pam

Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# DX167

**NBZ – Data Package Amendment**
**SDG DX162, SDG DX167**
**6-17-13**

During the database check, an inconsistency in sample identification was discovered that needed to be corrected. They are listed below:

- Two methods (Percent Moisture and Dioxins) for sample SL-104-NBZ-SS-0.0-0.5 had duplicate results.
- Sample-105-NBZ-SS-0.0-0.5 had no results for Percent Moisture or Dioxins.
- All data packages were reviewed by field personnel and the validator to determine which sample results went with which sample.
- The appropriate method results were moved to sample SL-105-NBZ-SS-0.0-0.5.

All changes have been documented and verified by the field personnel and data group.

Pam Hartman
Catherine Love
Cherie Zakowski

SL-104

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681• www.lancasterlabs.com



**Sample Description:** SL-104-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

LLI Sample # SW 6607532
LLI Group # 1300397
Account # 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 10:40

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6703 SDG#: DX167-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 6.8 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

SL-104

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681• www.lancasterlabs.com



Sample Description: SL-104-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

LLI Sample # SW 6607532
LLI Group # 1300397
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2012 10:40

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6703 SDG#: DX167-03

| CAT No. | Analysis Name | | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | | 1746-01-6 | 0.0290 JBQ | 0.0196 | 1.04 | 1 |
| 11031 | 12378-PeCDD | | 40321-76-4 | 0.0945 JBQ | 0.0212 | 5.20 | 1 |
| 11031 | 123478-HxCDD | | 39227-28-6 | 0.0851 JQ | 0.0171 | 5.20 | 1 |
| 11031 | 123678-HxCDD | | 57653-85-7 | 0.259 JB | 0.0191 | 5.20 | 1 |
| 11031 | 123789-HxCDD | | 19408-74-3 | 0.275 JB | 0.0187 | 5.20 | 1 |
| 11031 | 1234678-HpCDD | | 35822-46-9 | 3.24 JB | 0.0205 | 5.20 | 1 |
| 11031 | OCDD | | 3268-87-9 | 22.9 B | 0.0207 | 10.4 | 1 |
| 11031 | 2378-TCDF | | 51207-31-9 | 0.265 J | 0.0351 | 1.04 | 1 |
| 11031 | 12378-PeCDF | | 57117-41-6 | 0.263 JB | 0.0191 | 5.20 | 1 |
| 11031 | 23478-PeCDF | | 57117-31-4 | 0.0170 U | 0.0170 | 5.20 | 1 |
| 11031 | 123478-HxCDF | | 70648-26-9 | 0.187 JB | 0.0124 | 5.20 | 1 |
| 11031 | 123678-HxCDF | | 57117-44-9 | 0.130 JB | 0.0135 | 5.20 | 1 |
| 11031 | 123789-HxCDF | | 72918-21-9 | 0.0544 JBQ | 0.0141 | 5.20 | 1 |
| 11031 | 234678-HxCDF | | 60851-34-5 | 0.140 JB | 0.0117 | 5.20 | 1 |
| 11031 | 1234678-HpCDF | | 67562-39-4 | 0.549 JB | 0.0106 | 5.20 | 1 |
| 11031 | 1234789-HpCDF | | 55673-89-7 | 0.0498 JBQ | 0.0139 | 5.20 | 1 |
| 11031 | OCDF | | 39001-02-0 | 0.914 JB | 0.0139 | 10.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 75 | 25 - 164 |
| 13C12-12378-PeCDD | 103 | 25 - 181 |
| 13C12-123478-HxCDD | 85 | 32 - 141 |
| 13C12-123678-HxCDD | 90 | 28 - 130 |
| 13C12-123789-HxCDD | 87 | 28 - 130 |
| 13C12-1234678-HpCDD | 90 | 23 - 140 |
| 13C12-OCDD | 78 | 17 - 157 |
| 13C12-2378-TCDF | 82 | 24 - 169 |
| 13C12-12378-PeCDF | 101 | 24 - 185 |
| 13C12-23478-PeCDF | 105 | 21 - 178 |
| 13C12-123478-HxCDF | 80 | 26 - 152 |
| 13C12-123678-HxCDF | 80 | 26 - 123 |
| 13C12-234678-HxCDF | 82 | 28 - 136 |
| 13C12-123789-HxCDF | 83 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 76 | 26 - 138 |
| 13C12-OCDF | 74 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

- *B Detected in Method Blank*
- *U Undetected*
- *J Estimated concentration between Estimated Detection Limit and Minimum Level*
- *E Exceeds calibration range*
- *C Confirmed quantitation on secondary GC column*
- *Q EMPC - Estimated Maximum Possible Concentration*
- *F Interference is present*

*=This limit was used in the evaluation of the final result

SL-104

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax: 717-656-2681• www.lancasterlabs.com



**Sample Description:** SL-104-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

**LLI Sample #** SW 6607532
**LLI Group #** 1300397
**Account #** 13013

**Project Name:** SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2012 10:40

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6703 SDG#: DX167-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| S | *Saturation of detection signal* | | | | | |

*=This limit was used in the evaluation of the final result

SL-104

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681• www.lancasterlabs.com



**Sample Description:** SL-104-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

LLI Sample # SW 6607532
LLI Group # 1300397
Account # 13013

**Project Name:** SSFL Area IV Collocated Soil Sampling

Collected: 04/04/2012 10:40

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6703 SDG#: DX167-03

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/17/2012 16:15 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401B | 04/17/2012 11:46 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

SL-105

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681• www.lancasterlabs.com

105 cz 6/07/13



Sample Description: SL-104-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

LLI Sample # SW 6589250
LLI Group # 1297267
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2012 13:45

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6204 SDG#: DX162-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.3 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

SL-105

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681• www.lancasterlabs.com

105 CZ 6/10/13



Sample Description: SL-104-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

LLI Sample # SW 6589250
LLI Group # 1297267
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2012 13:45

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6204 SDG#: DX162-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0200 | U | 0.0200 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0686 | JQ | 0.0227 | 5.43 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0682 | JBQ | 0.0191 | 5.43 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.126 | JB | 0.0211 | 5.43 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.127 | JBQ | 0.0197 | 5.43 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.87 | JB | 0.0230 | 5.43 | 1 |
| 11031 | OCDD | 3268-87-9 | 14.4 | B | 0.0120 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.239 | J | 0.0475 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.361 | J | 0.0247 | 5.43 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.517 | JB | 0.0258 | 5.43 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.247 | JB | 0.0165 | 5.43 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.156 | JB | 0.0156 | 5.43 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0500 | JQ | 0.0203 | 5.43 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.149 | JB | 0.0158 | 5.43 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.591 | JB | 0.0122 | 5.43 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0980 | JBQ | 0.0196 | 5.43 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.08 | JB | 0.0179 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 82 | 25 - 164 |
| 13C12-12378-PeCDD | 77 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 82 | 28 - 130 |
| 13C12-123789-HxCDD | 81 | 28 - 130 |
| 13C12-1234678-HpCDD | 75 | 23 - 140 |
| 13C12-OCDD | 72 | 17 - 157 |
| 13C12-2378-TCDF | 70 | 24 - 169 |
| 13C12-12378-PeCDF | 77 | 24 - 185 |
| 13C12-23478-PeCDF | 69 | 21 - 178 |
| 13C12-123478-HxCDF | 74 | 26 - 152 |
| 13C12-123678-HxCDF | 81 | 26 - 123 |
| 13C12-234678-HxCDF | 74 | 28 - 136 |
| 13C12-123789-HxCDF | 67 | 29 - 147 |
| 13C12-1234678-HpCDF | 84 | 28 - 143 |
| 13C12-1234789-HpCDF | 58 | 26 - 138 |
| 13C12-OCDF | 57 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

- *B Detected in Method Blank*
- *U Undetected*
- *J Estimated concentration between Estimated Detection Limit and Minimum Level*
- *E Exceeds calibration range*
- *C Confirmed quantitation on secondary GC column*
- *Q EMPC - Estimated Maximum Possible Concentration*
- *F Interference is present*

*=This limit was used in the evaluation of the final result

SL-105

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

105 6/17/13 CL



Sample Description: SL-~~104~~-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

LLI Sample # SW 6589250
LLI Group # 1297267
Account # 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/21/2012 13:45

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6204 SDG#: DX162-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| S | *Saturation of detection signal* | | | | | |

*=This limit was used in the evaluation of the final result

SL-105

eurofins | Lancaster Laboratories

# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681• www.lancasterlabs.com

105 ez 6/17/13



Sample Description: SL-~~104~~-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

LLI Sample # SW 6589250
LLI Group # 1297267
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/21/2012 13:45

Submitted: 03/23/2012 09:10
Reported: 04/12/2012 11:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6204 SDG#: DX162-04

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.3C using a Hg thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12089001 | 03/31/2012 03:57 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12089001 | 03/29/2012 13:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12086162401A | 03/26/2012 18:49 | Scott W Freisher | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 27, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/05/2012
Group Number: 1300397
SDG: DX167
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-099-NBZ-SS-0.0-0.5 Soil | 6607530 |
| SL-100-NBZ-SS-0.0-0.5 Soil | 6607531 |
| SL-104-NBZ-SS-0.0-0.5 Soil | 6607532 |
| SL-110-NBZ-SS-0.0-0.5 Soil | 6607533 |
| SL-114-NBZ-SS-0.0-0.5 Soil | 6607534 |
| SL-120-NBZ-SS-0.0-0.5 Soil | 6607535 |
| EB-NBZ-SB-040412 Water | 6607536 |
| EB-NBZ-SS-040412 Water | 6607537 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

eurofins | Lancaster Laboratories

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# Analysis Report



**Sample Description:** SL-099-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-NBZ-SS

**LLI Sample # SW 6607530**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 10:41

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6701 SDG#: DX167-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 9.0 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-099-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-NBZ-SS

**LLI Sample # SW 6607530**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 10:41

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6701 SDG#: DX167-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0249 U | 0.0249 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0559 JBQ | 0.0245 | 5.46 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0758 J | 0.0207 | 5.46 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.115 JB | 0.0231 | 5.46 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.139 JB | 0.0227 | 5.46 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.70 JB | 0.0245 | 5.46 | 1 |
| 11031 | OCDD | 3268-87-9 | 10.3 JB | 0.0213 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.192 JQ | 0.0536 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.251 JBQ | 0.0249 | 5.46 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.304 JB | 0.0221 | 5.46 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.143 JB | 0.0165 | 5.46 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.145 JB | 0.0164 | 5.46 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0805 JBQ | 0.0179 | 5.46 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.159 JBQ | 0.0147 | 5.46 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.526 JB | 0.0116 | 5.46 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0464 JB | 0.0153 | 5.46 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.884 JB | 0.0182 | 10.9 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 86 | 25 - 164 |
| 13C12-12378-PeCDD | 126 | 25 - 181 |
| 13C12-123478-HxCDD | 94 | 32 - 141 |
| 13C12-123678-HxCDD | 94 | 28 - 130 |
| 13C12-123789-HxCDD | 92 | 28 - 130 |
| 13C12-1234678-HpCDD | 98 | 23 - 140 |
| 13C12-OCDD | 91 | 17 - 157 |
| 13C12-2378-TCDF | 93 | 24 - 169 |
| 13C12-12378-PeCDF | 134 | 24 - 185 |
| 13C12-23478-PeCDF | 132 | 21 - 178 |
| 13C12-123478-HxCDF | 93 | 26 - 152 |
| 13C12-123678-HxCDF | 95 | 26 - 123 |
| 13C12-234678-HxCDF | 95 | 28 - 136 |
| 13C12-123789-HxCDF | 97 | 29 - 147 |
| 13C12-1234678-HpCDF | 103 | 28 - 143 |
| 13C12-1234789-HpCDF | 91 | 26 - 138 |
| 13C12-OCDF | 92 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-099-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-NBZ-SS

**LLI Sample # SW 6607530**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 10:41

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6701 SDG#: DX167-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-099-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-NBZ-SS

**LLI Sample # SW 6607530**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 10:41

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6701 SDG#: DX167-01

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/17/2012 14:22 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401B | 04/17/2012 11:46 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-100-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-NBZ-SS

**LLI Sample # SW 6607531**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 09:51

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6702 SDG#: DX167-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.2 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-100-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-NBZ-SS

**LLI Sample # SW 6607531**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 09:51

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6702 SDG#: DX167-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0351 JBQ | 0.0182 | 1.04 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0226 JB | 0.0169 | 5.18 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0280 J | 0.0142 | 5.18 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0661 JBQ | 0.0149 | 5.18 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0601 JBQ | 0.0156 | 5.18 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.802 JBQ | 0.0157 | 5.18 | 1 |
| 11031 | OCDD | 3268-87-9 | 4.09 JB | 0.0154 | 10.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0853 JQ | 0.0310 | 1.04 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0667 JBQ | 0.0153 | 5.18 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.125 JB | 0.0133 | 5.18 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0911 JBQ | 0.00948 | 5.18 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0482 JBQ | 0.00981 | 5.18 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0264 JBQ | 0.0115 | 5.18 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0627 JB | 0.00916 | 5.18 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.227 JB | 0.00873 | 5.18 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0370 JBQ | 0.0116 | 5.18 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.331 JBQ | 0.0157 | 10.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 73 | 25 - 164 |
| 13C12-12378-PeCDD | 113 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 83 | 28 - 130 |
| 13C12-123789-HxCDD | 78 | 28 - 130 |
| 13C12-1234678-HpCDD | 74 | 23 - 140 |
| 13C12-OCDD | 72 | 17 - 157 |
| 13C12-2378-TCDF | 72 | 24 - 169 |
| 13C12-12378-PeCDF | 112 | 24 - 185 |
| 13C12-23478-PeCDF | 114 | 21 - 178 |
| 13C12-123478-HxCDF | 79 | 26 - 152 |
| 13C12-123678-HxCDF | 82 | 26 - 123 |
| 13C12-234678-HxCDF | 82 | 28 - 136 |
| 13C12-123789-HxCDF | 77 | 29 - 147 |
| 13C12-1234678-HpCDF | 85 | 28 - 143 |
| 13C12-1234789-HpCDF | 72 | 26 - 138 |
| 13C12-OCDF | 68 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-100-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-NBZ-SS

**LLI Sample # SW 6607531**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 09:51

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6702 SDG#: DX167-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-100-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-NBZ-SS

**LLI Sample # SW 6607531**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 09:51

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6702 SDG#: DX167-02

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/17/2012 15:19 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401B | 04/17/2012 11:46 | William C Schwebel | 1 |

eurofins | Lancaster Laboratories

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# Analysis Report



**Sample Description:** SL-104-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

**LLI Sample # SW 6607532**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 10:40

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6703 SDG#: DX167-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 6.8 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-104-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

**LLI Sample # SW 6607532**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 10:40

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6703 SDG#: DX167-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0290 JBQ | 0.0196 | 1.04 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0945 JBQ | 0.0212 | 5.20 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0851 JQ | 0.0171 | 5.20 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.259 JB | 0.0191 | 5.20 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.275 JB | 0.0187 | 5.20 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.24 JB | 0.0205 | 5.20 | 1 |
| 11031 | OCDD | 3268-87-9 | 22.9 B | 0.0207 | 10.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.265 J | 0.0351 | 1.04 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.263 JB | 0.0191 | 5.20 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0170 U | 0.0170 | 5.20 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.187 JB | 0.0124 | 5.20 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.130 JB | 0.0135 | 5.20 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0544 JBQ | 0.0141 | 5.20 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.140 JB | 0.0117 | 5.20 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.549 JB | 0.0106 | 5.20 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0498 JBQ | 0.0139 | 5.20 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.914 JB | 0.0139 | 10.4 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 75 | 25 - 164 |
| 13C12-12378-PeCDD | 103 | 25 - 181 |
| 13C12-123478-HxCDD | 85 | 32 - 141 |
| 13C12-123678-HxCDD | 90 | 28 - 130 |
| 13C12-123789-HxCDD | 87 | 28 - 130 |
| 13C12-1234678-HpCDD | 90 | 23 - 140 |
| 13C12-OCDD | 78 | 17 - 157 |
| 13C12-2378-TCDF | 82 | 24 - 169 |
| 13C12-12378-PeCDF | 101 | 24 - 185 |
| 13C12-23478-PeCDF | 105 | 21 - 178 |
| 13C12-123478-HxCDF | 80 | 26 - 152 |
| 13C12-123678-HxCDF | 80 | 26 - 123 |
| 13C12-234678-HxCDF | 82 | 28 - 136 |
| 13C12-123789-HxCDF | 83 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 76 | 26 - 138 |
| 13C12-OCDF | 74 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-104-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

**LLI Sample # SW 6607532**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 10:40

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6703 SDG#: DX167-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-104-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-NBZ-SS

**LLI Sample # SW 6607532**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 10:40

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6703 SDG#: DX167-03

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/17/2012 16:15 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401B | 04/17/2012 11:46 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-110-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-NBZ-SS

**LLI Sample # SW 6607533**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 09:00

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6704 SDG#: DX167-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.4 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-110-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-NBZ-SS

**LLI Sample # SW 6607533**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 09:00

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6704 SDG#: DX167-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0235 | JB | 0.0204 | 1.07 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0953 | JB | 0.0239 | 5.37 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.103 | J | 0.0216 | 5.37 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.285 | JB | 0.0217 | 5.37 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.258 | JBQ | 0.0234 | 5.37 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 4.12 | JB | 0.0246 | 5.37 | 1 |
| 11031 | OCDD | 3268-87-9 | 32.8 | B | 0.0254 | 10.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.361 | J | 0.0620 | 1.07 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.334 | JB | 0.0305 | 5.37 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.163 | JB | 0.0261 | 5.37 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.295 | JB | 0.0132 | 5.37 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.187 | JB | 0.0139 | 5.37 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0233 | JBQ | 0.0144 | 5.37 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.216 | JB | 0.0129 | 5.37 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.909 | JB | 0.0115 | 5.37 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0782 | JB | 0.0153 | 5.37 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.63 | JB | 0.0151 | 10.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 85 | 25 - 164 |
| 13C12-12378-PeCDD | 117 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 88 | 28 - 130 |
| 13C12-123789-HxCDD | 83 | 28 - 130 |
| 13C12-1234678-HpCDD | 83 | 23 - 140 |
| 13C12-OCDD | 73 | 17 - 157 |
| 13C12-2378-TCDF | 82 | 24 - 169 |
| 13C12-12378-PeCDF | 113 | 24 - 185 |
| 13C12-23478-PeCDF | 120 | 21 - 178 |
| 13C12-123478-HxCDF | 84 | 26 - 152 |
| 13C12-123678-HxCDF | 85 | 26 - 123 |
| 13C12-234678-HxCDF | 85 | 28 - 136 |
| 13C12-123789-HxCDF | 89 | 29 - 147 |
| 13C12-1234678-HpCDF | 87 | 28 - 143 |
| 13C12-1234789-HpCDF | 78 | 26 - 138 |
| 13C12-OCDF | 73 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-110-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-NBZ-SS

**LLI Sample # SW 6607533**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 09:00

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6704 SDG#: DX167-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-110-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-NBZ-SS

**LLI Sample # SW 6607533**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 09:00

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6704 SDG#: DX167-04

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/17/2012 17:12 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401B | 04/17/2012 11:46 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-114-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-NBZ-SS

**LLI Sample # SW 6607534**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 09:25

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6705 SDG#: DX167-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.3 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-114-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-NBZ-SS

**LLI Sample # SW 6607534**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 09:25

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6705 SDG#: DX167-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0206 U | 0.0206 | 1.06 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0478 JB | 0.0203 | 5.30 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0554 J | 0.0168 | 5.30 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.125 JBQ | 0.0180 | 5.30 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.135 JBQ | 0.0190 | 5.30 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.34 JB | 0.0179 | 5.30 | 1 |
| 11031 | OCDD | 3268-87-9 | 12.2 B | 0.0198 | 10.6 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0724 JQ | 0.0355 | 1.06 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.118 JBQ | 0.0169 | 5.30 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.124 JB | 0.0159 | 5.30 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0888 JB | 0.0117 | 5.30 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0803 JB | 0.0112 | 5.30 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0342 JBQ | 0.0123 | 5.30 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0972 JB | 0.0108 | 5.30 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.364 JB | 0.00831 | 5.30 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0553 JBQ | 0.0115 | 5.30 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.541 JB | 0.0162 | 10.6 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 69 | 25 - 164 |
| 13C12-12378-PeCDD | 95 | 25 - 181 |
| 13C12-123478-HxCDD | 77 | 32 - 141 |
| 13C12-123678-HxCDD | 77 | 28 - 130 |
| 13C12-123789-HxCDD | 75 | 28 - 130 |
| 13C12-1234678-HpCDD | 77 | 23 - 140 |
| 13C12-OCDD | 65 | 17 - 157 |
| 13C12-2378-TCDF | 73 | 24 - 169 |
| 13C12-12378-PeCDF | 102 | 24 - 185 |
| 13C12-23478-PeCDF | 98 | 21 - 178 |
| 13C12-123478-HxCDF | 72 | 26 - 152 |
| 13C12-123678-HxCDF | 75 | 26 - 123 |
| 13C12-234678-HxCDF | 73 | 28 - 136 |
| 13C12-123789-HxCDF | 74 | 29 - 147 |
| 13C12-1234678-HpCDF | 83 | 28 - 143 |
| 13C12-1234789-HpCDF | 66 | 26 - 138 |
| 13C12-OCDF | 60 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-114-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-114-NBZ-SS**

**LLI Sample # SW 6607534**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 09:25

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6705 SDG#: DX167-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-114-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-NBZ-SS

**LLI Sample # SW 6607534**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 09:25

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6705 SDG#: DX167-05

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/17/2012 18:08 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401B | 04/17/2012 11:46 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-120-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-NBZ-SS

**LLI Sample # SW 6607535**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 11:05

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6706 SDG#: DX167-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.7 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-120-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-NBZ-SS

**LLI Sample # SW 6607535**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 11:05

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6706 SDG#: DX167-06

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0626 | JBQ | 0.0220 | 1.08 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.176 | JBQ | 0.0321 | 5.41 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.110 | J | 0.0260 | 5.41 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.494 | JB | 0.0273 | 5.41 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.555 | JB | 0.0284 | 5.41 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.36 | JB | 0.0247 | 5.41 | 1 |
| 11031 | OCDD | 3268-87-9 | 25.6 | B | 0.0232 | 10.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.115 | JQ | 0.0381 | 1.08 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.262 | JB | 0.0215 | 5.41 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.283 | JB | 0.0183 | 5.41 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.195 | JB | 0.0166 | 5.41 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.162 | JB | 0.0165 | 5.41 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0777 | JB | 0.0180 | 5.41 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.162 | JB | 0.0148 | 5.41 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.677 | JB | 0.0125 | 5.41 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0699 | JB | 0.0167 | 5.41 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.28 | JB | 0.0180 | 10.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 77 | 25 - 164 |
| 13C12-12378-PeCDD | 82 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 87 | 28 - 130 |
| 13C12-123789-HxCDD | 82 | 28 - 130 |
| 13C12-1234678-HpCDD | 93 | 23 - 140 |
| 13C12-OCDD | 89 | 17 - 157 |
| 13C12-2378-TCDF | 68 | 24 - 169 |
| 13C12-12378-PeCDF | 87 | 24 - 185 |
| 13C12-23478-PeCDF | 88 | 21 - 178 |
| 13C12-123478-HxCDF | 85 | 26 - 152 |
| 13C12-123678-HxCDF | 90 | 26 - 123 |
| 13C12-234678-HxCDF | 91 | 28 - 136 |
| 13C12-123789-HxCDF | 90 | 29 - 147 |
| 13C12-1234678-HpCDF | 101 | 28 - 143 |
| 13C12-1234789-HpCDF | 87 | 26 - 138 |
| 13C12-OCDF | 82 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-120-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-NBZ-SS

**LLI Sample # SW 6607535**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 11:05

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6706 SDG#: DX167-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-120-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-NBZ-SS

**LLI Sample # SW 6607535**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 11:05

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6706 SDG#: DX167-06

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/17/2012 19:05 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12108162401B | 04/17/2012 11:46 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** EB-NBZ-SB-040412 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SB

**LLI Sample # WW 6607536**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 14:30

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6707 SDG#: DX167-07EB

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | pg/l | | pg/l | pg/l | |
| 10915 | 2378-TCDD | 1746-01-6 | 0.808 | U | 0.808 | 1.89 | 1 |
| 10915 | 12378-PeCDD | 40321-76-4 | 0.939 | U | 0.939 | 9.43 | 1 |
| 10915 | 123478-HxCDD | 39227-28-6 | 1.18 | JB | 0.667 | 9.43 | 1 |
| 10915 | 123678-HxCDD | 57653-85-7 | 2.38 | JB | 0.743 | 9.43 | 1 |
| 10915 | 123789-HxCDD | 19408-74-3 | 1.30 | JB | 0.731 | 9.43 | 1 |
| 10915 | 1234678-HpCDD | 35822-46-9 | 13.5 | B | 0.963 | 9.43 | 1 |
| 10915 | OCDD | 3268-87-9 | 35.3 | B | 0.769 | 18.9 | 1 |
| 10915 | 2378-TCDF | 51207-31-9 | 0.627 | U | 0.627 | 1.89 | 1 |
| 10915 | 12378-PeCDF | 57117-41-6 | 1.41 | JB | 0.645 | 9.43 | 1 |
| 10915 | 23478-PeCDF | 57117-31-4 | 2.21 | JBQ | 0.535 | 9.43 | 1 |
| 10915 | 123478-HxCDF | 70648-26-9 | 1.93 | JB | 0.593 | 9.43 | 1 |
| 10915 | 123678-HxCDF | 57117-44-9 | 1.91 | JB | 0.611 | 9.43 | 1 |
| 10915 | 123789-HxCDF | 72918-21-9 | 1.35 | JB | 0.608 | 9.43 | 1 |
| 10915 | 234678-HxCDF | 60851-34-5 | 0.998 | JB | 0.483 | 9.43 | 1 |
| 10915 | 1234678-HpCDF | 67562-39-4 | 6.61 | JB | 0.798 | 9.43 | 1 |
| 10915 | 1234789-HpCDF | 55673-89-7 | 1.43 | JB | 0.987 | 9.43 | 1 |
| 10915 | OCDF | 39001-02-0 | 5.46 | JB | 0.935 | 18.9 | 1 |

The recoveries for several labeled compounds are outside of QC acceptance limits. The data quality is not impacted by these results.

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 23 | 25 - 164 |
| 13C12-12378-PeCDD | 22 | 25 - 181 |
| 13C12-123478-HxCDD | 20 | 32 - 141 |
| 13C12-123678-HxCDD | 19 | 28 - 130 |
| 13C12-123789-HxCDD | 19 | 28 - 130 |
| 13C12-1234678-HpCDD | 18 | 23 - 140 |
| 13C12-OCDD | 17 | 17 - 157 |
| 13C12-2378-TCDF | 27 | 24 - 169 |
| 13C12-12378-PeCDF | 20 | 24 - 185 |
| 13C12-23478-PeCDF | 22 | 21 - 178 |
| 13C12-123478-HxCDF | 18 | 26 - 152 |
| 13C12-123678-HxCDF | 18 | 26 - 123 |
| 13C12-234678-HxCDF | 20 | 28 - 136 |
| 13C12-123789-HxCDF | 20 | 29 - 147 |
| 13C12-1234678-HpCDF | 18 | 28 - 143 |
| 13C12-1234789-HpCDF | 17 | 26 - 138 |
| 13C12-OCDF | 16 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** **EB-NBZ-SB-040412 Water**
**SSFL Area IV Collocated Soil Sampling**
**EB-NBZ-SB**

**LLI Sample # WW 6607536**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 14:30

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6707 SDG#: DX167-07EB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*F* *Interference is present*
*S* *Saturation of detection signal*

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10915 | 10b Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101001 | 04/12/2012 00:04 | Joseph D Anderson | 1 |
| 10914 | Dioxins/Furans in Water - SepF | EPA 1613B | 1 | 12101001 | 04/10/2012 08:00 | Deborah M Zimmerman | 1 |

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# Analysis Report



**Sample Description:** EB-NBZ-SS-040412 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SS

**LLI Sample # WW 6607537**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 15:45

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6708 SDG#: DX167-08EB

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | pg/l | | pg/l | pg/l | |
| 10915 | 2378-TCDD | 1746-01-6 | 0.350 | U | 0.350 | 1.88 | 1 |
| 10915 | 12378-PeCDD | 40321-76-4 | 0.409 | U | 0.409 | 9.42 | 1 |
| 10915 | 123478-HxCDD | 39227-28-6 | 0.429 | JBQ | 0.323 | 9.42 | 1 |
| 10915 | 123678-HxCDD | 57653-85-7 | 0.384 | JBQ | 0.343 | 9.42 | 1 |
| 10915 | 123789-HxCDD | 19408-74-3 | 0.573 | JBQ | 0.343 | 9.42 | 1 |
| 10915 | 1234678-HpCDD | 35822-46-9 | 4.82 | JB | 0.464 | 9.42 | 1 |
| 10915 | OCDD | 3268-87-9 | 13.7 | JB | 0.409 | 18.8 | 1 |
| 10915 | 2378-TCDF | 51207-31-9 | 0.333 | U | 0.333 | 1.88 | 1 |
| 10915 | 12378-PeCDF | 57117-41-6 | 0.287 | U | 0.287 | 9.42 | 1 |
| 10915 | 23478-PeCDF | 57117-31-4 | 0.448 | JBQ | 0.233 | 9.42 | 1 |
| 10915 | 123478-HxCDF | 70648-26-9 | 0.854 | JB | 0.232 | 9.42 | 1 |
| 10915 | 123678-HxCDF | 57117-44-9 | 0.570 | JBQ | 0.243 | 9.42 | 1 |
| 10915 | 123789-HxCDF | 72918-21-9 | 0.768 | JBQ | 0.241 | 9.42 | 1 |
| 10915 | 234678-HxCDF | 60851-34-5 | 0.755 | JBQ | 0.201 | 9.42 | 1 |
| 10915 | 1234678-HpCDF | 67562-39-4 | 1.80 | JB | 0.286 | 9.42 | 1 |
| 10915 | 1234789-HpCDF | 55673-89-7 | 0.837 | JB | 0.342 | 9.42 | 1 |
| 10915 | OCDF | 39001-02-0 | 2.62 | JB | 0.466 | 18.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 43 | 25 - 164 |
| 13C12-12378-PeCDD | 41 | 25 - 181 |
| 13C12-123478-HxCDD | 40 | 32 - 141 |
| 13C12-123678-HxCDD | 39 | 28 - 130 |
| 13C12-123789-HxCDD | 39 | 28 - 130 |
| 13C12-1234678-HpCDD | 37 | 23 - 140 |
| 13C12-OCDD | 33 | 17 - 157 |
| 13C12-2378-TCDF | 43 | 24 - 169 |
| 13C12-12378-PeCDF | 39 | 24 - 185 |
| 13C12-23478-PeCDF | 41 | 21 - 178 |
| 13C12-123478-HxCDF | 37 | 26 - 152 |
| 13C12-123678-HxCDF | 38 | 26 - 123 |
| 13C12-234678-HxCDF | 41 | 28 - 136 |
| 13C12-123789-HxCDF | 42 | 29 - 147 |
| 13C12-1234678-HpCDF | 36 | 28 - 143 |
| 13C12-1234789-HpCDF | 36 | 26 - 138 |
| 13C12-OCDF | 33 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** **EB-NBZ-SS-040412 Water**
**SSFL Area IV Collocated Soil Sampling**
**EB-NBZ-SS**

**LLI Sample # WW 6607537**
**LLI Group # 1300397**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 15:45

Submitted: 04/05/2012 09:05
Reported: 04/27/2012 12:18

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6708 SDG#: DX167-08EB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10915 | 10b Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12101001 | 04/12/2012 01:01 | Joseph D Anderson | 1 |
| 10914 | Dioxins/Furans in Water - SepF | EPA 1613B | 1 | 12101001 | 04/10/2012 08:00 | Deborah M Zimmerman | 1 |

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300397
Reported: 04/27/12 at 12:18 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12108162401B | Sample number(s): 6607530-6607535 | | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12101001 | Sample number(s): 6607536-6607537 | | | | | | | | | |
| 2378-TCDD | 0.620 | J | 0.388 | 2.00 | pg/l | 92 | | 67-158 | | |
| 12378-PeCDD | 0.413 | U | 0.413 | 10.0 | pg/l | 94 | | 70-142 | | |
| 123478-HxCDD | 0.486 | J | 0.303 | 10.0 | pg/l | 96 | | 70-164 | | |
| 123678-HxCDD | 0.668 | J | 0.318 | 10.0 | pg/l | 92 | | 76-134 | | |
| 123789-HxCDD | 0.800 | J | 0.327 | 10.0 | pg/l | 101 | | 64-162 | | |
| 1234678-HpCDD | 6.29 | J | 0.500 | 10.0 | pg/l | 98 | | 70-140 | | |
| OCDD | 12.8 | J | 0.398 | 20.0 | pg/l | 99 | | 78-144 | | |
| 2378-TCDF | 0.304 | U | 0.304 | 2.00 | pg/l | 96 | | 75-158 | | |
| 12378-PeCDF | 0.582 | J | 0.242 | 10.0 | pg/l | 101 | | 80-134 | | |
| 23478-PeCDF | 0.636 | J | 0.212 | 10.0 | pg/l | 97 | | 68-160 | | |
| 123478-HxCDF | 0.839 | J | 0.226 | 10.0 | pg/l | 98 | | 72-134 | | |
| 123678-HxCDF | 0.937 | J | 0.227 | 10.0 | pg/l | 101 | | 84-130 | | |
| 123789-HxCDF | 0.457 | J | 0.231 | 10.0 | pg/l | 101 | | 78-130 | | |
| 234678-HxCDF | 0.857 | J | 0.194 | 10.0 | pg/l | 95 | | 70-156 | | |
| 1234678-HpCDF | 2.57 | J | 0.224 | 10.0 | pg/l | 94 | | 82-122 | | |
| 1234789-HpCDF | 1.26 | J | 0.251 | 10.0 | pg/l | 99 | | 78-138 | | |
| OCDF | 3.36 | J | 0.438 | 20.0 | pg/l | 99 | | 63-170 | | |
| Batch number: 12104003 | Sample number(s): 6607530-6607535 | | | | | | | | | |
| 2378-TCDD | 0.0657 | J | 0.0213 | 1.00 | ng/kg | 105 | | 67-158 | | |
| 12378-PeCDD | 0.0344 | J | 0.0213 | 5.00 | ng/kg | 103 | | 70-142 | | |
| 123478-HxCDD | 0.0139 | U | 0.0139 | 5.00 | ng/kg | 100 | | 70-164 | | |
| 123678-HxCDD | 0.0410 | J | 0.0151 | 5.00 | ng/kg | 98 | | 76-134 | | |
| 123789-HxCDD | 0.0506 | J | 0.0150 | 5.00 | ng/kg | 110 | | 64-162 | | |
| 1234678-HpCDD | 0.317 | J | 0.0180 | 5.00 | ng/kg | 104 | | 70-140 | | |
| OCDD | 0.733 | J | 0.0120 | 10.0 | ng/kg | 102 | | 78-144 | | |
| 2378-TCDF | 0.0196 | U | 0.0196 | 1.00 | ng/kg | 108 | | 75-158 | | |
| 12378-PeCDF | 0.0347 | J | 0.0100 | 5.00 | ng/kg | 109 | | 80-134 | | |
| 23478-PeCDF | 0.0574 | J | 0.00870 | 5.00 | ng/kg | 100 | | 68-160 | | |
| 123478-HxCDF | 0.0326 | J | 0.00890 | 5.00 | ng/kg | 98 | | 72-134 | | |
| 123678-HxCDF | 0.0198 | J | 0.00840 | 5.00 | ng/kg | 100 | | 84-130 | | |
| 123789-HxCDF | 0.0408 | J | 0.00950 | 5.00 | ng/kg | 99 | | 78-130 | | |
| 234678-HxCDF | 0.0399 | J | 0.00780 | 5.00 | ng/kg | 96 | | 70-156 | | |
| 1234678-HpCDF | 0.106 | J | 0.00690 | 5.00 | ng/kg | 95 | | 82-122 | | |
| 1234789-HpCDF | 0.0533 | J | 0.00980 | 5.00 | ng/kg | 99 | | 78-138 | | |
| OCDF | 0.152 | J | 0.0146 | 10.0 | ng/kg | 94 | | 63-170 | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300397
Reported: 04/27/12 at 12:18 PM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12108162401B | Sample number(s): 6607530-6607535 | | | | | BKG: 6607530 | | | |
| Moisture Content by 160.3 | | | | | | 9.0 | 9.0 | 0 | 20 |
| Batch number: 12104003 | Sample number(s): 6607530-6607535 UNSPK: P612359 | | | | | | | | |
| 2378-TCDD | 111 | 107 | 67-158 | 5 | 25 | | | | |
| 12378-PeCDD | 110 | 106 | 70-142 | 5 | 25 | | | | |
| 123478-HxCDD | 101 | 100 | 70-164 | 2 | 25 | | | | |
| 123678-HxCDD | 101 | 99 | 76-134 | 3 | 25 | | | | |
| 123789-HxCDD | 108 | 106 | 64-162 | 3 | 25 | | | | |
| 1234678-HpCDD | 104 | 102 | 70-140 | 2 | 25 | | | | |
| OCDD | 106 | 104 | 78-144 | 2 | 25 | | | | |
| 2378-TCDF | 103 | 99 | 75-158 | 4 | 25 | | | | |
| 12378-PeCDF | 114 | 111 | 80-134 | 3 | 25 | | | | |
| 23478-PeCDF | 105 | 103 | 68-160 | 2 | 25 | | | | |
| 123478-HxCDF | 102 | 98 | 72-134 | 5 | 25 | | | | |
| 123678-HxCDF | 103 | 99 | 84-130 | 5 | 25 | | | | |
| 123789-HxCDF | 102 | 98 | 78-130 | 4 | 25 | | | | |
| 234678-HxCDF | 99 | 97 | 70-156 | 3 | 25 | | | | |
| 1234678-HpCDF | 97 | 94 | 82-122 | 4 | 25 | | | | |
| 1234789-HpCDF | 98 | 97 | 78-138 | 2 | 25 | | | | |
| OCDF | 100 | 99 | 63-170 | 2 | 25 | | | | |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 12101001

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6607536 | 23* | 22 | 18* | 18* | 20* | 20* |
| 6607537 | 43 | 41 | 37 | 38 | 41 | 42 |
| Blank | 41 | 45 | 45 | 46 | 47 | 48 |
| OPR | 53 | 60 | 61 | 62 | 63 | 63 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6607536 | 18* | 17* | 16* | 22* | 20* | 19* |
| 6607537 | 36 | 36 | 33 | 41 | 40 | 39 |
| Blank | 40 | 39 | 34 | 43 | 45 | 46 |
| OPR | 59 | 58 | 56 | 60 | 61 | 63 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300397
Reported: 04/27/12 at 12:18 PM

## Surrogate Quality Control

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6607536 | 19* | 18* | 17 | 27 | 20* |
| 6607537 | 39 | 37 | 33 | 43 | 39 |
| Blank | 44 | 39 | 34 | 50 | 44 |
| OPR | 62 | 59 | 56 | 56 | 59 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12104003

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6607530 | 86 | 132 | 93 | 95 | 95 | 97 |
| 6607531 | 73 | 114 | 79 | 82 | 82 | 77 |
| 6607532 | 75 | 105 | 80 | 80 | 82 | 83 |
| 6607533 | 85 | 120 | 84 | 85 | 85 | 89 |
| 6607534 | 69 | 98 | 72 | 75 | 73 | 74 |
| 6607535 | 77 | 88 | 85 | 90 | 91 | 90 |
| Blank | 71 | 110 | 83 | 88 | 87 | 87 |
| MS | 70 | 113 | 86 | 87 | 87 | 85 |
| MSD | 78 | 109 | 81 | 82 | 83 | 80 |
| OPR | 67 | 93 | 77 | 81 | 80 | 79 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6607530 | 103 | 91 | 92 | 126 | 94 | 94 |
| 6607531 | 85 | 72 | 68 | 113 | 83 | 83 |
| 6607532 | 86 | 76 | 74 | 103 | 85 | 90 |
| 6607533 | 87 | 78 | 73 | 117 | 84 | 88 |
| 6607534 | 83 | 66 | 60 | 95 | 77 | 77 |
| 6607535 | 101 | 87 | 82 | 82 | 83 | 87 |
| Blank | 99 | 84 | 87 | 98 | 81 | 83 |
| MS | 90 | 79 | 73 | 96 | 86 | 88 |
| MSD | 87 | 78 | 71 | 105 | 83 | 86 |
| OPR | 90 | 77 | 78 | 95 | 80 | 85 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6607530 | 92 | 98 | 91 | 93 | 134 |
| 6607531 | 78 | 74 | 72 | 72 | 112 |
| 6607532 | 87 | 90 | 78 | 82 | 101 |
| 6607533 | 83 | 83 | 73 | 82 | 113 |
| 6607534 | 75 | 77 | 65 | 73 | 102 |
| 6607535 | 82 | 93 | 89 | 68 | 87 |
| Blank | 82 | 86 | 89 | 76 | 106 |
| MS | 87 | 87 | 74 | 85 | 107 |
| MSD | 85 | 85 | 71 | 83 | 111 |
| OPR | 76 | 83 | 82 | 68 | 88 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300397
Reported: 04/27/12 at 12:18 PM

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Acct# 13013 Ap# 1300397 Sample# 6607530-37

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRI MA | ONDARY ANAL | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-032-NBZ-SS-0.0-0.5 | 4.03.12 | 1400 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-035-NBZ-SS-0.0-0.5 | 4.03.12 | 1430 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-035-NBZ-SS-2.0-3.0 | 4.03.12 | 1440 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-115-NBZ-SS-0.0-0.5 | 4.03.12 | 1432 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-140-NBZ-SS-0.0-0.5 | 4.03.12 | 1406 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-198-NBZ-SS-0.0-0.5 | 4.03.12 | 1526 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-020-NBZ-SS-0.0-0.5 | 4.04.12 | 1440 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-020-NBZ-SB-2.5-3.5 | 4.04.12 | 1340 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-097-NBZ-SS-0.0-0.5 | 4.04.12 | 0914 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-099-NBZ-SS-0.0-0.5 | 4.04.12 | 1041 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-100-NBZ-SS-0.0-0.5 | 4.04.12 | 951 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-104-NBZ-SS-0.0-0.5 | 4.04.12 | 1040 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-110-NBZ-SS-0.0-0.5 | 4.04.12 | 0900 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-114-NBZ-SS-0.0-0.5 | 4.04.12 | 0925 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-120-NBZ-SS-0.0-0.5 | 4.04.12 | 1105 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| EB-NBZ-SB-040412 | 4.04.12 | 1430 | WATER | NONE | 4-1 L Ambers | X | | X | X | |
| EB-NBZ-SB-040412 | 4.04.12 | 1430 | WATER | NONE | 1-250 mL glass | | X | | | |
| EB-NBZ-SS-040412 | 4.04.12 | 1545 | WATER | NONE | 4-1 L Ambers | X | | X | X | |
| EB-NBZ-SS-040412 | 4.04.12 | 1545 | WATER | NONE | 1-250 mL glass | | X | | | |
| Relinquished by: (*Signature*) | Date/Time | | Received for Laboratory by: (*Signature*) | | | | | | | Laboratory: |
| | 4/04/2012 / 1630 | | ~~1516~~ LI 4/5/12 0905 (5/4/12) | | | | | | | Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s) | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 25, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/06/2012
Group Number: 1300625
SDG: DX167
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-155-NBZ-SS-0.0-0.5 Soil | 6608538 |
| SL-181-NBZ-SS-0.0-0.5 Soil | 6608539 |
| SL-187-NBZ-SS-0.0-0.5 Soil | 6608540 |
| SL-149-NBZ-SS-0.0-0.5 Soil | 6608541 |
| SL-165-NBZ-SS-0.0-0.5 Soil | 6608542 |
| SL-175-NBZ-SS-0.0-0.5 Soil | 6608543 |
| SL-190-NBZ-SS-0.0-0.5 Soil | 6608544 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-155-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-NBZ-SS

**LLI Sample # SW 6608538**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 14:55

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL155 SDG#: DX167-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.9 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-155-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-NBZ-SS

**LLI Sample # SW 6608538**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 14:55

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL155 SDG#: DX167-09

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0638 | JB | 0.0217 | 1.07 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.245 | JBQ | 0.0311 | 5.37 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.106 | JQ | 0.0228 | 5.37 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.413 | JBQ | 0.0244 | 5.37 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.563 | JB | 0.0244 | 5.37 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.01 | JB | 0.0245 | 5.37 | 1 |
| 11031 | OCDD | 3268-87-9 | 15.9 | B | 0.0233 | 10.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.162 | J | 0.0347 | 1.07 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.354 | JBQ | 0.0212 | 5.37 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.358 | JBQ | 0.0200 | 5.37 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.219 | JB | 0.0145 | 5.37 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.182 | JBQ | 0.0145 | 5.37 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.217 | JBQ | 0.0173 | 5.37 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.148 | JBQ | 0.0140 | 5.37 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.473 | JB | 0.0117 | 5.37 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0771 | JB | 0.0174 | 5.37 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.906 | JB | 0.0214 | 10.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 90 | 25 - 164 |
| 13C12-12378-PeCDD | 90 | 25 - 181 |
| 13C12-123478-HxCDD | 75 | 32 - 141 |
| 13C12-123678-HxCDD | 78 | 28 - 130 |
| 13C12-123789-HxCDD | 74 | 28 - 130 |
| 13C12-1234678-HpCDD | 77 | 23 - 140 |
| 13C12-OCDD | 68 | 17 - 157 |
| 13C12-2378-TCDF | 74 | 24 - 169 |
| 13C12-12378-PeCDF | 102 | 24 - 185 |
| 13C12-23478-PeCDF | 96 | 21 - 178 |
| 13C12-123478-HxCDF | 75 | 26 - 152 |
| 13C12-123678-HxCDF | 80 | 26 - 123 |
| 13C12-234678-HxCDF | 76 | 28 - 136 |
| 13C12-123789-HxCDF | 73 | 29 - 147 |
| 13C12-1234678-HpCDF | 87 | 28 - 143 |
| 13C12-1234789-HpCDF | 68 | 26 - 138 |
| 13C12-OCDF | 62 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-155-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-155-NBZ-SS**

**LLI Sample # SW 6608538**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 14:55

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL155 SDG#: DX167-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-155-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-NBZ-SS

**LLI Sample # SW 6608538**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 14:55

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL155 SDG#: DX167-09

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/17/2012 20:02 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401B | 04/11/2012 11:50 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-181-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-NBZ-SS

**LLI Sample # SW 6608539**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 14:22

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL181 SDG#: DX167-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.7 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-181-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-NBZ-SS

**LLI Sample # SW 6608539**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 14:22

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL181 SDG#: DX167-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.122 JBQ | 0.0332 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0965 JBQ | 0.0277 | 5.44 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0980 JQ | 0.0271 | 5.44 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.143 JBQ | 0.0271 | 5.44 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.211 JBQ | 0.0269 | 5.44 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.907 JB | 0.0342 | 5.44 | 1 |
| 11031 | OCDD | 3268-87-9 | 4.75 JB | 0.0320 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0901 JQ | 0.0309 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.178 JBQ | 0.0183 | 5.44 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.154 JBQ | 0.0165 | 5.44 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.106 JB | 0.0180 | 5.44 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.106 JB | 0.0180 | 5.44 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.158 JBQ | 0.0216 | 5.44 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0810 JBQ | 0.0176 | 5.44 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.246 JBQ | 0.0127 | 5.44 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0737 JBQ | 0.0189 | 5.44 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.339 JBQ | 0.0297 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 60 | 25 - 164 |
| 13C12-12378-PeCDD | 82 | 25 - 181 |
| 13C12-123478-HxCDD | 63 | 32 - 141 |
| 13C12-123678-HxCDD | 70 | 28 - 130 |
| 13C12-123789-HxCDD | 68 | 28 - 130 |
| 13C12-1234678-HpCDD | 70 | 23 - 140 |
| 13C12-OCDD | 68 | 17 - 157 |
| 13C12-2378-TCDF | 70 | 24 - 169 |
| 13C12-12378-PeCDF | 88 | 24 - 185 |
| 13C12-23478-PeCDF | 88 | 21 - 178 |
| 13C12-123478-HxCDF | 73 | 26 - 152 |
| 13C12-123678-HxCDF | 77 | 26 - 123 |
| 13C12-234678-HxCDF | 72 | 28 - 136 |
| 13C12-123789-HxCDF | 71 | 29 - 147 |
| 13C12-1234678-HpCDF | 81 | 28 - 143 |
| 13C12-1234789-HpCDF | 63 | 26 - 138 |
| 13C12-OCDF | 63 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-181-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-181-NBZ-SS**

**LLI Sample # SW 6608539**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 14:22

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL181 SDG#: DX167-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-181-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-NBZ-SS

**LLI Sample # SW 6608539**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 14:22

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL181 SDG#: DX167-10

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/18/2012 00:01 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401B | 04/11/2012 11:50 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-187-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-NBZ-SS

**LLI Sample # SW 6608540**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 13:49

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL187 SDG#: DX167-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.4 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-187-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-NBZ-SS

**LLI Sample # SW 6608540**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 13:49

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL187 SDG#: DX167-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0577 JBQ | 0.0274 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.115 JBQ | 0.0260 | 5.45 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0559 JQ | 0.0211 | 5.45 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.238 JB | 0.0227 | 5.45 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.243 JB | 0.0229 | 5.45 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.34 JB | 0.0227 | 5.45 | 1 |
| 11031 | OCDD | 3268-87-9 | 20.5 B | 0.0236 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0813 J | 0.0317 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.214 JB | 0.0189 | 5.45 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.102 JB | 0.0168 | 5.45 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.112 JB | 0.0141 | 5.45 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.103 JB | 0.0138 | 5.45 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.100 JB | 0.0170 | 5.45 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0986 JBQ | 0.0133 | 5.45 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.582 JB | 0.0114 | 5.45 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0929 JB | 0.0171 | 5.45 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.67 JB | 0.0205 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 70 | 25 - 164 |
| 13C12-12378-PeCDD | 90 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 83 | 28 - 130 |
| 13C12-123789-HxCDD | 82 | 28 - 130 |
| 13C12-1234678-HpCDD | 91 | 23 - 140 |
| 13C12-OCDD | 74 | 17 - 157 |
| 13C12-2378-TCDF | 81 | 24 - 169 |
| 13C12-12378-PeCDF | 95 | 24 - 185 |
| 13C12-23478-PeCDF | 97 | 21 - 178 |
| 13C12-123478-HxCDF | 83 | 26 - 152 |
| 13C12-123678-HxCDF | 88 | 26 - 123 |
| 13C12-234678-HxCDF | 86 | 28 - 136 |
| 13C12-123789-HxCDF | 81 | 29 - 147 |
| 13C12-1234678-HpCDF | 102 | 28 - 143 |
| 13C12-1234789-HpCDF | 77 | 26 - 138 |
| 13C12-OCDF | 68 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-187-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-187-NBZ-SS**

**LLI Sample # SW 6608540**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 13:49

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL187 SDG#: DX167-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-187-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-NBZ-SS

**LLI Sample # SW 6608540**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 13:49

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL187 SDG#: DX167-11

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/18/2012 00:58 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401B | 04/11/2012 11:50 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-149-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-NBZ-SS

**LLI Sample # SW 6608541**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/05/2012 10:40

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL149 SDG#: DX167-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 9.2 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-149-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-NBZ-SS

**LLI Sample # SW 6608541**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/05/2012 10:40

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL149 SDG#: DX167-12

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0285 | U | 0.0285 | 1.10 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.133 | JBQ | 0.0295 | 5.48 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0627 | JQ | 0.0261 | 5.48 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.389 | JB | 0.0291 | 5.48 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.483 | JB | 0.0273 | 5.48 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.06 | JB | 0.0261 | 5.48 | 1 |
| 11031 | OCDD | 3268-87-9 | 11.9 | B | 0.0227 | 11.0 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.118 | J | 0.0350 | 1.10 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.113 | JB | 0.0203 | 5.48 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.151 | JB | 0.0174 | 5.48 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.118 | JB | 0.0164 | 5.48 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.113 | JBQ | 0.0163 | 5.48 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.136 | JB | 0.0180 | 5.48 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.104 | JB | 0.0152 | 5.48 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.408 | JB | 0.0127 | 5.48 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0675 | JB | 0.0180 | 5.48 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.630 | JB | 0.0231 | 11.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 78 | 25 - 164 |
| 13C12-12378-PeCDD | 106 | 25 - 181 |
| 13C12-123478-HxCDD | 78 | 32 - 141 |
| 13C12-123678-HxCDD | 80 | 28 - 130 |
| 13C12-123789-HxCDD | 81 | 28 - 130 |
| 13C12-1234678-HpCDD | 78 | 23 - 140 |
| 13C12-OCDD | 77 | 17 - 157 |
| 13C12-2378-TCDF | 81 | 24 - 169 |
| 13C12-12378-PeCDF | 104 | 24 - 185 |
| 13C12-23478-PeCDF | 105 | 21 - 178 |
| 13C12-123478-HxCDF | 80 | 26 - 152 |
| 13C12-123678-HxCDF | 83 | 26 - 123 |
| 13C12-234678-HxCDF | 83 | 28 - 136 |
| 13C12-123789-HxCDF | 82 | 29 - 147 |
| 13C12-1234678-HpCDF | 90 | 28 - 143 |
| 13C12-1234789-HpCDF | 74 | 26 - 138 |
| 13C12-OCDF | 66 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-149-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-149-NBZ-SS**

**LLI Sample # SW 6608541**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/05/2012 10:40

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL149 SDG#: DX167-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-149-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-NBZ-SS

**LLI Sample # SW 6608541**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/05/2012 10:40

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL149 SDG#: DX167-12

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/18/2012 01:54 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401B | 04/11/2012 11:50 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-165-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-NBZ-SS

**LLI Sample # SW 6608542**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/05/2012 11:20

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL165 SDG#: DX167-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 9.3 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-165-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-NBZ-SS

**LLI Sample # SW 6608542**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/05/2012 11:20

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL165 SDG#: DX167-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0312 JBQ | 0.0229 | 1.08 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0832 JBQ | 0.0228 | 5.38 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0794 JQ | 0.0192 | 5.38 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.244 JB | 0.0204 | 5.38 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.331 JB | 0.0212 | 5.38 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.40 JB | 0.0208 | 5.38 | 1 |
| 11031 | OCDD | 3268-87-9 | 17.5 B | 0.0203 | 10.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0660 JQ | 0.0294 | 1.08 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.114 JB | 0.0164 | 5.38 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.111 JB | 0.0151 | 5.38 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0917 JBQ | 0.0137 | 5.38 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0673 JB | 0.0128 | 5.38 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.171 JBQ | 0.0154 | 5.38 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0751 JB | 0.0119 | 5.38 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.443 JB | 0.00937 | 5.38 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0620 JB | 0.0132 | 5.38 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.938 JB | 0.0183 | 10.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 77 | 25 - 164 |
| 13C12-12378-PeCDD | 111 | 25 - 181 |
| 13C12-123478-HxCDD | 85 | 32 - 141 |
| 13C12-123678-HxCDD | 86 | 28 - 130 |
| 13C12-123789-HxCDD | 84 | 28 - 130 |
| 13C12-1234678-HpCDD | 90 | 23 - 140 |
| 13C12-OCDD | 83 | 17 - 157 |
| 13C12-2378-TCDF | 80 | 24 - 169 |
| 13C12-12378-PeCDF | 115 | 24 - 185 |
| 13C12-23478-PeCDF | 115 | 21 - 178 |
| 13C12-123478-HxCDF | 84 | 26 - 152 |
| 13C12-123678-HxCDF | 89 | 26 - 123 |
| 13C12-234678-HxCDF | 87 | 28 - 136 |
| 13C12-123789-HxCDF | 84 | 29 - 147 |
| 13C12-1234678-HpCDF | 96 | 28 - 143 |
| 13C12-1234789-HpCDF | 79 | 26 - 138 |
| 13C12-OCDF | 73 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-165-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-165-NBZ-SS**

**LLI Sample # SW 6608542**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/05/2012 11:20

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL165 SDG#: DX167-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-165-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-NBZ-SS

**LLI Sample # SW 6608542**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/05/2012 11:20

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL165 SDG#: DX167-13

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/18/2012 02:51 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401B | 04/11/2012 11:50 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-175-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-NBZ-SS

**LLI Sample # SW 6608543**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/05/2012 09:55

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL175 SDG#: DX167-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 15.6 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-175-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-NBZ-SS

**LLI Sample # SW 6608543**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/05/2012 09:55

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL175 SDG#: DX167-14

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0436 | JB | 0.0265 | 1.18 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.206 | JB | 0.0277 | 5.92 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.136 | J | 0.0263 | 5.92 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.720 | JB | 0.0259 | 5.92 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.846 | JB | 0.0276 | 5.92 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.89 | JB | 0.0242 | 5.92 | 1 |
| 11031 | OCDD | 3268-87-9 | 28.7 | B | 0.0237 | 11.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0373 | U | 0.0373 | 1.18 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.174 | JB | 0.0224 | 5.92 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.246 | JB | 0.0214 | 5.92 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.216 | JBQ | 0.0153 | 5.92 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.202 | JB | 0.0155 | 5.92 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.133 | JB | 0.0181 | 5.92 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.195 | JBQ | 0.0147 | 5.92 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.871 | JB | 0.0132 | 5.92 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.109 | JB | 0.0186 | 5.92 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.58 | JB | 0.0210 | 11.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 75 | 25 - 164 |
| 13C12-12378-PeCDD | 90 | 25 - 181 |
| 13C12-123478-HxCDD | 77 | 32 - 141 |
| 13C12-123678-HxCDD | 79 | 28 - 130 |
| 13C12-123789-HxCDD | 77 | 28 - 130 |
| 13C12-1234678-HpCDD | 78 | 23 - 140 |
| 13C12-OCDD | 70 | 17 - 157 |
| 13C12-2378-TCDF | 78 | 24 - 169 |
| 13C12-12378-PeCDF | 91 | 24 - 185 |
| 13C12-23478-PeCDF | 87 | 21 - 178 |
| 13C12-123478-HxCDF | 71 | 26 - 152 |
| 13C12-123678-HxCDF | 73 | 26 - 123 |
| 13C12-234678-HxCDF | 72 | 28 - 136 |
| 13C12-123789-HxCDF | 71 | 29 - 147 |
| 13C12-1234678-HpCDF | 81 | 28 - 143 |
| 13C12-1234789-HpCDF | 65 | 26 - 138 |
| 13C12-OCDF | 63 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-175-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-NBZ-SS

**LLI Sample # SW 6608543**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/05/2012 09:55

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL175 SDG#: DX167-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-175-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-NBZ-SS

**LLI Sample # SW 6608543**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/05/2012 09:55

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL175 SDG#: DX167-14

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/18/2012 03:47 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401B | 04/11/2012 11:50 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-190-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-NBZ-SS

**LLI Sample # SW 6608544**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/05/2012 09:25

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL190 SDG#: DX167-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 6.0 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-190-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-NBZ-SS

**LLI Sample # SW 6608544**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/05/2012 09:25

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL190 SDG#: DX167-15

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0482 | JB | 0.0199 | 1.02 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0934 | JB | 0.0216 | 5.08 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0889 | J | 0.0187 | 5.08 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.220 | JB | 0.0193 | 5.08 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.217 | JB | 0.0189 | 5.08 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.51 | JB | 0.0187 | 5.08 | 1 |
| 11031 | OCDD | 3268-87-9 | 19.0 | B | 0.0202 | 10.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.242 | J | 0.0421 | 1.02 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.149 | JBQ | 0.0207 | 5.08 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.176 | JBQ | 0.0151 | 5.08 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.196 | JB | 0.0121 | 5.08 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.123 | JB | 0.0123 | 5.08 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0148 | U | 0.0148 | 5.08 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.157 | JB | 0.0119 | 5.08 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.469 | JB | 0.0104 | 5.08 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0663 | JBQ | 0.0151 | 5.08 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.821 | JB | 0.0176 | 10.2 | 1 |

| **Labeled Compounds** | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 84 | 25 - 164 |
| 13C12-12378-PeCDD | 118 | 25 - 181 |
| 13C12-123478-HxCDD | 80 | 32 - 141 |
| 13C12-123678-HxCDD | 83 | 28 - 130 |
| 13C12-123789-HxCDD | 82 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 73 | 17 - 157 |
| 13C12-2378-TCDF | 75 | 24 - 169 |
| 13C12-12378-PeCDF | 101 | 24 - 185 |
| 13C12-23478-PeCDF | 120 | 21 - 178 |
| 13C12-123478-HxCDF | 80 | 26 - 152 |
| 13C12-123678-HxCDF | 84 | 26 - 123 |
| 13C12-234678-HxCDF | 80 | 28 - 136 |
| 13C12-123789-HxCDF | 77 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 68 | 26 - 138 |
| 13C12-OCDF | 63 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-190-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-190-NBZ-SS**

**LLI Sample # SW 6608544**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/05/2012 09:25

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL190 SDG#: DX167-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-190-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-NBZ-SS

**LLI Sample # SW 6608544**
**LLI Group # 1300625**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/05/2012 09:25

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

SL190 SDG#: DX167-15

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/18/2012 04:44 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401B | 04/11/2012 11:50 | William C Schwebel | 1 |

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300625
Reported: 04/25/12 at 07:03 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12102162401B | Sample number(s): 6608538-6608544 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12104003 | Sample number(s): 6608538-6608544 | | | | | | | | |
| 2378-TCDD | 0.0657 J | 0.0213 | 1.00 | ng/kg | 105 | | 67-158 | | |
| 12378-PeCDD | 0.0344 J | 0.0213 | 5.00 | ng/kg | 103 | | 70-142 | | |
| 123478-HxCDD | 0.0139 U | 0.0139 | 5.00 | ng/kg | 100 | | 70-164 | | |
| 123678-HxCDD | 0.0410 J | 0.0151 | 5.00 | ng/kg | 98 | | 76-134 | | |
| 123789-HxCDD | 0.0506 J | 0.0150 | 5.00 | ng/kg | 110 | | 64-162 | | |
| 1234678-HpCDD | 0.317 J | 0.0180 | 5.00 | ng/kg | 104 | | 70-140 | | |
| OCDD | 0.733 J | 0.0120 | 10.0 | ng/kg | 102 | | 78-144 | | |
| 2378-TCDF | 0.0196 U | 0.0196 | 1.00 | ng/kg | 108 | | 75-158 | | |
| 12378-PeCDF | 0.0347 J | 0.0100 | 5.00 | ng/kg | 109 | | 80-134 | | |
| 23478-PeCDF | 0.0574 J | 0.00870 | 5.00 | ng/kg | 100 | | 68-160 | | |
| 123478-HxCDF | 0.0326 J | 0.00890 | 5.00 | ng/kg | 98 | | 72-134 | | |
| 123678-HxCDF | 0.0198 J | 0.00840 | 5.00 | ng/kg | 100 | | 84-130 | | |
| 123789-HxCDF | 0.0408 J | 0.00950 | 5.00 | ng/kg | 99 | | 78-130 | | |
| 234678-HxCDF | 0.0399 J | 0.00780 | 5.00 | ng/kg | 96 | | 70-156 | | |
| 1234678-HpCDF | 0.106 J | 0.00690 | 5.00 | ng/kg | 95 | | 82-122 | | |
| 1234789-HpCDF | 0.0533 J | 0.00980 | 5.00 | ng/kg | 99 | | 78-138 | | |
| OCDF | 0.152 J | 0.0146 | 10.0 | ng/kg | 94 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12102162401B | Sample number(s): 6608538-6608544 BKG: 6608539 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 8.7 | 8.6 | 2 | 20 |
| Batch number: 12104003 | Sample number(s): 6608538-6608544 UNSPK: P612359 | | | | | | | | |
| 2378-TCDD | 111 | 107 | 67-158 | 5 | 25 | | | | |
| 12378-PeCDD | 110 | 106 | 70-142 | 5 | 25 | | | | |
| 123478-HxCDD | 101 | 100 | 70-164 | 2 | 25 | | | | |
| 123678-HxCDD | 101 | 99 | 76-134 | 3 | 25 | | | | |
| 123789-HxCDD | 108 | 106 | 64-162 | 3 | 25 | | | | |
| 1234678-HpCDD | 104 | 102 | 70-140 | 2 | 25 | | | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300625
Reported: 04/25/12 at 07:03 PM

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| OCDD | 106 | 104 | 78-144 | 2 | 25 | | | | |
| 2378-TCDF | 103 | 99 | 75-158 | 4 | 25 | | | | |
| 12378-PeCDF | 114 | 111 | 80-134 | 3 | 25 | | | | |
| 23478-PeCDF | 105 | 103 | 68-160 | 2 | 25 | | | | |
| 123478-HxCDF | 102 | 98 | 72-134 | 5 | 25 | | | | |
| 123678-HxCDF | 103 | 99 | 84-130 | 5 | 25 | | | | |
| 123789-HxCDF | 102 | 98 | 78-130 | 4 | 25 | | | | |
| 234678-HxCDF | 99 | 97 | 70-156 | 3 | 25 | | | | |
| 1234678-HpCDF | 97 | 94 | 82-122 | 4 | 25 | | | | |
| 1234789-HpCDF | 98 | 97 | 78-138 | 2 | 25 | | | | |
| OCDF | 100 | 99 | 63-170 | 2 | 25 | | | | |

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12104003

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6608538 | 90 | 96 | 75 | 80 | 76 | 73 |
| 6608539 | 60 | 88 | 73 | 77 | 72 | 71 |
| 6608540 | 70 | 97 | 83 | 88 | 86 | 81 |
| 6608541 | 78 | 105 | 80 | 83 | 83 | 82 |
| 6608542 | 77 | 115 | 84 | 89 | 87 | 84 |
| 6608543 | 75 | 87 | 71 | 73 | 72 | 71 |
| 6608544 | 84 | 120 | 80 | 84 | 80 | 77 |
| Blank | 71 | 110 | 83 | 88 | 87 | 87 |
| MS | 70 | 113 | 86 | 87 | 87 | 85 |
| MSD | 78 | 109 | 81 | 82 | 83 | 80 |
| OPR | 67 | 93 | 77 | 81 | 80 | 79 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6608538 | 87 | 68 | 62 | 90 | 75 | 78 |
| 6608539 | 81 | 63 | 63 | 82 | 63 | 70 |
| 6608540 | 102 | 77 | 68 | 90 | 84 | 83 |
| 6608541 | 90 | 74 | 66 | 106 | 78 | 80 |
| 6608542 | 96 | 79 | 73 | 111 | 85 | 86 |
| 6608543 | 81 | 65 | 63 | 90 | 77 | 79 |
| 6608544 | 86 | 68 | 63 | 118 | 80 | 83 |
| Blank | 99 | 84 | 87 | 98 | 81 | 83 |
| MS | 90 | 79 | 73 | 96 | 86 | 88 |
| MSD | 87 | 78 | 71 | 105 | 83 | 86 |
| OPR | 90 | 77 | 78 | 95 | 80 | 85 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300625
Reported: 04/25/12 at 07:03 PM

## Surrogate Quality Control

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6608538 | 74 | 77 | 68 | 74 | 102 |
| 6608539 | 68 | 70 | 68 | 70 | 88 |
| 6608540 | 82 | 91 | 74 | 81 | 95 |
| 6608541 | 81 | 78 | 77 | 81 | 104 |
| 6608542 | 84 | 90 | 83 | 80 | 115 |
| 6608543 | 77 | 78 | 70 | 78 | 91 |
| 6608544 | 82 | 82 | 73 | 75 | 101 |
| Blank | 82 | 86 | 89 | 76 | 106 |
| MS | 87 | 87 | 74 | 85 | 107 |
| MSD | 85 | 85 | 71 | 83 | 111 |
| OPR | 76 | 83 | 82 | 68 | 88 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Op# 1300625 Sample# 6608538-44

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSIS | SECONDARY ANALYSIS | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-020-NBZ-SB-2.5-3.5 | 4.04.12 | 1340 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | PID = 120 ppm |
| SL-155-NBZ-SS-0.0-0.5 | 4.04.12 | 1455 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-181-NBZ-SS-0.0-0.5 | 4.04.12 | 1422 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-187-NBZ-SS-0.0-0.5 | 4.04.12 | 1349 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-149-NBZ-SS-0.0-0.5 | 4.05.12 | 1040 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-165-NBZ-SS-0.0-0.5 | 4.05.12 | 1120 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-175-NBZ-SS-0.0-0.5 | 4.05.12 | 955 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-190-NBZ-SS-0.0-0.5 | 4.05.12 | 925 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| Relinquished by: (*Signature*) | Date/Time<br>4/05/2012 / 1630 | | Received for Laboratory by: (*Signature*) | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time<br>4.6.12<br>905 | | Airbill No.(s) | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 25, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/06/2012
Group Number: 1300640
SDG: DX167
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-020-NBZ-SS-0.0-0.5 Soil | 6608613 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

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Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-020-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-NBZ-SS

**LLI Sample # SW 6608613**
**LLI Group # 1300640**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 14:40

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6716 SDG#: DX167-16

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 11.4 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-020-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-NBZ-SS

**LLI Sample # SW 6608613**
**LLI Group # 1300640**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 14:40

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6716 SDG#: DX167-16

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0338 | JBQ | 0.0249 | 1.13 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.155 | JBQ | 0.0262 | 5.63 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.235 | J | 0.0270 | 5.63 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.584 | JB | 0.0278 | 5.63 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.418 | JB | 0.0284 | 5.63 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 14.8 | B | 0.0388 | 5.63 | 1 |
| 11031 | OCDD | 3268-87-9 | 171 | B | 0.0435 | 11.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.140 | J | 0.0361 | 1.13 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.239 | JBQ | 0.0166 | 5.63 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.199 | JBQ | 0.0151 | 5.63 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.299 | JB | 0.0158 | 5.63 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.185 | JB | 0.0159 | 5.63 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.103 | JB | 0.0194 | 5.63 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.183 | JBQ | 0.0155 | 5.63 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 2.27 | JB | 0.0150 | 5.63 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.206 | JB | 0.0238 | 5.63 | 1 |
| 11031 | OCDF | 39001-02-0 | 6.17 | JB | 0.0219 | 11.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 87 | 25 - 164 |
| 13C12-12378-PeCDD | 120 | 25 - 181 |
| 13C12-123478-HxCDD | 73 | 32 - 141 |
| 13C12-123678-HxCDD | 75 | 28 - 130 |
| 13C12-123789-HxCDD | 74 | 28 - 130 |
| 13C12-1234678-HpCDD | 77 | 23 - 140 |
| 13C12-OCDD | 67 | 17 - 157 |
| 13C12-2378-TCDF | 76 | 24 - 169 |
| 13C12-12378-PeCDF | 128 | 24 - 185 |
| 13C12-23478-PeCDF | 128 | 21 - 178 |
| 13C12-123478-HxCDF | 71 | 26 - 152 |
| 13C12-123678-HxCDF | 74 | 26 - 123 |
| 13C12-234678-HxCDF | 72 | 28 - 136 |
| 13C12-123789-HxCDF | 69 | 29 - 147 |
| 13C12-1234678-HpCDF | 84 | 28 - 143 |
| 13C12-1234789-HpCDF | 64 | 26 - 138 |
| 13C12-OCDF | 57 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-020-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-NBZ-SS

**LLI Sample # SW 6608613**
**LLI Group # 1300640**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 14:40

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6716 SDG#: DX167-16

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-020-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-NBZ-SS

**LLI Sample # SW 6608613**
**LLI Group # 1300640**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/04/2012 14:40

Submitted: 04/06/2012 09:05
Reported: 04/25/2012 19:03

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6716 SDG#: DX167-16

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/18/2012 05:41 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401B | 04/11/2012 11:50 | William C Schwebel | 1 |

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300640
Reported: 04/25/12 at 07:03 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12102162401B | Sample number(s): 6608613 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12104003 | Sample number(s): 6608613 | | | | | | | | |
| 2378-TCDD | 0.0657 J | 0.0213 | 1.00 | ng/kg | 105 | | 67-158 | | |
| 12378-PeCDD | 0.0344 J | 0.0213 | 5.00 | ng/kg | 103 | | 70-142 | | |
| 123478-HxCDD | 0.0139 U | 0.0139 | 5.00 | ng/kg | 100 | | 70-164 | | |
| 123678-HxCDD | 0.0410 J | 0.0151 | 5.00 | ng/kg | 98 | | 76-134 | | |
| 123789-HxCDD | 0.0506 J | 0.0150 | 5.00 | ng/kg | 110 | | 64-162 | | |
| 1234678-HpCDD | 0.317 J | 0.0180 | 5.00 | ng/kg | 104 | | 70-140 | | |
| OCDD | 0.733 J | 0.0120 | 10.0 | ng/kg | 102 | | 78-144 | | |
| 2378-TCDF | 0.0196 U | 0.0196 | 1.00 | ng/kg | 108 | | 75-158 | | |
| 12378-PeCDF | 0.0347 J | 0.0100 | 5.00 | ng/kg | 109 | | 80-134 | | |
| 23478-PeCDF | 0.0574 J | 0.00870 | 5.00 | ng/kg | 100 | | 68-160 | | |
| 123478-HxCDF | 0.0326 J | 0.00890 | 5.00 | ng/kg | 98 | | 72-134 | | |
| 123678-HxCDF | 0.0198 J | 0.00840 | 5.00 | ng/kg | 100 | | 84-130 | | |
| 123789-HxCDF | 0.0408 J | 0.00950 | 5.00 | ng/kg | 99 | | 78-130 | | |
| 234678-HxCDF | 0.0399 J | 0.00780 | 5.00 | ng/kg | 96 | | 70-156 | | |
| 1234678-HpCDF | 0.106 J | 0.00690 | 5.00 | ng/kg | 95 | | 82-122 | | |
| 1234789-HpCDF | 0.0533 J | 0.00980 | 5.00 | ng/kg | 99 | | 78-138 | | |
| OCDF | 0.152 J | 0.0146 | 10.0 | ng/kg | 94 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12102162401B | Sample number(s): 6608613 | | | | | BKG: P608539 | | | |
| Moisture Content by 160.3 | | | | | | 8.7 | 8.6 | 2 | 20 |
| Batch number: 12104003 | Sample number(s): 6608613 | | | | | UNSPK: P612359 | | | |
| 2378-TCDD | 111 | 107 | 67-158 | 5 | 25 | | | | |
| 12378-PeCDD | 110 | 106 | 70-142 | 5 | 25 | | | | |
| 123478-HxCDD | 101 | 100 | 70-164 | 2 | 25 | | | | |
| 123678-HxCDD | 101 | 99 | 76-134 | 3 | 25 | | | | |
| 123789-HxCDD | 108 | 106 | 64-162 | 3 | 25 | | | | |
| 1234678-HpCDD | 104 | 102 | 70-140 | 2 | 25 | | | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300640
Reported: 04/25/12 at 07:03 PM

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| OCDD | 106 | 104 | 78-144 | 2 | 25 | | | | |
| 2378-TCDF | 103 | 99 | 75-158 | 4 | 25 | | | | |
| 12378-PeCDF | 114 | 111 | 80-134 | 3 | 25 | | | | |
| 23478-PeCDF | 105 | 103 | 68-160 | 2 | 25 | | | | |
| 123478-HxCDF | 102 | 98 | 72-134 | 5 | 25 | | | | |
| 123678-HxCDF | 103 | 99 | 84-130 | 5 | 25 | | | | |
| 123789-HxCDF | 102 | 98 | 78-130 | 4 | 25 | | | | |
| 234678-HxCDF | 99 | 97 | 70-156 | 3 | 25 | | | | |
| 1234678-HpCDF | 97 | 94 | 82-122 | 4 | 25 | | | | |
| 1234789-HpCDF | 98 | 97 | 78-138 | 2 | 25 | | | | |
| OCDF | 100 | 99 | 63-170 | 2 | 25 | | | | |

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12104003

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6608613 | 87 | 128 | 71 | 74 | 72 | 69 |
| Blank | 71 | 110 | 83 | 88 | 87 | 87 |
| MS | 70 | 113 | 86 | 87 | 87 | 85 |
| MSD | 78 | 109 | 81 | 82 | 83 | 80 |
| OPR | 67 | 93 | 77 | 81 | 80 | 79 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6608613 | 84 | 64 | 57 | 120 | 73 | 75 |
| Blank | 99 | 84 | 87 | 98 | 81 | 83 |
| MS | 90 | 79 | 73 | 96 | 86 | 88 |
| MSD | 87 | 78 | 71 | 105 | 83 | 86 |
| OPR | 90 | 77 | 78 | 95 | 80 | 85 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6608613 | 74 | 77 | 67 | 76 | 128 |
| Blank | 82 | 86 | 89 | 76 | 106 |
| MS | 87 | 87 | 74 | 85 | 107 |
| MSD | 85 | 85 | 71 | 83 | 111 |
| OPR | 76 | 83 | 82 | 68 | 88 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1300640
Reported: 04/25/12 at 07:03 PM

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Ap# 1300640 Sample# 66036l3

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSES | SECONDARY ANALYSES | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-020-NBZ-SS-0.0-0.5 | | 14:40 | | | | | | | | |
| ~~SL-020-NBZ-SB-2.5-3.5~~ | 4.04.12 | ~~1340~~ | SOIL | NONE | 1-16 oz Jar | X | X | X | X | PID = 120 ppm |
| SL-155-NBZ-SS-0.0-0.5 | 4.04.12 | 1455 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-181-NBZ-SS-0.0-0.5 | 4.04.12 | 1422 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-187-NBZ-SS-0.0-0.5 | 4.04.12 | 1349 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-149-NBZ-SS-0.0-0.5 | 4.05.12 | 1040 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-165-NBZ-SS-0.0-0.5 | 4.05.12 | 1120 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-175-NBZ-SS-0.0-0.5 | 4.05.12 | 955 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-190-NBZ-SS-0.0-0.5 | 4.05.12 | 925 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| Relinquished by: (*Signature*) | Date/Time 4/05/2012 / 1630 | | Received for Laboratory by: (*Signature*) | | | | | | | Laboratory: Lancaster Laboratories, Inc. |
| Received by: (*Signature*) Brandy Brandy | Date/Time 4.6.12 905 | | Airbill No.(s) | | | | | | | |

The sample ID for SL-20 was updated per PH. NM 4/9/12

**Nicole Maljovec**

**From:** Hartman, Pamela [HartmanPM@cdmsmith.com]
**Sent:** Friday, April 06, 2012 1:32 PM
**To:** Nicole Maljovec
**Subject:** RE: SSFL COC 4/4: SL-020-SS & SB Samples

Ugh! Sorry!

It is actually the surface sample, but was mislabeled. We just figured this out. The two sample were stored in two different coolers so I am confident it is the surface sample.

Can you rename it as SL-020-NBZ-SS-0.0-0.5 and analyze it for all four parameters?

Thanks

Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

---

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Friday, April 06, 2012 10:21 AM
To: Hartman, Pamela
Subject: RE: SSFL COC 4/4: SL-020-SS & SB Samples

Hi Pam,
We received SL-020-NBZ-SB-2.5-3.5 again, but not SL-20-NBZ-SS-0.0-0.5.
I'm assuming that we shouldn't analyze the duplicate. Can you check and let me know?

I have the sample on hold and we have plenty of holding time, so this can wait until Monday.

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Thursday, April 05, 2012 2:44 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 4/4: SL-020-SS & SB Samples

Nicole

yes, we do have SL-20 and the SL-020-NBZ-SB-2.5-3.5 is for all four analyses!

thank you!

Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

---

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Thursday, April 05, 2012 9:21 AM
To: Hartman, Pamela
Subject: SSFL COC 4/4: SL-020-SS & SB Samples

Hi Pam,
We received the samples you sent last night, except for SL-020-NBZ-SS-0.0-0.5. Do you have this sample?

We did receive a 16 oz jar for SL-020-NBZ-SB-2.5-3.5, but only dioxins are checked off for this test. Can you confirm the analyses for SL-020-SB-2.5-3.5 and let me know if we should only analyze for dioxins?

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Wednesday, April 04, 2012 7:35 PM
To: Nicole Maljovec; SA Env Entry
Subject: SSLF COC 4/4/12

Nicole

We shipped two coolers today.

Thanks!

Pam

Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 27, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/11/2012
Group Number: 1301394
SDG: DX167
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-009-NBZ-SS-0.0-0.5 Soil | 6612359 |
| SL-009-NBZ-SS-0.0-0.5 MS Soil | 6612360 |
| SL-009-NBZ-SS-0.0-0.5 MSD Soil | 6612361 |
| SL-084-NBZ-SS-0.0-0.5 Soil | 6612362 |
| SL-186-NBZ-SS-0.0-0.5 Soil | 6612363 |
| DUP-07-NBZ-QC-041012 Soil | 6612364 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-009-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-NBZ-SS

**LLI Sample # SW 6612359**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:30

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6717 SDG#: DX167-17BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 12.2 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-009-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-NBZ-SS

**LLI Sample # SW 6612359**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:30

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6717 SDG#: DX167-17BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0331 | JB | 0.0312 | 1.13 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.266 | JBQ | 0.0413 | 5.65 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.218 | J | 0.0262 | 5.65 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.490 | JB | 0.0268 | 5.65 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.384 | JB | 0.0282 | 5.65 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 7.21 | B | 0.0335 | 5.65 | 1 |
| 11031 | OCDD | 3268-87-9 | 63.9 | B | 0.0306 | 11.3 | 1 |
| 11650 | 2378-TCDF-Conf | 51207-31-9 | 1.47 | C | 0.0987 | 1.13 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 5.76 | B | 0.0493 | 5.65 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 1.52 | JB | 0.0485 | 5.65 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 1.87 | JB | 0.0256 | 5.65 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.672 | JB | 0.0246 | 5.65 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.248 | JBQ | 0.0298 | 5.65 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.364 | JB | 0.0244 | 5.65 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.24 | JB | 0.0154 | 5.65 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.158 | JBQ | 0.0236 | 5.65 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.72 | JB | 0.0216 | 11.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 78 | 25 - 164 |
| 13C12-2378-TCDF-Conf | 84 | 24 - 169 |
| 13C12-12378-PeCDD | 94 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 84 | 28 - 130 |
| 13C12-123789-HxCDD | 82 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 74 | 17 - 157 |
| 13C12-12378-PeCDF | 106 | 24 - 185 |
| 13C12-23478-PeCDF | 101 | 21 - 178 |
| 13C12-123478-HxCDF | 80 | 26 - 152 |
| 13C12-123678-HxCDF | 88 | 26 - 123 |
| 13C12-234678-HxCDF | 84 | 28 - 136 |
| 13C12-123789-HxCDF | 79 | 29 - 147 |
| 13C12-1234678-HpCDF | 95 | 28 - 143 |
| 13C12-1234789-HpCDF | 71 | 26 - 138 |
| 13C12-OCDF | 65 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-009-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-NBZ-SS

**LLI Sample # SW 6612359**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:30

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6717 SDG#: DX167-17BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-009-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-NBZ-SS

**LLI Sample # SW 6612359**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:30

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6717 SDG#: DX167-17BKG

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/18/2012 06:37 | Joseph D Anderson | 1 |
| 11650 | Dioxins/Furans in Solids-Conf | EPA 1613B | 1 | 12104003 | 04/19/2012 00:29 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401A | 04/18/2012 11:49 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-009-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-009-NBZ-SS

**LLI Sample # SW 6612360**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:30

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6717 SDG#: DX167-17MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 12.2 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-009-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-009-NBZ-SS

**LLI Sample # SW 6612360**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:30

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6717 SDG#: DX167-17MS

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 25.2 | B | 0.0392 | 1.13 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 125 | B | 0.0459 | 5.66 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 115 | | 0.0387 | 5.66 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 115 | B | 0.0397 | 5.66 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 123 | B | 0.0403 | 5.66 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 124 | B | 0.0469 | 5.66 | 1 |
| 11031 | OCDD | 3268-87-9 | 304 | B | 0.0540 | 11.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 25.9 | | 0.106 | 1.13 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 135 | B | 0.0571 | 5.66 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 120 | B | 0.0483 | 5.66 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 118 | B | 0.0580 | 5.66 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 118 | B | 0.0589 | 5.66 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 116 | B | 0.0662 | 5.66 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 112 | B | 0.0562 | 5.66 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 111 | B | 0.0495 | 5.66 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 111 | B | 0.0625 | 5.66 | 1 |
| 11031 | OCDF | 39001-02-0 | 227 | B | 0.0369 | 11.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 70 | 25 - 164 |
| 13C12-12378-PeCDD | 96 | 25 - 181 |
| 13C12-123478-HxCDD | 86 | 32 - 141 |
| 13C12-123678-HxCDD | 88 | 28 - 130 |
| 13C12-123789-HxCDD | 87 | 28 - 130 |
| 13C12-1234678-HpCDD | 87 | 23 - 140 |
| 13C12-OCDD | 74 | 17 - 157 |
| 13C12-2378-TCDF | 85 | 24 - 169 |
| 13C12-12378-PeCDF | 107 | 24 - 185 |
| 13C12-23478-PeCDF | 113 | 21 - 178 |
| 13C12-123478-HxCDF | 86 | 26 - 152 |
| 13C12-123678-HxCDF | 87 | 26 - 123 |
| 13C12-234678-HxCDF | 87 | 28 - 136 |
| 13C12-123789-HxCDF | 85 | 29 - 147 |
| 13C12-1234678-HpCDF | 90 | 28 - 143 |
| 13C12-1234789-HpCDF | 79 | 26 - 138 |
| 13C12-OCDF | 73 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-009-NBZ-SS-0.0-0.5 MS Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-009-NBZ-SS**

**LLI Sample # SW 6612360**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:30

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6717 SDG#: DX167-17MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-009-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-009-NBZ-SS

**LLI Sample # SW 6612360**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:30

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6717 SDG#: DX167-17MS

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/18/2012 07:34 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401A | 04/18/2012 11:49 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-009-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-009-NBZ-SS

**LLI Sample # SW 6612361**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:30

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6717 SDG#: DX167-17MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 12.2 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-009-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-009-NBZ-SS

**LLI Sample # SW 6612361**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:30

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6717 SDG#: DX167-17MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 24.1 | B | 0.0402 | 1.12 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 119 | B | 0.0457 | 5.60 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 112 | | 0.0383 | 5.60 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 112 | B | 0.0403 | 5.60 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 119 | B | 0.0395 | 5.60 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 122 | B | 0.0569 | 5.60 | 1 |
| 11031 | OCDD | 3268-87-9 | 297 | B | 0.0475 | 11.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 24.9 | | 0.115 | 1.12 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 131 | B | 0.0535 | 5.60 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 117 | B | 0.0477 | 5.60 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 112 | B | 0.0546 | 5.60 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 112 | B | 0.0562 | 5.60 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 110 | B | 0.0648 | 5.60 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 109 | B | 0.0507 | 5.60 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 106 | B | 0.0462 | 5.60 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 109 | B | 0.0577 | 5.60 | 1 |
| 11031 | OCDF | 39001-02-0 | 223 | B | 0.0376 | 11.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 78 | 25 - 164 |
| 13C12-12378-PeCDD | 105 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 86 | 28 - 130 |
| 13C12-123789-HxCDD | 85 | 28 - 130 |
| 13C12-1234678-HpCDD | 85 | 23 - 140 |
| 13C12-OCDD | 71 | 17 - 157 |
| 13C12-2378-TCDF | 83 | 24 - 169 |
| 13C12-12378-PeCDF | 111 | 24 - 185 |
| 13C12-23478-PeCDF | 109 | 21 - 178 |
| 13C12-123478-HxCDF | 81 | 26 - 152 |
| 13C12-123678-HxCDF | 82 | 26 - 123 |
| 13C12-234678-HxCDF | 83 | 28 - 136 |
| 13C12-123789-HxCDF | 80 | 29 - 147 |
| 13C12-1234678-HpCDF | 87 | 28 - 143 |
| 13C12-1234789-HpCDF | 78 | 26 - 138 |
| 13C12-OCDF | 71 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-009-NBZ-SS-0.0-0.5 MSD Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-009-NBZ-SS**

**LLI Sample # SW 6612361**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:30

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6717 SDG#: DX167-17MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-009-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-009-NBZ-SS

**LLI Sample # SW 6612361**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:30

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6717 SDG#: DX167-17MSD

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/18/2012 08:30 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401A | 04/18/2012 11:49 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-084-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-NBZ-SS

**LLI Sample # SW 6612362**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 11:10

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6718 SDG#: DX167-18

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 12.5 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-084-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-NBZ-SS

**LLI Sample # SW 6612362**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 11:10

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6718 SDG#: DX167-18

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0446 | JB | 0.0313 | 1.12 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.211 | JB | 0.0402 | 5.62 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.281 | J | 0.0351 | 5.62 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.769 | JB | 0.0360 | 5.62 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.612 | JB | 0.0397 | 5.62 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 13.5 | B | 0.0561 | 5.62 | 1 |
| 11031 | OCDD | 3268-87-9 | 119 | B | 0.0562 | 11.2 | 1 |
| 11650 | 2378-TCDF-Conf | 51207-31-9 | 1.26 | C | 0.104 | 1.12 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 10.7 | B | 0.0610 | 5.62 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 1.42 | JB | 0.0575 | 5.62 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 2.07 | JB | 0.0314 | 5.62 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.693 | JB | 0.0302 | 5.62 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.293 | JB | 0.0387 | 5.62 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.386 | JB | 0.0305 | 5.62 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 2.32 | JB | 0.0178 | 5.62 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.245 | JB | 0.0290 | 5.62 | 1 |
| 11031 | OCDF | 39001-02-0 | 3.34 | JB | 0.0215 | 11.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 78 | 25 - 164 |
| 13C12-2378-TCDF-Conf | 71 | 24 - 169 |
| 13C12-12378-PeCDD | 99 | 25 - 181 |
| 13C12-123478-HxCDD | 77 | 32 - 141 |
| 13C12-123678-HxCDD | 85 | 28 - 130 |
| 13C12-123789-HxCDD | 79 | 28 - 130 |
| 13C12-1234678-HpCDD | 84 | 23 - 140 |
| 13C12-OCDD | 87 | 17 - 157 |
| 13C12-12378-PeCDF | 104 | 24 - 185 |
| 13C12-23478-PeCDF | 100 | 21 - 178 |
| 13C12-123478-HxCDF | 83 | 26 - 152 |
| 13C12-123678-HxCDF | 91 | 26 - 123 |
| 13C12-234678-HxCDF | 86 | 28 - 136 |
| 13C12-123789-HxCDF | 82 | 29 - 147 |
| 13C12-1234678-HpCDF | 105 | 28 - 143 |
| 13C12-1234789-HpCDF | 75 | 26 - 138 |
| 13C12-OCDF | 78 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-084-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-NBZ-SS

**LLI Sample # SW 6612362**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 11:10

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6718 SDG#: DX167-18

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-084-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-NBZ-SS

**LLI Sample # SW 6612362**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 11:10

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6718 SDG#: DX167-18

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/19/2012 20:40 | Joseph D Anderson | 1 |
| 11650 | Dioxins/Furans in Solids-Conf | EPA 1613B | 1 | 12104003 | 04/25/2012 20:09 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-186-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-NBZ-SS

**LLI Sample # SW 6612363**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 10:40

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6719 SDG#: DX167-19

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.5 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-186-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-NBZ-SS

**LLI Sample # SW 6612363**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 10:40

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6719 SDG#: DX167-19

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0476 | JB | 0.0289 | 1.07 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0629 | JB | 0.0368 | 5.34 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0668 | J | 0.0242 | 5.34 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.171 | JB | 0.0262 | 5.34 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.188 | JB | 0.0265 | 5.34 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.92 | JB | 0.0316 | 5.34 | 1 |
| 11031 | OCDD | 3268-87-9 | 11.7 | B | 0.0317 | 10.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.183 | J | 0.0442 | 1.07 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.120 | JB | 0.0240 | 5.34 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.137 | JB | 0.0223 | 5.34 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.191 | JB | 0.0160 | 5.34 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0726 | JB | 0.0154 | 5.34 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0707 | JB | 0.0198 | 5.34 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.125 | JB | 0.0147 | 5.34 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.377 | JB | 0.0143 | 5.34 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0709 | JBQ | 0.0257 | 5.34 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.662 | JB | 0.0296 | 10.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 80 | 25 - 164 |
| 13C12-12378-PeCDD | 93 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 85 | 28 - 130 |
| 13C12-123789-HxCDD | 82 | 28 - 130 |
| 13C12-1234678-HpCDD | 83 | 23 - 140 |
| 13C12-OCDD | 78 | 17 - 157 |
| 13C12-2378-TCDF | 78 | 24 - 169 |
| 13C12-12378-PeCDF | 103 | 24 - 185 |
| 13C12-23478-PeCDF | 99 | 21 - 178 |
| 13C12-123478-HxCDF | 81 | 26 - 152 |
| 13C12-123678-HxCDF | 90 | 26 - 123 |
| 13C12-234678-HxCDF | 85 | 28 - 136 |
| 13C12-123789-HxCDF | 77 | 29 - 147 |
| 13C12-1234678-HpCDF | 106 | 28 - 143 |
| 13C12-1234789-HpCDF | 71 | 26 - 138 |
| 13C12-OCDF | 66 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-186-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-NBZ-SS

**LLI Sample # SW 6612363**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 10:40

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6719 SDG#: DX167-19

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-186-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-NBZ-SS

**LLI Sample # SW 6612363**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 10:40

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6719 SDG#: DX167-19

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/19/2012 21:37 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** DUP-07-NBZ-QC-041012 Soil
SSFL Area IV Collocated Soil Sampling
DUP-07-NBZ

**LLI Sample # SW 6612364**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:25

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6720 SDG#: DX167-20FD*

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 12.8 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-07-NBZ-QC-041012 Soil
SSFL Area IV Collocated Soil Sampling
DUP-07-NBZ

**LLI Sample #** SW 6612364
**LLI Group #** 1301394
**Account #** 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:25

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6720 SDG#: DX167-20FD*

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0394 | JBQ | 0.0281 | 1.14 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.141 | JB | 0.0425 | 5.71 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.182 | JQ | 0.0271 | 5.71 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.413 | JB | 0.0296 | 5.71 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.409 | JB | 0.0295 | 5.71 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 7.13 | B | 0.0456 | 5.71 | 1 |
| 11031 | OCDD | 3268-87-9 | 62.2 | B | 0.0428 | 11.4 | 1 |
| 11650 | 2378-TCDF-Conf | 51207-31-9 | 1.27 | C | 0.103 | 1.14 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 4.06 | JB | 0.0483 | 5.71 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 1.23 | JB | 0.0456 | 5.71 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 1.61 | JB | 0.0266 | 5.71 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.620 | JB | 0.0264 | 5.71 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.248 | JBQ | 0.0336 | 5.71 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.362 | JB | 0.0240 | 5.71 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.21 | JB | 0.0161 | 5.71 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.291 | JB | 0.0267 | 5.71 | 1 |
| 11031 | OCDF | 39001-02-0 | 2.02 | JB | 0.0279 | 11.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 76 | 25 - 164 |
| 13C12-2378-TCDF-Conf | 68 | 24 - 169 |
| 13C12-12378-PeCDD | 90 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 86 | 28 - 130 |
| 13C12-123789-HxCDD | 83 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 70 | 17 - 157 |
| 13C12-12378-PeCDF | 106 | 24 - 185 |
| 13C12-23478-PeCDF | 102 | 21 - 178 |
| 13C12-123478-HxCDF | 86 | 26 - 152 |
| 13C12-123678-HxCDF | 90 | 26 - 123 |
| 13C12-234678-HxCDF | 91 | 28 - 136 |
| 13C12-123789-HxCDF | 81 | 29 - 147 |
| 13C12-1234678-HpCDF | 102 | 28 - 143 |
| 13C12-1234789-HpCDF | 75 | 26 - 138 |
| 13C12-OCDF | 67 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-07-NBZ-QC-041012 Soil
SSFL Area IV Collocated Soil Sampling
DUP-07-NBZ

**LLI Sample # SW 6612364**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:25

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6720 SDG#: DX167-20FD*

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** DUP-07-NBZ-QC-041012 Soil
SSFL Area IV Collocated Soil Sampling
DUP-07-NBZ

**LLI Sample # SW 6612364**
**LLI Group # 1301394**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 09:25

Submitted: 04/11/2012 09:10
Reported: 04/27/2012 11:59

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6720 SDG#: DX167-20FD*

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12104003 | 04/19/2012 22:34 | Joseph D Anderson | 1 |
| 11650 | Dioxins/Furans in Solids-Conf | EPA 1613B | 1 | 12104003 | 04/25/2012 21:08 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12104003 | 04/14/2012 12:30 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401A | 04/18/2012 11:49 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1301394
Reported: 04/27/12 at 11:59 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12109162401A | Sample number(s): 6612359-6612361,6612364 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Batch number: 12109162401B | Sample number(s): 6612362-6612363 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12104003 | Sample number(s): 6612359-6612364 | | | | | | | | |
| 2378-TCDD | 0.0657 J | 0.0213 | 1.00 | ng/kg | 105 | | 67-158 | | |
| 12378-PeCDD | 0.0344 J | 0.0213 | 5.00 | ng/kg | 103 | | 70-142 | | |
| 123478-HxCDD | 0.0139 U | 0.0139 | 5.00 | ng/kg | 100 | | 70-164 | | |
| 123678-HxCDD | 0.0410 J | 0.0151 | 5.00 | ng/kg | 98 | | 76-134 | | |
| 123789-HxCDD | 0.0506 J | 0.0150 | 5.00 | ng/kg | 110 | | 64-162 | | |
| 1234678-HpCDD | 0.317 J | 0.0180 | 5.00 | ng/kg | 104 | | 70-140 | | |
| OCDD | 0.733 J | 0.0120 | 10.0 | ng/kg | 102 | | 78-144 | | |
| 2378-TCDF | 0.0196 U | 0.0196 | 1.00 | ng/kg | 108 | | 75-158 | | |
| 2378-TCDF-Conf | 0.0158 U | 0.0158 | 1.00 | ng/kg | 108 | | 75-158 | | |
| 12378-PeCDF | 0.0347 J | 0.0100 | 5.00 | ng/kg | 109 | | 80-134 | | |
| 23478-PeCDF | 0.0574 J | 0.00870 | 5.00 | ng/kg | 100 | | 68-160 | | |
| 123478-HxCDF | 0.0326 J | 0.00890 | 5.00 | ng/kg | 98 | | 72-134 | | |
| 123678-HxCDF | 0.0198 J | 0.00840 | 5.00 | ng/kg | 100 | | 84-130 | | |
| 123789-HxCDF | 0.0408 J | 0.00950 | 5.00 | ng/kg | 99 | | 78-130 | | |
| 234678-HxCDF | 0.0399 J | 0.00780 | 5.00 | ng/kg | 96 | | 70-156 | | |
| 1234678-HpCDF | 0.106 J | 0.00690 | 5.00 | ng/kg | 95 | | 82-122 | | |
| 1234789-HpCDF | 0.0533 J | 0.00980 | 5.00 | ng/kg | 99 | | 78-138 | | |
| OCDF | 0.152 J | 0.0146 | 10.0 | ng/kg | 94 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12109162401A | Sample number(s): 6612359-6612361,6612364 | | | | | BKG: P612343 | | | |
| Moisture Content by 160.3 | | | | | | 12.2 | 12.0 | 2 | 20 |
| Batch number: 12109162401B | Sample number(s): 6612362-6612363 | | | | | BKG: P612355 | | | |
| Moisture Content by 160.3 | | | | | | 8.6 | 8.6 | 0 | 20 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1301394
Reported: 04/27/12 at 11:59 AM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12104003 | Sample number(s): 6612359-6612364 UNSPK: 6612359 | | | | | | | | |
| 2378-TCDD | 111 | 107 | 67-158 | 5 | 25 | | | | |
| 12378-PeCDD | 110 | 106 | 70-142 | 5 | 25 | | | | |
| 123478-HxCDD | 101 | 100 | 70-164 | 2 | 25 | | | | |
| 123678-HxCDD | 101 | 99 | 76-134 | 3 | 25 | | | | |
| 123789-HxCDD | 108 | 106 | 64-162 | 3 | 25 | | | | |
| 1234678-HpCDD | 104 | 102 | 70-140 | 2 | 25 | | | | |
| OCDD | 106 | 104 | 78-144 | 2 | 25 | | | | |
| 2378-TCDF | 103 | 99 | 75-158 | 4 | 25 | | | | |
| 2378-TCDF-Conf | 103 | 99 | 75-158 | 4 | 25 | | | | |
| 12378-PeCDF | 114 | 111 | 80-134 | 3 | 25 | | | | |
| 23478-PeCDF | 105 | 103 | 68-160 | 2 | 25 | | | | |
| 123478-HxCDF | 102 | 98 | 72-134 | 5 | 25 | | | | |
| 123678-HxCDF | 103 | 99 | 84-130 | 5 | 25 | | | | |
| 123789-HxCDF | 102 | 98 | 78-130 | 4 | 25 | | | | |
| 234678-HxCDF | 99 | 97 | 70-156 | 3 | 25 | | | | |
| 1234678-HpCDF | 97 | 94 | 82-122 | 4 | 25 | | | | |
| 1234789-HpCDF | 98 | 97 | 78-138 | 2 | 25 | | | | |
| OCDF | 100 | 99 | 63-170 | 2 | 25 | | | | |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12104003

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6612359 | 78 | 101 | 80 | 88 | 84 | 79 |
| 6612360 | 70 | 113 | 86 | 87 | 87 | 85 |
| 6612361 | 78 | 109 | 81 | 82 | 83 | 80 |
| 6612362 | 78 | 100 | 83 | 91 | 86 | 82 |
| 6612363 | 80 | 99 | 81 | 90 | 85 | 77 |
| 6612364 | 76 | 102 | 86 | 90 | 91 | 81 |
| Blank | 71 | 110 | 83 | 88 | 87 | 87 |
| MS | 70 | 113 | 86 | 87 | 87 | 85 |
| MSD | 78 | 109 | 81 | 82 | 83 | 80 |
| OPR | 67 | 93 | 77 | 81 | 80 | 79 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6612359 | 95 | 71 | 65 | 94 | 84 | 84 |
| 6612360 | 90 | 79 | 73 | 96 | 86 | 88 |
| 6612361 | 87 | 78 | 71 | 105 | 83 | 86 |
| 6612362 | 105 | 75 | 78 | 99 | 77 | 85 |
| 6612363 | 106 | 71 | 66 | 93 | 83 | 85 |
| 6612364 | 102 | 75 | 67 | 90 | 84 | 86 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1301394
Reported: 04/27/12 at 11:59 AM

## Surrogate Quality Control

| | | | | | | |
|---|---|---|---|---|---|---|
| Blank | 99 | 84 | 87 | 98 | 81 | 83 |
| MS | 90 | 79 | 73 | 96 | 86 | 88 |
| MSD | 87 | 78 | 71 | 105 | 83 | 86 |
| OPR | 90 | 77 | 78 | 95 | 80 | 85 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF | 13C12-2378-TCDF-Conf |
|---|---|---|---|---|---|---|
| 6612359 | 82 | 82 | 74 | | 106 | 84 |
| 6612360 | 87 | 87 | 74 | 85 | 107 | |
| 6612361 | 85 | 85 | 71 | 83 | 111 | |
| 6612362 | 79 | 84 | 87 | | 104 | 71 |
| 6612363 | 82 | 83 | 78 | 78 | 103 | |
| 6612364 | 83 | 82 | 70 | | 106 | 68 |
| Blank | 82 | 86 | 89 | 76 | 106 | 65 |
| MS | 87 | 87 | 74 | 85 | 107 | 85 |
| MSD | 85 | 85 | 71 | 83 | 111 | 83 |
| OPR | 76 | 83 | 82 | 68 | 88 | 68 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 | 24-169 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1301394 Sample# 6612359-64

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSIS | SECONDARY ANALYSIS | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | | | | | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| SL-001-NBZ-SS-0.0-0.5 | 4.09.12 | 0936 | SOIL | NONE | 2-8 oz Jar | X | X | X | X | |
| SL-151-NBZ-SS-0.0-0.5 | 4.09.12 | 1015 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-157-NBZ-SS-0.0-0.5 | 4.09.12 | 1347 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-167-NBZ-SS-0.0-0.5 | 4.09.12 | 1412 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-174-NBZ-SS-0.0-0.5 | 4.09.12 | 1446 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-185-NBZ-SS-0.0-0.5 | 4.09.12 | 1050 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-191-NBZ-SS-0.0-0.5MS | 4.09.12 | 1122 | SOIL | NONE | 1-8 oz Jar | X | | | | MS/MSD |
| DUP-06-NBZ-QC-040912 | 4.09.12 | 1520 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-009-NBZ-SS-0.0-0.5MS | 4.10.12 | 0930 | SOIL | NONE | 2-16 oz Jar | X | X | X | X | |
| SL-084-NBZ-SS-0.0-0.5 | 4.10.12 | 1110 | SOIL | NONE | 1-16 oz Jar | X | | | | |
| SL-186-NBZ-SS-0.0-0.5 | 4.10.12 | 1040 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| DUP-07-NBZ-QC-041012 | 4.10.12 | 0925 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| Relinquished by: (*Signature*) | Date/Time<br>4/10/2012 / 1630 | | Received for Laboratory by: (*Signature*)<br>Suzette Bahman | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s) | | | | | | | |

4/11/12 0910

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# DX168

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 26, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/11/2012
Group Number: 1301393
SDG: DX168
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-001-NBZ-SS-0.0-0.5 Soil | 6612349 |
| SL-151-NBZ-SS-0.0-0.5 Soil | 6612350 |
| SL-157-NBZ-SS-0.0-0.5 Soil | 6612351 |
| SL-167-NBZ-SS-0.0-0.5 Soil | 6612352 |
| SL-174-NBZ-SS-0.0-0.5 Soil | 6612353 |
| SL-185-NBZ-SS-0.0-0.5 Soil | 6612354 |
| SL-191-NBZ-SS-0.0-0.5 Soil | 6612355 |
| SL-191-NBZ-SS-0.0-0.5 MS Soil | 6612356 |
| SL-191-NBZ-SS-0.0-0.5 MSD Soil | 6612357 |
| DUP-06-NBZ-QC-041012 Soil | 6612358 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-001-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-NBZ-SS

**LLI Sample # SW 6612349**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 09:36

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-01 SDG#: DX168-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | **%** | **%** | |
| 11625 | Moisture Content by 160.3 | n.a. | 11.2 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-001-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-NBZ-SS

**LLI Sample # SW 6612349**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 09:36

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-01 SDG#: DX168-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0230 | U | 0.0230 | 1.11 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0467 | JB | 0.0277 | 5.54 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0520 | J | 0.0235 | 5.54 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.131 | JBQ | 0.0243 | 5.54 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.184 | JB | 0.0262 | 5.54 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.25 | JB | 0.0287 | 5.54 | 1 |
| 11031 | OCDD | 3268-87-9 | 6.56 | JB | 0.0258 | 11.1 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0330 | U | 0.0330 | 1.11 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0819 | JB | 0.0179 | 5.54 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0778 | JB | 0.0164 | 5.54 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0831 | JBQ | 0.0149 | 5.54 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0663 | JBQ | 0.0140 | 5.54 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0615 | JB | 0.0185 | 5.54 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0689 | JB | 0.0135 | 5.54 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.361 | JB | 0.0161 | 5.54 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0511 | JBQ | 0.0235 | 5.54 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.660 | JB | 0.0286 | 11.1 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 83 | 25 - 164 |
| 13C12-12378-PeCDD | 101 | 25 - 181 |
| 13C12-123478-HxCDD | 75 | 32 - 141 |
| 13C12-123678-HxCDD | 78 | 28 - 130 |
| 13C12-123789-HxCDD | 74 | 28 - 130 |
| 13C12-1234678-HpCDD | 73 | 23 - 140 |
| 13C12-OCDD | 63 | 17 - 157 |
| 13C12-2378-TCDF | 82 | 24 - 169 |
| 13C12-12378-PeCDF | 108 | 24 - 185 |
| 13C12-23478-PeCDF | 106 | 21 - 178 |
| 13C12-123478-HxCDF | 75 | 26 - 152 |
| 13C12-123678-HxCDF | 80 | 26 - 123 |
| 13C12-234678-HxCDF | 80 | 28 - 136 |
| 13C12-123789-HxCDF | 72 | 29 - 147 |
| 13C12-1234678-HpCDF | 82 | 28 - 143 |
| 13C12-1234789-HpCDF | 65 | 26 - 138 |
| 13C12-OCDF | 59 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-001-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-NBZ-SS

**LLI Sample # SW 6612349**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 09:36

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-01 SDG#: DX168-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-001-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-NBZ-SS

**LLI Sample # SW 6612349**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 09:36

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-01 SDG#: DX168-01

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/19/2012 23:30 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401A | 04/18/2012 11:49 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-151-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-NBZ-SS

**LLI Sample # SW 6612350**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 10:15

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-02 SDG#: DX168-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 9.7 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-151-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-NBZ-SS

**LLI Sample # SW 6612350**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 10:15

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-02 SDG#: DX168-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0378 JBQ | 0.0367 | 1.10 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0590 JBQ | 0.0405 | 5.49 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0583 J | 0.0266 | 5.49 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.105 JBQ | 0.0270 | 5.49 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.104 JBQ | 0.0292 | 5.49 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.45 JB | 0.0381 | 5.49 | 1 |
| 11031 | OCDD | 3268-87-9 | 7.59 JB | 0.0267 | 11.0 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.123 JQ | 0.0474 | 1.10 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.217 JB | 0.0270 | 5.49 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.199 JB | 0.0239 | 5.49 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.118 JBQ | 0.0213 | 5.49 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0785 JB | 0.0192 | 5.49 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0365 JBQ | 0.0234 | 5.49 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.111 JB | 0.0186 | 5.49 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.376 JB | 0.0183 | 5.49 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0456 JBQ | 0.0246 | 5.49 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.580 JBQ | 0.0303 | 11.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 92 | 25 - 164 |
| 13C12-12378-PeCDD | 110 | 25 - 181 |
| 13C12-123478-HxCDD | 94 | 32 - 141 |
| 13C12-123678-HxCDD | 98 | 28 - 130 |
| 13C12-123789-HxCDD | 95 | 28 - 130 |
| 13C12-1234678-HpCDD | 102 | 23 - 140 |
| 13C12-OCDD | 97 | 17 - 157 |
| 13C12-2378-TCDF | 94 | 24 - 169 |
| 13C12-12378-PeCDF | 114 | 24 - 185 |
| 13C12-23478-PeCDF | 114 | 21 - 178 |
| 13C12-123478-HxCDF | 86 | 26 - 152 |
| 13C12-123678-HxCDF | 94 | 26 - 123 |
| 13C12-234678-HxCDF | 92 | 28 - 136 |
| 13C12-123789-HxCDF | 90 | 29 - 147 |
| 13C12-1234678-HpCDF | 104 | 28 - 143 |
| 13C12-1234789-HpCDF | 88 | 26 - 138 |
| 13C12-OCDF | 87 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-151-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-151-NBZ-SS**

**LLI Sample # SW 6612350**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 10:15

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-02 SDG#: DX168-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-151-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-NBZ-SS

**LLI Sample # SW 6612350**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 10:15

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
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Fairfax VA 22030

68-02 SDG#: DX168-02

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/20/2012 00:27 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-157-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-NBZ-SS

**LLI Sample # SW 6612351**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 13:47

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-03 SDG#: DX168-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.4 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-157-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-NBZ-SS

**LLI Sample # SW 6612351**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 13:47

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-03 SDG#: DX168-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0255 | U | 0.0255 | 1.07 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.110 | JB | 0.0349 | 5.37 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0951 | JQ | 0.0279 | 5.37 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.317 | JB | 0.0281 | 5.37 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.339 | JBQ | 0.0306 | 5.37 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.30 | JB | 0.0335 | 5.37 | 1 |
| 11031 | OCDD | 3268-87-9 | 22.3 | B | 0.0289 | 10.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.338 | J | 0.0586 | 1.07 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.335 | JB | 0.0357 | 5.37 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.158 | JB | 0.0354 | 5.37 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.239 | JB | 0.0236 | 5.37 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.184 | JBQ | 0.0223 | 5.37 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0770 | JBQ | 0.0269 | 5.37 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.204 | JB | 0.0224 | 5.37 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.818 | JB | 0.0182 | 5.37 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0631 | JBQ | 0.0254 | 5.37 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.27 | JB | 0.0249 | 10.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 87 | 25 - 164 |
| 13C12-12378-PeCDD | 90 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 87 | 28 - 130 |
| 13C12-123789-HxCDD | 84 | 28 - 130 |
| 13C12-1234678-HpCDD | 88 | 23 - 140 |
| 13C12-OCDD | 81 | 17 - 157 |
| 13C12-2378-TCDF | 73 | 24 - 169 |
| 13C12-12378-PeCDF | 83 | 24 - 185 |
| 13C12-23478-PeCDF | 77 | 21 - 178 |
| 13C12-123478-HxCDF | 64 | 26 - 152 |
| 13C12-123678-HxCDF | 69 | 26 - 123 |
| 13C12-234678-HxCDF | 66 | 28 - 136 |
| 13C12-123789-HxCDF | 68 | 29 - 147 |
| 13C12-1234678-HpCDF | 74 | 28 - 143 |
| 13C12-1234789-HpCDF | 64 | 26 - 138 |
| 13C12-OCDF | 66 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-157-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-NBZ-SS

**LLI Sample # SW 6612351**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 13:47

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-03 SDG#: DX168-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-157-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-NBZ-SS

**LLI Sample # SW 6612351**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 13:47

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-03 SDG#: DX168-03

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/20/2012 01:24 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-167-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-NBZ-SS

**LLI Sample # SW 6612352**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 14:12

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-04 SDG#: DX168-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 6.5 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-167-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-NBZ-SS

**LLI Sample # SW 6612352**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 14:12

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-04 SDG#: DX168-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0510 | U | 0.0510 | 1.04 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.253 | JBQ | 0.0581 | 5.20 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.107 | JQ | 0.0441 | 5.20 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 1.35 | JB | 0.0471 | 5.20 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 1.65 | JB | 0.0492 | 5.20 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.77 | JB | 0.0506 | 5.20 | 1 |
| 11031 | OCDD | 3268-87-9 | 17.5 | B | 0.0510 | 10.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.114 | JQ | 0.0775 | 1.04 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.360 | JBQ | 0.0463 | 5.20 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.320 | JB | 0.0459 | 5.20 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.201 | JB | 0.0425 | 5.20 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.274 | JB | 0.0395 | 5.20 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.272 | JB | 0.0551 | 5.20 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.253 | JB | 0.0382 | 5.20 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.697 | JB | 0.0286 | 5.20 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0572 | JB | 0.0478 | 5.20 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.936 | JB | 0.0483 | 10.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 75 | 25 - 164 |
| 13C12-12378-PeCDD | 83 | 25 - 181 |
| 13C12-123478-HxCDD | 78 | 32 - 141 |
| 13C12-123678-HxCDD | 80 | 28 - 130 |
| 13C12-123789-HxCDD | 78 | 28 - 130 |
| 13C12-1234678-HpCDD | 79 | 23 - 140 |
| 13C12-OCDD | 75 | 17 - 157 |
| 13C12-2378-TCDF | 70 | 24 - 169 |
| 13C12-12378-PeCDF | 86 | 24 - 185 |
| 13C12-23478-PeCDF | 80 | 21 - 178 |
| 13C12-123478-HxCDF | 64 | 26 - 152 |
| 13C12-123678-HxCDF | 70 | 26 - 123 |
| 13C12-234678-HxCDF | 68 | 28 - 136 |
| 13C12-123789-HxCDF | 60 | 29 - 147 |
| 13C12-1234678-HpCDF | 78 | 28 - 143 |
| 13C12-1234789-HpCDF | 55 | 26 - 138 |
| 13C12-OCDF | 58 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-167-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-167-NBZ-SS**

**LLI Sample # SW 6612352**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 14:12

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-04 SDG#: DX168-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-167-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-NBZ-SS

**LLI Sample # SW 6612352**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 14:12

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-04 SDG#: DX168-04

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/20/2012 02:20 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-174-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-NBZ-SS

**LLI Sample # SW 6612353**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 14:46

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-05 SDG#: DX168-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.7 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-174-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-NBZ-SS

**LLI Sample # SW 6612353**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 14:46

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-05 SDG#: DX168-05

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0244 | U | 0.0244 | 1.07 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0297 | U | 0.0297 | 5.34 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0604 | J | 0.0255 | 5.34 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.156 | JB | 0.0252 | 5.34 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.156 | JB | 0.0274 | 5.34 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.55 | JB | 0.0269 | 5.34 | 1 |
| 11031 | OCDD | 3268-87-9 | 8.96 | JB | 0.0290 | 10.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.156 | J | 0.0362 | 1.07 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.141 | JBQ | 0.0213 | 5.34 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.132 | JB | 0.0210 | 5.34 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.128 | JB | 0.0172 | 5.34 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0753 | JB | 0.0156 | 5.34 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0234 | JB | 0.0204 | 5.34 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.115 | JB | 0.0161 | 5.34 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.359 | JB | 0.0143 | 5.34 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0384 | JBQ | 0.0252 | 5.34 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.533 | JB | 0.0251 | 10.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 76 | 25 - 164 |
| 13C12-12378-PeCDD | 84 | 25 - 181 |
| 13C12-123478-HxCDD | 79 | 32 - 141 |
| 13C12-123678-HxCDD | 83 | 28 - 130 |
| 13C12-123789-HxCDD | 80 | 28 - 130 |
| 13C12-1234678-HpCDD | 81 | 23 - 140 |
| 13C12-OCDD | 74 | 17 - 157 |
| 13C12-2378-TCDF | 78 | 24 - 169 |
| 13C12-12378-PeCDF | 94 | 24 - 185 |
| 13C12-23478-PeCDF | 84 | 21 - 178 |
| 13C12-123478-HxCDF | 74 | 26 - 152 |
| 13C12-123678-HxCDF | 84 | 26 - 123 |
| 13C12-234678-HxCDF | 78 | 28 - 136 |
| 13C12-123789-HxCDF | 76 | 29 - 147 |
| 13C12-1234678-HpCDF | 93 | 28 - 143 |
| 13C12-1234789-HpCDF | 64 | 26 - 138 |
| 13C12-OCDF | 61 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-174-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-174-NBZ-SS**

**LLI Sample # SW 6612353**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 14:46

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-05 SDG#: DX168-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-174-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-NBZ-SS

**LLI Sample # SW 6612353**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 14:46

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-05 SDG#: DX168-05

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/20/2012 03:17 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-185-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-NBZ-SS

**LLI Sample # SW 6612354**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 10:50

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-06 SDG#: DX168-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.1 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-185-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-NBZ-SS

**LLI Sample # SW 6612354**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 10:50

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-06 SDG#: DX168-06

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0525 | U | 0.0525 | 1.10 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.127 | JB | 0.0570 | 5.48 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0934 | JQ | 0.0398 | 5.48 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.294 | JBQ | 0.0416 | 5.48 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.254 | JBQ | 0.0432 | 5.48 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.85 | JB | 0.0575 | 5.48 | 1 |
| 11031 | OCDD | 3268-87-9 | 19.8 | B | 0.0568 | 11.0 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.141 | J | 0.0686 | 1.10 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.298 | JBQ | 0.0334 | 5.48 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.329 | JB | 0.0341 | 5.48 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.224 | JB | 0.0354 | 5.48 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.110 | JB | 0.0297 | 5.48 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.266 | JB | 0.0390 | 5.48 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.146 | JBQ | 0.0300 | 5.48 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.464 | JB | 0.0204 | 5.48 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0497 | JB | 0.0367 | 5.48 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.757 | JB | 0.0471 | 11.0 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 72 | 25 - 164 |
| 13C12-12378-PeCDD | 88 | 25 - 181 |
| 13C12-123478-HxCDD | 78 | 32 - 141 |
| 13C12-123678-HxCDD | 81 | 28 - 130 |
| 13C12-123789-HxCDD | 79 | 28 - 130 |
| 13C12-1234678-HpCDD | 84 | 23 - 140 |
| 13C12-OCDD | 93 | 17 - 157 |
| 13C12-2378-TCDF | 73 | 24 - 169 |
| 13C12-12378-PeCDF | 101 | 24 - 185 |
| 13C12-23478-PeCDF | 93 | 21 - 178 |
| 13C12-123478-HxCDF | 77 | 26 - 152 |
| 13C12-123678-HxCDF | 92 | 26 - 123 |
| 13C12-234678-HxCDF | 86 | 28 - 136 |
| 13C12-123789-HxCDF | 86 | 29 - 147 |
| 13C12-1234678-HpCDF | 114 | 28 - 143 |
| 13C12-1234789-HpCDF | 76 | 26 - 138 |
| 13C12-OCDF | 84 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-185-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-185-NBZ-SS**

**LLI Sample # SW 6612354**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 10:50

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-06 SDG#: DX168-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-185-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-185-NBZ-SS**

**LLI Sample # SW 6612354**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 10:50

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-06 SDG#: DX168-06

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/20/2012 07:16 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-191-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-191-NBZ-SS

**LLI Sample # SW 6612355**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 11:22

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-07 SDG#: DX168-07BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.6 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-191-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-191-NBZ-SS

**LLI Sample # SW 6612355**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 11:22

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-07 SDG#: DX168-07BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0538 JBQ | 0.0400 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.170 JBQ | 0.0490 | 5.44 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.102 J | 0.0292 | 5.44 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.285 JB | 0.0317 | 5.44 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.353 JB | 0.0327 | 5.44 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.54 JB | 0.0323 | 5.44 | 1 |
| 11031 | OCDD | 3268-87-9 | 7.61 JB | 0.0247 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.168 J | 0.0501 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.456 JB | 0.0275 | 5.44 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.348 JB | 0.0266 | 5.44 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.242 JB | 0.0206 | 5.44 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.194 JB | 0.0195 | 5.44 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.321 JBQ | 0.0245 | 5.44 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.138 JB | 0.0186 | 5.44 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.368 JB | 0.0119 | 5.44 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0969 JBQ | 0.0197 | 5.44 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.562 JB | 0.0249 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 72 | 25 - 164 |
| 13C12-12378-PeCDD | 90 | 25 - 181 |
| 13C12-123478-HxCDD | 79 | 32 - 141 |
| 13C12-123678-HxCDD | 83 | 28 - 130 |
| 13C12-123789-HxCDD | 79 | 28 - 130 |
| 13C12-1234678-HpCDD | 90 | 23 - 140 |
| 13C12-OCDD | 88 | 17 - 157 |
| 13C12-2378-TCDF | 76 | 24 - 169 |
| 13C12-12378-PeCDF | 101 | 24 - 185 |
| 13C12-23478-PeCDF | 95 | 21 - 178 |
| 13C12-123478-HxCDF | 80 | 26 - 152 |
| 13C12-123678-HxCDF | 90 | 26 - 123 |
| 13C12-234678-HxCDF | 84 | 28 - 136 |
| 13C12-123789-HxCDF | 78 | 29 - 147 |
| 13C12-1234678-HpCDF | 107 | 28 - 143 |
| 13C12-1234789-HpCDF | 79 | 26 - 138 |
| 13C12-OCDF | 81 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-191-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-191-NBZ-SS

**LLI Sample # SW 6612355**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 11:22

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-07 SDG#: DX168-07BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-191-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-191-NBZ-SS

**LLI Sample # SW 6612355**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 11:22

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-07 SDG#: DX168-07BKG

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/20/2012 08:13 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-191-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-191-NBZ-SS

**LLI Sample # SW 6612356**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 11:22

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-07 SDG#: DX168-07MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 8.6 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-191-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-191-NBZ-SS

**LLI Sample # SW 6612356**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 11:22

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-07 SDG#: DX168-07MS

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 22.4 | B | 0.0528 | 1.05 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 115 | B | 0.0595 | 5.24 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 113 | | 0.0495 | 5.24 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 109 | B | 0.0545 | 5.24 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 120 | B | 0.0548 | 5.24 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 115 | B | 0.0609 | 5.24 | 1 |
| 11031 | OCDD | 3268-87-9 | 225 | B | 0.0637 | 10.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 24.7 | | 0.0630 | 1.05 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 126 | B | 0.0472 | 5.24 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 118 | B | 0.0405 | 5.24 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 109 | B | 0.0619 | 5.24 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 108 | B | 0.0616 | 5.24 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 108 | B | 0.0688 | 5.24 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 105 | B | 0.0557 | 5.24 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 99.9 | B | 0.0542 | 5.24 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 105 | B | 0.0736 | 5.24 | 1 |
| 11031 | OCDF | 39001-02-0 | 205 | B | 0.0502 | 10.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 80 | 25 - 164 |
| 13C12-12378-PeCDD | 99 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 89 | 28 - 130 |
| 13C12-123789-HxCDD | 84 | 28 - 130 |
| 13C12-1234678-HpCDD | 97 | 23 - 140 |
| 13C12-OCDD | 97 | 17 - 157 |
| 13C12-2378-TCDF | 81 | 24 - 169 |
| 13C12-12378-PeCDF | 107 | 24 - 185 |
| 13C12-23478-PeCDF | 106 | 21 - 178 |
| 13C12-123478-HxCDF | 88 | 26 - 152 |
| 13C12-123678-HxCDF | 95 | 26 - 123 |
| 13C12-234678-HxCDF | 93 | 28 - 136 |
| 13C12-123789-HxCDF | 92 | 29 - 147 |
| 13C12-1234678-HpCDF | 112 | 28 - 143 |
| 13C12-1234789-HpCDF | 94 | 26 - 138 |
| 13C12-OCDF | 96 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-191-NBZ-SS-0.0-0.5 MS Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-191-NBZ-SS**

**LLI Sample # SW 6612356**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 11:22

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-07 SDG#: DX168-07MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-191-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-191-NBZ-SS

**LLI Sample # SW 6612356**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 11:22

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-07 SDG#: DX168-07MS

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/20/2012 09:09 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-191-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-191-NBZ-SS

**LLI Sample # SW 6612357**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 11:22

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-07 SDG#: DX168-07MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11626 | 28a Moisture Content by 160.3 | n.a. | 8.6 | 0.50 | 0.50 | 1 |
| | The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations. | | | | | |
| 11625 | Moisture Content by 160.3 | n.a. | 8.6 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-191-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-191-NBZ-SS

**LLI Sample # SW 6612357**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 11:22

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-07 SDG#: DX168-07MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 23.0 | B | 0.0574 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 121 | B | 0.0625 | 5.43 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 113 | | 0.0528 | 5.43 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 116 | B | 0.0591 | 5.43 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 121 | B | 0.0593 | 5.43 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 118 | B | 0.0617 | 5.43 | 1 |
| 11031 | OCDD | 3268-87-9 | 232 | B | 0.0736 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 25.8 | | 0.0675 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 132 | B | 0.0524 | 5.43 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 124 | B | 0.0447 | 5.43 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 106 | B | 0.0619 | 5.43 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 107 | B | 0.0625 | 5.43 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 110 | B | 0.0734 | 5.43 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 105 | B | 0.0567 | 5.43 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 100 | B | 0.0588 | 5.43 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 110 | B | 0.0788 | 5.43 | 1 |
| 11031 | OCDF | 39001-02-0 | 212 | B | 0.0598 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 74 | 25 - 164 |
| 13C12-12378-PeCDD | 104 | 25 - 181 |
| 13C12-123478-HxCDD | 81 | 32 - 141 |
| 13C12-123678-HxCDD | 79 | 28 - 130 |
| 13C12-123789-HxCDD | 77 | 28 - 130 |
| 13C12-1234678-HpCDD | 87 | 23 - 140 |
| 13C12-OCDD | 85 | 17 - 157 |
| 13C12-2378-TCDF | 78 | 24 - 169 |
| 13C12-12378-PeCDF | 103 | 24 - 185 |
| 13C12-23478-PeCDF | 107 | 21 - 178 |
| 13C12-123478-HxCDF | 84 | 26 - 152 |
| 13C12-123678-HxCDF | 88 | 26 - 123 |
| 13C12-234678-HxCDF | 86 | 28 - 136 |
| 13C12-123789-HxCDF | 82 | 29 - 147 |
| 13C12-1234678-HpCDF | 97 | 28 - 143 |
| 13C12-1234789-HpCDF | 84 | 26 - 138 |
| 13C12-OCDF | 87 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-191-NBZ-SS-0.0-0.5 MSD Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-191-NBZ-SS**

**LLI Sample # SW 6612357**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 11:22

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-07 SDG#: DX168-07MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-191-NBZ-SS-0.0-0.5 MSD Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-191-NBZ-SS**

**LLI Sample # SW 6612357**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 11:22

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-07 SDG#: DX168-07MSD

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/20/2012 10:06 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11626 | 28a Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** DUP-06-NBZ-QC-041012 Soil
SSFL Area IV Collocated Soil Sampling
DUP-06-NBZ

**LLI Sample # SW 6612358**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 15:20

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-08 SDG#: DX168-08FD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.5 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-06-NBZ-QC-041012 Soil
SSFL Area IV Collocated Soil Sampling
DUP-06-NBZ

**LLI Sample #** SW 6612358
**LLI Group #** 1301393
**Account #** 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 15:20

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-08 SDG#: DX168-08FD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0695 JBQ | 0.0362 | 1.06 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.233 JBQ | 0.0419 | 5.30 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.112 JQ | 0.0319 | 5.30 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.741 JB | 0.0349 | 5.30 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.676 JB | 0.0351 | 5.30 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.13 JB | 0.0348 | 5.30 | 1 |
| 11031 | OCDD | 3268-87-9 | 12.9 B | 0.0290 | 10.6 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.248 J | 0.0546 | 1.06 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.607 JB | 0.0322 | 5.30 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.371 JB | 0.0304 | 5.30 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.293 JB | 0.0255 | 5.30 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.655 JB | 0.0241 | 5.30 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.349 JB | 0.0299 | 5.30 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.185 JB | 0.0227 | 5.30 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.668 JB | 0.0135 | 5.30 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.114 JBQ | 0.0213 | 5.30 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.37 JB | 0.0288 | 10.6 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 75 | 25 - 164 |
| 13C12-12378-PeCDD | 91 | 25 - 181 |
| 13C12-123478-HxCDD | 81 | 32 - 141 |
| 13C12-123678-HxCDD | 86 | 28 - 130 |
| 13C12-123789-HxCDD | 81 | 28 - 130 |
| 13C12-1234678-HpCDD | 90 | 23 - 140 |
| 13C12-OCDD | 89 | 17 - 157 |
| 13C12-2378-TCDF | 76 | 24 - 169 |
| 13C12-12378-PeCDF | 101 | 24 - 185 |
| 13C12-23478-PeCDF | 96 | 21 - 178 |
| 13C12-123478-HxCDF | 84 | 26 - 152 |
| 13C12-123678-HxCDF | 93 | 26 - 123 |
| 13C12-234678-HxCDF | 90 | 28 - 136 |
| 13C12-123789-HxCDF | 84 | 29 - 147 |
| 13C12-1234678-HpCDF | 111 | 28 - 143 |
| 13C12-1234789-HpCDF | 85 | 26 - 138 |
| 13C12-OCDF | 84 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-06-NBZ-QC-041012 Soil
SSFL Area IV Collocated Soil Sampling
DUP-06-NBZ

**LLI Sample # SW 6612358**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 15:20

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-08 SDG#: DX168-08FD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-06-NBZ-QC-041012 Soil
SSFL Area IV Collocated Soil Sampling
DUP-06-NBZ

**LLI Sample # SW 6612358**
**LLI Group # 1301393**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/09/2012 15:20

Submitted: 04/11/2012 09:10
Reported: 04/26/2012 20:52

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

68-08 SDG#: DX168-08FD

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/20/2012 11:03 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1301393
Reported: 04/26/12 at 08:52 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12109162401A | Sample number(s): 6612349 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Batch number: 12109162401B | Sample number(s): 6612350-6612358 | | | | | | | | |
| 28a Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12109002 | Sample number(s): 6612349-6612358 | | | | | | | | |
| 2378-TCDD | 0.105 J | 0.0760 | 1.00 | ng/kg | 108 | | 67-158 | | |
| 12378-PeCDD | 0.0772 J | 0.0634 | 5.00 | ng/kg | 107 | | 70-142 | | |
| 123478-HxCDD | 0.0421 U | 0.0421 | 5.00 | ng/kg | 98 | | 70-164 | | |
| 123678-HxCDD | 0.0777 J | 0.0426 | 5.00 | ng/kg | 97 | | 76-134 | | |
| 123789-HxCDD | 0.0680 J | 0.0484 | 5.00 | ng/kg | 101 | | 64-162 | | |
| 1234678-HpCDD | 0.374 J | 0.0662 | 5.00 | ng/kg | 97 | | 70-140 | | |
| OCDD | 0.714 J | 0.0447 | 10.0 | ng/kg | 96 | | 78-144 | | |
| 2378-TCDF | 0.0574 U | 0.0574 | 1.00 | ng/kg | 107 | | 75-158 | | |
| 12378-PeCDF | 0.0911 J | 0.0368 | 5.00 | ng/kg | 104 | | 80-134 | | |
| 23478-PeCDF | 0.140 J | 0.0342 | 5.00 | ng/kg | 98 | | 68-160 | | |
| 123478-HxCDF | 0.0923 J | 0.0319 | 5.00 | ng/kg | 91 | | 72-134 | | |
| 123678-HxCDF | 0.0420 J | 0.0289 | 5.00 | ng/kg | 91 | | 84-130 | | |
| 123789-HxCDF | 0.0982 J | 0.0408 | 5.00 | ng/kg | 87 | | 78-130 | | |
| 234678-HxCDF | 0.0901 J | 0.0279 | 5.00 | ng/kg | 86 | | 70-156 | | |
| 1234678-HpCDF | 0.162 J | 0.0199 | 5.00 | ng/kg | 86 | | 82-122 | | |
| 1234789-HpCDF | 0.103 J | 0.0332 | 5.00 | ng/kg | 91 | | 78-138 | | |
| OCDF | 0.227 J | 0.0670 | 10.0 | ng/kg | 91 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12109162401A | Sample number(s): 6612349 BKG: P612343 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 12.2 | 12.0 | 2 | 20 |
| Batch number: 12109162401B | Sample number(s): 6612350-6612358 BKG: 6612355 | | | | | | | | |
| 28a Moisture Content by 160.3 | | | | | | 8.6 | 8.6 | 0 | 20 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1301393
Reported: 04/26/12 at 08:52 PM

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Moisture Content by 160.3 | | | | | | 8.6 | 8.6 | 0 | 20 |
| Moisture Content by 160.3 | | | | | | 8.6 | 8.6 | 0 | 20 |
| Batch number: 12109002 | Sample number(s): 6612349-6612358 UNSPK: 6612355 | | | | | | | | |
| 2378-TCDD | 106 | 106 | 67-158 | 3 | 25 | | | | |
| 12378-PeCDD | 110 | 111 | 70-142 | 4 | 25 | | | | |
| 123478-HxCDD | 107 | 104 | 70-164 | 0 | 25 | | | | |
| 123678-HxCDD | 104 | 106 | 76-134 | 6 | 25 | | | | |
| 123789-HxCDD | 114 | 111 | 64-162 | 0 | 25 | | | | |
| 1234678-HpCDD | 108 | 107 | 70-140 | 2 | 25 | | | | |
| OCDD | 104 | 103 | 78-144 | 3 | 25 | | | | |
| 2378-TCDF | 117 | 118 | 75-158 | 4 | 25 | | | | |
| 12378-PeCDF | 120 | 121 | 80-134 | 4 | 25 | | | | |
| 23478-PeCDF | 112 | 114 | 68-160 | 5 | 25 | | | | |
| 123478-HxCDF | 103 | 97 | 72-134 | 3 | 25 | | | | |
| 123678-HxCDF | 103 | 98 | 84-130 | 1 | 25 | | | | |
| 123789-HxCDF | 102 | 101 | 78-130 | 3 | 25 | | | | |
| 234678-HxCDF | 100 | 96 | 70-156 | 0 | 25 | | | | |
| 1234678-HpCDF | 95 | 92 | 82-122 | 0 | 25 | | | | |
| 1234789-HpCDF | 100 | 101 | 78-138 | 4 | 25 | | | | |
| OCDF | 98 | 97 | 63-170 | 3 | 25 | | | | |

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12109002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6612349 | 83 | 106 | 75 | 80 | 80 | 72 |
| 6612350 | 92 | 114 | 86 | 94 | 92 | 90 |
| 6612351 | 87 | 77 | 64 | 69 | 66 | 68 |
| 6612352 | 75 | 80 | 64 | 70 | 68 | 60 |
| 6612353 | 76 | 84 | 74 | 84 | 78 | 76 |
| 6612354 | 72 | 93 | 77 | 92 | 86 | 86 |
| 6612355 | 72 | 95 | 80 | 90 | 84 | 78 |
| 6612356 | 80 | 106 | 88 | 95 | 93 | 92 |
| 6612357 | 74 | 107 | 84 | 88 | 86 | 82 |
| 6612358 | 75 | 96 | 84 | 93 | 90 | 84 |
| Blank | 63 | 85 | 68 | 79 | 76 | 68 |
| MS | 80 | 106 | 88 | 95 | 93 | 92 |
| MSD | 74 | 107 | 84 | 88 | 86 | 82 |
| OPR | 73 | 84 | 69 | 78 | 72 | 73 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1301393
Reported: 04/26/12 at 08:52 PM

## Surrogate Quality Control

| | | | | | | |
|---|---|---|---|---|---|---|
| 6612349 | 82 | 65 | 59 | 101 | 75 | 78 |
| 6612350 | 104 | 88 | 87 | 110 | 94 | 98 |
| 6612351 | 74 | 64 | 66 | 90 | 84 | 87 |
| 6612352 | 78 | 55 | 58 | 83 | 78 | 80 |
| 6612353 | 93 | 64 | 61 | 84 | 79 | 83 |
| 6612354 | 114 | 76 | 84 | 88 | 78 | 81 |
| 6612355 | 107 | 79 | 81 | 90 | 79 | 83 |
| 6612356 | 112 | 94 | 96 | 99 | 83 | 89 |
| 6612357 | 97 | 84 | 87 | 104 | 81 | 79 |
| 6612358 | 111 | 85 | 84 | 91 | 81 | 86 |
| Blank | 89 | 64 | 65 | 82 | 70 | 79 |
| MS | 112 | 94 | 96 | 99 | 83 | 89 |
| MSD | 97 | 84 | 87 | 104 | 81 | 79 |
| OPR | 88 | 63 | 64 | 81 | 72 | 82 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6612349 | 74 | 73 | 63 | 82 | 108 |
| 6612350 | 95 | 102 | 97 | 94 | 114 |
| 6612351 | 84 | 88 | 81 | 73 | 83 |
| 6612352 | 78 | 79 | 75 | 70 | 86 |
| 6612353 | 80 | 81 | 74 | 78 | 94 |
| 6612354 | 79 | 84 | 93 | 73 | 101 |
| 6612355 | 79 | 90 | 88 | 76 | 101 |
| 6612356 | 84 | 97 | 97 | 81 | 107 |
| 6612357 | 77 | 87 | 85 | 78 | 103 |
| 6612358 | 81 | 90 | 89 | 76 | 101 |
| Blank | 72 | 75 | 72 | 64 | 88 |
| MS | 84 | 97 | 97 | 81 | 107 |
| MSD | 77 | 87 | 85 | 78 | 103 |
| OPR | 74 | 76 | 71 | 70 | 88 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1301393 Sample# 6612349-58

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSIS | SECONDARY ANALYSIS | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | | | | | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| SL-001-NBZ-SS-0.0-0.5 | 4.09.12 | 0936 | SOIL | NONE | 2-8 oz Jar | X | X | X | X | |
| SL-151-NBZ-SS-0.0-0.5 | 4.09.12 | 1015 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-157-NBZ-SS-0.0-0.5 | 4.09.12 | 1347 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-167-NBZ-SS-0.0-0.5 | 4.09.12 | 1412 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-174-NBZ-SS-0.0-0.5 | 4.09.12 | 1446 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-185-NBZ-SS-0.0-0.5 | 4.09.12 | 1050 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-191-NBZ-SS-0.0-0.5MS | 4.09.12 | 1122 | SOIL | NONE | 1-8 oz Jar | X | | | | MS/MSD |
| DUP-06-NBZ-QC-040912 | 4.09.12 | 1520 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-009-NBZ-SS-0.0-0.5MS | 4.10.12 | 0930 | SOIL | NONE | 2-16 oz Jar | X | X | X | X | |
| SL-084-NBZ-SS-0.0-0.5 | 4.10.12 | 1110 | SOIL | NONE | 1-16 oz Jar | X | | | | |
| SL-186-NBZ-SS-0.0-0.5 | 4.10.12 | 1040 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| DUP-07-NBZ-QC-041012 | 4.10.12 | 0925 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| Relinquished by: (*Signature*) | Date/Time<br>4/10/2012 / 1630 | | Received for Laboratory by: (*Signature*)<br>Suzette P. Thrasher | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s) | | | | | | | |

4/11/12 0910

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

May 01, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/13/2012
Group Number: 1302049
SDG: DX168
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-188-NBZ-SS-0.0-0.5 Soil | 6615668 |
| SL-177-NBZ-SS-0.0-0.5 Soil | 6615669 |
| SL-085-NBZ-SS-0.0-0.5 Soil | 6615670 |
| SL-004-NBZ-SS-0.0-0.5 Soil | 6615671 |
| SL-145-NBZ-SS-0.0-0.5 Soil | 6615672 |
| SL-148-NBZ-SS-0.0-0.5 Soil | 6615673 |
| SL-154-NBZ-SS-0.0-0.5 Soil | 6615674 |
| SL-163-NBZ-SS-0.0-0.5 Soil | 6615675 |
| SL-168-NBZ-SS-0.0-0.5 Soil | 6615676 |
| SL-176-NBZ-SS-0.0-0.5 Soil | 6615677 |
| SL-182-NBZ-SS-0.0-0.5 Soil | 6615678 |
| SL-011-NBZ-SS-0.0-0.5 Soil | 6615679 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

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Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-188-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-NBZ-SS

**LLI Sample # SW 6615668**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 14:41

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6809 SDG#: DX168-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 6.4 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-188-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-NBZ-SS

**LLI Sample # SW 6615668**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 14:41

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6809 SDG#: DX168-09

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0363 | U | 0.0363 | 1.05 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.160 | JBQ | 0.0358 | 5.26 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0885 | JQ | 0.0304 | 5.26 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.292 | JB | 0.0310 | 5.26 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.430 | JB | 0.0323 | 5.26 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.92 | JB | 0.0375 | 5.26 | 1 |
| 11031 | OCDD | 3268-87-9 | 22.3 | B | 0.0267 | 10.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.290 | J | 0.0569 | 1.05 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.441 | JB | 0.0311 | 5.26 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.207 | JB | 0.0291 | 5.26 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.202 | JB | 0.0225 | 5.26 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.192 | JB | 0.0207 | 5.26 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.235 | JB | 0.0271 | 5.26 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.209 | JB | 0.0204 | 5.26 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.599 | JB | 0.0149 | 5.26 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0760 | JBQ | 0.0223 | 5.26 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.874 | JB | 0.0246 | 10.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 86 | 25 - 164 |
| 13C12-12378-PeCDD | 115 | 25 - 181 |
| 13C12-123478-HxCDD | 94 | 32 - 141 |
| 13C12-123678-HxCDD | 96 | 28 - 130 |
| 13C12-123789-HxCDD | 94 | 28 - 130 |
| 13C12-1234678-HpCDD | 103 | 23 - 140 |
| 13C12-OCDD | 100 | 17 - 157 |
| 13C12-2378-TCDF | 90 | 24 - 169 |
| 13C12-12378-PeCDF | 125 | 24 - 185 |
| 13C12-23478-PeCDF | 120 | 21 - 178 |
| 13C12-123478-HxCDF | 96 | 26 - 152 |
| 13C12-123678-HxCDF | 108 | 26 - 123 |
| 13C12-234678-HxCDF | 102 | 28 - 136 |
| 13C12-123789-HxCDF | 95 | 29 - 147 |
| 13C12-1234678-HpCDF | 125 | 28 - 143 |
| 13C12-1234789-HpCDF | 98 | 26 - 138 |
| 13C12-OCDF | 96 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-188-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-NBZ-SS

**LLI Sample # SW 6615668**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 14:41

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6809 SDG#: DX168-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-188-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-NBZ-SS

**LLI Sample # SW 6615668**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 14:41

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6809 SDG#: DX168-09

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/20/2012 11:59 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12117162401A | 04/26/2012 12:36 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-177-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-NBZ-SS

**LLI Sample # SW 6615669**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 15:10

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6810 SDG#: DX168-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 5.4 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-177-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-NBZ-SS

**LLI Sample # SW 6615669**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 15:10

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6810 SDG#: DX168-10

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0278 | U | 0.0278 | 1.05 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0800 | JB | 0.0332 | 5.24 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0716 | JQ | 0.0263 | 5.24 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.165 | JB | 0.0263 | 5.24 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.150 | JB | 0.0278 | 5.24 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.88 | JB | 0.0314 | 5.24 | 1 |
| 11031 | OCDD | 3268-87-9 | 13.3 | B | 0.0305 | 10.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.235 | J | 0.0669 | 1.05 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.320 | JB | 0.0322 | 5.24 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.273 | JB | 0.0311 | 5.24 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.179 | JBQ | 0.0233 | 5.24 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.149 | JB | 0.0212 | 5.24 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.106 | JB | 0.0274 | 5.24 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.208 | JB | 0.0214 | 5.24 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.513 | JB | 0.0152 | 5.24 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0363 | JB | 0.0276 | 5.24 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.830 | JB | 0.0295 | 10.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 85 | 25 - 164 |
| 13C12-12378-PeCDD | 103 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 89 | 28 - 130 |
| 13C12-123789-HxCDD | 85 | 28 - 130 |
| 13C12-1234678-HpCDD | 92 | 23 - 140 |
| 13C12-OCDD | 87 | 17 - 157 |
| 13C12-2378-TCDF | 81 | 24 - 169 |
| 13C12-12378-PeCDF | 114 | 24 - 185 |
| 13C12-23478-PeCDF | 106 | 21 - 178 |
| 13C12-123478-HxCDF | 81 | 26 - 152 |
| 13C12-123678-HxCDF | 92 | 26 - 123 |
| 13C12-234678-HxCDF | 86 | 28 - 136 |
| 13C12-123789-HxCDF | 81 | 29 - 147 |
| 13C12-1234678-HpCDF | 114 | 28 - 143 |
| 13C12-1234789-HpCDF | 77 | 26 - 138 |
| 13C12-OCDF | 74 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-177-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-NBZ-SS

**LLI Sample # SW 6615669**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 15:10

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6810 SDG#: DX168-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-177-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-NBZ-SS

**LLI Sample # SW 6615669**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 15:10

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6810 SDG#: DX168-10

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/20/2012 12:56 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12117162401A | 04/26/2012 12:36 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-085-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-NBZ-SS

**LLI Sample # SW 6615670**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 14:02

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6811 SDG#: DX168-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 16.0 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-085-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-NBZ-SS

**LLI Sample # SW 6615670**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 14:02

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6811 SDG#: DX168-11

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0450 | U | 0.0450 | 1.18 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.332 | JB | 0.0574 | 5.91 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.679 | J | 0.0460 | 5.91 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 1.76 | JB | 0.0489 | 5.91 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 1.33 | JB | 0.0505 | 5.91 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 40.3 | B | 0.0815 | 5.91 | 1 |
| 11031 | OCDD | 3268-87-9 | 461 | B | 0.0917 | 11.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.926 | J | 0.154 | 1.18 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 4.22 | JB | 0.0651 | 5.91 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.690 | JB | 0.0602 | 5.91 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 1.20 | JB | 0.0362 | 5.91 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.756 | JB | 0.0335 | 5.91 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.459 | JB | 0.0406 | 5.91 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.582 | JB | 0.0324 | 5.91 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 7.89 | B | 0.0273 | 5.91 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.792 | JB | 0.0411 | 5.91 | 1 |
| 11031 | OCDF | 39001-02-0 | 16.8 | B | 0.0331 | 11.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 80 | 25 - 164 |
| 13C12-12378-PeCDD | 101 | 25 - 181 |
| 13C12-123478-HxCDD | 82 | 32 - 141 |
| 13C12-123678-HxCDD | 85 | 28 - 130 |
| 13C12-123789-HxCDD | 81 | 28 - 130 |
| 13C12-1234678-HpCDD | 91 | 23 - 140 |
| 13C12-OCDD | 86 | 17 - 157 |
| 13C12-2378-TCDF | 80 | 24 - 169 |
| 13C12-12378-PeCDF | 113 | 24 - 185 |
| 13C12-23478-PeCDF | 108 | 21 - 178 |
| 13C12-123478-HxCDF | 78 | 26 - 152 |
| 13C12-123678-HxCDF | 88 | 26 - 123 |
| 13C12-234678-HxCDF | 87 | 28 - 136 |
| 13C12-123789-HxCDF | 83 | 29 - 147 |
| 13C12-1234678-HpCDF | 105 | 28 - 143 |
| 13C12-1234789-HpCDF | 80 | 26 - 138 |
| 13C12-OCDF | 78 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-085-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-NBZ-SS

**LLI Sample # SW 6615670**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 14:02

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6811 SDG#: DX168-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-085-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-NBZ-SS

**LLI Sample # SW 6615670**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/10/2012 14:02

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6811 SDG#: DX168-11

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/20/2012 13:52 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-004-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-NBZ-SS

**LLI Sample # SW 6615671**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 09:12

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6812 SDG#: DX168-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 19.2 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-004-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-NBZ-SS

**LLI Sample # SW 6615671**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 09:12

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6812 SDG#: DX168-12

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0429 | U | 0.0429 | 1.19 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.121 | JB | 0.0542 | 5.93 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0858 | J | 0.0286 | 5.93 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.321 | JB | 0.0308 | 5.93 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.322 | JBQ | 0.0313 | 5.93 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.60 | JB | 0.0371 | 5.93 | 1 |
| 11031 | OCDD | 3268-87-9 | 16.4 | B | 0.0296 | 11.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.400 | J | 0.116 | 1.19 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 1.22 | JB | 0.0479 | 5.93 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.382 | JB | 0.0433 | 5.93 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.365 | JB | 0.0286 | 5.93 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.111 | JBQ | 0.0261 | 5.93 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0985 | JBQ | 0.0316 | 5.93 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.165 | JBQ | 0.0245 | 5.93 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.658 | JB | 0.0168 | 5.93 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0820 | JBQ | 0.0266 | 5.93 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.30 | JB | 0.0288 | 11.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 75 | 25 - 164 |
| 13C12-12378-PeCDD | 108 | 25 - 181 |
| 13C12-123478-HxCDD | 86 | 32 - 141 |
| 13C12-123678-HxCDD | 87 | 28 - 130 |
| 13C12-123789-HxCDD | 85 | 28 - 130 |
| 13C12-1234678-HpCDD | 95 | 23 - 140 |
| 13C12-OCDD | 89 | 17 - 157 |
| 13C12-2378-TCDF | 80 | 24 - 169 |
| 13C12-12378-PeCDF | 116 | 24 - 185 |
| 13C12-23478-PeCDF | 113 | 21 - 178 |
| 13C12-123478-HxCDF | 85 | 26 - 152 |
| 13C12-123678-HxCDF | 94 | 26 - 123 |
| 13C12-234678-HxCDF | 92 | 28 - 136 |
| 13C12-123789-HxCDF | 87 | 29 - 147 |
| 13C12-1234678-HpCDF | 116 | 28 - 143 |
| 13C12-1234789-HpCDF | 88 | 26 - 138 |
| 13C12-OCDF | 82 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-004-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-NBZ-SS

**LLI Sample # SW 6615671**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 09:12

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6812 SDG#: DX168-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-004-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-NBZ-SS

**LLI Sample # SW 6615671**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 09:12

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6812 SDG#: DX168-12

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/20/2012 14:49 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12117162401A | 04/26/2012 12:36 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-145-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-NBZ-SS

**LLI Sample # SW 6615672**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 14:35

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6813 SDG#: DX168-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 21.6 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-145-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-NBZ-SS

**LLI Sample # SW 6615672**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 14:35

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6813 SDG#: DX168-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0341 U | 0.0341 | 1.26 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0740 JB | 0.0421 | 6.29 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0785 JQ | 0.0293 | 6.29 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.162 JB | 0.0307 | 6.29 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.158 JB | 0.0318 | 6.29 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.87 JB | 0.0309 | 6.29 | 1 |
| 11031 | OCDD | 3268-87-9 | 9.67 JB | 0.0260 | 12.6 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.280 J | 0.0684 | 1.26 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.298 JB | 0.0355 | 6.29 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.143 JB | 0.0330 | 6.29 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.236 JB | 0.0236 | 6.29 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.136 JB | 0.0223 | 6.29 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0290 U | 0.0290 | 6.29 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.165 JB | 0.0222 | 6.29 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.589 JB | 0.0153 | 6.29 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0602 JB | 0.0241 | 6.29 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.851 JB | 0.0286 | 12.6 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 80 | 25 - 164 |
| 13C12-12378-PeCDD | 93 | 25 - 181 |
| 13C12-123478-HxCDD | 80 | 32 - 141 |
| 13C12-123678-HxCDD | 84 | 28 - 130 |
| 13C12-123789-HxCDD | 81 | 28 - 130 |
| 13C12-1234678-HpCDD | 86 | 23 - 140 |
| 13C12-OCDD | 80 | 17 - 157 |
| 13C12-2378-TCDF | 80 | 24 - 169 |
| 13C12-12378-PeCDF | 104 | 24 - 185 |
| 13C12-23478-PeCDF | 100 | 21 - 178 |
| 13C12-123478-HxCDF | 84 | 26 - 152 |
| 13C12-123678-HxCDF | 93 | 26 - 123 |
| 13C12-234678-HxCDF | 89 | 28 - 136 |
| 13C12-123789-HxCDF | 83 | 29 - 147 |
| 13C12-1234678-HpCDF | 108 | 28 - 143 |
| 13C12-1234789-HpCDF | 81 | 26 - 138 |
| 13C12-OCDF | 75 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-145-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-NBZ-SS

**LLI Sample # SW 6615672**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 14:35

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6813 SDG#: DX168-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-145-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-NBZ-SS

**LLI Sample # SW 6615672**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 14:35

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6813 SDG#: DX168-13

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/20/2012 15:46 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12117162401A | 04/26/2012 12:36 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-148-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-NBZ-SS

**LLI Sample # SW 6615673**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 14:03

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6814 SDG#: DX168-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 18.5 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-148-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-NBZ-SS

**LLI Sample # SW 6615673**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 14:03

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6814 SDG#: DX168-14

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0527 | JBQ | 0.0243 | 1.18 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.138 | JB | 0.0255 | 5.89 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.101 | J | 0.0258 | 5.89 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.140 | JB | 0.0259 | 5.89 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.130 | JB | 0.0290 | 5.89 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.862 | JB | 0.0285 | 5.89 | 1 |
| 11031 | OCDD | 3268-87-9 | 4.63 | JB | 0.0253 | 11.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.111 | JQ | 0.0377 | 1.18 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.218 | JB | 0.0204 | 5.89 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.172 | JBQ | 0.0190 | 5.89 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.214 | JBQ | 0.0211 | 5.89 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.125 | JBQ | 0.0190 | 5.89 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.199 | JBQ | 0.0250 | 5.89 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.132 | JBQ | 0.0201 | 5.89 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.336 | JB | 0.0125 | 5.89 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.140 | JB | 0.0216 | 5.89 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.816 | JB | 0.0303 | 11.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 88 | 25 - 164 |
| 13C12-12378-PeCDD | 81 | 25 - 181 |
| 13C12-123478-HxCDD | 77 | 32 - 141 |
| 13C12-123678-HxCDD | 79 | 28 - 130 |
| 13C12-123789-HxCDD | 76 | 28 - 130 |
| 13C12-1234678-HpCDD | 79 | 23 - 140 |
| 13C12-OCDD | 74 | 17 - 157 |
| 13C12-2378-TCDF | 71 | 24 - 169 |
| 13C12-12378-PeCDF | 82 | 24 - 185 |
| 13C12-23478-PeCDF | 73 | 21 - 178 |
| 13C12-123478-HxCDF | 70 | 26 - 152 |
| 13C12-123678-HxCDF | 77 | 26 - 123 |
| 13C12-234678-HxCDF | 70 | 28 - 136 |
| 13C12-123789-HxCDF | 72 | 29 - 147 |
| 13C12-1234678-HpCDF | 87 | 28 - 143 |
| 13C12-1234789-HpCDF | 61 | 26 - 138 |
| 13C12-OCDF | 58 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-148-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-NBZ-SS

**LLI Sample # SW 6615673**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 14:03

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6814 SDG#: DX168-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-148-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-NBZ-SS

**LLI Sample # SW 6615673**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 14:03

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6814 SDG#: DX168-14

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/21/2012 14:20 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12117162401A | 04/26/2012 12:36 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-154-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-NBZ-SS

**LLI Sample # SW 6615674**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 10:06

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6815 SDG#: DX168-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 17.2 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-154-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-NBZ-SS

**LLI Sample # SW 6615674**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 10:06

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6815 SDG#: DX168-15

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0988 | JBQ | 0.0275 | 1.17 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.320 | JB | 0.0315 | 5.83 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.139 | JQ | 0.0318 | 5.83 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 1.37 | JB | 0.0357 | 5.83 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 1.70 | JB | 0.0362 | 5.83 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.63 | JBQ | 0.0309 | 5.83 | 1 |
| 11031 | OCDD | 3268-87-9 | 22.9 | B | 0.0374 | 11.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.269 | J | 0.0548 | 1.17 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.640 | JBQ | 0.0301 | 5.83 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.410 | JB | 0.0312 | 5.83 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.321 | JB | 0.0309 | 5.83 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.340 | JB | 0.0274 | 5.83 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.769 | JB | 0.0386 | 5.83 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.343 | JB | 0.0291 | 5.83 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.951 | JB | 0.0184 | 5.83 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.195 | JBQ | 0.0333 | 5.83 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.78 | JB | 0.0319 | 11.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 81 | 25 - 164 |
| 13C12-12378-PeCDD | 85 | 25 - 181 |
| 13C12-123478-HxCDD | 82 | 32 - 141 |
| 13C12-123678-HxCDD | 75 | 28 - 130 |
| 13C12-123789-HxCDD | 78 | 28 - 130 |
| 13C12-1234678-HpCDD | 77 | 23 - 140 |
| 13C12-OCDD | 68 | 17 - 157 |
| 13C12-2378-TCDF | 70 | 24 - 169 |
| 13C12-12378-PeCDF | 79 | 24 - 185 |
| 13C12-23478-PeCDF | 69 | 21 - 178 |
| 13C12-123478-HxCDF | 62 | 26 - 152 |
| 13C12-123678-HxCDF | 69 | 26 - 123 |
| 13C12-234678-HxCDF | 62 | 28 - 136 |
| 13C12-123789-HxCDF | 57 | 29 - 147 |
| 13C12-1234678-HpCDF | 82 | 28 - 143 |
| 13C12-1234789-HpCDF | 53 | 26 - 138 |
| 13C12-OCDF | 50 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-154-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-NBZ-SS

**LLI Sample # SW 6615674**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 10:06

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6815 SDG#: DX168-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-154-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-NBZ-SS

**LLI Sample # SW 6615674**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 10:06

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6815 SDG#: DX168-15

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/21/2012 15:17 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12117162401A | 04/26/2012 12:36 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-163-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-NBZ-SS

**LLI Sample # SW 6615675**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 13:23

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6816 SDG#: DX168-16

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 15.1 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-163-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-NBZ-SS

**LLI Sample # SW 6615675**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 13:23

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6816 SDG#: DX168-16

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0324 JBQ | 0.0247 | 1.15 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.107 JBQ | 0.0252 | 5.75 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0648 J | 0.0212 | 5.75 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.115 JB | 0.0211 | 5.75 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0846 JBQ | 0.0231 | 5.75 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.440 JB | 0.0229 | 5.75 | 1 |
| 11031 | OCDD | 3268-87-9 | 1.23 JB | 0.0216 | 11.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0407 JQ | 0.0225 | 1.15 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.165 JBQ | 0.0145 | 5.75 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.172 JBQ | 0.0144 | 5.75 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.126 JB | 0.0168 | 5.75 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.106 JB | 0.0147 | 5.75 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.117 JBQ | 0.0225 | 5.75 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.111 JB | 0.0157 | 5.75 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.198 JB | 0.0112 | 5.75 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0907 JBQ | 0.0212 | 5.75 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.254 JB | 0.0335 | 11.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 82 | 25 - 164 |
| 13C12-12378-PeCDD | 73 | 25 - 181 |
| 13C12-123478-HxCDD | 78 | 32 - 141 |
| 13C12-123678-HxCDD | 75 | 28 - 130 |
| 13C12-123789-HxCDD | 77 | 28 - 130 |
| 13C12-1234678-HpCDD | 77 | 23 - 140 |
| 13C12-OCDD | 64 | 17 - 157 |
| 13C12-2378-TCDF | 65 | 24 - 169 |
| 13C12-12378-PeCDF | 70 | 24 - 185 |
| 13C12-23478-PeCDF | 61 | 21 - 178 |
| 13C12-123478-HxCDF | 61 | 26 - 152 |
| 13C12-123678-HxCDF | 69 | 26 - 123 |
| 13C12-234678-HxCDF | 61 | 28 - 136 |
| 13C12-123789-HxCDF | 56 | 29 - 147 |
| 13C12-1234678-HpCDF | 78 | 28 - 143 |
| 13C12-1234789-HpCDF | 50 | 26 - 138 |
| 13C12-OCDF | 45 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-163-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-NBZ-SS

**LLI Sample # SW 6615675**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 13:23

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6816 SDG#: DX168-16

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-163-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-163-NBZ-SS

**LLI Sample # SW 6615675**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 13:23

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6816 SDG#: DX168-16

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/21/2012 16:14 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12117162401A | 04/26/2012 12:36 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-168-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-NBZ-SS

**LLI Sample # SW 6615676**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 09:38

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6817 SDG#: DX168-17

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.1 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-168-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-NBZ-SS

**LLI Sample # SW 6615676**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 09:38

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6817 SDG#: DX168-17

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0250 | U | 0.0250 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.117 | JB | 0.0255 | 5.47 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0576 | JQ | 0.0220 | 5.47 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.145 | JBQ | 0.0235 | 5.47 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.143 | JB | 0.0241 | 5.47 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.42 | JB | 0.0250 | 5.47 | 1 |
| 11031 | OCDD | 3268-87-9 | 8.61 | JB | 0.0254 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0816 | J | 0.0341 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.195 | JB | 0.0214 | 5.47 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0204 | U | 0.0204 | 5.47 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.128 | JBQ | 0.0208 | 5.47 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0988 | JB | 0.0197 | 5.47 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0263 | U | 0.0263 | 5.47 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.123 | JB | 0.0193 | 5.47 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.377 | JB | 0.0142 | 5.47 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0657 | JB | 0.0216 | 5.47 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.728 | JB | 0.0280 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 76 | 25 - 164 |
| 13C12-12378-PeCDD | 78 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 78 | 28 - 130 |
| 13C12-123789-HxCDD | 81 | 28 - 130 |
| 13C12-1234678-HpCDD | 90 | 23 - 140 |
| 13C12-OCDD | 79 | 17 - 157 |
| 13C12-2378-TCDF | 68 | 24 - 169 |
| 13C12-12378-PeCDF | 73 | 24 - 185 |
| 13C12-23478-PeCDF | 65 | 21 - 178 |
| 13C12-123478-HxCDF | 66 | 26 - 152 |
| 13C12-123678-HxCDF | 72 | 26 - 123 |
| 13C12-234678-HxCDF | 67 | 28 - 136 |
| 13C12-123789-HxCDF | 62 | 29 - 147 |
| 13C12-1234678-HpCDF | 82 | 28 - 143 |
| 13C12-1234789-HpCDF | 64 | 26 - 138 |
| 13C12-OCDF | 59 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-168-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-NBZ-SS

**LLI Sample # SW 6615676**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 09:38

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6817 SDG#: DX168-17

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-168-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-NBZ-SS

**LLI Sample # SW 6615676**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 09:38

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6817 SDG#: DX168-17

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/21/2012 17:10 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12117162401A | 04/26/2012 12:36 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-176-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-NBZ-SS

**LLI Sample # SW 6615677**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 13:48

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6818 SDG#: DX168-18

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 14.8 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-176-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-NBZ-SS

**LLI Sample # SW 6615677**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 13:48

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6818 SDG#: DX168-18

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0568 JBQ | 0.0426 | 1.15 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0465 JBQ | 0.0370 | 5.73 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0579 JQ | 0.0232 | 5.73 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0880 JB | 0.0235 | 5.73 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.106 JBQ | 0.0259 | 5.73 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.623 JB | 0.0230 | 5.73 | 1 |
| 11031 | OCDD | 3268-87-9 | 2.34 JB | 0.0188 | 11.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0373 JQ | 0.0281 | 1.15 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0935 JBQ | 0.0162 | 5.73 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0879 JB | 0.0147 | 5.73 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0904 JB | 0.0160 | 5.73 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0755 JB | 0.0144 | 5.73 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.108 JB | 0.0209 | 5.73 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0879 JB | 0.0155 | 5.73 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.217 JBQ | 0.0122 | 5.73 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0710 JBQ | 0.0190 | 5.73 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.309 JB | 0.0303 | 11.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 89 | 25 - 164 |
| 13C12-12378-PeCDD | 86 | 25 - 181 |
| 13C12-123478-HxCDD | 93 | 32 - 141 |
| 13C12-123678-HxCDD | 88 | 28 - 130 |
| 13C12-123789-HxCDD | 89 | 28 - 130 |
| 13C12-1234678-HpCDD | 102 | 23 - 140 |
| 13C12-OCDD | 90 | 17 - 157 |
| 13C12-2378-TCDF | 77 | 24 - 169 |
| 13C12-12378-PeCDF | 81 | 24 - 185 |
| 13C12-23478-PeCDF | 74 | 21 - 178 |
| 13C12-123478-HxCDF | 70 | 26 - 152 |
| 13C12-123678-HxCDF | 77 | 26 - 123 |
| 13C12-234678-HxCDF | 68 | 28 - 136 |
| 13C12-123789-HxCDF | 65 | 29 - 147 |
| 13C12-1234678-HpCDF | 89 | 28 - 143 |
| 13C12-1234789-HpCDF | 71 | 26 - 138 |
| 13C12-OCDF | 65 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-176-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-NBZ-SS

**LLI Sample # SW 6615677**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 13:48

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6818 SDG#: DX168-18

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-176-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-NBZ-SS

**LLI Sample # SW 6615677**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 13:48

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6818 SDG#: DX168-18

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/21/2012 18:07 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12117162401A | 04/26/2012 12:36 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-182-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-NBZ-SS

**LLI Sample # SW 6615678**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 10:41

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6819 SDG#: DX168-19

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 13.8 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-182-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-NBZ-SS

**LLI Sample # SW 6615678**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 10:41

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6819 SDG#: DX168-19

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0550 | JBQ | 0.0353 | 1.15 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.324 | JBQ | 0.0461 | 5.75 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.515 | J | 0.0399 | 5.75 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 1.24 | JB | 0.0423 | 5.75 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.800 | JBQ | 0.0461 | 5.75 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 25.4 | B | 0.0650 | 5.75 | 1 |
| 11031 | OCDD | 3268-87-9 | 295 | B | 0.0774 | 11.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 1.01 | J | 0.121 | 1.15 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 3.49 | JB | 0.0567 | 5.75 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.181 | JBQ | 0.0524 | 5.75 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 1.00 | JB | 0.0369 | 5.75 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.635 | JB | 0.0355 | 5.75 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.382 | JB | 0.0437 | 5.75 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.457 | JB | 0.0349 | 5.75 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 5.59 | JB | 0.0370 | 5.75 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.513 | JB | 0.0520 | 5.75 | 1 |
| 11031 | OCDF | 39001-02-0 | 12.4 | B | 0.0376 | 11.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 86 | 25 - 164 |
| 13C12-12378-PeCDD | 85 | 25 - 181 |
| 13C12-123478-HxCDD | 87 | 32 - 141 |
| 13C12-123678-HxCDD | 83 | 28 - 130 |
| 13C12-123789-HxCDD | 84 | 28 - 130 |
| 13C12-1234678-HpCDD | 90 | 23 - 140 |
| 13C12-OCDD | 81 | 17 - 157 |
| 13C12-2378-TCDF | 75 | 24 - 169 |
| 13C12-12378-PeCDF | 77 | 24 - 185 |
| 13C12-23478-PeCDF | 73 | 21 - 178 |
| 13C12-123478-HxCDF | 72 | 26 - 152 |
| 13C12-123678-HxCDF | 76 | 26 - 123 |
| 13C12-234678-HxCDF | 70 | 28 - 136 |
| 13C12-123789-HxCDF | 70 | 29 - 147 |
| 13C12-1234678-HpCDF | 80 | 28 - 143 |
| 13C12-1234789-HpCDF | 68 | 26 - 138 |
| 13C12-OCDF | 65 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-182-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-NBZ-SS

**LLI Sample # SW 6615678**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 10:41

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6819 SDG#: DX168-19

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-182-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-NBZ-SS

**LLI Sample # SW 6615678**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/11/2012 10:41

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6819 SDG#: DX168-19

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/21/2012 19:03 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12117162401A | 04/26/2012 12:36 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-011-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-NBZ-SS

**LLI Sample # SW 6615679**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 11:22

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6820 SDG#: DX168-20*

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 11.9 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-011-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-NBZ-SS

**LLI Sample # SW 6615679**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 11:22

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6820 SDG#: DX168-20*

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0632 JB | 0.0269 | 1.13 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.106 JBQ | 0.0270 | 5.65 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0936 JQ | 0.0253 | 5.65 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.225 JB | 0.0271 | 5.65 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.213 JB | 0.0289 | 5.65 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.18 JB | 0.0249 | 5.65 | 1 |
| 11031 | OCDD | 3268-87-9 | 17.9 B | 0.0319 | 11.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.131 JQ | 0.0439 | 1.13 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.308 JBQ | 0.0284 | 5.65 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.228 JBQ | 0.0266 | 5.65 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.172 JB | 0.0247 | 5.65 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0978 JBQ | 0.0224 | 5.65 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.130 JBQ | 0.0286 | 5.65 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.190 JBQ | 0.0224 | 5.65 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.511 JB | 0.0160 | 5.65 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0751 JBQ | 0.0266 | 5.65 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.851 JBQ | 0.0350 | 11.3 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 84 | 25 - 164 |
| 13C12-12378-PeCDD | 84 | 25 - 181 |
| 13C12-123478-HxCDD | 91 | 32 - 141 |
| 13C12-123678-HxCDD | 86 | 28 - 130 |
| 13C12-123789-HxCDD | 88 | 28 - 130 |
| 13C12-1234678-HpCDD | 91 | 23 - 140 |
| 13C12-OCDD | 73 | 17 - 157 |
| 13C12-2378-TCDF | 73 | 24 - 169 |
| 13C12-12378-PeCDF | 77 | 24 - 185 |
| 13C12-23478-PeCDF | 69 | 21 - 178 |
| 13C12-123478-HxCDF | 62 | 26 - 152 |
| 13C12-123678-HxCDF | 68 | 26 - 123 |
| 13C12-234678-HxCDF | 65 | 28 - 136 |
| 13C12-123789-HxCDF | 63 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 62 | 26 - 138 |
| 13C12-OCDF | 49 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-011-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-NBZ-SS

**LLI Sample # SW 6615679**
**LLI Group # 1302049**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 11:22

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6820 SDG#: DX168-20*

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-011-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-NBZ-SS

**LLI Sample # SW 6615679**
**LLI Group # 1302049**
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**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 11:22

Submitted: 04/13/2012 09:30
Reported: 05/01/2012 18:02

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6820 SDG#: DX168-20*

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12109002 | 04/21/2012 20:00 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12109002 | 04/18/2012 14:00 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1302049
Reported: 05/01/12 at 06:02 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12109162401B | Sample number(s): 6615670,6615679 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Batch number: 12117162401A | Sample number(s): 6615668-6615669,6615671-6615678 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12109002 | Sample number(s): 6615668-6615679 | | | | | | | | |
| 2378-TCDD | 0.105 J | 0.0760 | 1.00 | ng/kg | 108 | | 67-158 | | |
| 12378-PeCDD | 0.0772 J | 0.0634 | 5.00 | ng/kg | 107 | | 70-142 | | |
| 123478-HxCDD | 0.0421 U | 0.0421 | 5.00 | ng/kg | 98 | | 70-164 | | |
| 123678-HxCDD | 0.0777 J | 0.0426 | 5.00 | ng/kg | 97 | | 76-134 | | |
| 123789-HxCDD | 0.0680 J | 0.0484 | 5.00 | ng/kg | 101 | | 64-162 | | |
| 1234678-HpCDD | 0.374 J | 0.0662 | 5.00 | ng/kg | 97 | | 70-140 | | |
| OCDD | 0.714 J | 0.0447 | 10.0 | ng/kg | 96 | | 78-144 | | |
| 2378-TCDF | 0.0574 U | 0.0574 | 1.00 | ng/kg | 107 | | 75-158 | | |
| 12378-PeCDF | 0.0911 J | 0.0368 | 5.00 | ng/kg | 104 | | 80-134 | | |
| 23478-PeCDF | 0.140 J | 0.0342 | 5.00 | ng/kg | 98 | | 68-160 | | |
| 123478-HxCDF | 0.0923 J | 0.0319 | 5.00 | ng/kg | 91 | | 72-134 | | |
| 123678-HxCDF | 0.0420 J | 0.0289 | 5.00 | ng/kg | 91 | | 84-130 | | |
| 123789-HxCDF | 0.0982 J | 0.0408 | 5.00 | ng/kg | 87 | | 78-130 | | |
| 234678-HxCDF | 0.0901 J | 0.0279 | 5.00 | ng/kg | 86 | | 70-156 | | |
| 1234678-HpCDF | 0.162 J | 0.0199 | 5.00 | ng/kg | 86 | | 82-122 | | |
| 1234789-HpCDF | 0.103 J | 0.0332 | 5.00 | ng/kg | 91 | | 78-138 | | |
| OCDF | 0.227 J | 0.0670 | 10.0 | ng/kg | 91 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12109162401B | Sample number(s): 6615670,6615679 BKG: P612355 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 8.6 | 8.6 | 0 | 20 |
| Batch number: 12117162401A | Sample number(s): 6615668-6615669,6615671-6615678 BKG: 6615675 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 15.1 | 16.0 | 5 | 20 |
| Batch number: 12109002 | Sample number(s): 6615668-6615679 UNSPK: P612355 | | | | | | | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1302049
Reported: 05/01/12 at 06:02 PM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| 2378-TCDD | 106 | 106 | 67-158 | 3 | 25 | | | | |
| 12378-PeCDD | 110 | 111 | 70-142 | 4 | 25 | | | | |
| 123478-HxCDD | 107 | 104 | 70-164 | 0 | 25 | | | | |
| 123678-HxCDD | 104 | 106 | 76-134 | 6 | 25 | | | | |
| 123789-HxCDD | 114 | 111 | 64-162 | 0 | 25 | | | | |
| 1234678-HpCDD | 108 | 107 | 70-140 | 2 | 25 | | | | |
| OCDD | 104 | 103 | 78-144 | 3 | 25 | | | | |
| 2378-TCDF | 117 | 118 | 75-158 | 4 | 25 | | | | |
| 12378-PeCDF | 120 | 121 | 80-134 | 4 | 25 | | | | |
| 23478-PeCDF | 112 | 114 | 68-160 | 5 | 25 | | | | |
| 123478-HxCDF | 103 | 97 | 72-134 | 3 | 25 | | | | |
| 123678-HxCDF | 103 | 98 | 84-130 | 1 | 25 | | | | |
| 123789-HxCDF | 102 | 101 | 78-130 | 3 | 25 | | | | |
| 234678-HxCDF | 100 | 96 | 70-156 | 0 | 25 | | | | |
| 1234678-HpCDF | 95 | 92 | 82-122 | 0 | 25 | | | | |
| 1234789-HpCDF | 100 | 101 | 78-138 | 4 | 25 | | | | |
| OCDF | 98 | 97 | 63-170 | 3 | 25 | | | | |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12109002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6615668 | 86 | 120 | 96 | 108 | 102 | 95 |
| 6615669 | 85 | 106 | 81 | 92 | 86 | 81 |
| 6615670 | 80 | 108 | 78 | 88 | 87 | 83 |
| 6615671 | 75 | 113 | 85 | 94 | 92 | 87 |
| 6615672 | 80 | 100 | 84 | 93 | 89 | 83 |
| 6615673 | 88 | 73 | 70 | 77 | 70 | 72 |
| 6615674 | 81 | 69 | 62 | 69 | 62 | 57 |
| 6615675 | 82 | 61 | 61 | 69 | 61 | 56 |
| 6615676 | 76 | 65 | 66 | 72 | 67 | 62 |
| 6615677 | 89 | 74 | 70 | 77 | 68 | 65 |
| 6615678 | 86 | 73 | 72 | 76 | 70 | 70 |
| 6615679 | 84 | 69 | 62 | 68 | 65 | 63 |
| Blank | 63 | 85 | 68 | 79 | 76 | 68 |
| MS | 80 | 106 | 88 | 95 | 93 | 92 |
| MSD | 74 | 107 | 84 | 88 | 86 | 82 |
| OPR | 73 | 84 | 69 | 78 | 72 | 73 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6615668 | 125 | 98 | 96 | 115 | 94 | 96 |
| 6615669 | 114 | 77 | 74 | 103 | 84 | 89 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1302049
Reported: 05/01/12 at 06:02 PM

## Surrogate Quality Control

| | | | | | | |
|---|---|---|---|---|---|---|
| 6615670 | 105 | 80 | 78 | 101 | 82 | 85 |
| 6615671 | 116 | 88 | 82 | 108 | 86 | 87 |
| 6615672 | 108 | 81 | 75 | 93 | 80 | 84 |
| 6615673 | 87 | 61 | 58 | 81 | 77 | 79 |
| 6615674 | 82 | 53 | 50 | 85 | 82 | 75 |
| 6615675 | 78 | 50 | 45 | 73 | 78 | 75 |
| 6615676 | 82 | 64 | 59 | 78 | 83 | 78 |
| 6615677 | 89 | 71 | 65 | 86 | 93 | 88 |
| 6615678 | 80 | 68 | 65 | 85 | 87 | 83 |
| 6615679 | 86 | 62 | 49 | 84 | 91 | 86 |
| Blank | 89 | 64 | 65 | 82 | 70 | 79 |
| MS | 112 | 94 | 96 | 99 | 83 | 89 |
| MSD | 97 | 84 | 87 | 104 | 81 | 79 |
| OPR | 88 | 63 | 64 | 81 | 72 | 82 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6615668 | 94 | 103 | 100 | 90 | 125 |
| 6615669 | 85 | 92 | 87 | 81 | 114 |
| 6615670 | 81 | 91 | 86 | 80 | 113 |
| 6615671 | 85 | 95 | 89 | 80 | 116 |
| 6615672 | 81 | 86 | 80 | 80 | 104 |
| 6615673 | 76 | 79 | 74 | 71 | 82 |
| 6615674 | 78 | 77 | 68 | 70 | 79 |
| 6615675 | 77 | 77 | 64 | 65 | 70 |
| 6615676 | 81 | 90 | 79 | 68 | 73 |
| 6615677 | 89 | 102 | 90 | 77 | 81 |
| 6615678 | 84 | 90 | 81 | 75 | 77 |
| 6615679 | 88 | 91 | 73 | 73 | 77 |
| Blank | 72 | 75 | 72 | 64 | 88 |
| MS | 84 | 97 | 97 | 81 | 107 |
| MSD | 77 | 87 | 85 | 78 | 103 |
| OPR | 74 | 76 | 71 | 70 | 88 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Ap# 1302049 Sample# 6615668-79

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRI MA ONDARY ANAL | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C.<br>Samplers Signatures: | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-188-NBZ-SS-0.0-0.5 | 4/10/12 | 1441 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-177-NBZ-SS-0.0-0.5 | 4/10/12 | 1510 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-085-NBZ-SS-0.0-0.5 | 4/10/12 | 1402 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-004-NBZ-SS-0.0-0.5 | 4/11/12 | 0912 | SOIL | NONE | 1-16 oz Jar | X | | | | |
| SL-145-NBZ-SS-0.0-0.5 | 4/11/12 | 1435 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-148-NBZ-SS-0.0-0.5 | 4/11/12 | 1403 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-154-NBZ-SS-0.0-0.5 | 4/11/12 | 1006 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-163-NBZ-SS-0.0-0.5 | 4/11/12 | 1323 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-168-NBZ-SS-0.0-0.5 | 4/11/12 | 0938 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-176-NBZ-SS-0.0-0.5 | 4/11/12 | 1348 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-182-NBZ-SS-0.0-0.5 | 4/11/12 | 1041 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-011-NBZ-SS-0.0-0.5 | 4.12.12 | 1122 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-144-NBZ-SS-0.0-0.5 | 4.12.12 | 0922 | SOIL | NONE | 1-4 0z Jar | X | | | | |
| SL-152-NBZ-SS-0.0-0.5 | 4.12.12 | 0955 | SOIL | NONE | 1-4 0z Jar | X | | | | |
| EB-NBZ-SS-041212 | 4.12.12 | 1500 | WATER | NONE | 4-1 L Ambers | X | | X | X | |
| EB-NBZ-SS-041212 | 4.12.12 | 1500 | WATER | NONE | 1-250 mL glass | | X | | | |
| Relinquished by: (*Signature*) | Date/Time<br>4/12/2012 / 1630 | | Received for Laboratory by: (*Signature*)<br>Suzette Lehman 4/13/12 0930 | | | | | | | Laboratory: LLL<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s) | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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# SAMPLE DELIVERY GROUP

# DX169

**NBZ – Data Package Amendment**
**SDG 12D146, SDG 12D166, SDG DX169, SDG DX170**
**6-17-13**

During the database check, an inconsistency in sample identification was discovered that needed to be corrected. They are listed below:

- Two samples for SL-160-NBZ-SS-0.0-0.5 were taken on the same day at the same location.
- One sample was re-assigned as a field duplicate called DUP-10-NBZ-QC-041612.
- The field duplicate sample DUP-10-NBZ-QC-041612 was added to the dt_sample table and the methods in SDG 12D166 and DX170 were assigned to it.

All changes have been documented and verified by the field personnel and data group.

Pam Hartman
Catherine Love
Cherie Zakowski

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# Analysis Report

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DUP-10-NBZ-QC-041612 CZ 6/17/13



Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6624306
LLI Group # 1303751
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2012 14:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7014 SDG#: DX170-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.0 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

DUP-10-NBZ-QC-041612 6/17/13



Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6624306
LLI Group # 1303751
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2012 14:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7014 SDG#: DX170-14

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0244 | U | 0.0244 | 1.12 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.108 | J | 0.0219 | 5.61 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0804 | JBQ | 0.0285 | 5.61 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.246 | JB | 0.0311 | 5.61 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.247 | JB | 0.0310 | 5.61 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.97 | JB | 0.0235 | 5.61 | 1 |
| 11031 | OCDD | 3268-87-9 | 10.7 | JB | 0.0227 | 11.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.208 | JB | 0.0591 | 1.12 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.253 | JBQ | 0.0365 | 5.61 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.605 | JB | 0.0369 | 5.61 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.238 | JB | 0.0276 | 5.61 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.159 | J | 0.0246 | 5.61 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0436 | JB | 0.0302 | 5.61 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.225 | JB | 0.0234 | 5.61 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.492 | JB | 0.0146 | 5.61 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0638 | JB | 0.0236 | 5.61 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.826 | JB | 0.0236 | 11.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 76 | 25 - 164 |
| 13C12-12378-PeCDD | 75 | 25 - 181 |
| 13C12-123478-HxCDD | 96 | 32 - 141 |
| 13C12-123678-HxCDD | 89 | 28 - 130 |
| 13C12-123789-HxCDD | 87 | 28 - 130 |
| 13C12-1234678-HpCDD | 83 | 23 - 140 |
| 13C12-OCDD | 78 | 17 - 157 |
| 13C12-2378-TCDF | 68 | 24 - 169 |
| 13C12-12378-PeCDF | 76 | 24 - 185 |
| 13C12-23478-PeCDF | 70 | 21 - 178 |
| 13C12-123478-HxCDF | 77 | 26 - 152 |
| 13C12-123678-HxCDF | 84 | 26 - 123 |
| 13C12-234678-HxCDF | 90 | 28 - 136 |
| 13C12-123789-HxCDF | 72 | 29 - 147 |
| 13C12-1234678-HpCDF | 97 | 28 - 143 |
| 13C12-1234789-HpCDF | 65 | 26 - 138 |
| 13C12-OCDF | 59 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

DUP-10-NBZ-QC-041612 CZ 6/17/13



Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6624306
LLI Group # 1303751
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2012 14:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7014 SDG#: DX170-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| S | *Saturation of detection signal* | | | | | |

*=This limit was used in the evaluation of the final result

eurofins | Lancaster Laboratories

# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

DUP-10-NBZ-QC-041612 6/17/13



**Sample Description:** SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6624306
LLI Group # 1303751
Account # 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 14:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7014 SDG#: DX170-14

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 09:15 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401B | 05/01/2012 11:51 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

# Analysis Report



Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6620881
LLI Group # 1303087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/16/2012 14:40

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6906 SDG#: DX169-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 10.2 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6620881
LLI Group # 1303087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/16/2012 14:40

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6906 SDG#: DX169-06

| CAT No. | Analysis Name | | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | | 1746-01-6 | 0.0213 | U | 0.0213 | 1.09 | 1 |
| 11031 | 12378-PeCDD | | 40321-76-4 | 0.0928 | JBQ | 0.0199 | 5.47 | 1 |
| 11031 | 123478-HxCDD | | 39227-28-6 | 0.0864 | JB | 0.0293 | 5.47 | 1 |
| 11031 | 123678-HxCDD | | 57653-85-7 | 0.165 | JB | 0.0274 | 5.47 | 1 |
| 11031 | 123789-HxCDD | | 19408-74-3 | 0.172 | JB | 0.0269 | 5.47 | 1 |
| 11031 | 1234678-HpCDD | | 35822-46-9 | 1.94 | JB | 0.0228 | 5.47 | 1 |
| 11031 | OCDD | | 3268-87-9 | 12.9 | B | 0.0182 | 10.9 | 1 |
| 11031 | 2378-TCDF | | 51207-31-9 | 0.0924 | JB | 0.0412 | 1.09 | 1 |
| 11031 | 12378-PeCDF | | 57117-41-6 | 0.139 | JB | 0.0233 | 5.47 | 1 |
| 11031 | 23478-PeCDF | | 57117-31-4 | 0.261 | JB | 0.0214 | 5.47 | 1 |
| 11031 | 123478-HxCDF | | 70648-26-9 | 0.120 | JB | 0.0197 | 5.47 | 1 |
| 11031 | 123678-HxCDF | | 57117-44-9 | 0.0911 | JB | 0.0190 | 5.47 | 1 |
| 11031 | 123789-HxCDF | | 72918-21-9 | 0.0288 | JB | 0.0192 | 5.47 | 1 |
| 11031 | 234678-HxCDF | | 60851-34-5 | 0.158 | JB | 0.0185 | 5.47 | 1 |
| 11031 | 1234678-HpCDF | | 67562-39-4 | 0.474 | JB | 0.0219 | 5.47 | 1 |
| 11031 | 1234789-HpCDF | | 55673-89-7 | 0.0688 | JB | 0.0255 | 5.47 | 1 |
| 11031 | OCDF | | 39001-02-0 | 0.711 | JB | 0.0141 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 84 | 25 - 164 |
| 13C12-12378-PeCDD | 86 | 25 - 181 |
| 13C12-123478-HxCDD | 88 | 32 - 141 |
| 13C12-123678-HxCDD | 101 | 28 - 130 |
| 13C12-123789-HxCDD | 96 | 28 - 130 |
| 13C12-1234678-HpCDD | 88 | 23 - 140 |
| 13C12-OCDD | 86 | 17 - 157 |
| 13C12-2378-TCDF | 77 | 24 - 169 |
| 13C12-12378-PeCDF | 82 | 24 - 185 |
| 13C12-23478-PeCDF | 83 | 21 - 178 |
| 13C12-123478-HxCDF | 79 | 26 - 152 |
| 13C12-123678-HxCDF | 79 | 26 - 123 |
| 13C12-234678-HxCDF | 82 | 28 - 136 |
| 13C12-123789-HxCDF | 86 | 29 - 147 |
| 13C12-1234678-HpCDF | 87 | 28 - 143 |
| 13C12-1234789-HpCDF | 82 | 26 - 138 |
| 13C12-OCDF | 80 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

- *B Detected in Method Blank*
- *U Undetected*
- *J Estimated concentration between Estimated Detection Limit and Minimum Level*
- *E Exceeds calibration range*
- *C Confirmed quantitation on secondary GC column*
- *Q EMPC - Estimated Maximum Possible Concentration*
- *F Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6620881
LLI Group # 1303087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/16/2012 14:40

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6906 SDG#: DX169-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| S | *Saturation of detection signal* | | | | | |

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6620881
LLI Group # 1303087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/16/2012 14:40

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6906 SDG#: DX169-06

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12111004 | 04/24/2012 00:22 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12111004 | 04/20/2012 12:45 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401A | 05/01/2012 11:51 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| Batch No. | : 120166 | Date Extracted | : 04/25/1211:53 |
| Sample ID | : SL-160-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/02/12 21:13 |
| Lab Samp ID | : D166-09 | Dilution Factor | : 1 |
| Lab File ID | : REL078 DUP-10-NBZ-QC- CK11612 | Matrix | : SOIL |
| Ext Btch ID | : SVD047S | % Moisture | : 10.8 |
| Calib. Ref. | : RDL204 | Instrument ID | : T-OE9 |

EZ 6/7/12

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 750 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 834 | 1121 | 74.4 | 35-130 |
| 2-FLUOROBIPHENYL | 292 | 373.7 | 78.2 | 45-130 |
| 2-FLUOROPHENOL | 791 | 1121 | 70.6 | 25-130 |
| NITROBENZENE-D5 | 244 | 373.7 | 65.2 | 40-130 |
| PHENOL-D5 | 812 | 1121 | 72.4 | 25-120 |
| TERPHENYL-D14 | 381 | 373.7 | 102 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 21:13 |
| Lab Samp ID: D166-09 DUP-10-NBZ-QC-041612 | Dilution Factor: 1 |
| Lab File ID: REL078 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 10.8 |
| Calib. Ref.: RDL204 cz 6/17/13 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)PYRENE | ND | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.95 |
| CHRYSENE | ND | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | ND | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.95 |
| NAPHTHALENE | ND | 1.9 | 0.95 |
| PHENANTHRENE | ND | 1.9 | 0.95 |
| PYRENE | ND | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | 9.6J | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 240 | 373.7 | 64.2 | 40-130 |
| 2-FLUOROBIPHENYL | 256 | 373.7 | 68.6 | 45-130 |
| TERPHENYL-D14 | 347 | 373.7 | 92.8 | 45-135 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 19:12 |
| Lab Samp ID: D166-09 | Dilution Factor: 1 |
| Lab File ID: MD27027A DUP-b-NBZ-QC- | Matrix : SOIL |
| Ext Btch ID: CPD054S 04/6/12 CZ 6/07/13 | % Moisture : 10.8 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | | RL (ug/kg) | MDL (ug/kg) | |
|---|---|---|---|---|---|
| ALPHA-BHC | 0.61 | (ND) | 0.19 | 0.095 | 0.095 |
| GAMMA-BHC (LINDANE) | (ND) | ND | 0.19 | 0.095 | 0.095 |
| BETA-BHC | (ND) | ND | 0.19 | 0.095 | 0.095 |
| HEPTACHLOR | (ND) | 0.23 | 0.19 | 0.095 | 0.095 |
| DELTA-BHC | (ND) | 1.1 | 0.19 | 0.095 | 0.095 |
| ALDRIN | (ND) | 0.38 | 0.19 | 0.095 | 0.095 |
| HEPTACHLOR EPOXIDE | 0.35 | (ND) | 0.19 | 0.095 | 0.095 |
| ENDOSULFAN I | (ND) | 0.13J | 0.19 | 0.095 | 0.095 |
| 4,4'-DDE | (1.1) | 0.89 | 0.38 | 0.19 | 0.19 |
| DIELDRIN | (ND) | ND | 0.38 | 0.19 | 0.19 |
| ENDRIN | (ND) | ND | 0.38 | 0.19 | 0.19 |
| 4,4'-DDD | (ND) | 0.92 | 0.38 | 0.19 | 0.19 |
| ENDOSULFAN II | (ND) | ND | 0.38 | 0.19 | 0.19 |
| 4,4'-DDT | (1.7) | 1.6 | 0.38 | 0.19 | 0.19 |
| ENDRIN ALDEHYDE | (ND) | 0.25J | 0.38 | 0.19 | 0.19 |
| ENDOSULFAN SULFATE | (ND) | 0.98 | 0.38 | 0.19 | 0.19 |
| ENDRIN KETONE | 0.98 | (ND) | 0.38 | 0.19 | 0.19 |
| METHOXYCHLOR | 2.5 | (ND) | 1.9 | 0.95 | 0.95 |
| MIREX | (ND) | ND | 0.38 | 0.19 | 0.19 |
| TOXAPHENE | (ND) | ND | 7.4 | 3.7 | 3.7 |
| CHLORDANE (TECHNICAL) | (ND) | ND | 3.8 | 1.9 | 1.9 |

| SURROGATE PARAMETERS | RESULTS | | SPK_AMT | % RECOVERY | | QC LIMIT |
|---|---|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.593 | (5.594) | 5.979 | 76.8 | (93.6) | 50-130 |
| DECACHLOROBIPHENYL | (5.786) | 4.684 | 5.979 | (96.8) | 78.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/26/12 17:43 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/14/12 18:37 |
| Lab Samp ID: D166-09 DUP-10-NBZ-QC-041612 cz 6/7/13 | Dilution Factor: 1 |
| Lab File ID: KE14012A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 10.8 |
| Calib. Ref.: KE14003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1221 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1232 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1242 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1248 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1254 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1260 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1262 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1268 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 5432 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| AROCLOR 5442 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| AROCLOR 5460 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.005) \| 4.897 | 5.979 | (117) \| 81.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.558) \| 4.527 | 5.979 | (110) \| 75.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 120166 | Date Extracted: 04/23/12 17:23 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 18:48 |
| Lab Samp ID: D166-09 DUP-10-NBZ-QC-04/16/12 | Dilution Factor: 1 |
| Lab File ID: WD25026A | Matrix : SOIL |
| Ext Btch ID: HED012S | % Moisture : 10.8 |
| Calib. Ref.: WD25020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 4.0 | 2.0 \| 2.0 |
| 2,4-DB | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| 2,4,5-T | 0.34 \| (ND) | 0.19 | 0.095 \| 0.095 |
| 2,4,5-TP(SILVEX) | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| DALAPON | (ND) \| ND | 10 | 5.0 \| 5.0 |
| DICAMBA | (ND) \| ND | 1.3 | 0.67 \| 0.67 |
| DICHLOROPROP | (ND) \| ND | 2.7 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| MCPA | (ND) \| ND | 280 | 140 \| 140 |
| MCPP | (ND) \| ND | 280 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (231.8) \| 180.3 | 168.2 | (138) \| 107 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 6020
METALS BY ICP-MS

oz 6/17/13

DUP-10-NBZ-QC-041612

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 04/18/12 |
| SDG NO. | : 12D166 | Date Extracted: | 04/25/12 10:28 |
| Sample ID: | SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: | 04/30/12 17:50 # 05/01/12 19:01 |
| Lab Samp ID: | D166-09 #D166-09W | Dilution Factor: | 0.976 |
| Lab File ID: | 98D21066 #98E01050 | Matrix : | SOIL |
| Ext Btch ID: | IMD036S | % Moisture : | 10.8 |
| Calib. Ref.: | 98D21062 #98E01041 | Instrument ID : | T-198 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 9610 | 26.3 | 13.1 |
| | Antimony | 0.164J | 0.219 | 0.109 |
| | Arsenic | 4.70 | 0.438 | 0.219 |
| | Barium | 60.5 | 0.438 | 0.219 |
| | Beryllium | 0.494 | 0.109 | 0.0547 |
| | Boron | ND | 5.47 | 2.74 |
| | Cadmium | 0.205 | 0.109 | 0.0547 |
| | Calcium | 2290 | 21.9 | 10.9 |
| | Chromium | 11.2 | 0.438 | 0.219 |
| | Cobalt | 4.81 | 0.109 | 0.0547 |
| | Copper | 6.78 | 0.438 | 0.219 |
| | Iron | 20100 | 21.9 | 10.9 |
| | Lead | 9.49 | 0.219 | 0.109 |
| | Magnesium | 4160 | 10.9 | 5.47 |
| | Manganese | 260 | 0.547 | 0.274 |
| | Molybdenum | 0.359 | 0.109 | 0.0547 |
| | Nickel | 7.36 | 0.438 | 0.219 |
| | Potassium | 2720 | 65.7 | 32.8 |
| | Selenium | 0.887 | 0.438 | 0.219 |
| | Silver | ND | 0.109 | 0.0547 |
| | Sodium | ND | 109 | 54.7 |
| # | Strontium | 10.3 | 0.547 | 0.274 |
| | Thallium | 0.253 | 0.109 | 0.0547 |
| | Tin | ND | 10.9 | 5.47 |
| | Titanium | 785 | 1.09 | 0.547 |
| | Vanadium | 25.7 | 0.109 | 0.0547 |
| | Zinc | 59.1 | 3.28 | 1.64 |
| | Lithium | 28.6 | 2.19 | 1.09 |
| | Phosphorus | 395 | 13.1 | 6.57 |
| | Zirconium | ND | 5.47 | 2.74 |

# Members of the Associated File

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD025SB | ND | 1 | NA | 0.100 | 0.0500 | 04/24/1217:56 | 04/24/1213:30 | M47D017035 | M47D017032 | HGD025S | NA | 04/24/12 |
| LCS1S | HGD025SL | 0.863 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:58 | 04/24/1213:30 | M47D017036 | M47D017032 | HGD025S | NA | 04/24/12 |
| LCD1S | HGD025SC | 0.853 | 1 | NA | 0.100 | 0.0500 | 04/24/1218:00 | 04/24/1213:30 | M47D017037 | M47D017032 | HGD025S | NA | 04/24/12 |
| SL-008-NBZ-SB-4.0-5.0AS | D166-02A | 0.911 | 0.993 | 5.3 | 0.105 | 0.0524 | 04/24/1218:03 | 04/24/1213:30 | M47D017038 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 0.993 | 5.3 | 0.105 | 0.0524 | 04/24/1218:05 | 04/24/1213:30 | M47D017039 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DL | D166-02J | ND | 4.97 | 5.3 | 0.525 | 0.262 | 04/24/1218:07 | 04/24/1213:30 | M47D017040 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M | 0.920 | 0.992 | 5.3 | 0.105 | 0.0524 | 04/24/1218:09 | 04/24/1213:30 | M47D017041 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MSD | D166-02S | 0.921 | 0.995 | 5.3 | 0.105 | 0.0525 | 04/24/1218:11 | 04/24/1213:30 | M47D017042 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 0.998 | 16.0 | 0.119 | 0.0594 | 04/24/1218:13 | 04/24/1213:30 | M47D017043 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 0.233 | 0.985 | 12.8 | 0.113 | 0.0565 | 04/24/1218:20 | 04/24/1213:30 | M47D017046 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1.01 | 12.1 | 0.115 | 0.0575 | 04/24/1218:22 | 04/24/1213:30 | M47D017047 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 0.0992J | 0.995 | 12.6 | 0.114 | 0.0569 | 04/24/1218:24 | 04/24/1213:30 | M47D017048 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1.00 | 13.0 | 0.115 | 0.0575 | 04/24/1218:26 | 04/24/1213:30 | M47D017049 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 0.995 | 10.8 | 0.112 | 0.0558 | 04/24/1218:28 | 04/24/1213:30 | M47D017050 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 0.997 | 12.7 | 0.114 | 0.0571 | 04/24/1218:30 | 04/24/1213:30 | M47D017051 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |

DUP-10-NBZ-QC-041612

CZ
6/7/13

GS2

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : DO

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD010SB | ND | 1 | NA | 1.00 | 0.500 | 04/24/1220:12 | 04/23/1211:11 | AD31-39 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCS1S | ICD010SL | 6.34 | 1 | NA | 1.00 | 0.500 | 04/24/1220:28 | 04/23/1211:11 | AD31-40 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCD1S | ICD010SC | 6.31 | 1 | NA | 1.00 | 0.500 | 04/24/1220:44 | 04/23/1211:11 | AD31-41 | AD31-37 | ICD010S | NA | 04/23/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 1.06 | 0.528 | 04/24/1221:00 | 04/23/1211:11 | AD31-42 | AD31-37 | ICD010S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 1 | 16.0 | 1.19 | 0.595 | 04/24/1221:16 | 04/23/1211:11 | AD31-43 | AD31-37 | ICD010S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 0.831J | 1 | 12.8 | 1.15 | 0.573 | 04/24/1221:33 | 04/23/1211:11 | AD31-44 | AD31-37 | ICD010S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | 1.26 | 1 | 12.1 | 1.14 | 0.569 | 04/24/1221:49 | 04/23/1211:11 | AD31-45 | AD31-37 | ICD010S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 0.692J | 1 | 12.6 | 1.14 | 0.572 | 04/24/1222:05 | 04/23/1211:11 | AD31-46 | AD31-37 | ICD010S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 1.15 | 0.575 | 04/24/1222:21 | 04/23/1211:11 | AD31-47 | AD31-37 | ICD010S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 1.12 | 0.561 | 04/24/1223:26 | 04/23/1211:11 | AD31-51 | AD31-49 | ICD010S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 1.15 | 0.573 | 04/24/1223:42 | 04/23/1211:11 | AD31-52 | AD31-49 | ICD010S | 04/18/1211:20 | 04/18/12 |

DUP-10-NBZ-QC-041612

EZ
6/07/13

1827

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD018SB | ND | 1 | NA | 20.0 | 10.0 | 04/23/1221:48 | 04/23/1211:30 | JD23031 | JD23030 | PCD018S | NA | 04/23/12 |
| LCS1S | PCD018SL | 241 | 1 | NA | 20.0 | 10.0 | 04/23/1222:30 | 04/23/1211:30 | JD23033 | JD23030 | PCD018S | NA | 04/23/12 |
| LCD1S | PCD018SC | 243 | 1 | NA | 20.0 | 10.0 | 04/23/1222:51 | 04/23/1211:30 | JD23034 | JD23030 | PCD018S | NA | 04/23/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 21.1 | 10.6 | 04/23/1223:12 | 04/23/1211:30 | JD23035 | JD23030 | PCD018S | 04/18/1209:55 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | ND | 1 | 12.8 | 22.9 | 11.5 | 04/23/1223:54 | 04/23/1211:30 | JD23037 | JD23030 | PCD018S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1 | 12.1 | 22.8 | 11.4 | 04/24/1200:15 | 04/23/1211:30 | JD23038 | JD23030 | PCD018S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | ND | 1 | 12.6 | 22.9 | 11.4 | 04/24/1200:36 | 04/23/1211:30 | JD23039 | JD23030 | PCD018S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 23.0 | 11.5 | 04/24/1201:39 | 04/23/1211:30 | JD23042 | JD23041 | PCD018S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 22.4 | 11.2 | 04/24/1202:00 | 04/23/1211:30 | JD23043 | JD23041 | PCD018S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 22.9 | 11.5 | 04/24/1202:21 | 04/23/1211:30 | JD23044 | JD23041 | PCD018S | 04/18/1211:20 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 5 | 16.0 | 119 | 59.5 | 04/24/1210:44 | 04/23/1211:30 | JD23064 | JD23062 | PCD018S | 04/18/1210:00 | 04/18/12 |

DUP-10-NBZ-QC-041612

CZ
6/17/13

Ch2 1

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD012SB | ND | 1 | NA | 1.00 | 0.500 | 04/25/1215:02 | 04/24/1216:57 | ID25003 | ID25001 | HCD012S | NA | 04/24/12 |
| MBLK1S | HCD012SQ | ND | 1 | NA | 1.00 | 0.500 | 04/25/1215:13 | 04/24/1216:57 | ID25004 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS1S | CID012SL | 337 | 20 | NA | 20.0 | 10.0 | 04/25/1215:44 | 04/24/1216:57 | ID25007 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS1S | CID012SX | 341 | 20 | NA | 20.0 | 10.0 | 04/25/1215:55 | 04/24/1216:57 | ID25008 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS2S | CSD012SL | 8.77 | 1 | NA | 1.00 | 0.500 | 04/25/1219:18 | 04/24/1216:57 | ID25023 | ID25013 | HCD012S | NA | 04/24/12 |
| LCS2S | CSD012SX | 8.57 | 1 | NA | 1.00 | 0.500 | 04/25/1219:28 | 04/24/1216:57 | ID25024 | ID25013 | HCD012S | NA | 04/24/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M | 9.82 | 1 | 5.3 | 1.06 | 0.528 | 04/25/1216:33 | 04/24/1216:57 | ID25009 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M1 | 9.75 | 1 | 5.3 | 1.06 | 0.528 | 04/25/1216:44 | 04/24/1216:57 | ID25010 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02G | 470 | 20 | 5.3 | 21.1 | 10.6 | 04/25/1216:54 | 04/24/1216:57 | ID25011 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02G1 | 495 | 20 | 5.3 | 21.1 | 10.6 | 04/25/1217:05 | 04/24/1216:57 | ID25012 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1217:54 | 04/24/1216:57 | ID25015 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02R | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:04 | 04/24/1216:57 | ID25016 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DUP | D166-02D | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:14 | 04/24/1216:57 | ID25017 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DUP | D166-02Z | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:25 | 04/24/1216:57 | ID25018 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 1 | 16.0 | 1.19 | 0.595 | 04/25/1220:30 | 04/24/1216:57 | ID25029 | ID25025 | HCD012S | 04/18/1210:00 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03R | ND | 1 | 16.0 | 1.19 | 0.595 | 04/25/1220:41 | 04/24/1216:57 | ID25030 | ID25025 | HCD012S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | ND | 1 | 12.8 | 1.15 | 0.573 | 04/25/1220:51 | 04/24/1216:57 | ID25031 | ID25025 | HCD012S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04R | ND | 1 | 12.8 | 1.15 | 0.573 | 04/25/1221:02 | 04/24/1216:57 | ID25032 | ID25025 | HCD012S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1 | 12.1 | 1.14 | 0.569 | 04/25/1221:12 | 04/24/1216:57 | ID25033 | ID25025 | HCD012S | 04/18/1210:57 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06R | ND | 1 | 12.1 | 1.14 | 0.569 | 04/25/1221:22 | 04/24/1216:57 | ID25034 | ID25025 | HCD012S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | ND | 1 | 12.6 | 1.14 | 0.572 | 04/25/1221:33 | 04/24/1216:57 | ID25035 | ID25025 | HCD012S | 04/18/1214:06 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07R | ND | 1 | 12.6 | 1.14 | 0.572 | 04/25/1221:43 | 04/24/1216:57 | ID25036 | ID25025 | HCD012S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 1.15 | 0.575 | 04/25/1222:25 | 04/24/1216:57 | ID25039 | ID25037 | HCD012S | 04/18/1215:40 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08R | ND | 1 | 13.0 | 1.15 | 0.575 | 04/25/1222:35 | 04/24/1216:57 | ID25040 | ID25037 | HCD012S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 1.12 | 0.561 | 04/25/1222:46 | 04/24/1216:57 | ID25041 | ID25037 | HCD012S | 04/18/1214:25 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09R | ND | 1 | 10.8 | 1.12 | 0.561 | 04/25/1222:56 | 04/24/1216:57 | ID25042 | ID25037 | HCD012S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 1.15 | 0.573 | 04/25/1223:06 | 04/24/1216:57 | ID25043 | ID25037 | HCD012S | 04/18/1211:20 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10R | ND | 1 | 12.7 | 1.15 | 0.573 | 04/25/1223:17 | 04/24/1216:57 | ID25044 | ID25037 | HCD012S | 04/18/1211:20 | 04/18/12 |

DUP-10-NBZ-QC-041612

CZ
6/7/13

0659

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | 6.55 | 1 | NA | NA | NA | 04/19/1217:45 | 04/19/1217:32 | 12PHD021S08 | PHD021S | PHD021S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | 6.50 | 1 | NA | NA | NA | 04/19/1217:46 | 04/19/1217:32 | 12PHD021S09 | PHD021S | PHD021S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 6.52 | 1 | NA | NA | NA | 04/19/1217:47 | 04/19/1217:32 | 12PHD021S10 | PHD021S | PHD021S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | 6.72 | 1 | NA | NA | NA | 04/19/1217:52 | 04/19/1217:32 | 12PHD021S11 | PHD021S | PHD021S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 6.95 | 1 | NA | NA | NA | 04/19/1217:54 | 04/19/1217:32 | 12PHD021S12 | PHD021S | PHD021S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | 7.19 | 1 | NA | NA | NA | 04/19/1217:55 | 04/19/1217:32 | 12PHD021S13 | PHD021S | PHD021S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | 6.25 | 1 | NA | NA | NA | 04/19/1217:57 | 04/19/1217:32 | 12PHD021S14 | PHD021S | PHD021S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | 6.71 | 1 | NA | NA | NA | 04/19/1217:59 | 04/19/1217:32 | 12PHD021S15 | PHD021S | PHD021S | 04/18/1211:20 | 04/18/12 |

DUP-10-NBZ-QC-041612

CZ
6/17/13

GZT

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/1211:53 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 16:52 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: REL068 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 10.4 |
| Calib. Ref.: RDL204 | Instrument ID : T-0E9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 740 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 789 | 1116 | 70.7 | 35-130 |
| 2-FLUOROBIPHENYL | 237 | 372.0 | 63.7 | 45-130 |
| 2-FLUOROPHENOL | 597 | 1116 | 53.5 | 25-130 |
| NITROBENZENE-D5 | 184 | 372.0 | 49.5 | 40-130 |
| PHENOL-D5 | 633 | 1116 | 56.7 | 25-120 |
| TERPHENYL-D14 | 388 | 372.0 | 104 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 16:52 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: REL068 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 10.4 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | 1.4J | 1.9 | 0.95 |
| BENZO(A)PYRENE | ND | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.95 |
| CHRYSENE | ND | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | ND | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.95 |
| NAPHTHALENE | ND | 1.9 | 0.95 |
| PHENANTHRENE | ND | 1.9 | 0.95 |
| PYRENE | ND | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 13J | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | 9.4J | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 180 | 372.0 | 48.5 | 40-130 |
| 2-FLUOROBIPHENYL | 211 | 372.0 | 56.7 | 45-130 |
| TERPHENYL-D14 | 372 | 372.0 | 99.9 | 45-135 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 13:40 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 17:06 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: MD26019A | Matrix : SOIL |
| Ext Btch ID: CPD042S | % Moisture : 10.4 |
| Calib. Ref.: MD26008A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | | RL (ug/kg) | MDL (ug/kg) | |
|---|---|---|---|---|---|
| ALPHA-BHC | 0.59 | (ND) | 0.19 | 0.095 | 0.095 |
| GAMMA-BHC (LINDANE) | (ND) | ND | 0.19 | 0.095 | 0.095 |
| BETA-BHC | (ND) | ND | 0.19 | 0.095 | 0.095 |
| HEPTACHLOR | (ND) | ND | 0.19 | 0.095 | 0.095 |
| DELTA-BHC | (ND) | ND | 0.19 | 0.095 | 0.095 |
| ALDRIN | (ND) | 0.46 | 0.19 | 0.095 | 0.095 |
| HEPTACHLOR EPOXIDE | 0.32 | (ND) | 0.19 | 0.095 | 0.095 |
| ENDOSULFAN I | (ND) | 0.12J | 0.19 | 0.095 | 0.095 |
| 4,4'-DDE | 0.42 | (0.92) | 0.38 | 0.19 | 0.19 |
| DIELDRIN | 0.28J | (ND) | 0.38 | 0.19 | 0.19 |
| ENDRIN | (ND) | 0.40 | 0.38 | 0.19 | 0.19 |
| 4,4'-DDD | (ND) | 1.1 | 0.38 | 0.19 | 0.19 |
| ENDOSULFAN II | (ND) | ND | 0.38 | 0.19 | 0.19 |
| 4,4'-DDT | (0.35J) | 0.60 | 0.38 | 0.19 | 0.19 |
| ENDRIN ALDEHYDE | (ND) | 0.21J | 0.38 | 0.19 | 0.19 |
| ENDOSULFAN SULFATE | 0.50 | (ND) | 0.38 | 0.19 | 0.19 |
| ENDRIN KETONE | 3.4 | (ND) | 0.38 | 0.19 | 0.19 |
| METHOXYCHLOR | 14 | (ND) | 1.9 | 0.95 | 0.95 |
| MIREX | (ND) | ND | 0.38 | 0.19 | 0.19 |
| TOXAPHENE | (ND) | ND | 7.4 | 3.7 | 3.7 |
| CHLORDANE (TECHNICAL) | (ND) | ND | 3.8 | 1.9 | 1.9 |

| SURROGATE PARAMETERS | RESULTS | | SPK_AMT | % RECOVERY | | QC LIMIT |
|---|---|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.923 | (6.211) | 5.952 | 82.7 | (104) | 50-130 |
| DECACHLOROBIPHENYL | (4.740) | 4.594 | 5.952 | (79.6) | 77.2 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8082

PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/12 17:21 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/11/12 15:10 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: KE11009A | Matrix : SOIL |
| Ext Btch ID: CPD058S | % Moisture : 10.4 |
| Calib. Ref.: KE11003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1221 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1232 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1242 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1248 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1254 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1260 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1262 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1268 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 5432 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| AROCLOR 5442 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| AROCLOR 5460 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.764) \| 5.451 | 5.952 | (114) \| 91.6 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.225) \| 4.756 | 5.952 | (105) \| 79.9 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 17:20 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/23/12 18:13 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: WD23015A | Matrix : SOIL |
| Ext Btch ID: HED011S | % Moisture : 10.4 |
| Calib. Ref.: WD23002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 4.0 | 2.0 \| 2.0 |
| 2,4-DB | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| 2,4,5-T | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| 2,4,5-TP(SILVEX) | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| DALAPON | (ND) \| ND | 10 | 5.0 \| 5.0 |
| DICAMBA | (ND) \| ND | 1.3 | 0.67 \| 0.67 |
| DICHLOROPROP | (ND) \| ND | 2.7 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| MCPA | (ND) \| ND | 280 | 140 \| 140 |
| MCPP | (ND) \| ND | 280 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (168.7) \| 119.7 | 167.4 | (101) \| 71.5 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 04/16/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 04/16/12 |
| SDG NO. | : 12D146 | Date Extracted: | 04/24/12 10:33 |
| Sample ID: | SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: | 05/03/12 19:39 |
| Lab Samp ID: | D146-03 | Dilution Factor: | 1.00 |
| Lab File ID: | 98E03110 | Matrix : | SOIL |
| Ext Btch ID: | IMD035S | % Moisture : | 10.4 |
| Calib. Ref.: | 98E03106 | Instrument ID : | T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9850 | 26.8 | 13.4 |
| Antimony | 0.123J | 0.223 | 0.112 |
| Arsenic | 4.36 | 0.446 | 0.223 |
| Barium | 51.9 | 0.446 | 0.223 |
| Beryllium | 0.424 | 0.112 | 0.0558 |
| Boron | ND | 5.58 | 2.79 |
| Cadmium | 0.167 | 0.112 | 0.0558 |
| Calcium | 2340 | 22.3 | 11.2 |
| Chromium | 10.4 | 0.446 | 0.223 |
| Cobalt | 4.59 | 0.112 | 0.0558 |
| Copper | 6.03 | 0.446 | 0.223 |
| Iron | 19300 | 22.3 | 11.2 |
| Lead | 7.04 | 0.223 | 0.112 |
| Magnesium | 4150 | 11.2 | 5.58 |
| Manganese | 254 | 0.558 | 0.279 |
| Molybdenum | 0.352 | 0.112 | 0.0558 |
| Nickel | 6.55 | 0.446 | 0.223 |
| Potassium | 2460 | 67.0 | 33.5 |
| Selenium | 0.687 | 0.446 | 0.223 |
| Silver | ND | 0.112 | 0.0558 |
| Sodium | 57.0J | 112 | 55.8 |
| Strontium | 9.24 | 0.558 | 0.279 |
| Thallium | 0.224 | 0.112 | 0.0558 |
| Tin | ND | 11.2 | 5.58 |
| Titanium | 780 | 1.12 | 0.558 |
| Vanadium | 23.4 | 0.112 | 0.0558 |
| Zinc | 57.1 | 3.35 | 1.67 |
| Lithium | 28.2 | 2.23 | 1.12 |
| Phosphorus | 326 | 13.4 | 6.70 |
| Zirconium | ND | 5.58 | 2.79 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD024SB | ND | 1 | NA | 0.100 | 0.0500 | 04/24/1217:02 | 04/24/1213:00 | M47D017010 | M47D017008 | HGD024S | NA | 04/24/12 |
| LCS1S | HGD024SL | 0.848 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:04 | 04/24/1213:00 | M47D017011 | M47D017008 | HGD024S | NA | 04/24/12 |
| LCD1S | HGD024SC | 0.843 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:06 | 04/24/1213:00 | M47D017012 | M47D017008 | HGD024S | NA | 04/24/12 |
| SL-173-NBZ-SS-0.0-0.5AS | D146-05A | 1.04 | 0.993 | 17.4 | 0.120 | 0.0601 | 04/24/1217:08 | 04/24/1213:00 | M47D017013 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | ND | 0.993 | 17.4 | 0.120 | 0.0601 | 04/24/1217:10 | 04/24/1213:00 | M47D017014 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5DL | D146-05J | ND | 4.97 | 17.4 | 0.602 | 0.301 | 04/24/1217:12 | 04/24/1213:00 | M47D017015 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M | 1.08 | 0.995 | 17.4 | 0.120 | 0.0602 | 04/24/1217:14 | 04/24/1213:00 | M47D017016 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S | 1.07 | 0.995 | 17.4 | 0.120 | 0.0602 | 04/24/1217:16 | 04/24/1213:00 | M47D017017 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | ND | 1.01 | 32.4 | 0.149 | 0.0747 | 04/24/1217:19 | 04/24/1213:00 | M47D017018 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | ND | 0.990 | 12.5 | 0.113 | 0.0566 | 04/24/1217:21 | 04/24/1213:00 | M47D017019 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | ND | 0.993 | 10.4 | 0.111 | 0.0554 | 04/24/1217:28 | 04/24/1213:00 | M47D017022 | M47D017020 | HGD024S | 04/16/12 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | ND | 0.998 | 16.3 | 0.119 | 0.0596 | 04/24/1217:30 | 04/24/1213:00 | M47D017023 | M47D017020 | HGD024S | 04/16/12 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | ND | 0.990 | 16.1 | 0.118 | 0.0590 | 04/24/1217:32 | 04/24/1213:00 | M47D017024 | M47D017020 | HGD024S | 04/16/12 | 04/16/12 |

Ehs

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : DO

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD009SB | ND | 1 | NA | 1.00 | 0.500 | 04/20/1211:52 | 04/19/1210:17 | AD27-06 | AD27-04 | ICD009S | NA | 04/19/12 |
| LCS1S | ICD009SL | 6.26 | 1 | NA | 1.00 | 0.500 | 04/20/1212:08 | 04/19/1210:17 | AD27-07 | AD27-04 | ICD009S | NA | 04/19/12 |
| LCD1S | ICD009SC | 6.24 | 1 | NA | 1.00 | 0.500 | 04/20/1212:24 | 04/19/1210:17 | AD27-08 | AD27-04 | ICD009S | NA | 04/19/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | 0.829J | 1 | 32.4 | 1.48 | 0.740 | 04/20/1213:12 | 04/19/1210:17 | AD27-11 | AD27-04 | ICD009S | 04/16/1210:07 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | ND | 1 | 12.5 | 1.14 | 0.571 | 04/20/1213:29 | 04/19/1210:17 | AD27-12 | AD27-04 | ICD009S | 04/16/1211:01 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | ND | 1 | 10.4 | 1.12 | 0.558 | 04/20/1213:45 | 04/19/1210:17 | AD27-13 | AD27-04 | ICD009S | 04/16/1214:40 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | ND | 1 | 16.3 | 1.19 | 0.597 | 04/20/1214:01 | 04/19/1210:17 | AD27-14 | AD27-04 | ICD009S | 04/16/1211:35 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | ND | 1 | 16.1 | 1.19 | 0.596 | 04/20/1214:17 | 04/19/1210:17 | AD27-15 | AD27-04 | ICD009S | 04/16/1215:23 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | ND | 1 | 17.4 | 1.21 | 0.605 | 04/20/1215:06 | 04/19/1210:17 | AD27-18 | AD27-16 | ICD009S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M | 8.15 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1215:22 | 04/19/1210:17 | AD27-19 | AD27-16 | ICD009S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S | 8.27 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1215:38 | 04/19/1210:17 | AD27-20 | AD27-16 | ICD009S | 04/16/1215:18 | 04/16/12 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD016SB | ND | 1 | NA | 20.0 | 10.0 | 04/23/1211:26 | 04/19/1210:30 | JD23002 | JD23001 | PCD016S | NA | 04/19/12 |
| LCS1S | PCD016SL | 252 | 1 | NA | 20.0 | 10.0 | 04/23/1212:08 | 04/19/1210:30 | JD23004 | JD23001 | PCD016S | NA | 04/19/12 |
| LCD1S | PCD016SC | 243 | 1 | NA | 20.0 | 10.0 | 04/23/1212:29 | 04/19/1210:30 | JD23005 | JD23001 | PCD016S | NA | 04/19/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | ND | 1 | 32.4 | 29.6 | 14.8 | 04/23/1213:36 | 04/19/1210:30 | JD23008 | JD23001 | PCD016S | 04/16/1210:07 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | ND | 1 | 12.5 | 22.9 | 11.4 | 04/23/1213:57 | 04/19/1210:30 | JD23009 | JD23001 | PCD016S | 04/16/1211:01 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | ND | 1 | 10.4 | 22.3 | 11.2 | 04/23/1214:18 | 04/19/1210:30 | JD23010 | JD23001 | PCD016S | 04/16/1214:40 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | ND | 1 | 16.3 | 23.9 | 11.9 | 04/23/1215:21 | 04/19/1210:30 | JD23013 | JD23012 | PCD016S | 04/16/1211:35 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | ND | 1 | 17.4 | 24.2 | 12.1 | 04/23/1215:42 | 04/19/1210:30 | JD23014 | JD23012 | PCD016S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M | 300 | 1 | 17.4 | 24.2 | 12.1 | 04/23/1216:03 | 04/19/1210:30 | JD23015 | JD23012 | PCD016S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S | 301 | 1 | 17.4 | 24.2 | 12.1 | 04/23/1216:24 | 04/19/1210:30 | JD23016 | JD23012 | PCD016S | 04/16/1215:18 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | ND | 1 | 16.1 | 23.8 | 11.9 | 04/23/1216:46 | 04/19/1210:30 | JD23017 | JD23012 | PCD016S | 04/16/1215:23 | 04/16/12 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD010SB | ND | 1 | NA | 1.00 | 0.500 | 04/20/1217:40 | 04/18/1215:06 | ID21013 | ID21011 | HCD010S | NA | 04/18/12 |
| MBLK1S | HCD010SQ | ND | 1 | NA | 1.00 | 0.500 | 04/20/1217:50 | 04/18/1215:06 | ID21014 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS1S | CSD010SL | 9.63 | 1 | NA | 1.00 | 0.500 | 04/20/1218:00 | 04/18/1215:06 | ID21015 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS1S | CSD010SX | 11.5 | 1 | NA | 1.00 | 0.500 | 04/20/1218:11 | 04/18/1215:06 | ID21016 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS2S | CID010SL | 467 | 25 | NA | 25.0 | 12.5 | 04/20/1218:21 | 04/18/1215:06 | ID21017 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS2S | CID010SX | 465 | 25 | NA | 25.0 | 12.5 | 04/20/1218:32 | 04/18/1215:06 | ID21018 | ID21011 | HCD010S | NA | 04/18/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M | 11.0 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1218:42 | 04/18/1215:06 | ID21019 | ID21011 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M1 | 12.3 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1218:52 | 04/18/1215:06 | ID21020 | ID21011 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S | 10.9 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1219:03 | 04/18/1215:06 | ID21021 | ID21011 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S1 | 11.3 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1219:13 | 04/18/1215:06 | ID21022 | ID21011 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | ND | 1 | 17.4 | 1.21 | 0.605 | 04/20/1220:36 | 04/18/1215:06 | ID21029 | ID21023 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05R | ND | 1 | 17.4 | 1.21 | 0.605 | 04/20/1220:47 | 04/18/1215:06 | ID21030 | ID21023 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | ND | 1 | 32.4 | 1.48 | 0.740 | 04/20/1222:10 | 04/18/1215:06 | ID21037 | ID21035 | HCD010S | 04/16/1210:07 | 04/16/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01R | ND | 1 | 32.4 | 1.48 | 0.740 | 04/20/1222:21 | 04/18/1215:06 | ID21038 | ID21035 | HCD010S | 04/16/1210:07 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | ND | 1 | 12.5 | 1.14 | 0.571 | 04/20/1222:31 | 04/18/1215:06 | ID21039 | ID21035 | HCD010S | 04/16/1211:01 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02R | ND | 1 | 12.5 | 1.14 | 0.571 | 04/20/1222:41 | 04/18/1215:06 | ID21040 | ID21035 | HCD010S | 04/16/1211:01 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | ND | 1 | 10.4 | 1.12 | 0.558 | 04/20/1222:52 | 04/18/1215:06 | ID21041 | ID21035 | HCD010S | 04/16/1214:40 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03R | ND | 1 | 10.4 | 1.12 | 0.558 | 04/20/1223:02 | 04/18/1215:06 | ID21042 | ID21035 | HCD010S | 04/16/1214:40 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | ND | 1 | 16.3 | 1.19 | 0.597 | 04/20/1223:13 | 04/18/1215:06 | ID21043 | ID21035 | HCD010S | 04/16/1211:35 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04R | ND | 1 | 16.3 | 1.19 | 0.597 | 04/20/1223:23 | 04/18/1215:06 | ID21044 | ID21035 | HCD010S | 04/16/1211:35 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | ND | 1 | 16.1 | 1.19 | 0.596 | 04/20/1223:33 | 04/18/1215:06 | ID21045 | ID21035 | HCD010S | 04/16/1215:23 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06R | ND | 1 | 16.1 | 1.19 | 0.596 | 04/20/1223:44 | 04/18/1215:06 | ID21046 | ID21035 | HCD010S | 04/16/1215:23 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05G | 107 | 5 | 17.4 | 6.05 | 3.03 | 04/23/1221:09 | 04/18/1215:06 | ID23009 | ID23001 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05G1 | 105 | 5 | 17.4 | 6.05 | 3.03 | 04/23/1221:19 | 04/18/1215:06 | ID23010 | ID23001 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05H | 107 | 5 | 17.4 | 6.05 | 3.03 | 04/23/1221:29 | 04/18/1215:06 | ID23011 | ID23001 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05H1 | 109 | 5 | 17.4 | 6.05 | 3.03 | 04/23/1221:40 | 04/18/1215:06 | ID23012 | ID23001 | HCD010S | 04/16/1215:18 | 04/16/12 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | 6.92 | 1 | NA | NA | NA | 04/17/1213:02 | 04/17/1213:02 | 12PHD015S01 | PHD015S | PHD015S | 04/16/1210:07 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | 6.12 | 1 | NA | NA | NA | 04/17/1213:04 | 04/17/1213:02 | 12PHD015S02 | PHD015S | PHD015S | 04/16/1211:01 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | 6.36 | 1 | NA | NA | NA | 04/17/1213:07 | 04/17/1213:02 | 12PHD015S03 | PHD015S | PHD015S | 04/16/1214:40 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | 6.24 | 1 | NA | NA | NA | 04/17/1213:14 | 04/17/1213:02 | 12PHD015S04 | PHD015S | PHD015S | 04/16/1211:35 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | 6.82 | 1 | NA | NA | NA | 04/17/1213:16 | 04/17/1213:02 | 12PHD015S05 | PHD015S | PHD015S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5DUP | D146-05D | 6.83 | 1 | NA | NA | NA | 04/17/1213:17 | 04/17/1213:02 | 12PHD015S06 | PHD015S | PHD015S | 04/16/1215:18 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | 6.55 | 1 | NA | NA | NA | 04/17/1213:19 | 04/17/1213:02 | 12PHD015S07 | PHD015S | PHD015S | 04/16/1215:23 | 04/16/12 |

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

April 30, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/13/2012
Group Number: 1302051
SDG: DX169
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-144-NBZ-SS-0.0-0.5 Soil | 6615684 |
| SL-152-NBZ-SS-0.0-0.5 Soil | 6615685 |
| EB-NBZ-SS-041212 Water | 6615686 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

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Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

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# Analysis Report



**Sample Description:** SL-144-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-NBZ-SS

**LLI Sample # SW 6615684**
**LLI Group # 1302051**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 09:22

Submitted: 04/13/2012 09:30
Reported: 04/30/2012 13:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6901 SDG#: DX169-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 12.0 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-144-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-NBZ-SS

**LLI Sample # SW 6615684**
**LLI Group # 1302051**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 09:22

Submitted: 04/13/2012 09:30
Reported: 04/30/2012 13:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6901 SDG#: DX169-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0328 U | 0.0328 | 1.13 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0618 JB | 0.0298 | 5.64 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0419 JB | 0.0309 | 5.64 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.229 JB | 0.0324 | 5.64 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.297 JB | 0.0319 | 5.64 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.09 JB | 0.0274 | 5.64 | 1 |
| 11031 | OCDD | 3268-87-9 | 4.92 JB | 0.0228 | 11.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0817 JB | 0.0422 | 1.13 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.234 JB | 0.0267 | 5.64 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.250 JB | 0.0272 | 5.64 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.138 JB | 0.0270 | 5.64 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.153 JB | 0.0247 | 5.64 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.297 JB | 0.0293 | 5.64 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.120 JB | 0.0260 | 5.64 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.328 JB | 0.0138 | 5.64 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0684 JB | 0.0214 | 5.64 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.462 JB | 0.0215 | 11.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 72 | 25 - 164 |
| 13C12-12378-PeCDD | 82 | 25 - 181 |
| 13C12-123478-HxCDD | 77 | 32 - 141 |
| 13C12-123678-HxCDD | 78 | 28 - 130 |
| 13C12-123789-HxCDD | 76 | 28 - 130 |
| 13C12-1234678-HpCDD | 78 | 23 - 140 |
| 13C12-OCDD | 77 | 17 - 157 |
| 13C12-2378-TCDF | 64 | 24 - 169 |
| 13C12-12378-PeCDF | 81 | 24 - 185 |
| 13C12-23478-PeCDF | 76 | 21 - 178 |
| 13C12-123478-HxCDF | 72 | 26 - 152 |
| 13C12-123678-HxCDF | 76 | 26 - 123 |
| 13C12-234678-HxCDF | 74 | 28 - 136 |
| 13C12-123789-HxCDF | 69 | 29 - 147 |
| 13C12-1234678-HpCDF | 95 | 28 - 143 |
| 13C12-1234789-HpCDF | 66 | 26 - 138 |
| 13C12-OCDF | 62 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-144-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-NBZ-SS

**LLI Sample # SW 6615684**
**LLI Group # 1302051**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 09:22

Submitted: 04/13/2012 09:30
Reported: 04/30/2012 13:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6901 SDG#: DX169-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-144-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-NBZ-SS

**LLI Sample # SW 6615684**
**LLI Group # 1302051**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 09:22

Submitted: 04/13/2012 09:30
Reported: 04/30/2012 13:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6901 SDG#: DX169-01

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12111004 | 04/23/2012 20:35 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12111004 | 04/20/2012 12:45 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-152-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-NBZ-SS

**LLI Sample # SW 6615685**
**LLI Group # 1302051**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 09:55

Submitted: 04/13/2012 09:30
Reported: 04/30/2012 13:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6902 SDG#: DX169-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 15.9 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-152-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-NBZ-SS

**LLI Sample # SW 6615685**
**LLI Group # 1302051**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 09:55

Submitted: 04/13/2012 09:30
Reported: 04/30/2012 13:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6902 SDG#: DX169-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0428 | JBQ | 0.0335 | 1.15 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.202 | JB | 0.0340 | 5.74 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.169 | JB | 0.0417 | 5.74 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.367 | JB | 0.0389 | 5.74 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.291 | JB | 0.0404 | 5.74 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.82 | JB | 0.0277 | 5.74 | 1 |
| 11031 | OCDD | 3268-87-9 | 24.2 | B | 0.0219 | 11.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.394 | JB | 0.119 | 1.15 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.565 | JB | 0.0549 | 5.74 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 1.30 | JB | 0.0492 | 5.74 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.391 | JB | 0.0335 | 5.74 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.334 | JB | 0.0332 | 5.74 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.183 | JB | 0.0345 | 5.74 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.500 | JB | 0.0328 | 5.74 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.24 | JB | 0.0202 | 5.74 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.112 | JB | 0.0277 | 5.74 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.83 | JB | 0.0172 | 11.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 79 | 25 - 164 |
| 13C12-12378-PeCDD | 84 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 91 | 28 - 130 |
| 13C12-123789-HxCDD | 86 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 79 | 17 - 157 |
| 13C12-2378-TCDF | 74 | 24 - 169 |
| 13C12-12378-PeCDF | 81 | 24 - 185 |
| 13C12-23478-PeCDF | 80 | 21 - 178 |
| 13C12-123478-HxCDF | 78 | 26 - 152 |
| 13C12-123678-HxCDF | 80 | 26 - 123 |
| 13C12-234678-HxCDF | 76 | 28 - 136 |
| 13C12-123789-HxCDF | 78 | 29 - 147 |
| 13C12-1234678-HpCDF | 87 | 28 - 143 |
| 13C12-1234789-HpCDF | 72 | 26 - 138 |
| 13C12-OCDF | 70 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-152-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-NBZ-SS

**LLI Sample # SW 6615685**
**LLI Group # 1302051**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 09:55

Submitted: 04/13/2012 09:30
Reported: 04/30/2012 13:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6902 SDG#: DX169-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-152-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-NBZ-SS

**LLI Sample # SW 6615685**
**LLI Group # 1302051**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 09:55

Submitted: 04/13/2012 09:30
Reported: 04/30/2012 13:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6902 SDG#: DX169-02

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12111004 | 04/23/2012 21:32 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12111004 | 04/20/2012 12:45 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** EB-NBZ-SS-041212 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SS

**LLI Sample #** WW 6615686
**LLI Group #** 1302051
**Account #** 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 15:00

Submitted: 04/13/2012 09:30
Reported: 04/30/2012 13:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6903 SDG#: DX169-03EB

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | pg/l | | pg/l | pg/l | |
| 10915 | 2378-TCDD | 1746-01-6 | 0.295 | JBQ | 0.188 | 2.09 | 1 |
| 10915 | 12378-PeCDD | 40321-76-4 | 0.157 | U | 0.157 | 10.5 | 1 |
| 10915 | 123478-HxCDD | 39227-28-6 | 0.396 | JBQ | 0.127 | 10.5 | 1 |
| 10915 | 123678-HxCDD | 57653-85-7 | 0.437 | JB | 0.134 | 10.5 | 1 |
| 10915 | 123789-HxCDD | 19408-74-3 | 0.467 | JBQ | 0.128 | 10.5 | 1 |
| 10915 | 1234678-HpCDD | 35822-46-9 | 3.62 | JB | 0.178 | 10.5 | 1 |
| 10915 | OCDD | 3268-87-9 | 6.52 | JB | 0.195 | 20.9 | 1 |
| 10915 | 2378-TCDF | 51207-31-9 | 0.133 | U | 0.133 | 2.09 | 1 |
| 10915 | 12378-PeCDF | 57117-41-6 | 0.328 | JBQ | 0.116 | 10.5 | 1 |
| 10915 | 23478-PeCDF | 57117-31-4 | 0.601 | JBQ | 0.0988 | 10.5 | 1 |
| 10915 | 123478-HxCDF | 70648-26-9 | 0.465 | JBQ | 0.104 | 10.5 | 1 |
| 10915 | 123678-HxCDF | 57117-44-9 | 0.424 | JBQ | 0.101 | 10.5 | 1 |
| 10915 | 123789-HxCDF | 72918-21-9 | 0.102 | U | 0.102 | 10.5 | 1 |
| 10915 | 234678-HxCDF | 60851-34-5 | 0.536 | JB | 0.0903 | 10.5 | 1 |
| 10915 | 1234678-HpCDF | 67562-39-4 | 1.90 | JB | 0.0984 | 10.5 | 1 |
| 10915 | 1234789-HpCDF | 55673-89-7 | 0.483 | JB | 0.110 | 10.5 | 1 |
| 10915 | OCDF | 39001-02-0 | 1.70 | JB | 0.141 | 20.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 80 | 25 - 164 |
| 13C12-12378-PeCDD | 87 | 25 - 181 |
| 13C12-123478-HxCDD | 73 | 32 - 141 |
| 13C12-123678-HxCDD | 74 | 28 - 130 |
| 13C12-123789-HxCDD | 75 | 28 - 130 |
| 13C12-1234678-HpCDD | 68 | 23 - 140 |
| 13C12-OCDD | 63 | 17 - 157 |
| 13C12-2378-TCDF | 76 | 24 - 169 |
| 13C12-12378-PeCDF | 83 | 24 - 185 |
| 13C12-23478-PeCDF | 84 | 21 - 178 |
| 13C12-123478-HxCDF | 68 | 26 - 152 |
| 13C12-123678-HxCDF | 67 | 26 - 123 |
| 13C12-234678-HxCDF | 72 | 28 - 136 |
| 13C12-123789-HxCDF | 70 | 29 - 147 |
| 13C12-1234678-HpCDF | 65 | 28 - 143 |
| 13C12-1234789-HpCDF | 65 | 26 - 138 |
| 13C12-OCDF | 61 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B* *Detected in Method Blank*
*U* *Undetected*
*J* *Estimated concentration between Estimated Detection Limit and Minimum Level*
*E* *Exceeds calibration range*
*C* *Confirmed quantitation on secondary GC column*
*Q* *EMPC - Estimated Maximum Possible Concentration*
*F* *Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **EB-NBZ-SS-041212 Water**
**SSFL Area IV Collocated Soil Sampling**
**EB-NBZ-SS**

**LLI Sample # WW 6615686**
**LLI Group # 1302051**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 15:00

Submitted: 04/13/2012 09:30
Reported: 04/30/2012 13:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6903 SDG#: DX169-03EB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10915 | 10b Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12113001 | 04/25/2012 06:50 | Joseph D Anderson | 1 |
| 10914 | Dioxins/Furans in Water - SepF | EPA 1613B | 1 | 12113001 | 04/23/2012 07:15 | Ginelle L Haines | 1 |

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1302051
Reported: 04/30/12 at 01:21 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12109162401B | Sample number(s): 6615684-6615685 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12111004 | Sample number(s): 6615684-6615685 | | | | | | | | |
| 2378-TCDD | 0.0433 J | 0.0288 | 1.00 | ng/kg | 102 | | 67-158 | | |
| 12378-PeCDD | 0.0550 J | 0.0239 | 5.00 | ng/kg | 101 | | 70-142 | | |
| 123478-HxCDD | 0.0312 J | 0.0161 | 5.00 | ng/kg | 96 | | 70-164 | | |
| 123678-HxCDD | 0.0865 J | 0.0171 | 5.00 | ng/kg | 95 | | 76-134 | | |
| 123789-HxCDD | 0.0542 J | 0.0157 | 5.00 | ng/kg | 100 | | 64-162 | | |
| 1234678-HpCDD | 0.316 J | 0.0193 | 5.00 | ng/kg | 100 | | 70-140 | | |
| OCDD | 0.496 J | 0.0187 | 10.0 | ng/kg | 95 | | 78-144 | | |
| 2378-TCDF | 0.0306 J | 0.0210 | 1.00 | ng/kg | 94 | | 75-158 | | |
| 12378-PeCDF | 0.0230 J | 0.0153 | 5.00 | ng/kg | 100 | | 80-134 | | |
| 23478-PeCDF | 0.0733 J | 0.0145 | 5.00 | ng/kg | 95 | | 68-160 | | |
| 123478-HxCDF | 0.0798 J | 0.0123 | 5.00 | ng/kg | 102 | | 72-134 | | |
| 123678-HxCDF | 0.0489 J | 0.0112 | 5.00 | ng/kg | 101 | | 84-130 | | |
| 123789-HxCDF | 0.0520 J | 0.0136 | 5.00 | ng/kg | 102 | | 78-130 | | |
| 234678-HxCDF | 0.0535 J | 0.0121 | 5.00 | ng/kg | 96 | | 70-156 | | |
| 1234678-HpCDF | 0.0899 J | 0.00790 | 5.00 | ng/kg | 92 | | 82-122 | | |
| 1234789-HpCDF | 0.0485 J | 0.0134 | 5.00 | ng/kg | 99 | | 78-138 | | |
| OCDF | 0.142 J | 0.0184 | 10.0 | ng/kg | 100 | | 63-170 | | |
| Batch number: 12113001 | Sample number(s): 6615686 | | | | | | | | |
| 2378-TCDD | 0.349 J | 0.219 | 2.00 | pg/l | 108 | | 67-158 | | |
| 12378-PeCDD | 0.622 J | 0.199 | 10.0 | pg/l | 107 | | 70-142 | | |
| 123478-HxCDD | 0.409 J | 0.170 | 10.0 | pg/l | 101 | | 70-164 | | |
| 123678-HxCDD | 0.615 J | 0.179 | 10.0 | pg/l | 102 | | 76-134 | | |
| 123789-HxCDD | 0.658 J | 0.172 | 10.0 | pg/l | 109 | | 64-162 | | |
| 1234678-HpCDD | 4.68 J | 0.252 | 10.0 | pg/l | 110 | | 70-140 | | |
| OCDD | 9.98 J | 0.284 | 20.0 | pg/l | 111 | | 78-144 | | |
| 2378-TCDF | 0.320 J | 0.147 | 2.00 | pg/l | 93 | | 75-158 | | |
| 12378-PeCDF | 0.643 J | 0.149 | 10.0 | pg/l | 104 | | 80-134 | | |
| 23478-PeCDF | 0.706 J | 0.126 | 10.0 | pg/l | 97 | | 68-160 | | |
| 123478-HxCDF | 0.605 J | 0.151 | 10.0 | pg/l | 107 | | 72-134 | | |
| 123678-HxCDF | 0.621 J | 0.147 | 10.0 | pg/l | 110 | | 84-130 | | |
| 123789-HxCDF | 0.743 J | 0.140 | 10.0 | pg/l | 107 | | 78-130 | | |
| 234678-HxCDF | 0.823 J | 0.132 | 10.0 | pg/l | 102 | | 70-156 | | |
| 1234678-HpCDF | 2.74 J | 0.145 | 10.0 | pg/l | 104 | | 82-122 | | |
| 1234789-HpCDF | 0.834 J | 0.153 | 10.0 | pg/l | 108 | | 78-138 | | |
| OCDF | 2.13 J | 0.201 | 20.0 | pg/l | 112 | | 63-170 | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1302051
Reported: 04/30/12 at 01:21 PM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12109162401B | Sample number(s): 6615684-6615685 | | | | | BKG: P612355 | | | |
| Moisture Content by 160.3 | | | | | | 8.6 | 8.6 | 0 | 20 |
| Batch number: 12111004 | Sample number(s): 6615684-6615685 UNSPK: P620883 | | | | | | | | |
| 2378-TCDD | 102 | 99 | 67-158 | 2 | 25 | | | | |
| 12378-PeCDD | 102 | 102 | 70-142 | 2 | 25 | | | | |
| 123478-HxCDD | 97 | 96 | 70-164 | 1 | 25 | | | | |
| 123678-HxCDD | 96 | 97 | 76-134 | 3 | 25 | | | | |
| 123789-HxCDD | 99 | 102 | 64-162 | 4 | 25 | | | | |
| 1234678-HpCDD | 97 | 98 | 70-140 | 3 | 25 | | | | |
| OCDD | 91 | 100 | 78-144 | 10 | 25 | | | | |
| 2378-TCDF | 92 | 93 | 75-158 | 3 | 25 | | | | |
| 12378-PeCDF | 101 | 101 | 80-134 | 2 | 25 | | | | |
| 23478-PeCDF | 94 | 94 | 68-160 | 2 | 25 | | | | |
| 123478-HxCDF | 101 | 102 | 72-134 | 3 | 25 | | | | |
| 123678-HxCDF | 102 | 105 | 84-130 | 5 | 25 | | | | |
| 123789-HxCDF | 102 | 101 | 78-130 | 1 | 25 | | | | |
| 234678-HxCDF | 99 | 99 | 70-156 | 2 | 25 | | | | |
| 1234678-HpCDF | 95 | 95 | 82-122 | 2 | 25 | | | | |
| 1234789-HpCDF | 100 | 100 | 78-138 | 1 | 25 | | | | |
| OCDF | 100 | 101 | 63-170 | 3 | 25 | | | | |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12111004

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6615684 | 72 | 76 | 72 | 76 | 74 | 69 |
| 6615685 | 79 | 80 | 78 | 80 | 76 | 78 |
| Blank | 76 | 83 | 79 | 87 | 81 | 76 |
| MS | 77 | 80 | 78 | 83 | 79 | 77 |
| MSD | 84 | 83 | 79 | 83 | 80 | 85 |
| OPR | 70 | 74 | 75 | 84 | 79 | 70 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6615684 | 95 | 66 | 62 | 82 | 77 | 78 |
| 6615685 | 87 | 72 | 70 | 84 | 83 | 91 |
| Blank | 114 | 73 | 67 | 86 | 88 | 85 |
| MS | 100 | 70 | 66 | 82 | 84 | 95 |
| MSD | 104 | 75 | 72 | 85 | 84 | 83 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1302051
Reported: 04/30/12 at 01:21 PM

## Surrogate Quality Control

| | | | | | | |
|---|---|---|---|---|---|---|
| OPR | 112 | 68 | 61 | 79 | 83 | 83 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |
| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF | |
| 6615684 | 76 | 78 | 77 | 64 | 81 | |
| 6615685 | 86 | 82 | 79 | 74 | 81 | |
| Blank | 87 | 90 | 91 | 72 | 88 | |
| MS | 92 | 86 | 84 | 73 | 84 | |
| MSD | 84 | 89 | 89 | 74 | 86 | |
| OPR | 86 | 87 | 86 | 63 | 79 | |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 | |

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 12113001

| | | | | | | |
|---|---|---|---|---|---|---|
| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
| 6615686 | 80 | 84 | 68 | 67 | 72 | 70 |
| Blank | 67 | 69 | 53 | 54 | 56 | 57 |
| OPR | 58 | 61 | 53 | 52 | 56 | 55 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |
| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
| 6615686 | 65 | 65 | 61 | 87 | 73 | 74 |
| Blank | 47 | 47 | 40 | 68 | 57 | 55 |
| OPR | 50 | 50 | 45 | 61 | 56 | 54 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |
| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF | |
| 6615686 | 75 | 68 | 63 | 76 | 83 | |
| Blank | 55 | 50 | 43 | 66 | 66 | |
| OPR | 55 | 53 | 47 | 59 | 60 | |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Acct#13013 Cap#1302051 Sample#66156B4-86

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSES | SECONDARY ANALYSES | | | Other instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C.<br>Samplers Signatures: | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-188-NBZ-SS-0.0-0.5 | 4/10/12 | 1441 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-177-NBZ-SS-0.0-0.5 | 4/10/12 | 1510 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-085-NBZ-SS-0.0-0.5 | 4/10/12 | 1402 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-004-NBZ-SS-0.0-0.5 | 4/11/12 | 0912 | SOIL | NONE | 1-16 oz Jar | X | | | | |
| SL-145-NBZ-SS-0.0-0.5 | 4/11/12 | 1435 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-148-NBZ-SS-0.0-0.5 | 4/11/12 | 1403 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-154-NBZ-SS-0.0-0.5 | 4/11/12 | 1006 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-163-NBZ-SS-0.0-0.5 | 4/11/12 | 1323 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-168-NBZ-SS-0.0-0.5 | 4/11/12 | 0938 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-176-NBZ-SS-0.0-0.5 | 4/11/12 | 1348 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-182-NBZ-SS-0.0-0.5 | 4/11/12 | 1041 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-011-NBZ-SS-0.0-0.5 | 4.12.12 | 1122 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-144-NBZ-SS-0.0-0.5 | 4.12.12 | 0922 | SOIL | NONE | 1-4 0z Jar | X | | | | |
| SL-152-NBZ-SS-0.0-0.5 | 4.12.12 | 0955 | SOIL | NONE | 1-4 0z Jar | X | | | | |
| EB-NBZ-SS-041212 | 4.12.12 | 1500 | WATER | NONE | 4-1 L Ambers | X | | X | X | |
| EB-NBZ-SS-041212 | 4.12.12 | 1500 | WATER | NONE | 1-250 mL glass | | X | | | |
| Relinquished by: (*Signature*) | Date/Time<br>4/12/2012 / 1630 | | Received for Laboratory by: (*Signature*)<br>Brigitta Lehman 4/13/12 0930 | | | | | | | Laboratory: LLI<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s) | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

May 03, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/18/2012
Group Number: 1303087
SDG: DX169
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-013-NBZ-SS-0.0-0.5 Soil | 6620879 |
| SL-159-NBZ-SS-0.0-0.5 Soil | 6620880 |
| SL-160-NBZ-SS-0.0-0.5 Soil | 6620881 |
| SL-164-NBZ-SS-0.0-0.5 Soil | 6620882 |
| SL-173-NBZ-SS-0.0-0.5 Soil | 6620883 |
| SL-173-NBZ-SS-0.0-0.5 MS Soil | 6620884 |
| SL-173-NBZ-SS-0.0-0.5 MSD Soil | 6620885 |
| DUP-08-NBZ-QC-041612 Soil | 6620886 |
| SL-014-NBZ-SS-0.0-0.5 Soil | 6620887 |
| SL-088-NBZ-SS-0.0-0.5 Soil | 6620888 |
| SL-156-NBZ-SS-0.0-0.5 Soil | 6620889 |
| SL-161-NBZ-SS-0.0-0.5 Soil | 6620890 |
| SL-162-NBZ-SS-0.0-0.5 Soil | 6620891 |
| SL-166-NBZ-SS-0.0-0.5 Soil | 6620892 |
| EB-NBZ-SB-041712 Water | 6620893 |
| EB-NBZ-SS-041712 Water | 6620894 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC | CDM Federal Services Program | Attn: Todd Burgesser |
| COPY TO | | |
| ELECTRONIC | Data Package Group | |

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COPY TO

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-013-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-NBZ-SS

**LLI Sample # SW 6620879**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 10:07

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6904 SDG#: DX169-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 32.8 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-013-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-NBZ-SS

**LLI Sample # SW 6620879**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 10:07

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6904 SDG#: DX169-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0475 | JB | 0.0357 | 1.42 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.235 | JB | 0.0412 | 7.09 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.271 | JB | 0.0552 | 7.09 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.725 | JB | 0.0533 | 7.09 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.590 | JB | 0.0472 | 7.09 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 13.0 | B | 0.0417 | 7.09 | 1 |
| 11031 | OCDD | 3268-87-9 | 112 | B | 0.0278 | 14.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.395 | JB | 0.107 | 1.42 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.744 | JB | 0.0592 | 7.09 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.883 | JB | 0.0560 | 7.09 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.646 | JB | 0.0403 | 7.09 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.351 | JB | 0.0396 | 7.09 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.301 | JB | 0.0374 | 7.09 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.394 | JB | 0.0384 | 7.09 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 2.16 | JB | 0.0299 | 7.09 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.270 | JB | 0.0342 | 7.09 | 1 |
| 11031 | OCDF | 39001-02-0 | 3.89 | JB | 0.0238 | 14.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 85 | 25 - 164 |
| 13C12-12378-PeCDD | 86 | 25 - 181 |
| 13C12-123478-HxCDD | 76 | 32 - 141 |
| 13C12-123678-HxCDD | 87 | 28 - 130 |
| 13C12-123789-HxCDD | 91 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 79 | 17 - 157 |
| 13C12-2378-TCDF | 76 | 24 - 169 |
| 13C12-12378-PeCDF | 83 | 24 - 185 |
| 13C12-23478-PeCDF | 82 | 21 - 178 |
| 13C12-123478-HxCDF | 72 | 26 - 152 |
| 13C12-123678-HxCDF | 72 | 26 - 123 |
| 13C12-234678-HxCDF | 75 | 28 - 136 |
| 13C12-123789-HxCDF | 82 | 29 - 147 |
| 13C12-1234678-HpCDF | 76 | 28 - 143 |
| 13C12-1234789-HpCDF | 75 | 26 - 138 |
| 13C12-OCDF | 74 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-013-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-NBZ-SS

**LLI Sample # SW 6620879**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 10:07

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6904 SDG#: DX169-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-013-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-NBZ-SS

**LLI Sample # SW 6620879**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 10:07

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6904 SDG#: DX169-04

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12111004 | 04/23/2012 22:28 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12111004 | 04/20/2012 12:45 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12116162401A | 04/25/2012 12:05 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-159-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-NBZ-SS

**LLI Sample # SW 6620880**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 11:01

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6905 SDG#: DX169-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 12.4 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-159-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-NBZ-SS

**LLI Sample # SW 6620880**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 11:01

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6905 SDG#: DX169-05

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0468 | JB | 0.0345 | 1.14 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.115 | JBQ | 0.0298 | 5.69 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.133 | JB | 0.0401 | 5.69 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.322 | JB | 0.0378 | 5.69 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.409 | JB | 0.0346 | 5.69 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.60 | JB | 0.0281 | 5.69 | 1 |
| 11031 | OCDD | 3268-87-9 | 25.4 | B | 0.0247 | 11.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.179 | JB | 0.0540 | 1.14 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.168 | JB | 0.0350 | 5.69 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.529 | JB | 0.0307 | 5.69 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.185 | JB | 0.0305 | 5.69 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.177 | JB | 0.0289 | 5.69 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.104 | JBQ | 0.0287 | 5.69 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.293 | JB | 0.0272 | 5.69 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.860 | JB | 0.0274 | 5.69 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.155 | JBQ | 0.0317 | 5.69 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.44 | JB | 0.0186 | 11.4 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 77 | 25 - 164 |
| 13C12-12378-PeCDD | 86 | 25 - 181 |
| 13C12-123478-HxCDD | 82 | 32 - 141 |
| 13C12-123678-HxCDD | 94 | 28 - 130 |
| 13C12-123789-HxCDD | 93 | 28 - 130 |
| 13C12-1234678-HpCDD | 85 | 23 - 140 |
| 13C12-OCDD | 86 | 17 - 157 |
| 13C12-2378-TCDF | 72 | 24 - 169 |
| 13C12-12378-PeCDF | 82 | 24 - 185 |
| 13C12-23478-PeCDF | 83 | 21 - 178 |
| 13C12-123478-HxCDF | 75 | 26 - 152 |
| 13C12-123678-HxCDF | 75 | 26 - 123 |
| 13C12-234678-HxCDF | 79 | 28 - 136 |
| 13C12-123789-HxCDF | 83 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 78 | 26 - 138 |
| 13C12-OCDF | 82 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-159-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-NBZ-SS

**LLI Sample # SW 6620880**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 11:01

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6905 SDG#: DX169-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-159-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-NBZ-SS

**LLI Sample # SW 6620880**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 11:01

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6905 SDG#: DX169-05

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12111004 | 04/23/2012 23:25 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12111004 | 04/20/2012 12:45 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401A | 05/01/2012 11:51 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

**LLI Sample # SW 6620881**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 14:40

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6906 SDG#: DX169-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 10.2 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

**LLI Sample # SW 6620881**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 14:40

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6906 SDG#: DX169-06

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0213 | U | 0.0213 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0928 | JBQ | 0.0199 | 5.47 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0864 | JB | 0.0293 | 5.47 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.165 | JB | 0.0274 | 5.47 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.172 | JB | 0.0269 | 5.47 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.94 | JB | 0.0228 | 5.47 | 1 |
| 11031 | OCDD | 3268-87-9 | 12.9 | B | 0.0182 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0924 | JB | 0.0412 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.139 | JB | 0.0233 | 5.47 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.261 | JB | 0.0214 | 5.47 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.120 | JB | 0.0197 | 5.47 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0911 | JB | 0.0190 | 5.47 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0288 | JB | 0.0192 | 5.47 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.158 | JB | 0.0185 | 5.47 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.474 | JB | 0.0219 | 5.47 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0688 | JB | 0.0255 | 5.47 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.711 | JB | 0.0141 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 84 | 25 - 164 |
| 13C12-12378-PeCDD | 86 | 25 - 181 |
| 13C12-123478-HxCDD | 88 | 32 - 141 |
| 13C12-123678-HxCDD | 101 | 28 - 130 |
| 13C12-123789-HxCDD | 96 | 28 - 130 |
| 13C12-1234678-HpCDD | 88 | 23 - 140 |
| 13C12-OCDD | 86 | 17 - 157 |
| 13C12-2378-TCDF | 77 | 24 - 169 |
| 13C12-12378-PeCDF | 82 | 24 - 185 |
| 13C12-23478-PeCDF | 83 | 21 - 178 |
| 13C12-123478-HxCDF | 79 | 26 - 152 |
| 13C12-123678-HxCDF | 79 | 26 - 123 |
| 13C12-234678-HxCDF | 82 | 28 - 136 |
| 13C12-123789-HxCDF | 86 | 29 - 147 |
| 13C12-1234678-HpCDF | 87 | 28 - 143 |
| 13C12-1234789-HpCDF | 82 | 26 - 138 |
| 13C12-OCDF | 80 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

**LLI Sample # SW 6620881**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 14:40

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6906 SDG#: DX169-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

**LLI Sample # SW 6620881**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 14:40

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6906 SDG#: DX169-06

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12111004 | 04/24/2012 00:22 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12111004 | 04/20/2012 12:45 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401A | 05/01/2012 11:51 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-164-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-NBZ-SS

**LLI Sample # SW 6620882**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 11:35

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6907 SDG#: DX169-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 16.0 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-164-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-NBZ-SS

**LLI Sample # SW 6620882**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 11:35

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6907 SDG#: DX169-07

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0420 | JBQ | 0.0304 | 1.17 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.247 | JB | 0.0282 | 5.84 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.113 | JB | 0.0267 | 5.84 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.958 | JB | 0.0262 | 5.84 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 1.44 | JB | 0.0231 | 5.84 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.13 | JB | 0.0232 | 5.84 | 1 |
| 11031 | OCDD | 3268-87-9 | 15.9 | B | 0.0188 | 11.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0924 | JB | 0.0400 | 1.17 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.235 | JB | 0.0271 | 5.84 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.338 | JB | 0.0246 | 5.84 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.171 | JB | 0.0242 | 5.84 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.198 | JB | 0.0224 | 5.84 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.180 | JB | 0.0236 | 5.84 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.163 | JB | 0.0231 | 5.84 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.550 | JB | 0.0165 | 5.84 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.117 | JB | 0.0201 | 5.84 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.857 | JB | 0.0143 | 11.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 84 | 25 - 164 |
| 13C12-12378-PeCDD | 88 | 25 - 181 |
| 13C12-123478-HxCDD | 88 | 32 - 141 |
| 13C12-123678-HxCDD | 96 | 28 - 130 |
| 13C12-123789-HxCDD | 102 | 28 - 130 |
| 13C12-1234678-HpCDD | 92 | 23 - 140 |
| 13C12-OCDD | 92 | 17 - 157 |
| 13C12-2378-TCDF | 81 | 24 - 169 |
| 13C12-12378-PeCDF | 85 | 24 - 185 |
| 13C12-23478-PeCDF | 85 | 21 - 178 |
| 13C12-123478-HxCDF | 84 | 26 - 152 |
| 13C12-123678-HxCDF | 85 | 26 - 123 |
| 13C12-234678-HxCDF | 86 | 28 - 136 |
| 13C12-123789-HxCDF | 89 | 29 - 147 |
| 13C12-1234678-HpCDF | 90 | 28 - 143 |
| 13C12-1234789-HpCDF | 81 | 26 - 138 |
| 13C12-OCDF | 84 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-164-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-NBZ-SS

**LLI Sample # SW 6620882**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 11:35

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6907 SDG#: DX169-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-164-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-NBZ-SS

**LLI Sample # SW 6620882**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 11:35

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6907 SDG#: DX169-07

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12111004 | 04/24/2012 01:18 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12111004 | 04/20/2012 12:45 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401A | 05/01/2012 11:51 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-173-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-NBZ-SS

**LLI Sample # SW 6620883**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 15:18

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6908 SDG#: DX169-08BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 16.7 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-173-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-NBZ-SS

**LLI Sample # SW 6620883**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 15:18

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6908 SDG#: DX169-08BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.141 | JB | 0.0334 | 1.20 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.415 | JB | 0.0316 | 5.98 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.289 | JB | 0.0465 | 5.98 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.629 | JB | 0.0442 | 5.98 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.717 | JB | 0.0420 | 5.98 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.96 | JB | 0.0238 | 5.98 | 1 |
| 11031 | OCDD | 3268-87-9 | 22.3 | B | 0.0210 | 12.0 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.277 | JB | 0.0653 | 1.20 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.617 | JB | 0.0372 | 5.98 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.817 | JB | 0.0335 | 5.98 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.405 | JB | 0.0352 | 5.98 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.426 | JB | 0.0340 | 5.98 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.210 | JB | 0.0333 | 5.98 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.371 | JB | 0.0343 | 5.98 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.926 | JB | 0.0203 | 5.98 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.146 | JB | 0.0234 | 5.98 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.36 | JB | 0.0170 | 12.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 82 | 25 - 164 |
| 13C12-12378-PeCDD | 88 | 25 - 181 |
| 13C12-123478-HxCDD | 90 | 32 - 141 |
| 13C12-123678-HxCDD | 97 | 28 - 130 |
| 13C12-123789-HxCDD | 94 | 28 - 130 |
| 13C12-1234678-HpCDD | 93 | 23 - 140 |
| 13C12-OCDD | 93 | 17 - 157 |
| 13C12-2378-TCDF | 74 | 24 - 169 |
| 13C12-12378-PeCDF | 84 | 24 - 185 |
| 13C12-23478-PeCDF | 86 | 21 - 178 |
| 13C12-123478-HxCDF | 78 | 26 - 152 |
| 13C12-123678-HxCDF | 81 | 26 - 123 |
| 13C12-234678-HxCDF | 83 | 28 - 136 |
| 13C12-123789-HxCDF | 90 | 29 - 147 |
| 13C12-1234678-HpCDF | 94 | 28 - 143 |
| 13C12-1234789-HpCDF | 88 | 26 - 138 |
| 13C12-OCDF | 85 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-173-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-NBZ-SS

**LLI Sample # SW 6620883**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 15:18

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6908 SDG#: DX169-08BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-173-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-NBZ-SS

**LLI Sample # SW 6620883**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 15:18

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6908 SDG#: DX169-08BKG

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12111004 | 04/24/2012 02:15 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12111004 | 04/20/2012 12:45 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401B | 05/01/2012 11:51 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-173-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-173-NBZ-SS

**LLI Sample # SW 6620884**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 15:18

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6908 SDG#: DX169-08MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 16.7 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-173-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-173-NBZ-SS

**LLI Sample # SW 6620884**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 15:18

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6908 SDG#: DX169-08MS

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 23.7 | B | 0.0435 | 1.15 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 118 | B | 0.0387 | 5.77 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 112 | B | 0.0423 | 5.77 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 111 | B | 0.0411 | 5.77 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 115 | B | 0.0390 | 5.77 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 116 | B | 0.0406 | 5.77 | 1 |
| 11031 | OCDD | 3268-87-9 | 232 | B | 0.0319 | 11.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 21.5 | B | 0.0725 | 1.15 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 117 | B | 0.0448 | 5.77 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 109 | B | 0.0444 | 5.77 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 117 | B | 0.0471 | 5.77 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 118 | B | 0.0426 | 5.77 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 118 | B | 0.0495 | 5.77 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 115 | B | 0.0465 | 5.77 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 110 | B | 0.0309 | 5.77 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 116 | B | 0.0471 | 5.77 | 1 |
| 11031 | OCDF | 39001-02-0 | 232 | B | 0.0299 | 11.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 77 | 25 - 164 |
| 13C12-12378-PeCDD | 82 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 95 | 28 - 130 |
| 13C12-123789-HxCDD | 92 | 28 - 130 |
| 13C12-1234678-HpCDD | 86 | 23 - 140 |
| 13C12-OCDD | 84 | 17 - 157 |
| 13C12-2378-TCDF | 73 | 24 - 169 |
| 13C12-12378-PeCDF | 84 | 24 - 185 |
| 13C12-23478-PeCDF | 80 | 21 - 178 |
| 13C12-123478-HxCDF | 78 | 26 - 152 |
| 13C12-123678-HxCDF | 83 | 26 - 123 |
| 13C12-234678-HxCDF | 79 | 28 - 136 |
| 13C12-123789-HxCDF | 77 | 29 - 147 |
| 13C12-1234678-HpCDF | 100 | 28 - 143 |
| 13C12-1234789-HpCDF | 70 | 26 - 138 |
| 13C12-OCDF | 66 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-173-NBZ-SS-0.0-0.5 MS Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-173-NBZ-SS**

**LLI Sample # SW 6620884**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 15:18

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6908 SDG#: DX169-08MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-173-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-173-NBZ-SS

**LLI Sample # SW 6620884**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 15:18

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6908 SDG#: DX169-08MS

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12111004 | 04/24/2012 03:11 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12111004 | 04/20/2012 12:45 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401B | 05/01/2012 11:51 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-173-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-173-NBZ-SS

**LLI Sample # SW 6620885**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 15:18

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6908 SDG#: DX169-08MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11626 | 28a Moisture Content by 160.3 | n.a. | 16.3 | 0.50 | 0.50 | 1 |
| | The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations. | | | | | |
| 11625 | Moisture Content by 160.3 | n.a. | 16.7 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-173-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-173-NBZ-SS

**LLI Sample # SW 6620885**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 15:18

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6908 SDG#: DX169-08MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 23.4 | B | 0.0381 | 1.17 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 120 | B | 0.0438 | 5.87 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 113 | B | 0.0497 | 5.87 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 114 | B | 0.0498 | 5.87 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 121 | B | 0.0493 | 5.87 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 119 | B | 0.0462 | 5.87 | 1 |
| 11031 | OCDD | 3268-87-9 | 257 | B | 0.0271 | 11.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 22.1 | B | 0.0777 | 1.17 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 119 | B | 0.0519 | 5.87 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 112 | B | 0.0468 | 5.87 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 121 | B | 0.0639 | 5.87 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 123 | B | 0.0617 | 5.87 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 119 | B | 0.0593 | 5.87 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 117 | B | 0.0586 | 5.87 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 112 | B | 0.0346 | 5.87 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 117 | B | 0.0541 | 5.87 | 1 |
| 11031 | OCDF | 39001-02-0 | 238 | B | 0.0291 | 11.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 84 | 25 - 164 |
| 13C12-12378-PeCDD | 85 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 83 | 28 - 130 |
| 13C12-123789-HxCDD | 84 | 28 - 130 |
| 13C12-1234678-HpCDD | 89 | 23 - 140 |
| 13C12-OCDD | 89 | 17 - 157 |
| 13C12-2378-TCDF | 74 | 24 - 169 |
| 13C12-12378-PeCDF | 86 | 24 - 185 |
| 13C12-23478-PeCDF | 83 | 21 - 178 |
| 13C12-123478-HxCDF | 79 | 26 - 152 |
| 13C12-123678-HxCDF | 83 | 26 - 123 |
| 13C12-234678-HxCDF | 80 | 28 - 136 |
| 13C12-123789-HxCDF | 85 | 29 - 147 |
| 13C12-1234678-HpCDF | 104 | 28 - 143 |
| 13C12-1234789-HpCDF | 75 | 26 - 138 |
| 13C12-OCDF | 72 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-173-NBZ-SS-0.0-0.5 MSD Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-173-NBZ-SS**

**LLI Sample # SW 6620885**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 15:18

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6908 SDG#: DX169-08MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-173-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-173-NBZ-SS

**LLI Sample # SW 6620885**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 15:18

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6908 SDG#: DX169-08MSD

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12111004 | 04/24/2012 07:11 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12111004 | 04/20/2012 12:45 | Deborah M Zimmerman | 1 |
| 11626 | 28a Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401B | 05/01/2012 11:51 | William C Schwebel | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401B | 05/01/2012 11:51 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** DUP-08-NBZ-QC-041612 Soil
SSFL Area IV Collocated Soil Sampling
DUP-08-NBZ

**LLI Sample # SW 6620886**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 15:23

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6909 SDG#: DX169-09FD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 15.9 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-08-NBZ-QC-041612 Soil
SSFL Area IV Collocated Soil Sampling
DUP-08-NBZ

**LLI Sample # SW 6620886**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 15:23

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6909 SDG#: DX169-09FD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0934 | JBQ | 0.0313 | 1.17 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.313 | JB | 0.0310 | 5.85 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.164 | JB | 0.0358 | 5.85 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.466 | JB | 0.0333 | 5.85 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.635 | JB | 0.0317 | 5.85 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.89 | JB | 0.0266 | 5.85 | 1 |
| 11031 | OCDD | 3268-87-9 | 18.7 | B | 0.0243 | 11.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.202 | JB | 0.0625 | 1.17 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.368 | JB | 0.0383 | 5.85 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.659 | JB | 0.0378 | 5.85 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.271 | JB | 0.0301 | 5.85 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.267 | JB | 0.0278 | 5.85 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.176 | JB | 0.0312 | 5.85 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.262 | JB | 0.0291 | 5.85 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.802 | JB | 0.0195 | 5.85 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.146 | JBQ | 0.0237 | 5.85 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.35 | JB | 0.0184 | 11.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 76 | 25 - 164 |
| 13C12-12378-PeCDD | 83 | 25 - 181 |
| 13C12-123478-HxCDD | 81 | 32 - 141 |
| 13C12-123678-HxCDD | 91 | 28 - 130 |
| 13C12-123789-HxCDD | 91 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 84 | 17 - 157 |
| 13C12-2378-TCDF | 71 | 24 - 169 |
| 13C12-12378-PeCDF | 80 | 24 - 185 |
| 13C12-23478-PeCDF | 80 | 21 - 178 |
| 13C12-123478-HxCDF | 75 | 26 - 152 |
| 13C12-123678-HxCDF | 77 | 26 - 123 |
| 13C12-234678-HxCDF | 75 | 28 - 136 |
| 13C12-123789-HxCDF | 78 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 76 | 26 - 138 |
| 13C12-OCDF | 74 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-08-NBZ-QC-041612 Soil
SSFL Area IV Collocated Soil Sampling
DUP-08-NBZ

**LLI Sample # SW 6620886**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 15:23

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6909 SDG#: DX169-09FD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** DUP-08-NBZ-QC-041612 Soil
SSFL Area IV Collocated Soil Sampling
DUP-08-NBZ

**LLI Sample # SW 6620886**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/16/2012 15:23

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6909 SDG#: DX169-09FD

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12111004 | 04/24/2012 08:08 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12111004 | 04/20/2012 12:45 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401B | 05/01/2012 11:51 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-014-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-NBZ-SS

**LLI Sample # SW 6620887**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 10:10

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6910 SDG#: DX169-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 14.4 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-014-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-NBZ-SS

**LLI Sample # SW 6620887**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 10:10

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6910 SDG#: DX169-10

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0320 | U | 0.0320 | 1.17 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.151 | JB | 0.0307 | 5.84 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.174 | JB | 0.0384 | 5.84 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.439 | JB | 0.0360 | 5.84 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.362 | JB | 0.0345 | 5.84 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 7.82 | B | 0.0340 | 5.84 | 1 |
| 11031 | OCDD | 3268-87-9 | 70.0 | B | 0.0251 | 11.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.385 | JB | 0.112 | 1.17 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 2.96 | JB | 0.0604 | 5.84 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.395 | JB | 0.0563 | 5.84 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.619 | JB | 0.0380 | 5.84 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.240 | JB | 0.0357 | 5.84 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.146 | JB | 0.0366 | 5.84 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.245 | JB | 0.0355 | 5.84 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.68 | JB | 0.0183 | 5.84 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.188 | JB | 0.0234 | 5.84 | 1 |
| 11031 | OCDF | 39001-02-0 | 3.17 | JB | 0.0153 | 11.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 81 | 25 - 164 |
| 13C12-12378-PeCDD | 88 | 25 - 181 |
| 13C12-123478-HxCDD | 82 | 32 - 141 |
| 13C12-123678-HxCDD | 94 | 28 - 130 |
| 13C12-123789-HxCDD | 92 | 28 - 130 |
| 13C12-1234678-HpCDD | 84 | 23 - 140 |
| 13C12-OCDD | 83 | 17 - 157 |
| 13C12-2378-TCDF | 75 | 24 - 169 |
| 13C12-12378-PeCDF | 84 | 24 - 185 |
| 13C12-23478-PeCDF | 83 | 21 - 178 |
| 13C12-123478-HxCDF | 81 | 26 - 152 |
| 13C12-123678-HxCDF | 81 | 26 - 123 |
| 13C12-234678-HxCDF | 79 | 28 - 136 |
| 13C12-123789-HxCDF | 84 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 77 | 26 - 138 |
| 13C12-OCDF | 75 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-014-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-NBZ-SS

**LLI Sample # SW 6620887**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 10:10

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6910 SDG#: DX169-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-014-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-NBZ-SS

**LLI Sample # SW 6620887**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 10:10

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6910 SDG#: DX169-10

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12111004 | 04/24/2012 09:05 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12111004 | 04/20/2012 12:45 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12116162401A | 04/25/2012 12:05 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-088-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-NBZ-SS

**LLI Sample # SW 6620888**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 11:00

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6911 SDG#: DX169-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 20.9 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-088-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-NBZ-SS

**LLI Sample # SW 6620888**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 11:00

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6911 SDG#: DX169-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0517 JB | 0.0329 | 1.25 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.229 JB | 0.0391 | 6.23 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.203 JB | 0.0440 | 6.23 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.619 JB | 0.0406 | 6.23 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.532 JB | 0.0405 | 6.23 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 9.40 B | 0.0359 | 6.23 | 1 |
| 11031 | OCDD | 3268-87-9 | 74.2 B | 0.0234 | 12.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.695 JB | 0.136 | 1.25 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 2.91 JB | 0.0660 | 6.23 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.486 JB | 0.0601 | 6.23 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.631 JB | 0.0412 | 6.23 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.306 JB | 0.0401 | 6.23 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0954 JB | 0.0417 | 6.23 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.282 JB | 0.0407 | 6.23 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.93 JB | 0.0225 | 6.23 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.187 JB | 0.0286 | 6.23 | 1 |
| 11031 | OCDF | 39001-02-0 | 4.07 JB | 0.0197 | 12.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 82 | 25 - 164 |
| 13C12-12378-PeCDD | 86 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 91 | 28 - 130 |
| 13C12-123789-HxCDD | 87 | 28 - 130 |
| 13C12-1234678-HpCDD | 81 | 23 - 140 |
| 13C12-OCDD | 82 | 17 - 157 |
| 13C12-2378-TCDF | 76 | 24 - 169 |
| 13C12-12378-PeCDF | 83 | 24 - 185 |
| 13C12-23478-PeCDF | 84 | 21 - 178 |
| 13C12-123478-HxCDF | 78 | 26 - 152 |
| 13C12-123678-HxCDF | 78 | 26 - 123 |
| 13C12-234678-HxCDF | 78 | 28 - 136 |
| 13C12-123789-HxCDF | 80 | 29 - 147 |
| 13C12-1234678-HpCDF | 88 | 28 - 143 |
| 13C12-1234789-HpCDF | 75 | 26 - 138 |
| 13C12-OCDF | 74 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-088-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-NBZ-SS

**LLI Sample # SW 6620888**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 11:00

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6911 SDG#: DX169-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-088-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-NBZ-SS

**LLI Sample # SW 6620888**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 11:00

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6911 SDG#: DX169-11

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12111004 | 04/24/2012 10:01 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12111004 | 04/20/2012 12:45 | Deborah M Zimmerman | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12116162401A | 04/25/2012 12:05 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-156-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-NBZ-SS

**LLI Sample # SW 6620889**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 11:17

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6912 SDG#: DX169-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 18.8 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-156-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-NBZ-SS

**LLI Sample # SW 6620889**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 11:17

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6912 SDG#: DX169-12

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0385 | JBQ | 0.0304 | 1.23 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.136 | JB | 0.0289 | 6.15 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.110 | JB | 0.0362 | 6.15 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.269 | JB | 0.0340 | 6.15 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.228 | JB | 0.0309 | 6.15 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.20 | JB | 0.0300 | 6.15 | 1 |
| 11031 | OCDD | 3268-87-9 | 20.9 | B | 0.0183 | 12.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.254 | JB | 0.0748 | 1.23 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.326 | JB | 0.0373 | 6.15 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.762 | JB | 0.0363 | 6.15 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.292 | JB | 0.0307 | 6.15 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.188 | JB | 0.0286 | 6.15 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.127 | JB | 0.0318 | 6.15 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.259 | JB | 0.0299 | 6.15 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.849 | JB | 0.0201 | 6.15 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.112 | JB | 0.0261 | 6.15 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.47 | JB | 0.0181 | 12.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 82 | 25 - 164 |
| 13C12-12378-PeCDD | 88 | 25 - 181 |
| 13C12-123478-HxCDD | 80 | 32 - 141 |
| 13C12-123678-HxCDD | 90 | 28 - 130 |
| 13C12-123789-HxCDD | 91 | 28 - 130 |
| 13C12-1234678-HpCDD | 81 | 23 - 140 |
| 13C12-OCDD | 80 | 17 - 157 |
| 13C12-2378-TCDF | 74 | 24 - 169 |
| 13C12-12378-PeCDF | 86 | 24 - 185 |
| 13C12-23478-PeCDF | 84 | 21 - 178 |
| 13C12-123478-HxCDF | 79 | 26 - 152 |
| 13C12-123678-HxCDF | 81 | 26 - 123 |
| 13C12-234678-HxCDF | 79 | 28 - 136 |
| 13C12-123789-HxCDF | 82 | 29 - 147 |
| 13C12-1234678-HpCDF | 90 | 28 - 143 |
| 13C12-1234789-HpCDF | 75 | 26 - 138 |
| 13C12-OCDF | 72 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-156-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-NBZ-SS

**LLI Sample # SW 6620889**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 11:17

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6912 SDG#: DX169-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-156-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-NBZ-SS

**LLI Sample # SW 6620889**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 11:17

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6912 SDG#: DX169-12

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12111004 | 04/24/2012 10:58 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12111004 | 04/20/2012 12:45 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401B | 05/01/2012 11:51 | William C Schwebel | 1 |

eurofins | Lancaster Laboratories

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# Analysis Report



**Sample Description:** SL-161-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-NBZ-SS

**LLI Sample # SW 6620890**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 11:50

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6913 SDG#: DX169-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.1 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-161-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-NBZ-SS

**LLI Sample # SW 6620890**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 11:50

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6913 SDG#: DX169-13

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0308 | JBQ | 0.0179 | 1.12 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0891 | JB | 0.0201 | 5.60 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0989 | JB | 0.0229 | 5.60 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.251 | JB | 0.0237 | 5.60 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.232 | JB | 0.0222 | 5.60 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.21 | JB | 0.0184 | 5.60 | 1 |
| 11031 | OCDD | 3268-87-9 | 20.7 | B | 0.0135 | 11.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.220 | JB | 0.0487 | 1.12 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.226 | JB | 0.0250 | 5.60 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.521 | JB | 0.0229 | 5.60 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.219 | JB | 0.0195 | 5.60 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.157 | JB | 0.0179 | 5.60 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.134 | JB | 0.0186 | 5.60 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.207 | JB | 0.0183 | 5.60 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.734 | JB | 0.0125 | 5.60 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0980 | JB | 0.0157 | 5.60 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.10 | JB | 0.0109 | 11.2 | 1 |

| **Labeled Compounds** | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 79 | 25 - 164 |
| 13C12-12378-PeCDD | 87 | 25 - 181 |
| 13C12-123478-HxCDD | 82 | 32 - 141 |
| 13C12-123678-HxCDD | 82 | 28 - 130 |
| 13C12-123789-HxCDD | 82 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 79 | 17 - 157 |
| 13C12-2378-TCDF | 76 | 24 - 169 |
| 13C12-12378-PeCDF | 86 | 24 - 185 |
| 13C12-23478-PeCDF | 87 | 21 - 178 |
| 13C12-123478-HxCDF | 74 | 26 - 152 |
| 13C12-123678-HxCDF | 77 | 26 - 123 |
| 13C12-234678-HxCDF | 77 | 28 - 136 |
| 13C12-123789-HxCDF | 79 | 29 - 147 |
| 13C12-1234678-HpCDF | 83 | 28 - 143 |
| 13C12-1234789-HpCDF | 73 | 26 - 138 |
| 13C12-OCDF | 69 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-161-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-NBZ-SS

**LLI Sample # SW 6620890**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 11:50

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6913 SDG#: DX169-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-161-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-161-NBZ-SS

**LLI Sample # SW 6620890**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 11:50

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6913 SDG#: DX169-13

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12111004 | 04/24/2012 20:14 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12111004 | 04/20/2012 12:45 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401B | 05/01/2012 11:51 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-162-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-NBZ-SS

**LLI Sample # SW 6620891**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 09:55

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6914 SDG#: DX169-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.7 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-162-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-NBZ-SS

**LLI Sample # SW 6620891**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 09:55

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6914 SDG#: DX169-14

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.147 | JB | 0.0220 | 1.07 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.147 | JB | 0.0234 | 5.33 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.165 | JB | 0.0273 | 5.33 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.361 | JB | 0.0257 | 5.33 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.308 | JB | 0.0245 | 5.33 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 4.72 | JB | 0.0227 | 5.33 | 1 |
| 11031 | OCDD | 3268-87-9 | 32.1 | B | 0.0180 | 10.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.230 | JB | 0.0675 | 1.07 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.230 | JB | 0.0361 | 5.33 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.849 | JB | 0.0322 | 5.33 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.264 | JB | 0.0229 | 5.33 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.197 | JB | 0.0212 | 5.33 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0207 | U | 0.0207 | 5.33 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.255 | JB | 0.0215 | 5.33 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.949 | JB | 0.0172 | 5.33 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.105 | JB | 0.0214 | 5.33 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.55 | JB | 0.0131 | 10.7 | 1 |

| **Labeled Compounds** | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 82 | 25 - 164 |
| 13C12-12378-PeCDD | 85 | 25 - 181 |
| 13C12-123478-HxCDD | 85 | 32 - 141 |
| 13C12-123678-HxCDD | 95 | 28 - 130 |
| 13C12-123789-HxCDD | 94 | 28 - 130 |
| 13C12-1234678-HpCDD | 87 | 23 - 140 |
| 13C12-OCDD | 86 | 17 - 157 |
| 13C12-2378-TCDF | 74 | 24 - 169 |
| 13C12-12378-PeCDF | 83 | 24 - 185 |
| 13C12-23478-PeCDF | 82 | 21 - 178 |
| 13C12-123478-HxCDF | 76 | 26 - 152 |
| 13C12-123678-HxCDF | 78 | 26 - 123 |
| 13C12-234678-HxCDF | 81 | 28 - 136 |
| 13C12-123789-HxCDF | 87 | 29 - 147 |
| 13C12-1234678-HpCDF | 92 | 28 - 143 |
| 13C12-1234789-HpCDF | 79 | 26 - 138 |
| 13C12-OCDF | 76 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-162-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-NBZ-SS

**LLI Sample # SW 6620891**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 09:55

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6914 SDG#: DX169-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-162-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-NBZ-SS

**LLI Sample # SW 6620891**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 09:55

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6914 SDG#: DX169-14

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12111004 | 04/24/2012 12:51 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12111004 | 04/20/2012 12:45 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401B | 05/01/2012 11:51 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-166-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-NBZ-SS

**LLI Sample # SW 6620892**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 10:30

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6915 SDG#: DX169-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 13.6 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-166-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-NBZ-SS

**LLI Sample # SW 6620892**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 10:30

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6915 SDG#: DX169-15

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0328 | JB | 0.0260 | 1.14 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.147 | JB | 0.0259 | 5.70 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.209 | JB | 0.0361 | 5.70 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.391 | JB | 0.0354 | 5.70 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.379 | JB | 0.0329 | 5.70 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 5.30 | JB | 0.0244 | 5.70 | 1 |
| 11031 | OCDD | 3268-87-9 | 36.3 | B | 0.0201 | 11.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.299 | JB | 0.0811 | 1.14 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.404 | JB | 0.0431 | 5.70 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 1.18 | JB | 0.0392 | 5.70 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.341 | JB | 0.0291 | 5.70 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.267 | JB | 0.0275 | 5.70 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.113 | JB | 0.0294 | 5.70 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.314 | JB | 0.0282 | 5.70 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.21 | JB | 0.0189 | 5.70 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.151 | JB | 0.0226 | 5.70 | 1 |
| 11031 | OCDF | 39001-02-0 | 2.10 | JB | 0.0152 | 11.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 79 | 25 - 164 |
| 13C12-12378-PeCDD | 84 | 25 - 181 |
| 13C12-123478-HxCDD | 81 | 32 - 141 |
| 13C12-123678-HxCDD | 90 | 28 - 130 |
| 13C12-123789-HxCDD | 91 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 80 | 17 - 157 |
| 13C12-2378-TCDF | 74 | 24 - 169 |
| 13C12-12378-PeCDF | 81 | 24 - 185 |
| 13C12-23478-PeCDF | 81 | 21 - 178 |
| 13C12-123478-HxCDF | 79 | 26 - 152 |
| 13C12-123678-HxCDF | 79 | 26 - 123 |
| 13C12-234678-HxCDF | 79 | 28 - 136 |
| 13C12-123789-HxCDF | 81 | 29 - 147 |
| 13C12-1234678-HpCDF | 85 | 28 - 143 |
| 13C12-1234789-HpCDF | 76 | 26 - 138 |
| 13C12-OCDF | 74 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-166-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-NBZ-SS

**LLI Sample # SW 6620892**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 10:30

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6915 SDG#: DX169-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-166-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-NBZ-SS

**LLI Sample # SW 6620892**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 10:30

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6915 SDG#: DX169-15

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12111004 | 04/24/2012 13:48 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12111004 | 04/20/2012 12:45 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401B | 05/01/2012 11:51 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** EB-NBZ-SB-041712 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SB

**LLI Sample #** WW 6620893
**LLI Group #** 1303087
**Account #** 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 15:45

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6916 SDG#: DX169-16EB

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | pg/l | | pg/l | pg/l | |
| 10915 | 2378-TCDD | 1746-01-6 | 0.376 | JB | 0.321 | 2.10 | 1 |
| 10915 | 12378-PeCDD | 40321-76-4 | 0.590 | JBQ | 0.250 | 10.5 | 1 |
| 10915 | 123478-HxCDD | 39227-28-6 | 0.316 | JBQ | 0.205 | 10.5 | 1 |
| 10915 | 123678-HxCDD | 57653-85-7 | 0.770 | JB | 0.215 | 10.5 | 1 |
| 10915 | 123789-HxCDD | 19408-74-3 | 0.350 | JB | 0.199 | 10.5 | 1 |
| 10915 | 1234678-HpCDD | 35822-46-9 | 4.17 | JB | 0.246 | 10.5 | 1 |
| 10915 | OCDD | 3268-87-9 | 8.34 | JB | 0.306 | 21.0 | 1 |
| 10915 | 2378-TCDF | 51207-31-9 | 0.406 | JBQ | 0.208 | 2.10 | 1 |
| 10915 | 12378-PeCDF | 57117-41-6 | 0.567 | JB | 0.184 | 10.5 | 1 |
| 10915 | 23478-PeCDF | 57117-31-4 | 0.720 | JB | 0.162 | 10.5 | 1 |
| 10915 | 123478-HxCDF | 70648-26-9 | 0.705 | JB | 0.150 | 10.5 | 1 |
| 10915 | 123678-HxCDF | 57117-44-9 | 0.772 | JB | 0.149 | 10.5 | 1 |
| 10915 | 123789-HxCDF | 72918-21-9 | 0.523 | JB | 0.142 | 10.5 | 1 |
| 10915 | 234678-HxCDF | 60851-34-5 | 0.945 | JBQ | 0.135 | 10.5 | 1 |
| 10915 | 1234678-HpCDF | 67562-39-4 | 2.19 | JB | 0.173 | 10.5 | 1 |
| 10915 | 1234789-HpCDF | 55673-89-7 | 0.516 | JB | 0.193 | 10.5 | 1 |
| 10915 | OCDF | 39001-02-0 | 1.60 | JBQ | 0.201 | 21.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 74 | 25 - 164 |
| 13C12-12378-PeCDD | 75 | 25 - 181 |
| 13C12-123478-HxCDD | 71 | 32 - 141 |
| 13C12-123678-HxCDD | 71 | 28 - 130 |
| 13C12-123789-HxCDD | 72 | 28 - 130 |
| 13C12-1234678-HpCDD | 69 | 23 - 140 |
| 13C12-OCDD | 67 | 17 - 157 |
| 13C12-2378-TCDF | 75 | 24 - 169 |
| 13C12-12378-PeCDF | 74 | 24 - 185 |
| 13C12-23478-PeCDF | 76 | 21 - 178 |
| 13C12-123478-HxCDF | 67 | 26 - 152 |
| 13C12-123678-HxCDF | 66 | 26 - 123 |
| 13C12-234678-HxCDF | 69 | 28 - 136 |
| 13C12-123789-HxCDF | 72 | 29 - 147 |
| 13C12-1234678-HpCDF | 66 | 28 - 143 |
| 13C12-1234789-HpCDF | 67 | 26 - 138 |
| 13C12-OCDF | 64 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B* *Detected in Method Blank*
*U* *Undetected*
*J* *Estimated concentration between Estimated Detection Limit and Minimum Level*
*E* *Exceeds calibration range*
*C* *Confirmed quantitation on secondary GC column*
*Q* *EMPC - Estimated Maximum Possible Concentration*
*F* *Interference is present*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** **EB-NBZ-SB-041712 Water**
**SSFL Area IV Collocated Soil Sampling**
**EB-NBZ-SB**

**LLI Sample # WW 6620893**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 15:45

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6916 SDG#: DX169-16EB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10915 | 10b Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12113001 | 04/25/2012 07:47 | Joseph D Anderson | 1 |
| 10914 | Dioxins/Furans in Water - SepF | EPA 1613B | 1 | 12113001 | 04/23/2012 07:15 | Ginelle L Haines | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** EB-NBZ-SS-041712 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SS

**LLI Sample # WW 6620894**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 15:00

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6917 SDG#: DX169-17EB*

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | pg/l | | pg/l | pg/l | |
| 10915 | 2378-TCDD | 1746-01-6 | 0.211 | U | 0.211 | 2.16 | 1 |
| 10915 | 12378-PeCDD | 40321-76-4 | 0.312 | JBQ | 0.211 | 10.8 | 1 |
| 10915 | 123478-HxCDD | 39227-28-6 | 0.251 | JB | 0.220 | 10.8 | 1 |
| 10915 | 123678-HxCDD | 57653-85-7 | 0.552 | JB | 0.225 | 10.8 | 1 |
| 10915 | 123789-HxCDD | 19408-74-3 | 0.334 | JBQ | 0.219 | 10.8 | 1 |
| 10915 | 1234678-HpCDD | 35822-46-9 | 3.59 | JB | 0.408 | 10.8 | 1 |
| 10915 | OCDD | 3268-87-9 | 8.53 | JB | 0.355 | 21.6 | 1 |
| 10915 | 2378-TCDF | 51207-31-9 | 0.150 | U | 0.150 | 2.16 | 1 |
| 10915 | 12378-PeCDF | 57117-41-6 | 0.365 | J | 0.156 | 10.8 | 1 |
| 10915 | 23478-PeCDF | 57117-31-4 | 0.467 | JB | 0.139 | 10.8 | 1 |
| 10915 | 123478-HxCDF | 70648-26-9 | 0.262 | JBQ | 0.135 | 10.8 | 1 |
| 10915 | 123678-HxCDF | 57117-44-9 | 0.180 | JBQ | 0.134 | 10.8 | 1 |
| 10915 | 123789-HxCDF | 72918-21-9 | 0.427 | JB | 0.131 | 10.8 | 1 |
| 10915 | 234678-HxCDF | 60851-34-5 | 0.495 | JB | 0.130 | 10.8 | 1 |
| 10915 | 1234678-HpCDF | 67562-39-4 | 0.754 | JB | 0.164 | 10.8 | 1 |
| 10915 | 1234789-HpCDF | 55673-89-7 | 0.476 | JB | 0.182 | 10.8 | 1 |
| 10915 | OCDF | 39001-02-0 | 1.19 | JBQ | 0.198 | 21.6 | 1 |

| **Labeled Compounds** | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 80 | 25 - 164 |
| 13C12-12378-PeCDD | 73 | 25 - 181 |
| 13C12-123478-HxCDD | 71 | 32 - 141 |
| 13C12-123678-HxCDD | 72 | 28 - 130 |
| 13C12-123789-HxCDD | 70 | 28 - 130 |
| 13C12-1234678-HpCDD | 66 | 23 - 140 |
| 13C12-OCDD | 61 | 17 - 157 |
| 13C12-2378-TCDF | 71 | 24 - 169 |
| 13C12-12378-PeCDF | 69 | 24 - 185 |
| 13C12-23478-PeCDF | 72 | 21 - 178 |
| 13C12-123478-HxCDF | 68 | 26 - 152 |
| 13C12-123678-HxCDF | 66 | 26 - 123 |
| 13C12-234678-HxCDF | 69 | 28 - 136 |
| 13C12-123789-HxCDF | 72 | 29 - 147 |
| 13C12-1234678-HpCDF | 64 | 28 - 143 |
| 13C12-1234789-HpCDF | 62 | 26 - 138 |
| 13C12-OCDF | 58 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** **EB-NBZ-SS-041712 Water**
**SSFL Area IV Collocated Soil Sampling**
**EB-NBZ-SS**

**LLI Sample # WW 6620894**
**LLI Group # 1303087**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 15:00

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6917 SDG#: DX169-17EB*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10915 | 10b Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12121001 | 05/02/2012 04:30 | Joseph D Anderson | 1 |
| 10914 | Dioxins/Furans in Water - SepF | EPA 1613B | 1 | 12121001 | 04/30/2012 10:30 | Ginelle L Haines | 1 |

*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303087
Reported: 05/03/12 at 02:13 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12116162401A | Sample number(s): 6620879,6620887-6620888 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 99 | | 80-120 | | |
| Batch number: 12122162401A | Sample number(s): 6620880-6620882 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Batch number: 12122162401B | Sample number(s): 6620883-6620886,6620889-6620892 | | | | | | | | |
| 28a Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12111004 | Sample number(s): 6620879-6620892 | | | | | | | | |
| 2378-TCDD | 0.0433 J | 0.0288 | 1.00 | ng/kg | 102 | | 67-158 | | |
| 12378-PeCDD | 0.0550 J | 0.0239 | 5.00 | ng/kg | 101 | | 70-142 | | |
| 123478-HxCDD | 0.0312 J | 0.0161 | 5.00 | ng/kg | 96 | | 70-164 | | |
| 123678-HxCDD | 0.0865 J | 0.0171 | 5.00 | ng/kg | 95 | | 76-134 | | |
| 123789-HxCDD | 0.0542 J | 0.0157 | 5.00 | ng/kg | 100 | | 64-162 | | |
| 1234678-HpCDD | 0.316 J | 0.0193 | 5.00 | ng/kg | 100 | | 70-140 | | |
| OCDD | 0.496 J | 0.0187 | 10.0 | ng/kg | 95 | | 78-144 | | |
| 2378-TCDF | 0.0306 J | 0.0210 | 1.00 | ng/kg | 94 | | 75-158 | | |
| 12378-PeCDF | 0.0230 J | 0.0153 | 5.00 | ng/kg | 100 | | 80-134 | | |
| 23478-PeCDF | 0.0733 J | 0.0145 | 5.00 | ng/kg | 95 | | 68-160 | | |
| 123478-HxCDF | 0.0798 J | 0.0123 | 5.00 | ng/kg | 102 | | 72-134 | | |
| 123678-HxCDF | 0.0489 J | 0.0112 | 5.00 | ng/kg | 101 | | 84-130 | | |
| 123789-HxCDF | 0.0520 J | 0.0136 | 5.00 | ng/kg | 102 | | 78-130 | | |
| 234678-HxCDF | 0.0535 J | 0.0121 | 5.00 | ng/kg | 96 | | 70-156 | | |
| 1234678-HpCDF | 0.0899 J | 0.00790 | 5.00 | ng/kg | 92 | | 82-122 | | |
| 1234789-HpCDF | 0.0485 J | 0.0134 | 5.00 | ng/kg | 99 | | 78-138 | | |
| OCDF | 0.142 J | 0.0184 | 10.0 | ng/kg | 100 | | 63-170 | | |
| Batch number: 12113001 | Sample number(s): 6620893 | | | | | | | | |
| 2378-TCDD | 0.349 J | 0.219 | 2.00 | pg/l | 108 | | 67-158 | | |
| 12378-PeCDD | 0.622 J | 0.199 | 10.0 | pg/l | 107 | | 70-142 | | |
| 123478-HxCDD | 0.409 J | 0.170 | 10.0 | pg/l | 101 | | 70-164 | | |
| 123678-HxCDD | 0.615 J | 0.179 | 10.0 | pg/l | 102 | | 76-134 | | |
| 123789-HxCDD | 0.658 J | 0.172 | 10.0 | pg/l | 109 | | 64-162 | | |
| 1234678-HpCDD | 4.68 J | 0.252 | 10.0 | pg/l | 110 | | 70-140 | | |
| OCDD | 9.98 J | 0.284 | 20.0 | pg/l | 111 | | 78-144 | | |
| 2378-TCDF | 0.320 J | 0.147 | 2.00 | pg/l | 93 | | 75-158 | | |
| 12378-PeCDF | 0.643 J | 0.149 | 10.0 | pg/l | 104 | | 80-134 | | |
| 23478-PeCDF | 0.706 J | 0.126 | 10.0 | pg/l | 97 | | 68-160 | | |
| 123478-HxCDF | 0.605 J | 0.151 | 10.0 | pg/l | 107 | | 72-134 | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303087
Reported: 05/03/12 at 02:13 PM

| Analysis Name | Blank Result | | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| 123678-HxCDF | 0.621 | J | 0.147 | 10.0 | pg/l | 110 | | 84-130 | | |
| 123789-HxCDF | 0.743 | J | 0.140 | 10.0 | pg/l | 107 | | 78-130 | | |
| 234678-HxCDF | 0.823 | J | 0.132 | 10.0 | pg/l | 102 | | 70-156 | | |
| 1234678-HpCDF | 2.74 | J | 0.145 | 10.0 | pg/l | 104 | | 82-122 | | |
| 1234789-HpCDF | 0.834 | J | 0.153 | 10.0 | pg/l | 108 | | 78-138 | | |
| OCDF | 2.13 | J | 0.201 | 20.0 | pg/l | 112 | | 63-170 | | |
| Batch number: 12121001 | Sample number(s): 6620894 | | | | | | | | | |
| 2378-TCDD | 0.270 | J | 0.263 | 2.00 | pg/l | 93 | | 67-158 | | |
| 12378-PeCDD | 0.409 | J | 0.243 | 10.0 | pg/l | 96 | | 70-142 | | |
| 123478-HxCDD | 0.408 | J | 0.198 | 10.0 | pg/l | 91 | | 70-164 | | |
| 123678-HxCDD | 0.426 | J | 0.209 | 10.0 | pg/l | 92 | | 76-134 | | |
| 123789-HxCDD | 0.506 | J | 0.194 | 10.0 | pg/l | 98 | | 64-162 | | |
| 1234678-HpCDD | 3.29 | J | 0.253 | 10.0 | pg/l | 97 | | 70-140 | | |
| OCDD | 6.72 | J | 0.337 | 20.0 | pg/l | 95 | | 78-144 | | |
| 2378-TCDF | 0.288 | J | 0.180 | 2.00 | pg/l | 88 | | 75-158 | | |
| 12378-PeCDF | 0.185 | U | 0.185 | 10.0 | pg/l | 94 | | 80-134 | | |
| 23478-PeCDF | 0.690 | J | 0.159 | 10.0 | pg/l | 91 | | 68-160 | | |
| 123478-HxCDF | 0.479 | J | 0.128 | 10.0 | pg/l | 97 | | 72-134 | | |
| 123678-HxCDF | 0.378 | J | 0.123 | 10.0 | pg/l | 97 | | 84-130 | | |
| 123789-HxCDF | 0.336 | J | 0.127 | 10.0 | pg/l | 96 | | 78-130 | | |
| 234678-HxCDF | 0.468 | J | 0.117 | 10.0 | pg/l | 93 | | 70-156 | | |
| 1234678-HpCDF | 0.720 | J | 0.119 | 10.0 | pg/l | 91 | | 82-122 | | |
| 1234789-HpCDF | 0.566 | J | 0.141 | 10.0 | pg/l | 95 | | 78-138 | | |
| OCDF | 1.02 | J | 0.197 | 20.0 | pg/l | 97 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12116162401A | Sample number(s): 6620879,6620887-6620888 BKG: P620868 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 15.8 | 15.3 | 3 | 20 |
| Batch number: 12122162401A | Sample number(s): 6620880-6620882 BKG: 6620880 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 12.4 | 12.2 | 2 | 20 |
| Batch number: 12122162401B | Sample number(s): 6620883-6620886,6620889-6620892 BKG: 6620883 | | | | | | | | |
| 28a Moisture Content by 160.3 | | | | | | 16.7 | 16.3 | 2 | 20 |
| Moisture Content by 160.3 | | | | | | 16.7 | 16.3 | 2 | 20 |
| Moisture Content by 160.3 | | | | | | 16.7 | 16.3 | 2 | 20 |
| Batch number: 12111004 | Sample number(s): 6620879-6620892 UNSPK: 6620883 | | | | | | | | |
| 2378-TCDD | 102 | 99 | 67-158 | 2 | 25 | | | | |
| 12378-PeCDD | 102 | 102 | 70-142 | 2 | 25 | | | | |
| 123478-HxCDD | 97 | 96 | 70-164 | 1 | 25 | | | | |
| 123678-HxCDD | 96 | 97 | 76-134 | 3 | 25 | | | | |
| 123789-HxCDD | 99 | 102 | 64-162 | 4 | 25 | | | | |
| 1234678-HpCDD | 97 | 98 | 70-140 | 3 | 25 | | | | |
| OCDD | 91 | 100 | 78-144 | 10 | 25 | | | | |
| 2378-TCDF | 92 | 93 | 75-158 | 3 | 25 | | | | |
| 12378-PeCDF | 101 | 101 | 80-134 | 2 | 25 | | | | |
| 23478-PeCDF | 94 | 94 | 68-160 | 2 | 25 | | | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303087
Reported: 05/03/12 at 02:13 PM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| 123478-HxCDF | 101 | 102 | 72-134 | 3 | 25 | | | | |
| 123678-HxCDF | 102 | 105 | 84-130 | 5 | 25 | | | | |
| 123789-HxCDF | 102 | 101 | 78-130 | 1 | 25 | | | | |
| 234678-HxCDF | 99 | 99 | 70-156 | 2 | 25 | | | | |
| 1234678-HpCDF | 95 | 95 | 82-122 | 2 | 25 | | | | |
| 1234789-HpCDF | 100 | 100 | 78-138 | 1 | 25 | | | | |
| OCDF | 100 | 101 | 63-170 | 3 | 25 | | | | |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12111004

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6620879 | 85 | 82 | 72 | 72 | 75 | 82 |
| 6620880 | 77 | 83 | 75 | 75 | 79 | 83 |
| 6620881 | 84 | 83 | 79 | 79 | 82 | 86 |
| 6620882 | 84 | 85 | 84 | 85 | 86 | 89 |
| 6620883 | 82 | 86 | 78 | 81 | 83 | 90 |
| 6620884 | 77 | 80 | 78 | 83 | 79 | 77 |
| 6620885 | 84 | 83 | 79 | 83 | 80 | 85 |
| 6620886 | 76 | 80 | 75 | 77 | 75 | 78 |
| 6620887 | 81 | 83 | 81 | 81 | 79 | 84 |
| 6620888 | 82 | 84 | 78 | 78 | 78 | 80 |
| 6620889 | 82 | 84 | 79 | 81 | 79 | 82 |
| 6620890 | 79 | 87 | 74 | 77 | 77 | 79 |
| 6620891 | 82 | 82 | 76 | 78 | 81 | 87 |
| 6620892 | 79 | 81 | 79 | 79 | 79 | 81 |
| Blank | 76 | 83 | 79 | 87 | 81 | 76 |
| MS | 77 | 80 | 78 | 83 | 79 | 77 |
| MSD | 84 | 83 | 79 | 83 | 80 | 85 |
| OPR | 70 | 74 | 75 | 84 | 79 | 70 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6620879 | 76 | 75 | 74 | 86 | 76 | 87 |
| 6620880 | 86 | 78 | 82 | 86 | 82 | 94 |
| 6620881 | 87 | 82 | 80 | 86 | 88 | 101 |
| 6620882 | 90 | 81 | 84 | 88 | 88 | 96 |
| 6620883 | 94 | 88 | 85 | 88 | 90 | 97 |
| 6620884 | 100 | 70 | 66 | 82 | 84 | 95 |
| 6620885 | 104 | 75 | 72 | 85 | 84 | 83 |
| 6620886 | 86 | 76 | 74 | 83 | 81 | 91 |
| 6620887 | 86 | 77 | 75 | 88 | 82 | 94 |
| 6620888 | 88 | 75 | 74 | 86 | 83 | 91 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303087
Reported: 05/03/12 at 02:13 PM

## Surrogate Quality Control

| | | | | | | |
|---|---|---|---|---|---|---|
| 6620889 | 90 | 75 | 72 | 88 | 80 | 90 |
| 6620890 | 83 | 73 | 69 | 87 | 82 | 82 |
| 6620891 | 92 | 79 | 76 | 85 | 85 | 95 |
| 6620892 | 85 | 76 | 74 | 84 | 81 | 90 |
| Blank | 114 | 73 | 67 | 86 | 88 | 85 |
| MS | 100 | 70 | 66 | 82 | 84 | 95 |
| MSD | 104 | 75 | 72 | 85 | 84 | 83 |
| OPR | 112 | 68 | 61 | 79 | 83 | 83 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6620879 | 91 | 82 | 79 | 76 | 83 |
| 6620880 | 93 | 85 | 86 | 72 | 82 |
| 6620881 | 96 | 88 | 86 | 77 | 82 |
| 6620882 | 102 | 92 | 92 | 81 | 85 |
| 6620883 | 94 | 93 | 93 | 74 | 84 |
| 6620884 | 92 | 86 | 84 | 73 | 84 |
| 6620885 | 84 | 89 | 89 | 74 | 86 |
| 6620886 | 91 | 82 | 84 | 71 | 80 |
| 6620887 | 92 | 84 | 83 | 75 | 84 |
| 6620888 | 87 | 81 | 82 | 76 | 83 |
| 6620889 | 91 | 81 | 80 | 74 | 86 |
| 6620890 | 82 | 82 | 79 | 76 | 86 |
| 6620891 | 94 | 87 | 86 | 74 | 83 |
| 6620892 | 91 | 82 | 80 | 74 | 81 |
| Blank | 87 | 90 | 91 | 72 | 88 |
| MS | 92 | 86 | 84 | 73 | 84 |
| MSD | 84 | 89 | 89 | 74 | 86 |
| OPR | 86 | 87 | 86 | 63 | 79 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 12113001

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6620893 | 74 | 76 | 67 | 66 | 69 | 72 |
| Blank | 67 | 69 | 53 | 54 | 56 | 57 |
| OPR | 58 | 61 | 53 | 52 | 56 | 55 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6620893 | 66 | 67 | 64 | 75 | 71 | 71 |
| Blank | 47 | 47 | 40 | 68 | 57 | 55 |
| OPR | 50 | 50 | 45 | 61 | 56 | 54 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6620893 | 72 | 69 | 67 | 75 | 74 |
| Blank | 55 | 50 | 43 | 66 | 66 |
| OPR | 55 | 53 | 47 | 59 | 60 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303087
Reported: 05/03/12 at 02:13 PM

## Surrogate Quality Control

| | | | | | | |
|---|---|---|---|---|---|---|
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 | |

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 12121001

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6620894 | 80 | 72 | 68 | 66 | 69 | 72 |
| Blank | 83 | 80 | 75 | 76 | 79 | 79 |
| OPR | 75 | 73 | 75 | 75 | 78 | 80 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6620894 | 64 | 62 | 58 | 73 | 71 | 72 |
| Blank | 80 | 74 | 69 | 84 | 82 | 80 |
| OPR | 79 | 78 | 76 | 78 | 82 | 80 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6620894 | 70 | 66 | 61 | 71 | 69 |
| Blank | 82 | 78 | 73 | 74 | 76 |
| OPR | 80 | 82 | 80 | 68 | 74 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cup# 1303087 Sample# 6620879-94

# CHAIN OF CUSTODY RECORD

| CDM | SSFL ..R EA IV COLLOCATED SOIL SAMPLING | | | | | PRI MA ONDARY ANAL | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C.<br>Samplers Signatures: | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-013-NBZ-SS-0.0-0.5 | 4.16.12 | 1007 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-159-NBZ-SS-0.0-0.5 | 4.16.12 | 1101 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-160-NBZ-SS-0.0-0.5 | 4.16.12 | 1440 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-164-NBZ-SS-0.0-0.5 | 4.16.12 | 1135 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-173-NBZ-SS-0.0-0.5MS | 4.16.12 | 1518 | SOIL | NONE | 1-8 oz Jar | X | | | | |
| DUP-08-NBZ-QC-041612 | 4.16.12 | 1523 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-014-NBZ-SS-0.0-0.5 | 4.17.12 | 1010 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-088-NBZ-SS-0.0-0.5 | 4.17.12 | 1100 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-156-NBZ-SS-0.0-0.5 | 4.17.12 | 1117 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-161-NBZ-SS-0.0-0.5 | 4.17.12 | 1150 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-162-NBZ-SS-0.0-0.5 | 4.17.12 | 0955 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-166-NBZ-SS-0.0-0.5 | 4.17.12 | 1030 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| EB-NBZ-SB-041712 | 04.17.12 | 1545 | WATER | NONE | 4-1L Ambers | X | | X | X | |
| EB-NBZ-SB-041712 | 04.17.12 | 1545 | WATER | NONE | 1-250mL Amber | | X | | | |
| EB-NBZ-SS-041712 | 04.17.12 | 1500 | WATER | NONE | 4-1L Ambers | X | | X | X | |
| EB-NBZ-SS-041712 | 04.17.12 | 1500 | WATER | NONE | 1-250mL Amber | | X | | | |
| Relinquished by: (*Signature*) | Date/Time<br>4/17/2012 / 1630 | Received for Laboratory by: (*Signature*)<br>Harry Hutchison III 4/18/12 0940 | | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | Airbill No.(s) | | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# DX170

**NBZ – Data Package Amendment**
**SDG 12D146, SDG 12D166, SDG DX169, SDG DX170**
**6-17-13**

During the database check, an inconsistency in sample identification was discovered that needed to be corrected. They are listed below:

- Two samples for SL-160-NBZ-SS-0.0-0.5 were taken on the same day at the same location.
- One sample was re-assigned as a field duplicate called DUP-10-NBZ-QC-041612.
- The field duplicate sample DUP-10-NBZ-QC-041612 was added to the dt_sample table and the methods in SDG 12D166 and DX170 were assigned to it.

All changes have been documented and verified by the field personnel and data group.

Pam Hartman
Catherine Love
Cherie Zakowski

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# Analysis Report

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DUP-10-NBZ-QC-041612 CZ 6/17/13



Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6624306
LLI Group # 1303751
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2012 14:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7014 SDG#: DX170-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.0 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

DUP-10-NBZ-QC-041612 6/17/13



Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6624306
LLI Group # 1303751
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2012 14:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7014 SDG#: DX170-14

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0244 | U | 0.0244 | 1.12 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.108 | J | 0.0219 | 5.61 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0804 | JBQ | 0.0285 | 5.61 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.246 | JB | 0.0311 | 5.61 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.247 | JB | 0.0310 | 5.61 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.97 | JB | 0.0235 | 5.61 | 1 |
| 11031 | OCDD | 3268-87-9 | 10.7 | JB | 0.0227 | 11.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.208 | JB | 0.0591 | 1.12 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.253 | JBQ | 0.0365 | 5.61 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.605 | JB | 0.0369 | 5.61 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.238 | JB | 0.0276 | 5.61 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.159 | J | 0.0246 | 5.61 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0436 | JB | 0.0302 | 5.61 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.225 | JB | 0.0234 | 5.61 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.492 | JB | 0.0146 | 5.61 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0638 | JB | 0.0236 | 5.61 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.826 | JB | 0.0236 | 11.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 76 | 25 - 164 |
| 13C12-12378-PeCDD | 75 | 25 - 181 |
| 13C12-123478-HxCDD | 96 | 32 - 141 |
| 13C12-123678-HxCDD | 89 | 28 - 130 |
| 13C12-123789-HxCDD | 87 | 28 - 130 |
| 13C12-1234678-HpCDD | 83 | 23 - 140 |
| 13C12-OCDD | 78 | 17 - 157 |
| 13C12-2378-TCDF | 68 | 24 - 169 |
| 13C12-12378-PeCDF | 76 | 24 - 185 |
| 13C12-23478-PeCDF | 70 | 21 - 178 |
| 13C12-123478-HxCDF | 77 | 26 - 152 |
| 13C12-123678-HxCDF | 84 | 26 - 123 |
| 13C12-234678-HxCDF | 90 | 28 - 136 |
| 13C12-123789-HxCDF | 72 | 29 - 147 |
| 13C12-1234678-HpCDF | 97 | 28 - 143 |
| 13C12-1234789-HpCDF | 65 | 26 - 138 |
| 13C12-OCDF | 59 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

DUP-10-NBZ-QC-041612 CZ 6/17/13



Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6624306
LLI Group # 1303751
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2012 14:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7014 SDG#: DX170-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| S | *Saturation of detection signal* | | | | | |

*=This limit was used in the evaluation of the final result

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# Analysis Report

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DUP-10-NBZ-QC-041612 6/17/13



**Sample Description:** SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6624306
LLI Group # 1303751
Account # 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 14:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7014 SDG#: DX170-14

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 09:15 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401B | 05/01/2012 11:51 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6620881
LLI Group # 1303087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/16/2012 14:40

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6906 SDG#: DX169-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 10.2 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6620881
LLI Group # 1303087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/16/2012 14:40

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6906 SDG#: DX169-06

| CAT No. | Analysis Name | | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | | 1746-01-6 | 0.0213 | U | 0.0213 | 1.09 | 1 |
| 11031 | 12378-PeCDD | | 40321-76-4 | 0.0928 | JBQ | 0.0199 | 5.47 | 1 |
| 11031 | 123478-HxCDD | | 39227-28-6 | 0.0864 | JB | 0.0293 | 5.47 | 1 |
| 11031 | 123678-HxCDD | | 57653-85-7 | 0.165 | JB | 0.0274 | 5.47 | 1 |
| 11031 | 123789-HxCDD | | 19408-74-3 | 0.172 | JB | 0.0269 | 5.47 | 1 |
| 11031 | 1234678-HpCDD | | 35822-46-9 | 1.94 | JB | 0.0228 | 5.47 | 1 |
| 11031 | OCDD | | 3268-87-9 | 12.9 | B | 0.0182 | 10.9 | 1 |
| 11031 | 2378-TCDF | | 51207-31-9 | 0.0924 | JB | 0.0412 | 1.09 | 1 |
| 11031 | 12378-PeCDF | | 57117-41-6 | 0.139 | JB | 0.0233 | 5.47 | 1 |
| 11031 | 23478-PeCDF | | 57117-31-4 | 0.261 | JB | 0.0214 | 5.47 | 1 |
| 11031 | 123478-HxCDF | | 70648-26-9 | 0.120 | JB | 0.0197 | 5.47 | 1 |
| 11031 | 123678-HxCDF | | 57117-44-9 | 0.0911 | JB | 0.0190 | 5.47 | 1 |
| 11031 | 123789-HxCDF | | 72918-21-9 | 0.0288 | JB | 0.0192 | 5.47 | 1 |
| 11031 | 234678-HxCDF | | 60851-34-5 | 0.158 | JB | 0.0185 | 5.47 | 1 |
| 11031 | 1234678-HpCDF | | 67562-39-4 | 0.474 | JB | 0.0219 | 5.47 | 1 |
| 11031 | 1234789-HpCDF | | 55673-89-7 | 0.0688 | JB | 0.0255 | 5.47 | 1 |
| 11031 | OCDF | | 39001-02-0 | 0.711 | JB | 0.0141 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 84 | 25 - 164 |
| 13C12-12378-PeCDD | 86 | 25 - 181 |
| 13C12-123478-HxCDD | 88 | 32 - 141 |
| 13C12-123678-HxCDD | 101 | 28 - 130 |
| 13C12-123789-HxCDD | 96 | 28 - 130 |
| 13C12-1234678-HpCDD | 88 | 23 - 140 |
| 13C12-OCDD | 86 | 17 - 157 |
| 13C12-2378-TCDF | 77 | 24 - 169 |
| 13C12-12378-PeCDF | 82 | 24 - 185 |
| 13C12-23478-PeCDF | 83 | 21 - 178 |
| 13C12-123478-HxCDF | 79 | 26 - 152 |
| 13C12-123678-HxCDF | 79 | 26 - 123 |
| 13C12-234678-HxCDF | 82 | 28 - 136 |
| 13C12-123789-HxCDF | 86 | 29 - 147 |
| 13C12-1234678-HpCDF | 87 | 28 - 143 |
| 13C12-1234789-HpCDF | 82 | 26 - 138 |
| 13C12-OCDF | 80 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

- *B Detected in Method Blank*
- *U Undetected*
- *J Estimated concentration between Estimated Detection Limit and Minimum Level*
- *E Exceeds calibration range*
- *C Confirmed quantitation on secondary GC column*
- *Q EMPC - Estimated Maximum Possible Concentration*
- *F Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6620881
LLI Group # 1303087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/16/2012 14:40

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6906 SDG#: DX169-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| S | *Saturation of detection signal* | | | | | |

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6620881
LLI Group # 1303087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/16/2012 14:40

Submitted: 04/18/2012 09:40
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X6906 SDG#: DX169-06

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12111004 | 04/24/2012 00:22 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12111004 | 04/20/2012 12:45 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401A | 05/01/2012 11:51 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| Batch No. | : 120166 | Date Extracted | : 04/25/1211:53 |
| Sample ID | : SL-160-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/02/12 21:13 |
| Lab Samp ID | : D166-09 | Dilution Factor | : 1 |
| Lab File ID | : REL078 DUP-10-NBZ-QC- CK11612 | Matrix | : SOIL |
| Ext Btch ID | : SVD047S | % Moisture | : 10.8 |
| Calib. Ref. | : RDL204 | Instrument ID | : T-OE9 |

EZ 6/7/12

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 750 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 834 | 1121 | 74.4 | 35-130 |
| 2-FLUOROBIPHENYL | 292 | 373.7 | 78.2 | 45-130 |
| 2-FLUOROPHENOL | 791 | 1121 | 70.6 | 25-130 |
| NITROBENZENE-D5 | 244 | 373.7 | 65.2 | 40-130 |
| PHENOL-D5 | 812 | 1121 | 72.4 | 25-120 |
| TERPHENYL-D14 | 381 | 373.7 | 102 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 21:13 |
| Lab Samp ID: D166-09 DUP-10-NBZ-QC-041612 | Dilution Factor: 1 |
| Lab File ID: REL078 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 10.8 |
| Calib. Ref.: RDL204 cz 6/17/13 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)PYRENE | ND | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.95 |
| CHRYSENE | ND | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | ND | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.95 |
| NAPHTHALENE | ND | 1.9 | 0.95 |
| PHENANTHRENE | ND | 1.9 | 0.95 |
| PYRENE | ND | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | 9.6J | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 240 | 373.7 | 64.2 | 40-130 |
| 2-FLUOROBIPHENYL | 256 | 373.7 | 68.6 | 45-130 |
| TERPHENYL-D14 | 347 | 373.7 | 92.8 | 45-135 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 19:12 |
| Lab Samp ID: D166-09 | Dilution Factor: 1 |
| Lab File ID: MD27027A DUP-b-NBZ-QC- | Matrix : SOIL |
| Ext Btch ID: CPD054S 04/6/12 CZ 6/07/13 | % Moisture : 10.8 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | | RL (ug/kg) | MDL (ug/kg) | |
|---|---|---|---|---|---|
| ALPHA-BHC | 0.61 | (ND) | 0.19 | 0.095 | 0.095 |
| GAMMA-BHC (LINDANE) | (ND) | ND | 0.19 | 0.095 | 0.095 |
| BETA-BHC | (ND) | ND | 0.19 | 0.095 | 0.095 |
| HEPTACHLOR | (ND) | 0.23 | 0.19 | 0.095 | 0.095 |
| DELTA-BHC | (ND) | 1.1 | 0.19 | 0.095 | 0.095 |
| ALDRIN | (ND) | 0.38 | 0.19 | 0.095 | 0.095 |
| HEPTACHLOR EPOXIDE | 0.35 | (ND) | 0.19 | 0.095 | 0.095 |
| ENDOSULFAN I | (ND) | 0.13J | 0.19 | 0.095 | 0.095 |
| 4,4'-DDE | (1.1) | 0.89 | 0.38 | 0.19 | 0.19 |
| DIELDRIN | (ND) | ND | 0.38 | 0.19 | 0.19 |
| ENDRIN | (ND) | ND | 0.38 | 0.19 | 0.19 |
| 4,4'-DDD | (ND) | 0.92 | 0.38 | 0.19 | 0.19 |
| ENDOSULFAN II | (ND) | ND | 0.38 | 0.19 | 0.19 |
| 4,4'-DDT | (1.7) | 1.6 | 0.38 | 0.19 | 0.19 |
| ENDRIN ALDEHYDE | (ND) | 0.25J | 0.38 | 0.19 | 0.19 |
| ENDOSULFAN SULFATE | (ND) | 0.98 | 0.38 | 0.19 | 0.19 |
| ENDRIN KETONE | 0.98 | (ND) | 0.38 | 0.19 | 0.19 |
| METHOXYCHLOR | 2.5 | (ND) | 1.9 | 0.95 | 0.95 |
| MIREX | (ND) | ND | 0.38 | 0.19 | 0.19 |
| TOXAPHENE | (ND) | ND | 7.4 | 3.7 | 3.7 |
| CHLORDANE (TECHNICAL) | (ND) | ND | 3.8 | 1.9 | 1.9 |

| SURROGATE PARAMETERS | RESULTS | | SPK_AMT | % RECOVERY | | QC LIMIT |
|---|---|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.593 | (5.594) | 5.979 | 76.8 | (93.6) | 50-130 |
| DECACHLOROBIPHENYL | (5.786) | 4.684 | 5.979 | (96.8) | 78.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/26/12 17:43 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/14/12 18:37 |
| Lab Samp ID: D166-09 DUP-10-NBZ-QC-041612 cz 6/7/13 | Dilution Factor: 1 |
| Lab File ID: KE14012A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 10.8 |
| Calib. Ref.: KE14003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1221 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1232 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1242 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1248 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1254 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1260 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1262 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1268 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 5432 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| AROCLOR 5442 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| AROCLOR 5460 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.005) \| 4.897 | 5.979 | (117) \| 81.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.558) \| 4.527 | 5.979 | (110) \| 75.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 120166 | Date Extracted: 04/23/12 17:23 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 18:48 |
| Lab Samp ID: D166-09 DUP-10-NBZ-QC-04/16/12 | Dilution Factor: 1 |
| Lab File ID: WD25026A | Matrix : SOIL |
| Ext Btch ID: HED012S | % Moisture : 10.8 |
| Calib. Ref.: WD25020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 4.0 | 2.0 \| 2.0 |
| 2,4-DB | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| 2,4,5-T | 0.34 \| (ND) | 0.19 | 0.095 \| 0.095 |
| 2,4,5-TP(SILVEX) | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| DALAPON | (ND) \| ND | 10 | 5.0 \| 5.0 |
| DICAMBA | (ND) \| ND | 1.3 | 0.67 \| 0.67 |
| DICHLOROPROP | (ND) \| ND | 2.7 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| MCPA | (ND) \| ND | 280 | 140 \| 140 |
| MCPP | (ND) \| ND | 280 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (231.8) \| 180.3 | 168.2 | (138) \| 107 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 6020
METALS BY ICP-MS

oz 6/17/13

DUP-10-NBZ-QC-041612

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 04/18/12 |
| SDG NO. | : 12D166 | Date Extracted: | 04/25/12 10:28 |
| Sample ID: | SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: | 04/30/12 17:50 # 05/01/12 19:01 |
| Lab Samp ID: | D166-09 #D166-09W | Dilution Factor: | 0.976 |
| Lab File ID: | 98D21066 #98E01050 | Matrix : | SOIL |
| Ext Btch ID: | IMD036S | % Moisture : | 10.8 |
| Calib. Ref.: | 98D21062 #98E01041 | Instrument ID : | T-198 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 9610 | 26.3 | 13.1 |
| | Antimony | 0.164J | 0.219 | 0.109 |
| | Arsenic | 4.70 | 0.438 | 0.219 |
| | Barium | 60.5 | 0.438 | 0.219 |
| | Beryllium | 0.494 | 0.109 | 0.0547 |
| | Boron | ND | 5.47 | 2.74 |
| | Cadmium | 0.205 | 0.109 | 0.0547 |
| | Calcium | 2290 | 21.9 | 10.9 |
| | Chromium | 11.2 | 0.438 | 0.219 |
| | Cobalt | 4.81 | 0.109 | 0.0547 |
| | Copper | 6.78 | 0.438 | 0.219 |
| | Iron | 20100 | 21.9 | 10.9 |
| | Lead | 9.49 | 0.219 | 0.109 |
| | Magnesium | 4160 | 10.9 | 5.47 |
| | Manganese | 260 | 0.547 | 0.274 |
| | Molybdenum | 0.359 | 0.109 | 0.0547 |
| | Nickel | 7.36 | 0.438 | 0.219 |
| | Potassium | 2720 | 65.7 | 32.8 |
| | Selenium | 0.887 | 0.438 | 0.219 |
| | Silver | ND | 0.109 | 0.0547 |
| | Sodium | ND | 109 | 54.7 |
| # | Strontium | 10.3 | 0.547 | 0.274 |
| | Thallium | 0.253 | 0.109 | 0.0547 |
| | Tin | ND | 10.9 | 5.47 |
| | Titanium | 785 | 1.09 | 0.547 |
| | Vanadium | 25.7 | 0.109 | 0.0547 |
| | Zinc | 59.1 | 3.28 | 1.64 |
| | Lithium | 28.6 | 2.19 | 1.09 |
| | Phosphorus | 395 | 13.1 | 6.57 |
| | Zirconium | ND | 5.47 | 2.74 |

# Members of the Associated File

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD025SB | ND | 1 | NA | 0.100 | 0.0500 | 04/24/1217:56 | 04/24/1213:30 | M47D017035 | M47D017032 | HGD025S | NA | 04/24/12 |
| LCS1S | HGD025SL | 0.863 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:58 | 04/24/1213:30 | M47D017036 | M47D017032 | HGD025S | NA | 04/24/12 |
| LCD1S | HGD025SC | 0.853 | 1 | NA | 0.100 | 0.0500 | 04/24/1218:00 | 04/24/1213:30 | M47D017037 | M47D017032 | HGD025S | NA | 04/24/12 |
| SL-008-NBZ-SB-4.0-5.0AS | D166-02A | 0.911 | 0.993 | 5.3 | 0.105 | 0.0524 | 04/24/1218:03 | 04/24/1213:30 | M47D017038 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 0.993 | 5.3 | 0.105 | 0.0524 | 04/24/1218:05 | 04/24/1213:30 | M47D017039 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DL | D166-02J | ND | 4.97 | 5.3 | 0.525 | 0.262 | 04/24/1218:07 | 04/24/1213:30 | M47D017040 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M | 0.920 | 0.992 | 5.3 | 0.105 | 0.0524 | 04/24/1218:09 | 04/24/1213:30 | M47D017041 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MSD | D166-02S | 0.921 | 0.995 | 5.3 | 0.105 | 0.0525 | 04/24/1218:11 | 04/24/1213:30 | M47D017042 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 0.998 | 16.0 | 0.119 | 0.0594 | 04/24/1218:13 | 04/24/1213:30 | M47D017043 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 0.233 | 0.985 | 12.8 | 0.113 | 0.0565 | 04/24/1218:20 | 04/24/1213:30 | M47D017046 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1.01 | 12.1 | 0.115 | 0.0575 | 04/24/1218:22 | 04/24/1213:30 | M47D017047 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 0.0992J | 0.995 | 12.6 | 0.114 | 0.0569 | 04/24/1218:24 | 04/24/1213:30 | M47D017048 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1.00 | 13.0 | 0.115 | 0.0575 | 04/24/1218:26 | 04/24/1213:30 | M47D017049 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 0.995 | 10.8 | 0.112 | 0.0558 | 04/24/1218:28 | 04/24/1213:30 | M47D017050 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 0.997 | 12.7 | 0.114 | 0.0571 | 04/24/1218:30 | 04/24/1213:30 | M47D017051 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |

DUP-10-NBZ-QC-041612

CZ
6/7/13

GS2

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : DO

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD010SB | ND | 1 | NA | 1.00 | 0.500 | 04/24/1220:12 | 04/23/1211:11 | AD31-39 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCS1S | ICD010SL | 6.34 | 1 | NA | 1.00 | 0.500 | 04/24/1220:28 | 04/23/1211:11 | AD31-40 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCD1S | ICD010SC | 6.31 | 1 | NA | 1.00 | 0.500 | 04/24/1220:44 | 04/23/1211:11 | AD31-41 | AD31-37 | ICD010S | NA | 04/23/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 1.06 | 0.528 | 04/24/1221:00 | 04/23/1211:11 | AD31-42 | AD31-37 | ICD010S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 1 | 16.0 | 1.19 | 0.595 | 04/24/1221:16 | 04/23/1211:11 | AD31-43 | AD31-37 | ICD010S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 0.831J | 1 | 12.8 | 1.15 | 0.573 | 04/24/1221:33 | 04/23/1211:11 | AD31-44 | AD31-37 | ICD010S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | 1.26 | 1 | 12.1 | 1.14 | 0.569 | 04/24/1221:49 | 04/23/1211:11 | AD31-45 | AD31-37 | ICD010S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 0.692J | 1 | 12.6 | 1.14 | 0.572 | 04/24/1222:05 | 04/23/1211:11 | AD31-46 | AD31-37 | ICD010S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 1.15 | 0.575 | 04/24/1222:21 | 04/23/1211:11 | AD31-47 | AD31-37 | ICD010S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 1.12 | 0.561 | 04/24/1223:26 | 04/23/1211:11 | AD31-51 | AD31-49 | ICD010S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 1.15 | 0.573 | 04/24/1223:42 | 04/23/1211:11 | AD31-52 | AD31-49 | ICD010S | 04/18/1211:20 | 04/18/12 |

DUP-10-NBZ-QC-041612

EZ
6/07/13

1827

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD018SB | ND | 1 | NA | 20.0 | 10.0 | 04/23/1221:48 | 04/23/1211:30 | JD23031 | JD23030 | PCD018S | NA | 04/23/12 |
| LCS1S | PCD018SL | 241 | 1 | NA | 20.0 | 10.0 | 04/23/1222:30 | 04/23/1211:30 | JD23033 | JD23030 | PCD018S | NA | 04/23/12 |
| LCD1S | PCD018SC | 243 | 1 | NA | 20.0 | 10.0 | 04/23/1222:51 | 04/23/1211:30 | JD23034 | JD23030 | PCD018S | NA | 04/23/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 21.1 | 10.6 | 04/23/1223:12 | 04/23/1211:30 | JD23035 | JD23030 | PCD018S | 04/18/1209:55 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | ND | 1 | 12.8 | 22.9 | 11.5 | 04/23/1223:54 | 04/23/1211:30 | JD23037 | JD23030 | PCD018S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1 | 12.1 | 22.8 | 11.4 | 04/24/1200:15 | 04/23/1211:30 | JD23038 | JD23030 | PCD018S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | ND | 1 | 12.6 | 22.9 | 11.4 | 04/24/1200:36 | 04/23/1211:30 | JD23039 | JD23030 | PCD018S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 23.0 | 11.5 | 04/24/1201:39 | 04/23/1211:30 | JD23042 | JD23041 | PCD018S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 22.4 | 11.2 | 04/24/1202:00 | 04/23/1211:30 | JD23043 | JD23041 | PCD018S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 22.9 | 11.5 | 04/24/1202:21 | 04/23/1211:30 | JD23044 | JD23041 | PCD018S | 04/18/1211:20 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 5 | 16.0 | 119 | 59.5 | 04/24/1210:44 | 04/23/1211:30 | JD23064 | JD23062 | PCD018S | 04/18/1210:00 | 04/18/12 |

DUP-10-NBZ-QC-041612

CZ
6/17/13

Ch2 1

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD012SB | ND | 1 | NA | 1.00 | 0.500 | 04/25/1215:02 | 04/24/1216:57 | ID25003 | ID25001 | HCD012S | NA | 04/24/12 |
| MBLK1S | HCD012SQ | ND | 1 | NA | 1.00 | 0.500 | 04/25/1215:13 | 04/24/1216:57 | ID25004 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS1S | CID012SL | 337 | 20 | NA | 20.0 | 10.0 | 04/25/1215:44 | 04/24/1216:57 | ID25007 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS1S | CID012SX | 341 | 20 | NA | 20.0 | 10.0 | 04/25/1215:55 | 04/24/1216:57 | ID25008 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS2S | CSD012SL | 8.77 | 1 | NA | 1.00 | 0.500 | 04/25/1219:18 | 04/24/1216:57 | ID25023 | ID25013 | HCD012S | NA | 04/24/12 |
| LCS2S | CSD012SX | 8.57 | 1 | NA | 1.00 | 0.500 | 04/25/1219:28 | 04/24/1216:57 | ID25024 | ID25013 | HCD012S | NA | 04/24/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M | 9.82 | 1 | 5.3 | 1.06 | 0.528 | 04/25/1216:33 | 04/24/1216:57 | ID25009 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M1 | 9.75 | 1 | 5.3 | 1.06 | 0.528 | 04/25/1216:44 | 04/24/1216:57 | ID25010 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02G | 470 | 20 | 5.3 | 21.1 | 10.6 | 04/25/1216:54 | 04/24/1216:57 | ID25011 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02G1 | 495 | 20 | 5.3 | 21.1 | 10.6 | 04/25/1217:05 | 04/24/1216:57 | ID25012 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1217:54 | 04/24/1216:57 | ID25015 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02R | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:04 | 04/24/1216:57 | ID25016 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DUP | D166-02D | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:14 | 04/24/1216:57 | ID25017 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DUP | D166-02Z | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:25 | 04/24/1216:57 | ID25018 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 1 | 16.0 | 1.19 | 0.595 | 04/25/1220:30 | 04/24/1216:57 | ID25029 | ID25025 | HCD012S | 04/18/1210:00 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03R | ND | 1 | 16.0 | 1.19 | 0.595 | 04/25/1220:41 | 04/24/1216:57 | ID25030 | ID25025 | HCD012S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | ND | 1 | 12.8 | 1.15 | 0.573 | 04/25/1220:51 | 04/24/1216:57 | ID25031 | ID25025 | HCD012S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04R | ND | 1 | 12.8 | 1.15 | 0.573 | 04/25/1221:02 | 04/24/1216:57 | ID25032 | ID25025 | HCD012S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1 | 12.1 | 1.14 | 0.569 | 04/25/1221:12 | 04/24/1216:57 | ID25033 | ID25025 | HCD012S | 04/18/1210:57 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06R | ND | 1 | 12.1 | 1.14 | 0.569 | 04/25/1221:22 | 04/24/1216:57 | ID25034 | ID25025 | HCD012S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | ND | 1 | 12.6 | 1.14 | 0.572 | 04/25/1221:33 | 04/24/1216:57 | ID25035 | ID25025 | HCD012S | 04/18/1214:06 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07R | ND | 1 | 12.6 | 1.14 | 0.572 | 04/25/1221:43 | 04/24/1216:57 | ID25036 | ID25025 | HCD012S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 1.15 | 0.575 | 04/25/1222:25 | 04/24/1216:57 | ID25039 | ID25037 | HCD012S | 04/18/1215:40 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08R | ND | 1 | 13.0 | 1.15 | 0.575 | 04/25/1222:35 | 04/24/1216:57 | ID25040 | ID25037 | HCD012S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 1.12 | 0.561 | 04/25/1222:46 | 04/24/1216:57 | ID25041 | ID25037 | HCD012S | 04/18/1214:25 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09R | ND | 1 | 10.8 | 1.12 | 0.561 | 04/25/1222:56 | 04/24/1216:57 | ID25042 | ID25037 | HCD012S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 1.15 | 0.573 | 04/25/1223:06 | 04/24/1216:57 | ID25043 | ID25037 | HCD012S | 04/18/1211:20 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10R | ND | 1 | 12.7 | 1.15 | 0.573 | 04/25/1223:17 | 04/24/1216:57 | ID25044 | ID25037 | HCD012S | 04/18/1211:20 | 04/18/12 |

DUP-10-NBZ-QC-041612

CZ
6/7/13

0659

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | 6.55 | 1 | NA | NA | NA | 04/19/1217:45 | 04/19/1217:32 | 12PHD021S08 | PHD021S | PHD021S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | 6.50 | 1 | NA | NA | NA | 04/19/1217:46 | 04/19/1217:32 | 12PHD021S09 | PHD021S | PHD021S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 6.52 | 1 | NA | NA | NA | 04/19/1217:47 | 04/19/1217:32 | 12PHD021S10 | PHD021S | PHD021S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | 6.72 | 1 | NA | NA | NA | 04/19/1217:52 | 04/19/1217:32 | 12PHD021S11 | PHD021S | PHD021S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 6.95 | 1 | NA | NA | NA | 04/19/1217:54 | 04/19/1217:32 | 12PHD021S12 | PHD021S | PHD021S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | 7.19 | 1 | NA | NA | NA | 04/19/1217:55 | 04/19/1217:32 | 12PHD021S13 | PHD021S | PHD021S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | 6.25 | 1 | NA | NA | NA | 04/19/1217:57 | 04/19/1217:32 | 12PHD021S14 | PHD021S | PHD021S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | 6.71 | 1 | NA | NA | NA | 04/19/1217:59 | 04/19/1217:32 | 12PHD021S15 | PHD021S | PHD021S | 04/18/1211:20 | 04/18/12 |

DUP-10-NBZ-QC-041612

CZ
6/17/13

GZT

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/1211:53 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 16:52 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: REL068 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 10.4 |
| Calib. Ref.: RDL204 | Instrument ID : T-0E9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 740 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 789 | 1116 | 70.7 | 35-130 |
| 2-FLUOROBIPHENYL | 237 | 372.0 | 63.7 | 45-130 |
| 2-FLUOROPHENOL | 597 | 1116 | 53.5 | 25-130 |
| NITROBENZENE-D5 | 184 | 372.0 | 49.5 | 40-130 |
| PHENOL-D5 | 633 | 1116 | 56.7 | 25-120 |
| TERPHENYL-D14 | 388 | 372.0 | 104 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 16:52 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: REL068 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 10.4 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | 1.4J | 1.9 | 0.95 |
| BENZO(A)PYRENE | ND | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.95 |
| CHRYSENE | ND | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | ND | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.95 |
| NAPHTHALENE | ND | 1.9 | 0.95 |
| PHENANTHRENE | ND | 1.9 | 0.95 |
| PYRENE | ND | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 13J | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | 9.4J | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 180 | 372.0 | 48.5 | 40-130 |
| 2-FLUOROBIPHENYL | 211 | 372.0 | 56.7 | 45-130 |
| TERPHENYL-D14 | 372 | 372.0 | 99.9 | 45-135 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 13:40 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 17:06 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: MD26019A | Matrix : SOIL |
| Ext Btch ID: CPD042S | % Moisture : 10.4 |
| Calib. Ref.: MD26008A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | | RL (ug/kg) | MDL (ug/kg) | |
|---|---|---|---|---|---|
| ALPHA-BHC | 0.59 | (ND) | 0.19 | 0.095 | 0.095 |
| GAMMA-BHC (LINDANE) | (ND) | ND | 0.19 | 0.095 | 0.095 |
| BETA-BHC | (ND) | ND | 0.19 | 0.095 | 0.095 |
| HEPTACHLOR | (ND) | ND | 0.19 | 0.095 | 0.095 |
| DELTA-BHC | (ND) | ND | 0.19 | 0.095 | 0.095 |
| ALDRIN | (ND) | 0.46 | 0.19 | 0.095 | 0.095 |
| HEPTACHLOR EPOXIDE | 0.32 | (ND) | 0.19 | 0.095 | 0.095 |
| ENDOSULFAN I | (ND) | 0.12J | 0.19 | 0.095 | 0.095 |
| 4,4'-DDE | 0.42 | (0.92) | 0.38 | 0.19 | 0.19 |
| DIELDRIN | 0.28J | (ND) | 0.38 | 0.19 | 0.19 |
| ENDRIN | (ND) | 0.40 | 0.38 | 0.19 | 0.19 |
| 4,4'-DDD | (ND) | 1.1 | 0.38 | 0.19 | 0.19 |
| ENDOSULFAN II | (ND) | ND | 0.38 | 0.19 | 0.19 |
| 4,4'-DDT | (0.35J) | 0.60 | 0.38 | 0.19 | 0.19 |
| ENDRIN ALDEHYDE | (ND) | 0.21J | 0.38 | 0.19 | 0.19 |
| ENDOSULFAN SULFATE | 0.50 | (ND) | 0.38 | 0.19 | 0.19 |
| ENDRIN KETONE | 3.4 | (ND) | 0.38 | 0.19 | 0.19 |
| METHOXYCHLOR | 14 | (ND) | 1.9 | 0.95 | 0.95 |
| MIREX | (ND) | ND | 0.38 | 0.19 | 0.19 |
| TOXAPHENE | (ND) | ND | 7.4 | 3.7 | 3.7 |
| CHLORDANE (TECHNICAL) | (ND) | ND | 3.8 | 1.9 | 1.9 |

| SURROGATE PARAMETERS | RESULTS | | SPK_AMT | % RECOVERY | | QC LIMIT |
|---|---|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.923 | (6.211) | 5.952 | 82.7 | (104) | 50-130 |
| DECACHLOROBIPHENYL | (4.740) | 4.594 | 5.952 | (79.6) | 77.2 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8082

PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/12 17:21 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/11/12 15:10 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: KE11009A | Matrix : SOIL |
| Ext Btch ID: CPD058S | % Moisture : 10.4 |
| Calib. Ref.: KE11003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1221 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1232 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1242 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1248 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1254 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1260 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1262 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1268 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 5432 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| AROCLOR 5442 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| AROCLOR 5460 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.764) \| 5.451 | 5.952 | (114) \| 91.6 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.225) \| 4.756 | 5.952 | (105) \| 79.9 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 17:20 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/23/12 18:13 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: WD23015A | Matrix : SOIL |
| Ext Btch ID: HED011S | % Moisture : 10.4 |
| Calib. Ref.: WD23002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 4.0 | 2.0 \| 2.0 |
| 2,4-DB | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| 2,4,5-T | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| 2,4,5-TP(SILVEX) | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| DALAPON | (ND) \| ND | 10 | 5.0 \| 5.0 |
| DICAMBA | (ND) \| ND | 1.3 | 0.67 \| 0.67 |
| DICHLOROPROP | (ND) \| ND | 2.7 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| MCPA | (ND) \| ND | 280 | 140 \| 140 |
| MCPP | (ND) \| ND | 280 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (168.7) \| 119.7 | 167.4 | (101) \| 71.5 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 04/16/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 04/16/12 |
| SDG NO. | : 12D146 | Date Extracted: | 04/24/12 10:33 |
| Sample ID: | SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: | 05/03/12 19:39 |
| Lab Samp ID: | D146-03 | Dilution Factor: | 1.00 |
| Lab File ID: | 98E03110 | Matrix : | SOIL |
| Ext Btch ID: | IMD035S | % Moisture : | 10.4 |
| Calib. Ref.: | 98E03106 | Instrument ID : | T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9850 | 26.8 | 13.4 |
| Antimony | 0.123J | 0.223 | 0.112 |
| Arsenic | 4.36 | 0.446 | 0.223 |
| Barium | 51.9 | 0.446 | 0.223 |
| Beryllium | 0.424 | 0.112 | 0.0558 |
| Boron | ND | 5.58 | 2.79 |
| Cadmium | 0.167 | 0.112 | 0.0558 |
| Calcium | 2340 | 22.3 | 11.2 |
| Chromium | 10.4 | 0.446 | 0.223 |
| Cobalt | 4.59 | 0.112 | 0.0558 |
| Copper | 6.03 | 0.446 | 0.223 |
| Iron | 19300 | 22.3 | 11.2 |
| Lead | 7.04 | 0.223 | 0.112 |
| Magnesium | 4150 | 11.2 | 5.58 |
| Manganese | 254 | 0.558 | 0.279 |
| Molybdenum | 0.352 | 0.112 | 0.0558 |
| Nickel | 6.55 | 0.446 | 0.223 |
| Potassium | 2460 | 67.0 | 33.5 |
| Selenium | 0.687 | 0.446 | 0.223 |
| Silver | ND | 0.112 | 0.0558 |
| Sodium | 57.0J | 112 | 55.8 |
| Strontium | 9.24 | 0.558 | 0.279 |
| Thallium | 0.224 | 0.112 | 0.0558 |
| Tin | ND | 11.2 | 5.58 |
| Titanium | 780 | 1.12 | 0.558 |
| Vanadium | 23.4 | 0.112 | 0.0558 |
| Zinc | 57.1 | 3.35 | 1.67 |
| Lithium | 28.2 | 2.23 | 1.12 |
| Phosphorus | 326 | 13.4 | 6.70 |
| Zirconium | ND | 5.58 | 2.79 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD024SB | ND | 1 | NA | 0.100 | 0.0500 | 04/24/1217:02 | 04/24/1213:00 | M47D017010 | M47D017008 | HGD024S | NA | 04/24/12 |
| LCS1S | HGD024SL | 0.848 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:04 | 04/24/1213:00 | M47D017011 | M47D017008 | HGD024S | NA | 04/24/12 |
| LCD1S | HGD024SC | 0.843 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:06 | 04/24/1213:00 | M47D017012 | M47D017008 | HGD024S | NA | 04/24/12 |
| SL-173-NBZ-SS-0.0-0.5AS | D146-05A | 1.04 | 0.993 | 17.4 | 0.120 | 0.0601 | 04/24/1217:08 | 04/24/1213:00 | M47D017013 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | ND | 0.993 | 17.4 | 0.120 | 0.0601 | 04/24/1217:10 | 04/24/1213:00 | M47D017014 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5DL | D146-05J | ND | 4.97 | 17.4 | 0.602 | 0.301 | 04/24/1217:12 | 04/24/1213:00 | M47D017015 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M | 1.08 | 0.995 | 17.4 | 0.120 | 0.0602 | 04/24/1217:14 | 04/24/1213:00 | M47D017016 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S | 1.07 | 0.995 | 17.4 | 0.120 | 0.0602 | 04/24/1217:16 | 04/24/1213:00 | M47D017017 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | ND | 1.01 | 32.4 | 0.149 | 0.0747 | 04/24/1217:19 | 04/24/1213:00 | M47D017018 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | ND | 0.990 | 12.5 | 0.113 | 0.0566 | 04/24/1217:21 | 04/24/1213:00 | M47D017019 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | ND | 0.993 | 10.4 | 0.111 | 0.0554 | 04/24/1217:28 | 04/24/1213:00 | M47D017022 | M47D017020 | HGD024S | 04/16/12 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | ND | 0.998 | 16.3 | 0.119 | 0.0596 | 04/24/1217:30 | 04/24/1213:00 | M47D017023 | M47D017020 | HGD024S | 04/16/12 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | ND | 0.990 | 16.1 | 0.118 | 0.0590 | 04/24/1217:32 | 04/24/1213:00 | M47D017024 | M47D017020 | HGD024S | 04/16/12 | 04/16/12 |

Ehs

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : DO

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD009SB | ND | 1 | NA | 1.00 | 0.500 | 04/20/1211:52 | 04/19/1210:17 | AD27-06 | AD27-04 | ICD009S | NA | 04/19/12 |
| LCS1S | ICD009SL | 6.26 | 1 | NA | 1.00 | 0.500 | 04/20/1212:08 | 04/19/1210:17 | AD27-07 | AD27-04 | ICD009S | NA | 04/19/12 |
| LCD1S | ICD009SC | 6.24 | 1 | NA | 1.00 | 0.500 | 04/20/1212:24 | 04/19/1210:17 | AD27-08 | AD27-04 | ICD009S | NA | 04/19/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | 0.829J | 1 | 32.4 | 1.48 | 0.740 | 04/20/1213:12 | 04/19/1210:17 | AD27-11 | AD27-04 | ICD009S | 04/16/1210:07 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | ND | 1 | 12.5 | 1.14 | 0.571 | 04/20/1213:29 | 04/19/1210:17 | AD27-12 | AD27-04 | ICD009S | 04/16/1211:01 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | ND | 1 | 10.4 | 1.12 | 0.558 | 04/20/1213:45 | 04/19/1210:17 | AD27-13 | AD27-04 | ICD009S | 04/16/1214:40 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | ND | 1 | 16.3 | 1.19 | 0.597 | 04/20/1214:01 | 04/19/1210:17 | AD27-14 | AD27-04 | ICD009S | 04/16/1211:35 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | ND | 1 | 16.1 | 1.19 | 0.596 | 04/20/1214:17 | 04/19/1210:17 | AD27-15 | AD27-04 | ICD009S | 04/16/1215:23 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | ND | 1 | 17.4 | 1.21 | 0.605 | 04/20/1215:06 | 04/19/1210:17 | AD27-18 | AD27-16 | ICD009S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M | 8.15 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1215:22 | 04/19/1210:17 | AD27-19 | AD27-16 | ICD009S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S | 8.27 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1215:38 | 04/19/1210:17 | AD27-20 | AD27-16 | ICD009S | 04/16/1215:18 | 04/16/12 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD016SB | ND | 1 | NA | 20.0 | 10.0 | 04/23/1211:26 | 04/19/1210:30 | JD23002 | JD23001 | PCD016S | NA | 04/19/12 |
| LCS1S | PCD016SL | 252 | 1 | NA | 20.0 | 10.0 | 04/23/1212:08 | 04/19/1210:30 | JD23004 | JD23001 | PCD016S | NA | 04/19/12 |
| LCD1S | PCD016SC | 243 | 1 | NA | 20.0 | 10.0 | 04/23/1212:29 | 04/19/1210:30 | JD23005 | JD23001 | PCD016S | NA | 04/19/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | ND | 1 | 32.4 | 29.6 | 14.8 | 04/23/1213:36 | 04/19/1210:30 | JD23008 | JD23001 | PCD016S | 04/16/1210:07 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | ND | 1 | 12.5 | 22.9 | 11.4 | 04/23/1213:57 | 04/19/1210:30 | JD23009 | JD23001 | PCD016S | 04/16/1211:01 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | ND | 1 | 10.4 | 22.3 | 11.2 | 04/23/1214:18 | 04/19/1210:30 | JD23010 | JD23001 | PCD016S | 04/16/1214:40 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | ND | 1 | 16.3 | 23.9 | 11.9 | 04/23/1215:21 | 04/19/1210:30 | JD23013 | JD23012 | PCD016S | 04/16/1211:35 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | ND | 1 | 17.4 | 24.2 | 12.1 | 04/23/1215:42 | 04/19/1210:30 | JD23014 | JD23012 | PCD016S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M | 300 | 1 | 17.4 | 24.2 | 12.1 | 04/23/1216:03 | 04/19/1210:30 | JD23015 | JD23012 | PCD016S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S | 301 | 1 | 17.4 | 24.2 | 12.1 | 04/23/1216:24 | 04/19/1210:30 | JD23016 | JD23012 | PCD016S | 04/16/1215:18 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | ND | 1 | 16.1 | 23.8 | 11.9 | 04/23/1216:46 | 04/19/1210:30 | JD23017 | JD23012 | PCD016S | 04/16/1215:23 | 04/16/12 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD010SB | ND | 1 | NA | 1.00 | 0.500 | 04/20/1217:40 | 04/18/1215:06 | ID21013 | ID21011 | HCD010S | NA | 04/18/12 |
| MBLK1S | HCD010SQ | ND | 1 | NA | 1.00 | 0.500 | 04/20/1217:50 | 04/18/1215:06 | ID21014 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS1S | CSD010SL | 9.63 | 1 | NA | 1.00 | 0.500 | 04/20/1218:00 | 04/18/1215:06 | ID21015 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS1S | CSD010SX | 11.5 | 1 | NA | 1.00 | 0.500 | 04/20/1218:11 | 04/18/1215:06 | ID21016 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS2S | CID010SL | 467 | 25 | NA | 25.0 | 12.5 | 04/20/1218:21 | 04/18/1215:06 | ID21017 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS2S | CID010SX | 465 | 25 | NA | 25.0 | 12.5 | 04/20/1218:32 | 04/18/1215:06 | ID21018 | ID21011 | HCD010S | NA | 04/18/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M | 11.0 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1218:42 | 04/18/1215:06 | ID21019 | ID21011 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M1 | 12.3 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1218:52 | 04/18/1215:06 | ID21020 | ID21011 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S | 10.9 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1219:03 | 04/18/1215:06 | ID21021 | ID21011 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S1 | 11.3 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1219:13 | 04/18/1215:06 | ID21022 | ID21011 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | ND | 1 | 17.4 | 1.21 | 0.605 | 04/20/1220:36 | 04/18/1215:06 | ID21029 | ID21023 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05R | ND | 1 | 17.4 | 1.21 | 0.605 | 04/20/1220:47 | 04/18/1215:06 | ID21030 | ID21023 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | ND | 1 | 32.4 | 1.48 | 0.740 | 04/20/1222:10 | 04/18/1215:06 | ID21037 | ID21035 | HCD010S | 04/16/1210:07 | 04/16/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01R | ND | 1 | 32.4 | 1.48 | 0.740 | 04/20/1222:21 | 04/18/1215:06 | ID21038 | ID21035 | HCD010S | 04/16/1210:07 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | ND | 1 | 12.5 | 1.14 | 0.571 | 04/20/1222:31 | 04/18/1215:06 | ID21039 | ID21035 | HCD010S | 04/16/1211:01 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02R | ND | 1 | 12.5 | 1.14 | 0.571 | 04/20/1222:41 | 04/18/1215:06 | ID21040 | ID21035 | HCD010S | 04/16/1211:01 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | ND | 1 | 10.4 | 1.12 | 0.558 | 04/20/1222:52 | 04/18/1215:06 | ID21041 | ID21035 | HCD010S | 04/16/1214:40 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03R | ND | 1 | 10.4 | 1.12 | 0.558 | 04/20/1223:02 | 04/18/1215:06 | ID21042 | ID21035 | HCD010S | 04/16/1214:40 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | ND | 1 | 16.3 | 1.19 | 0.597 | 04/20/1223:13 | 04/18/1215:06 | ID21043 | ID21035 | HCD010S | 04/16/1211:35 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04R | ND | 1 | 16.3 | 1.19 | 0.597 | 04/20/1223:23 | 04/18/1215:06 | ID21044 | ID21035 | HCD010S | 04/16/1211:35 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | ND | 1 | 16.1 | 1.19 | 0.596 | 04/20/1223:33 | 04/18/1215:06 | ID21045 | ID21035 | HCD010S | 04/16/1215:23 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06R | ND | 1 | 16.1 | 1.19 | 0.596 | 04/20/1223:44 | 04/18/1215:06 | ID21046 | ID21035 | HCD010S | 04/16/1215:23 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05G | 107 | 5 | 17.4 | 6.05 | 3.03 | 04/23/1221:09 | 04/18/1215:06 | ID23009 | ID23001 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05G1 | 105 | 5 | 17.4 | 6.05 | 3.03 | 04/23/1221:19 | 04/18/1215:06 | ID23010 | ID23001 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05H | 107 | 5 | 17.4 | 6.05 | 3.03 | 04/23/1221:29 | 04/18/1215:06 | ID23011 | ID23001 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05H1 | 109 | 5 | 17.4 | 6.05 | 3.03 | 04/23/1221:40 | 04/18/1215:06 | ID23012 | ID23001 | HCD010S | 04/16/1215:18 | 04/16/12 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | 6.92 | 1 | NA | NA | NA | 04/17/1213:02 | 04/17/1213:02 | 12PHD015S01 | PHD015S | PHD015S | 04/16/1210:07 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | 6.12 | 1 | NA | NA | NA | 04/17/1213:04 | 04/17/1213:02 | 12PHD015S02 | PHD015S | PHD015S | 04/16/1211:01 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | 6.36 | 1 | NA | NA | NA | 04/17/1213:07 | 04/17/1213:02 | 12PHD015S03 | PHD015S | PHD015S | 04/16/1214:40 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | 6.24 | 1 | NA | NA | NA | 04/17/1213:14 | 04/17/1213:02 | 12PHD015S04 | PHD015S | PHD015S | 04/16/1211:35 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | 6.82 | 1 | NA | NA | NA | 04/17/1213:16 | 04/17/1213:02 | 12PHD015S05 | PHD015S | PHD015S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5DUP | D146-05D | 6.83 | 1 | NA | NA | NA | 04/17/1213:17 | 04/17/1213:02 | 12PHD015S06 | PHD015S | PHD015S | 04/16/1215:18 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | 6.55 | 1 | NA | NA | NA | 04/17/1213:19 | 04/17/1213:02 | 12PHD015S07 | PHD015S | PHD015S | 04/16/1215:23 | 04/16/12 |

**NBZ – Data Package Amendment**
**SDG 12D166, SDG DE311, SDG DX170**
**6-17-13**

During the database check, an inconsistency in sample identification was discovered that needed to be corrected. They are listed below:

- Methods (NDMA, Formaldehyde, Terphenyls, and Dioxins) from sample SL-083-NBZ-SB-0.0-0.5 were moved to SL-083-NBZ-SS-0.0-0.5.
- Sample SL-083-NBZ-SB-0.0-0.5 was removed.

All changes have been documented and verified by the field personnel and data group.

Pam Hartman
Catherine Love
Cherie Zakowski

eurofins | Lancaster Laboratories

# Analysis Report

CZ 6/7/13



Sample Description: SL-083-NBZ-~~SB~~SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-NBZ-SB

LLI Sample # SW 6622564
LLI Group # 1303405
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected 04/18/2012 14 06

Submitted 04/19/2012 09 10
Reported 04/30/2012 15 25

CDM Federal Programs Corp
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1106 SDG# DE311-06*

| CAT No | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | ng/kg | | ng/kg | ng/kg | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 19 2 | U | 19 2 | 38 4 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | ug/kg | | ug/kg | ug/kg | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 690 | U | 690 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | mg/kg | | mg/kg | mg/kg | |
| 10318 | m-Terphenyl | 92-06-8 | 1 7 | U | 1 7 | 4 0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1 7 | U | 1 7 | 4 0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1 7 | U | 1 7 | 4 0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | % | | % | % | |
| 11624 | Moisture Content by 160 3 | n a | 13 2 | | 0 50 | 0 50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius The moisture result reported above is on an as-received basis

## General Sample Comments

State of California Lab Certification No 2501

All QC is compliant unless otherwise noted Please refer to the Quality Control Summary for overall QC performance data and associated samples

## Laboratory Sample Analysis Record

| CAT No | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 16 32 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14 15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121130004A | 04/25/2012 00 49 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121130004A | 04/23/2012 13 15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 12 37 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11 55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160 3 | EPA 160 3 modified | 1 | 12115162401A | 04/24/2012 12 21 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc
2425 New Holland Pike
PO Box 12425
Lancaster PA 17605-2425
717-656-2300 Fax 717-656-2681

eurofins | Lancaster Laboratories

# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

SS C2 6/17/13



**Sample Description:** SL-083-NBZ-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-NBZ-SB

**LLI Sample #** SW 6622571
**LLI Group #** 1303406
**Account #** 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 14:06

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7014 SDG#: DX170-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 13.2 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-083-NBZ-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-NBZ-SB

LLI Sample # SW 6622571
LLI Group # 1303406
Account # 13013

**Project Name:** SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2012 14:06

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7014 SDG#: DX170-11

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0337 | J | 0.0276 | 1.13 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0388 | J | 0.0385 | 5.64 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0986 | JB | 0.0396 | 5.64 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.313 | JB | 0.0406 | 5.64 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.243 | JB | 0.0396 | 5.64 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 6.08 | B | 0.0445 | 5.64 | 1 |
| 11031 | OCDD | 3268-87-9 | 75.3 | B | 0.0327 | 11.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.417 | JB | 0.273 | 1.13 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 9.82 | B | 0.113 | 5.64 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.416 | JB | 0.118 | 5.64 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 2.50 | JB | 0.0661 | 5.64 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.146 | J | 0.0603 | 5.64 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.188 | JBQ | 0.0737 | 5.64 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.196 | JB | 0.0609 | 5.64 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.811 | JB | 0.0228 | 5.64 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.156 | JB | 0.0355 | 5.64 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.27 | JB | 0.0291 | 11.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 74 | 25 - 164 |
| 13C12-12378-PeCDD | 75 | 25 - 181 |
| 13C12-123478-HxCDD | 82 | 32 - 141 |
| 13C12-123678-HxCDD | 81 | 28 - 130 |
| 13C12-123789-HxCDD | 80 | 28 - 130 |
| 13C12-1234678-HpCDD | 80 | 23 - 140 |
| 13C12-OCDD | 82 | 17 - 157 |
| 13C12-2378-TCDF | 65 | 24 - 169 |
| 13C12-12378-PeCDF | 76 | 24 - 185 |
| 13C12-23478-PeCDF | 71 | 21 - 178 |
| 13C12-123478-HxCDF | 73 | 26 - 152 |
| 13C12-123678-HxCDF | 78 | 26 - 123 |
| 13C12-234678-HxCDF | 76 | 28 - 136 |
| 13C12-123789-HxCDF | 66 | 29 - 147 |
| 13C12-1234678-HpCDF | 97 | 28 - 143 |
| 13C12-1234789-HpCDF | 66 | 26 - 138 |
| 13C12-OCDF | 61 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

C2 6/19/13

Sample Description: SL-083-NBZ-~~SB~~SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-NBZ-SB

LLI Sample # SW 6622571
LLI Group # 1303406
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2012 14:06

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7014 SDG#: DX170-11

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 06:25 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12115162401A | 04/24/2012 12:21 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/1211:53 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 20:20 |
| Lab Samp ID: D166-07 | Dilution Factor: 1 |
| Lab File ID: REL076 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 12.6 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 96 |
| 1,2-DICHLOROBENZENE | ND | 190 | 96 |
| 1,3-DICHLOROBENZENE | ND | 190 | 96 |
| 1,4-DICHLOROBENZENE | ND | 190 | 96 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 96 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 96 |
| 2,6-DINITROTOLUENE | ND | 190 | 96 |
| 2-CHLORONAPHTHALENE | ND | 190 | 96 |
| 2-CHLOROPHENOL | ND | 190 | 96 |
| 2-METHYLNAPHTHALENE | ND | 190 | 96 |
| 2-METHYLPHENOL | ND | 190 | 96 |
| 2-NITROANILINE | ND | 190 | 96 |
| 2-NITROPHENOL | ND | 190 | 96 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 96 |
| 3-NITROANILINE | ND | 190 | 96 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 96 |
| 4-CHLOROANILINE | ND | 190 | 96 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-METHYLPHENOL (1) | ND | 190 | 96 |
| 4-NITROANILINE | ND | 190 | 96 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 96 |
| ACENAPHTHYLENE | ND | 190 | 96 |
| ANTHRACENE | ND | 190 | 96 |
| BENZO(A)ANTHRACENE | ND | 190 | 96 |
| BENZO(A)PYRENE | ND | 190 | 96 |
| BENZO(B)FLUORANTHENE | ND | 190 | 96 |
| BENZO(K)FLUORANTHENE | ND | 190 | 96 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 96 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 96 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 96 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 96 |
| CHRYSENE | ND | 190 | 96 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 96 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 96 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 96 |
| DIBENZOFURAN | ND | 190 | 96 |
| DIETHYLPHTHALATE | ND | 190 | 96 |
| DIMETHYLPHTHALATE | ND | 190 | 96 |
| FLUORANTHENE | ND | 190 | 96 |
| FLUORENE | ND | 190 | 96 |
| HEXACHLOROBENZENE | ND | 190 | 96 |
| HEXACHLOROBUTADIENE | ND | 190 | 96 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 96 |
| HEXACHLOROETHANE | ND | 190 | 96 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 96 |
| ISOPHORONE | ND | 190 | 96 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 96 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 96 |
| NAPHTHALENE | ND | 190 | 96 |
| NITROBENZENE | ND | 190 | 96 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 96 |
| PHENOL | ND | 190 | 96 |
| PYRENE | ND | 190 | 96 |
| BENZYL ALCOHOL | ND | 190 | 96 |
| 1-METHYLNAPHTHALENE | ND | 190 | 96 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 96 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 96 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 950 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 96 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 96 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 780 | 1144 | 68.2 | 35-130 |
| 2-FLUOROBIPHENYL | 240 | 381.4 | 63.0 | 45-130 |
| 2-FLUOROPHENOL | 663 | 1144 | 58.0 | 25-130 |
| NITROBENZENE-D5 | 209 | 381.4 | 54.7 | 40-130 |
| PHENOL-D5 | 664 | 1144 | 58.1 | 25-120 |
| TERPHENYL-D14 | 356 | 381.4 | 93.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 20:20 |
| Lab Samp ID: D166-07 | Dilution Factor: 1 |
| Lab File ID: REL076 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 12.6 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.97 |
| ACENAPHTHYLENE | ND | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)PYRENE | ND | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.97 |
| CHRYSENE | ND | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | ND | 1.9 | 0.97 |
| FLUORENE | ND | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.97 |
| NAPHTHALENE | ND | 1.9 | 0.97 |
| PHENANTHRENE | ND | 1.9 | 0.97 |
| PYRENE | ND | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 19 | 9.6 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.6 |
| DIETHYLPHTHALATE | ND | 19 | 9.6 |
| DIMETHYLPHTHALATE | ND | 19 | 9.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 202 | 381.4 | 53.1 | 40-130 |
| 2-FLUOROBIPHENYL | 210 | 381.4 | 55.2 | 45-130 |
| TERPHENYL-D14 | 327 | 381.4 | 85.8 | 45-135 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/24/12 14:55 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 10:11 |
| Lab Samp ID: D166-07 | Dilution Factor: 1 |
| Lab File ID: LD24067A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : 12.6 |
| Calib. Ref.: LD24062A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.57 |
| EFH(C12-C14) | ND | 1.1 | 0.57 |
| EFH(C15-C20) | ND | 1.1 | 0.57 |
| EFH(C21-C30) | 4.5 | 1.1 | 0.57 |
| EFH(C30-C40) | 12 | 1.1 | 0.57 |
| TOTAL EFH(C8-C40) | 17 | 1.1 | 0.57 |

| SURROGATE PARAMETERS | RESULTS | SPK AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.77 | 11.44 | 59.2 | 50-150 |
| HEXACOSANE | 2.81 | 2.860 | 98.2 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 17:41 |
| Lab Samp ID: D166-07 | Dilution Factor: 1 |
| Lab File ID: MD27023A | Matrix : SOIL |
| Ext Btch ID: CPD054S | % Moisture : 12.6 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.29 | 0.19 | 0.097 \| 0.097 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.14J | 0.19 | 0.097 \| 0.097 |
| BETA-BHC | (ND) \| 0.19 | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR | (ND) \| 0.23 | 0.19 | 0.097 \| 0.097 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| ALDRIN | (ND) \| 0.30 | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR EPOXIDE | (ND) \| 0.31 | 0.19 | 0.097 \| 0.097 |
| ENDOSULFAN I | (ND) \| 0.18J | 0.19 | 0.097 \| 0.097 |
| 4,4'-DDE | 0.64 \| (ND) | 0.39 | 0.19 \| 0.19 |
| DIELDRIN | 1.6 \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDRIN | 0.60 \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.31J \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDT | (ND) \| 5.1 | 0.39 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | 1.6 \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| 0.40 | 0.39 | 0.19 \| 0.19 |
| ENDRIN KETONE | 0.40 \| (ND) | 0.39 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| ND | 1.9 | 0.97 \| 0.97 |
| MIREX | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.511 \| (6.130) | 6.102 | 73.9 \| (100) | 50-130 |
| DECACHLOROBIPHENYL | (5.656) \| 5.271 | 6.102 | (92.7) \| 86.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| Batch No. | : 12D166 | Date Extracted | : 04/26/12 17:43 |
| Sample ID | : SL-083-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/14/12 20:23 |
| Lab Samp ID | : D166-07T | Dilution Factor | : 2 |
| Lab File ID | : KE14014A | Matrix | : SOIL |
| Ext Btch ID | : CPD063S | % Moisture | : 12.6 |
| Calib. Ref. | : KE14003A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1221 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1232 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1242 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1248 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1254 | 180 \| (100) | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1260 | (92) \| 98 | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1262 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1268 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 5432 | (ND) \| ND | 7.6 | 3.9 \| 3.9 |
| AROCLOR 5442 | (ND) \| ND | 7.6 | 3.9 \| 3.9 |
| AROCLOR 5460 | (ND) \| ND | 7.6 | 3.9 \| 3.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.995) \| 4.356 | 6.100 | (98.3) \| 71.4 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.355) \| 3.892 | 6.100 | (87.8) \| 63.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 8151A
HERBICIDES

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| Batch No. | : 12D166 | Date Extracted | : 04/23/12 17:23 |
| Sample ID | : SL-083-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/25/12 18:05 |
| Lab Samp ID | : D166-07 | Dilution Factor | : 1 |
| Lab File ID | : WD25024A | Matrix | : SOIL |
| Ext Btch ID | : HED012S | % Moisture | : 12.6 |
| Calib. Ref. | : WD25020A | Instrument ID | : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 4.1 | 2.1 \| 2.1 |
| 2,4-DB | (ND) \| ND | 1.9 | 0.97 \| 0.97 |
| 2,4,5-T | (ND) \| 1.5 | 0.19 | 0.097 \| 0.097 |
| 2,4,5-TP(SILVEX) | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| DALAPON | (ND) \| ND | 10 | 5.1 \| 5.1 |
| DICAMBA | (ND) \| ND | 1.4 | 0.69 \| 0.69 |
| DICHLOROPROP | (ND) \| ND | 2.7 | 1.4 \| 1.4 |
| DINOSEB | (ND) \| ND | 1.9 | 0.97 \| 0.97 |
| MCPA | (ND) \| ND | 290 | 140 \| 140 |
| MCPP | (ND) \| ND | 290 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (250.4) \| 209.5 | 171.6 | (146) \| 122 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 00:43 |
| Lab Samp ID: D166-07 | Dilution Factor: .99 |
| Lab File ID: XD25021A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25012A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1890 | 1980 | 95.3 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 04/18/12 |
| Batch No. | : 12D166 | Date Extracted: | 04/24/12 18:47 |
| Sample ID: | SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: | 04/25/12 20:31 |
| Lab Samp ID: | D166-07 | Dilution Factor: | .99 |
| Lab File ID: | PD25026A | Matrix : | SOIL |
| Ext Btch ID: | EXD018S | % Moisture : | NA |
| Calib. Ref.: | PD25017A | Instrument ID : | T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2580 | 1980 | 130 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 04/18/12 |
| SDG NO. | : 12D166 | Date Extracted: | 04/25/12 10:28 |
| Sample ID: | SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: | 04/30/12 17:41 # 05/01/12 18:52 |
| Lab Samp ID: | D166-07 #D166-07W | Dilution Factor: | 1.00 |
| Lab File ID: | 98D21064 #98E01048 | Matrix : | SOIL |
| Ext Btch ID: | IMD036S | % Moisture : | 12.6 |
| Calib. Ref.: | 98D21062 #98E01041 | Instrument ID : | T-I98 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 11000 | 27.5 | 13.7 |
| | Antimony | 0.120J | 0.229 | 0.114 |
| | Arsenic | 16.4 | 0.458 | 0.229 |
| | Barium | 112 | 0.458 | 0.229 |
| | Beryllium | 0.505 | 0.114 | 0.0572 |
| | Boron | ND | 5.72 | 2.86 |
| | Cadmium | 0.296 | 0.114 | 0.0572 |
| | Calcium | 2540 | 22.9 | 11.4 |
| | Chromium | 15.2 | 0.458 | 0.229 |
| | Cobalt | 5.00 | 0.114 | 0.0572 |
| | Copper | 8.03 | 0.458 | 0.229 |
| | Iron | 18300 | 22.9 | 11.4 |
| | Lead | 6.24 | 0.229 | 0.114 |
| | Magnesium | 4190 | 11.4 | 5.72 |
| | Manganese | 279 | 0.572 | 0.286 |
| | Molybdenum | 0.453 | 0.114 | 0.0572 |
| | Nickel | 10.4 | 0.458 | 0.229 |
| | Potassium | 3930 | 68.6 | 34.3 |
| | Selenium | ND | 0.458 | 0.229 |
| | Silver | 0.0876J | 0.114 | 0.0572 |
| | Sodium | ND | 114 | 57.2 |
| # | Strontium | 15.2 | 0.572 | 0.286 |
| | Thallium | 0.242 | 0.114 | 0.0572 |
| | Tin | ND | 11.4 | 5.72 |
| | Titanium | 883 | 1.14 | 0.572 |
| | Vanadium | 30.7 | 0.114 | 0.0572 |
| | Zinc | 63.2 | 3.43 | 1.72 |
| | Lithium | 26.2 | 2.29 | 1.14 |
| | Phosphorus | 450 | 13.7 | 6.86 |
| | Zirconium | ND | 5.72 | 2.86 |

# Members of the Associated File

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD025SB | ND | 1 | NA | 0.100 | 0.0500 | 04/24/1217:56 | 04/24/1213:30 | M47D017035 | M47D017032 | HGD025S | NA | 04/24/12 |
| LCS1S | HGD025SL | 0.863 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:58 | 04/24/1213:30 | M47D017036 | M47D017032 | HGD025S | NA | 04/24/12 |
| LCD1S | HGD025SC | 0.853 | 1 | NA | 0.100 | 0.0500 | 04/24/1218:00 | 04/24/1213:30 | M47D017037 | M47D017032 | HGD025S | NA | 04/24/12 |
| SL-008-NBZ-SB-4.0-5.0AS | D166-02A | 0.911 | 0.993 | 5.3 | 0.105 | 0.0524 | 04/24/1218:03 | 04/24/1213:30 | M47D017038 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 0.993 | 5.3 | 0.105 | 0.0524 | 04/24/1218:05 | 04/24/1213:30 | M47D017039 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DL | D166-02J | ND | 4.97 | 5.3 | 0.525 | 0.262 | 04/24/1218:07 | 04/24/1213:30 | M47D017040 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M | 0.920 | 0.992 | 5.3 | 0.105 | 0.0524 | 04/24/1218:09 | 04/24/1213:30 | M47D017041 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MSD | D166-02S | 0.921 | 0.995 | 5.3 | 0.105 | 0.0525 | 04/24/1218:11 | 04/24/1213:30 | M47D017042 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 0.998 | 16.0 | 0.119 | 0.0594 | 04/24/1218:13 | 04/24/1213:30 | M47D017043 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 0.233 | 0.985 | 12.8 | 0.113 | 0.0565 | 04/24/1218:20 | 04/24/1213:30 | M47D017046 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1.01 | 12.1 | 0.115 | 0.0575 | 04/24/1218:22 | 04/24/1213:30 | M47D017047 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 0.0992J | 0.995 | 12.6 | 0.114 | 0.0569 | 04/24/1218:24 | 04/24/1213:30 | M47D017048 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1.00 | 13.0 | 0.115 | 0.0575 | 04/24/1218:26 | 04/24/1213:30 | M47D017049 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 0.995 | 10.8 | 0.112 | 0.0558 | 04/24/1218:28 | 04/24/1213:30 | M47D017050 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 0.997 | 12.7 | 0.114 | 0.0571 | 04/24/1218:30 | 04/24/1213:30 | M47D017051 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD010SB | ND | 1 | NA | 1.50 | 0.750 | 04/24/1220:12 | 04/23/1211:11 | AD31-39 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCS1S | ICD010SL | 13.6 | 1 | NA | 1.50 | 0.750 | 04/24/1220:28 | 04/23/1211:11 | AD31-40 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCD1S | ICD010SC | 13.5 | 1 | NA | 1.50 | 0.750 | 04/24/1220:44 | 04/23/1211:11 | AD31-41 | AD31-37 | ICD010S | NA | 04/23/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | 1.79 | 1 | 5.3 | 1.58 | 0.792 | 04/24/1221:00 | 04/23/1211:11 | AD31-42 | AD31-37 | ICD010S | 04/18/1209:55 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 1.85 | 1 | 12.8 | 1.72 | 0.860 | 04/24/1221:33 | 04/23/1211:11 | AD31-44 | AD31-37 | ICD010S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | 1.09J | 1 | 12.1 | 1.71 | 0.853 | 04/24/1221:49 | 04/23/1211:11 | AD31-45 | AD31-37 | ICD010S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 4.04 | 1 | 12.6 | 1.72 | 0.858 | 04/24/1222:05 | 04/23/1211:11 | AD31-46 | AD31-37 | ICD010S | 04/18/1214:06 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | 71.8 | 5 | 16.0 | 8.93 | 4.46 | 04/25/1209:56 | 04/23/1211:11 | AD31-90 | AD31-83 | ICD010S | 04/18/1210:00 | 04/18/12 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD010SB | ND | 1 | NA | 1.00 | 0.500 | 04/24/1220:12 | 04/23/1211:11 | AD31-39 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCS1S | ICD010SL | 6.34 | 1 | NA | 1.00 | 0.500 | 04/24/1220:28 | 04/23/1211:11 | AD31-40 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCD1S | ICD010SC | 6.31 | 1 | NA | 1.00 | 0.500 | 04/24/1220:44 | 04/23/1211:11 | AD31-41 | AD31-37 | ICD010S | NA | 04/23/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 1.06 | 0.528 | 04/24/1221:00 | 04/23/1211:11 | AD31-42 | AD31-37 | ICD010S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 1 | 16.0 | 1.19 | 0.595 | 04/24/1221:16 | 04/23/1211:11 | AD31-43 | AD31-37 | ICD010S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 0.831J | 1 | 12.8 | 1.15 | 0.573 | 04/24/1221:33 | 04/23/1211:11 | AD31-44 | AD31-37 | ICD010S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | 1.26 | 1 | 12.1 | 1.14 | 0.569 | 04/24/1221:49 | 04/23/1211:11 | AD31-45 | AD31-37 | ICD010S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 0.692J | 1 | 12.6 | 1.14 | 0.572 | 04/24/1222:05 | 04/23/1211:11 | AD31-46 | AD31-37 | ICD010S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 1.15 | 0.575 | 04/24/1222:21 | 04/23/1211:11 | AD31-47 | AD31-37 | ICD010S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 1.12 | 0.561 | 04/24/1223:26 | 04/23/1211:11 | AD31-51 | AD31-49 | ICD010S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 1.15 | 0.573 | 04/24/1223:42 | 04/23/1211:11 | AD31-52 | AD31-49 | ICD010S | 04/18/1211:20 | 04/18/12 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD018SB | ND | 1 | NA | 20.0 | 10.0 | 04/23/1221:48 | 04/23/1211:30 | JD23031 | JD23030 | PCD018S | NA | 04/23/12 |
| LCS1S | PCD018SL | 241 | 1 | NA | 20.0 | 10.0 | 04/23/1222:30 | 04/23/1211:30 | JD23033 | JD23030 | PCD018S | NA | 04/23/12 |
| LCD1S | PCD018SC | 243 | 1 | NA | 20.0 | 10.0 | 04/23/1222:51 | 04/23/1211:30 | JD23034 | JD23030 | PCD018S | NA | 04/23/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 21.1 | 10.6 | 04/23/1223:12 | 04/23/1211:30 | JD23035 | JD23030 | PCD018S | 04/18/1209:55 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | ND | 1 | 12.8 | 22.9 | 11.5 | 04/23/1223:54 | 04/23/1211:30 | JD23037 | JD23030 | PCD018S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1 | 12.1 | 22.8 | 11.4 | 04/24/1200:15 | 04/23/1211:30 | JD23038 | JD23030 | PCD018S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | ND | 1 | 12.6 | 22.9 | 11.4 | 04/24/1200:36 | 04/23/1211:30 | JD23039 | JD23030 | PCD018S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 23.0 | 11.5 | 04/24/1201:39 | 04/23/1211:30 | JD23042 | JD23041 | PCD018S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 22.4 | 11.2 | 04/24/1202:00 | 04/23/1211:30 | JD23043 | JD23041 | PCD018S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 22.9 | 11.5 | 04/24/1202:21 | 04/23/1211:30 | JD23044 | JD23041 | PCD018S | 04/18/1211:20 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 5 | 16.0 | 119 | 59.5 | 04/24/1210:44 | 04/23/1211:30 | JD23064 | JD23062 | PCD018S | 04/18/1210:00 | 04/18/12 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD012SB | ND | 1 | NA | 1.00 | 0.500 | 04/25/1215:02 | 04/24/1216:57 | ID25003 | ID25001 | HCD012S | NA | 04/24/12 |
| MBLK1S | HCD012SQ | ND | 1 | NA | 1.00 | 0.500 | 04/25/1215:13 | 04/24/1216:57 | ID25004 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS1S | CID012SL | 337 | 20 | NA | 20.0 | 10.0 | 04/25/1215:44 | 04/24/1216:57 | ID25007 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS1S | CID012SX | 341 | 20 | NA | 20.0 | 10.0 | 04/25/1215:55 | 04/24/1216:57 | ID25008 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS2S | CSD012SL | 8.77 | 1 | NA | 1.00 | 0.500 | 04/25/1219:18 | 04/24/1216:57 | ID25023 | ID25013 | HCD012S | NA | 04/24/12 |
| LCS2S | CSD012SX | 8.57 | 1 | NA | 1.00 | 0.500 | 04/25/1219:28 | 04/24/1216:57 | ID25024 | ID25013 | HCD012S | NA | 04/24/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M | 9.82 ✓ | 1 | 5.3 | 1.06 | 0.528 | 04/25/1216:33 | 04/24/1216:57 | ID25009 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M1 | 9.75 ✓ | 1 | 5.3 | 1.06 | 0.528 | 04/25/1216:44 | 04/24/1216:57 | ID25010 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02G | 470 | 20 | 5.3 | 21.1 | 10.6 | 04/25/1216:54 | 04/24/1216:57 | ID25011 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02G1 | 495 | 20 | 5.3 | 21.1 | 10.6 | 04/25/1217:05 | 04/24/1216:57 | ID25012 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1217:54 | 04/24/1216:57 | ID25015 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02R | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:04 | 04/24/1216:57 | ID25016 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DUP | D166-02D | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:14 | 04/24/1216:57 | ID25017 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DUP | D166-02Z | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:25 | 04/24/1216:57 | ID25018 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 1 | 16.0 | 1.19 | 0.595 | 04/25/1220:30 | 04/24/1216:57 | ID25029 | ID25025 | HCD012S | 04/18/1210:00 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03R | ND | 1 | 16.0 | 1.19 | 0.595 | 04/25/1220:41 | 04/24/1216:57 | ID25030 | ID25025 | HCD012S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | ND | 1 | 12.8 | 1.15 | 0.573 | 04/25/1220:51 | 04/24/1216:57 | ID25031 | ID25025 | HCD012S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04R | ND | 1 | 12.8 | 1.15 | 0.573 | 04/25/1221:02 | 04/24/1216:57 | ID25032 | ID25025 | HCD012S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1 | 12.1 | 1.14 | 0.569 | 04/25/1221:12 | 04/24/1216:57 | ID25033 | ID25025 | HCD012S | 04/18/1210:57 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06R | ND | 1 | 12.1 | 1.14 | 0.569 | 04/25/1221:22 | 04/24/1216:57 | ID25034 | ID25025 | HCD012S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | ND | 1 | 12.6 | 1.14 | 0.572 | 04/25/1221:33 | 04/24/1216:57 | ID25035 | ID25025 | HCD012S | 04/18/1214:06 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07R | ND | 1 | 12.6 | 1.14 | 0.572 | 04/25/1221:43 | 04/24/1216:57 | ID25036 | ID25025 | HCD012S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 1.15 | 0.575 | 04/25/1222:25 | 04/24/1216:57 | ID25039 | ID25037 | HCD012S | 04/18/1215:40 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08R | ND | 1 | 13.0 | 1.15 | 0.575 | 04/25/1222:35 | 04/24/1216:57 | ID25040 | ID25037 | HCD012S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 1.12 | 0.561 | 04/25/1222:46 | 04/24/1216:57 | ID25041 | ID25037 | HCD012S | 04/18/1214:25 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09R | ND | 1 | 10.8 | 1.12 | 0.561 | 04/25/1222:56 | 04/24/1216:57 | ID25042 | ID25037 | HCD012S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 1.15 | 0.573 | 04/25/1223:06 | 04/24/1216:57 | ID25043 | ID25037 | HCD012S | 04/18/1211:20 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10R | ND | 1 | 12.7 | 1.15 | 0.573 | 04/25/1223:17 | 04/24/1216:57 | ID25044 | ID25037 | HCD012S | 04/18/1211:20 | 04/18/12 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CND011SB | ND | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01110 | CND01108 | CND011S | NA | 04/26/12 |
| LCS1S | CND011SL | 2.32 | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01111 | CND01108 | CND011S | NA | 04/26/12 |
| LCD1S | CND011SC | 2.34 | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01112 | CND01108 | CND011S | NA | 04/26/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 0.528 | 0.264 | 04/26/1218:51 | 04/26/1211:30 | CND01116 | CND01108 | CND011S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DUP | D166-02D | ND | 1 | 5.3 | 0.528 | 0.264 | 04/26/1218:51 | 04/26/1211:30 | CND01117 | CND01108 | CND011S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M | 2.25 | 1 | 5.3 | 0.528 | 0.264 | 04/26/1218:51 | 04/26/1211:30 | CND01118 | CND01108 | CND011S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | 0.335J | 1 | 16.0 | 0.595 | 0.298 | 04/26/1218:52 | 04/26/1211:30 | CND01119 | CND01108 | CND011S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | ND | 1 | 12.8 | 0.573 | 0.287 | 04/26/1218:52 | 04/26/1211:30 | CND01122 | CND01120 | CND011S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1 | 12.1 | 0.569 | 0.284 | 04/26/1218:53 | 04/26/1211:30 | CND01123 | CND01120 | CND011S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | ND | 1 | 12.6 | 0.572 | 0.286 | 04/26/1218:53 | 04/26/1211:30 | CND01124 | CND01120 | CND011S | 04/18/1214:06 | 04/18/12 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | 6.55 | 1 | NA | NA | NA | 04/19/1217:45 | 04/19/1217:32 | 12PHD021S08 | PHD021S | PHD021S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | 6.50 | 1 | NA | NA | NA | 04/19/1217:46 | 04/19/1217:32 | 12PHD021S09 | PHD021S | PHD021S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 6.52 | 1 | NA | NA | NA | 04/19/1217:47 | 04/19/1217:32 | 12PHD021S10 | PHD021S | PHD021S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | 6.72 | 1 | NA | NA | NA | 04/19/1217:52 | 04/19/1217:32 | 12PHD021S11 | PHD021S | PHD021S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 6.95 | 1 | NA | NA | NA | 04/19/1217:54 | 04/19/1217:32 | 12PHD021S12 | PHD021S | PHD021S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | 7.19 | 1 | NA | NA | NA | 04/19/1217:55 | 04/19/1217:32 | 12PHD021S13 | PHD021S | PHD021S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | 6.25 | 1 | NA | NA | NA | 04/19/1217:57 | 04/19/1217:32 | 12PHD021S14 | PHD021S | PHD021S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | 6.71 | 1 | NA | NA | NA | 04/19/1217:59 | 04/19/1217:32 | 12PHD021S15 | PHD021S | PHD021S | 04/18/1211:20 | 04/18/12 |

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

May 04, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/14/2012
Group Number: 1302284
SDG: DX170
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-158-NBZ-SS-0.0-0.5 Soil | 6616886 |
| SL-172-NBZ-SS-0.0-0.5 Soil | 6616887 |
| SL-180-NBZ-SS-0.0-0.5 Soil | 6616888 |
| SL-183-NBZ-SS-0.0-0.5 Soil | 6616889 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

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Senior Specialist Group Leader

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# Analysis Report



**Sample Description:** SL-158-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-NBZ-SS

**LLI Sample # SW 6616886**
**LLI Group # 1302284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 15:04

Submitted: 04/14/2012 10:00
Reported: 05/04/2012 10:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7004 SDG#: DX170-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 12.3 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-158-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-NBZ-SS

**LLI Sample # SW 6616886**
**LLI Group # 1302284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 15:04

Submitted: 04/14/2012 10:00
Reported: 05/04/2012 10:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7004 SDG#: DX170-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0457 | JQ | 0.0298 | 1.14 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0519 | JQ | 0.0271 | 5.68 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0446 | JB | 0.0306 | 5.68 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.212 | JB | 0.0327 | 5.68 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.402 | JB | 0.0315 | 5.68 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.65 | JB | 0.0318 | 5.68 | 1 |
| 11031 | OCDD | 3268-87-9 | 12.3 | B | 0.0239 | 11.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0706 | JBQ | 0.0380 | 1.14 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.118 | JB | 0.0279 | 5.68 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.196 | JB | 0.0267 | 5.68 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.112 | JB | 0.0279 | 5.68 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.112 | J | 0.0255 | 5.68 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0463 | JB | 0.0288 | 5.68 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0664 | JB | 0.0242 | 5.68 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.305 | JB | 0.0168 | 5.68 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0452 | JBQ | 0.0225 | 5.68 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.633 | JB | 0.0225 | 11.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 74 | 25 - 164 |
| 13C12-12378-PeCDD | 76 | 25 - 181 |
| 13C12-123478-HxCDD | 86 | 32 - 141 |
| 13C12-123678-HxCDD | 84 | 28 - 130 |
| 13C12-123789-HxCDD | 84 | 28 - 130 |
| 13C12-1234678-HpCDD | 86 | 23 - 140 |
| 13C12-OCDD | 85 | 17 - 157 |
| 13C12-2378-TCDF | 65 | 24 - 169 |
| 13C12-12378-PeCDF | 73 | 24 - 185 |
| 13C12-23478-PeCDF | 70 | 21 - 178 |
| 13C12-123478-HxCDF | 74 | 26 - 152 |
| 13C12-123678-HxCDF | 79 | 26 - 123 |
| 13C12-234678-HxCDF | 81 | 28 - 136 |
| 13C12-123789-HxCDF | 73 | 29 - 147 |
| 13C12-1234678-HpCDF | 90 | 28 - 143 |
| 13C12-1234789-HpCDF | 73 | 26 - 138 |
| 13C12-OCDF | 74 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-158-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-NBZ-SS

**LLI Sample # SW 6616886**
**LLI Group # 1302284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 15:04

Submitted: 04/14/2012 10:00
Reported: 05/04/2012 10:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7004 SDG#: DX170-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-158-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-NBZ-SS

**LLI Sample # SW 6616886**
**LLI Group # 1302284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 15:04

Submitted: 04/14/2012 10:00
Reported: 05/04/2012 10:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7004 SDG#: DX170-01

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/02/2012 17:56 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-172-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-NBZ-SS

**LLI Sample # SW 6616887**
**LLI Group # 1302284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 14:35

Submitted: 04/14/2012 10:00
Reported: 05/04/2012 10:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7005 SDG#: DX170-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.7 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-172-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-NBZ-SS

**LLI Sample # SW 6616887**
**LLI Group # 1302284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 14:35

Submitted: 04/14/2012 10:00
Reported: 05/04/2012 10:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7005 SDG#: DX170-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0369 | U | 0.0369 | 1.13 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.101 | J | 0.0316 | 5.64 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0964 | JB | 0.0326 | 5.64 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.212 | JB | 0.0350 | 5.64 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.166 | JB | 0.0331 | 5.64 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.36 | JB | 0.0324 | 5.64 | 1 |
| 11031 | OCDD | 3268-87-9 | 23.5 | B | 0.0287 | 11.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.149 | JB | 0.0636 | 1.13 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.203 | JB | 0.0387 | 5.64 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.462 | JB | 0.0370 | 5.64 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.171 | JB | 0.0326 | 5.64 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.112 | J | 0.0301 | 5.64 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0342 | U | 0.0342 | 5.64 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.145 | JB | 0.0283 | 5.64 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.651 | JB | 0.0249 | 5.64 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0942 | JBQ | 0.0358 | 5.64 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.21 | JB | 0.0283 | 11.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 81 | 25 - 164 |
| 13C12-12378-PeCDD | 92 | 25 - 181 |
| 13C12-123478-HxCDD | 95 | 32 - 141 |
| 13C12-123678-HxCDD | 90 | 28 - 130 |
| 13C12-123789-HxCDD | 89 | 28 - 130 |
| 13C12-1234678-HpCDD | 90 | 23 - 140 |
| 13C12-OCDD | 91 | 17 - 157 |
| 13C12-2378-TCDF | 73 | 24 - 169 |
| 13C12-12378-PeCDF | 87 | 24 - 185 |
| 13C12-23478-PeCDF | 83 | 21 - 178 |
| 13C12-123478-HxCDF | 78 | 26 - 152 |
| 13C12-123678-HxCDF | 81 | 26 - 123 |
| 13C12-234678-HxCDF | 86 | 28 - 136 |
| 13C12-123789-HxCDF | 76 | 29 - 147 |
| 13C12-1234678-HpCDF | 97 | 28 - 143 |
| 13C12-1234789-HpCDF | 76 | 26 - 138 |
| 13C12-OCDF | 75 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-172-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-NBZ-SS

**LLI Sample # SW 6616887**
**LLI Group # 1302284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 14:35

Submitted: 04/14/2012 10:00
Reported: 05/04/2012 10:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7005 SDG#: DX170-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-172-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-NBZ-SS

**LLI Sample # SW 6616887**
**LLI Group # 1302284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/12/2012 14:35

Submitted: 04/14/2012 10:00
Reported: 05/04/2012 10:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7005 SDG#: DX170-02

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/02/2012 18:53 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-180-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-NBZ-SS

**LLI Sample # SW 6616888**
**LLI Group # 1302284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/13/2012 09:45

Submitted: 04/14/2012 10:00
Reported: 05/04/2012 10:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7006 SDG#: DX170-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 18.9 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-180-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-NBZ-SS

**LLI Sample # SW 6616888**
**LLI Group # 1302284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/13/2012 09:45

Submitted: 04/14/2012 10:00
Reported: 05/04/2012 10:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7006 SDG#: DX170-03

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0349 | U | 0.0349 | 1.21 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.137 | J | 0.0361 | 6.07 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.152 | JB | 0.0422 | 6.07 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.352 | JB | 0.0487 | 6.07 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.318 | JB | 0.0494 | 6.07 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 5.42 | JB | 0.0332 | 6.07 | 1 |
| 11031 | OCDD | 3268-87-9 | 39.4 | B | 0.0313 | 12.1 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.300 | JB | 0.107 | 1.21 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.317 | JB | 0.0642 | 6.07 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.784 | JB | 0.0619 | 6.07 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.296 | JB | 0.0388 | 6.07 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.200 | J | 0.0351 | 6.07 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0392 | U | 0.0392 | 6.07 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.271 | JB | 0.0332 | 6.07 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.03 | JB | 0.0319 | 6.07 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0878 | JBQ | 0.0429 | 6.07 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.98 | JB | 0.0261 | 12.1 | 1 |

| **Labeled Compounds** | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 74 | 25 - 164 |
| 13C12-12378-PeCDD | 74 | 25 - 181 |
| 13C12-123478-HxCDD | 97 | 32 - 141 |
| 13C12-123678-HxCDD | 89 | 28 - 130 |
| 13C12-123789-HxCDD | 82 | 28 - 130 |
| 13C12-1234678-HpCDD | 81 | 23 - 140 |
| 13C12-OCDD | 77 | 17 - 157 |
| 13C12-2378-TCDF | 65 | 24 - 169 |
| 13C12-12378-PeCDF | 72 | 24 - 185 |
| 13C12-23478-PeCDF | 69 | 21 - 178 |
| 13C12-123478-HxCDF | 69 | 26 - 152 |
| 13C12-123678-HxCDF | 73 | 26 - 123 |
| 13C12-234678-HxCDF | 79 | 28 - 136 |
| 13C12-123789-HxCDF | 69 | 29 - 147 |
| 13C12-1234678-HpCDF | 81 | 28 - 143 |
| 13C12-1234789-HpCDF | 66 | 26 - 138 |
| 13C12-OCDF | 65 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-180-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-NBZ-SS

**LLI Sample # SW 6616888**
**LLI Group # 1302284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/13/2012 09:45

Submitted: 04/14/2012 10:00
Reported: 05/04/2012 10:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7006 SDG#: DX170-03

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-180-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-NBZ-SS

**LLI Sample # SW 6616888**
**LLI Group # 1302284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/13/2012 09:45

Submitted: 04/14/2012 10:00
Reported: 05/04/2012 10:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7006 SDG#: DX170-03

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/02/2012 19:49 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

# Analysis Report



**Sample Description:** SL-183-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-NBZ-SS

**LLI Sample # SW 6616889**
**LLI Group # 1302284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/13/2012 10:50

Submitted: 04/14/2012 10:00
Reported: 05/04/2012 10:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7007 SDG#: DX170-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 17.3 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-183-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-NBZ-SS

**LLI Sample # SW 6616889**
**LLI Group # 1302284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/13/2012 10:50

Submitted: 04/14/2012 10:00
Reported: 05/04/2012 10:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7007 SDG#: DX170-04

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0411 | U | 0.0411 | 1.19 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0519 | JQ | 0.0428 | 5.95 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.107 | JB | 0.0371 | 5.95 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.218 | JB | 0.0406 | 5.95 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.171 | JB | 0.0421 | 5.95 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.91 | JB | 0.0423 | 5.95 | 1 |
| 11031 | OCDD | 3268-87-9 | 21.7 | B | 0.0369 | 11.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.161 | JB | 0.0695 | 1.19 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.248 | JB | 0.0472 | 5.95 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.452 | JB | 0.0453 | 5.95 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.202 | JB | 0.0351 | 5.95 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0757 | JQ | 0.0323 | 5.95 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0457 | JBQ | 0.0360 | 5.95 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.174 | JB | 0.0317 | 5.95 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.586 | JB | 0.0311 | 5.95 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0475 | JB | 0.0407 | 5.95 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.15 | JB | 0.0358 | 11.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 78 | 25 - 164 |
| 13C12-12378-PeCDD | 73 | 25 - 181 |
| 13C12-123478-HxCDD | 96 | 32 - 141 |
| 13C12-123678-HxCDD | 93 | 28 - 130 |
| 13C12-123789-HxCDD | 84 | 28 - 130 |
| 13C12-1234678-HpCDD | 89 | 23 - 140 |
| 13C12-OCDD | 81 | 17 - 157 |
| 13C12-2378-TCDF | 67 | 24 - 169 |
| 13C12-12378-PeCDF | 70 | 24 - 185 |
| 13C12-23478-PeCDF | 68 | 21 - 178 |
| 13C12-123478-HxCDF | 76 | 26 - 152 |
| 13C12-123678-HxCDF | 78 | 26 - 123 |
| 13C12-234678-HxCDF | 83 | 28 - 136 |
| 13C12-123789-HxCDF | 75 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 73 | 26 - 138 |
| 13C12-OCDF | 71 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-183-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-NBZ-SS

**LLI Sample # SW 6616889**
**LLI Group # 1302284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/13/2012 10:50

Submitted: 04/14/2012 10:00
Reported: 05/04/2012 10:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7007 SDG#: DX170-04

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-183-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-NBZ-SS

**LLI Sample # SW 6616889**
**LLI Group # 1302284**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/13/2012 10:50

Submitted: 04/14/2012 10:00
Reported: 05/04/2012 10:21

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7007 SDG#: DX170-04

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/02/2012 20:46 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12109162401B | 04/18/2012 11:49 | William C Schwebel | 1 |

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1302284
Reported: 05/04/12 at 10:21 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12109162401B | Sample number(s): 6616886-6616889 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12120001 | Sample number(s): 6616886-6616889 | | | | | | | | |
| 2378-TCDD | 0.0264 U | 0.0264 | 1.00 | ng/kg | 93 | | 67-158 | | |
| 12378-PeCDD | 0.0240 U | 0.0240 | 5.00 | ng/kg | 94 | | 70-142 | | |
| 123478-HxCDD | 0.0273 J | 0.0178 | 5.00 | ng/kg | 90 | | 70-164 | | |
| 123678-HxCDD | 0.0588 J | 0.0200 | 5.00 | ng/kg | 89 | | 76-134 | | |
| 123789-HxCDD | 0.0425 J | 0.0180 | 5.00 | ng/kg | 96 | | 64-162 | | |
| 1234678-HpCDD | 0.248 J | 0.0194 | 5.00 | ng/kg | 94 | | 70-140 | | |
| OCDD | 0.520 J | 0.0237 | 10.0 | ng/kg | 91 | | 78-144 | | |
| 2378-TCDF | 0.0264 J | 0.0215 | 1.00 | ng/kg | 87 | | 75-158 | | |
| 12378-PeCDF | 0.0232 J | 0.0179 | 5.00 | ng/kg | 95 | | 80-134 | | |
| 23478-PeCDF | 0.0647 J | 0.0164 | 5.00 | ng/kg | 88 | | 68-160 | | |
| 123478-HxCDF | 0.0435 J | 0.0121 | 5.00 | ng/kg | 94 | | 72-134 | | |
| 123678-HxCDF | 0.0114 U | 0.0114 | 5.00 | ng/kg | 96 | | 84-130 | | |
| 123789-HxCDF | 0.0552 J | 0.0123 | 5.00 | ng/kg | 96 | | 78-130 | | |
| 234678-HxCDF | 0.0333 J | 0.0110 | 5.00 | ng/kg | 90 | | 70-156 | | |
| 1234678-HpCDF | 0.0602 J | 0.00980 | 5.00 | ng/kg | 88 | | 82-122 | | |
| 1234789-HpCDF | 0.0289 J | 0.0135 | 5.00 | ng/kg | 93 | | 78-138 | | |
| OCDF | 0.108 J | 0.0186 | 10.0 | ng/kg | 93 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12109162401B | Sample number(s): 6616886-6616889 | | | | | BKG: P612355 | | | |
| Moisture Content by 160.3 | | | | | | 8.6 | 8.6 | 0 | 20 |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1302284
Reported: 05/04/12 at 10:21 AM

## Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12120001

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6616886 | 74 | 70 | 74 | 79 | 81 | 73 |
| 6616887 | 81 | 83 | 78 | 81 | 86 | 76 |
| 6616888 | 74 | 69 | 69 | 73 | 79 | 69 |
| 6616889 | 78 | 68 | 76 | 78 | 83 | 75 |
| Blank | 70 | 69 | 71 | 73 | 72 | 71 |
| OPR | 71 | 64 | 69 | 72 | 71 | 69 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6616886 | 90 | 73 | 74 | 76 | 86 | 84 |
| 6616887 | 97 | 76 | 75 | 92 | 95 | 90 |
| 6616888 | 81 | 66 | 65 | 74 | 97 | 89 |
| 6616889 | 86 | 73 | 71 | 73 | 96 | 93 |
| Blank | 87 | 70 | 68 | 74 | 78 | 76 |
| OPR | 90 | 68 | 65 | 72 | 79 | 80 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6616886 | 84 | 86 | 85 | 65 | 73 |
| 6616887 | 89 | 90 | 91 | 73 | 87 |
| 6616888 | 82 | 81 | 77 | 65 | 72 |
| 6616889 | 84 | 89 | 81 | 67 | 70 |
| Blank | 77 | 83 | 82 | 62 | 70 |
| OPR | 79 | 82 | 82 | 59 | 67 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1302284 Sample# 6616886-89

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSIS | SECONDARY ANALYSIS | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-158-NBZ-SS-0.0-0.5 | 4.12.12 | 1504 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-172-NBZ-SS-0.0-0.5 | 4.12.12 | 1435 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-180-NBZ-SS-0.0-0.5 | 4.13.12 | 0945 | SOIL | NONE | 1-16 oz Jar | X | | | | |
| SL-183-NBZ-SS-0.0-0.5 | 4.13.12 | 1050 | SOIL | NONE | 1-16 oz Jar | X | | | | |
| Relinquished by: (*Signature*) | Date/Time<br>4/13/2012 / 1630 | | Received for Laboratory by: (*Signature*) | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*)<br>Brandy Bush | Date/Time<br>4.14.12 1000 | | Airbill No.(s) | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

May 04, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/19/2012
Group Number: 1303406
SDG: DX170
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-090-NBZ-SS-0.0-0.5 Soil | 6622565 |
| SL-147-NBZ-SS-0.0-0.5 Soil | 6622566 |
| SL-008-NBZ-SB-4.0-5.0 Soil | 6622567 |
| SL-081-NBZ-SS-0.0-0.5 Soil | 6622568 |
| SL-082-NBZ-SS-0.0-0.5 Soil | 6622569 |
| SL-082-NBZ-SB-2.5-3.5 Soil | 6622570 |
| SL-083-NBZ-SB-0.0-0.5 Soil | 6622571 |
| SL-189-NBZ-SS-0.0-0.5 Soil | 6622572 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

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Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-090-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-NBZ-SS

**LLI Sample # SW 6622565**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 14:12

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7008 SDG#: DX170-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 15.6 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-090-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-NBZ-SS

**LLI Sample # SW 6622565**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 14:12

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7008 SDG#: DX170-05

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0352 | J | 0.0310 | 1.17 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.271 | J | 0.0399 | 5.87 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.407 | JB | 0.0586 | 5.87 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 1.28 | JB | 0.0597 | 5.87 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.789 | JB | 0.0586 | 5.87 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 23.8 | B | 0.0608 | 5.87 | 1 |
| 11031 | OCDD | 3268-87-9 | 237 | B | 0.0430 | 11.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.269 | JB | 0.0660 | 1.17 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.483 | JB | 0.0456 | 5.87 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.647 | JB | 0.0442 | 5.87 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.450 | JB | 0.0387 | 5.87 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.293 | J | 0.0354 | 5.87 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.128 | JBQ | 0.0429 | 5.87 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.380 | JB | 0.0348 | 5.87 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 3.21 | JB | 0.0306 | 5.87 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.396 | JB | 0.0451 | 5.87 | 1 |
| 11031 | OCDF | 39001-02-0 | 7.08 | JB | 0.0282 | 11.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 81 | 25 - 164 |
| 13C12-12378-PeCDD | 74 | 25 - 181 |
| 13C12-123478-HxCDD | 82 | 32 - 141 |
| 13C12-123678-HxCDD | 79 | 28 - 130 |
| 13C12-123789-HxCDD | 80 | 28 - 130 |
| 13C12-1234678-HpCDD | 75 | 23 - 140 |
| 13C12-OCDD | 71 | 17 - 157 |
| 13C12-2378-TCDF | 69 | 24 - 169 |
| 13C12-12378-PeCDF | 73 | 24 - 185 |
| 13C12-23478-PeCDF | 69 | 21 - 178 |
| 13C12-123478-HxCDF | 74 | 26 - 152 |
| 13C12-123678-HxCDF | 78 | 26 - 123 |
| 13C12-234678-HxCDF | 77 | 28 - 136 |
| 13C12-123789-HxCDF | 67 | 29 - 147 |
| 13C12-1234678-HpCDF | 83 | 28 - 143 |
| 13C12-1234789-HpCDF | 63 | 26 - 138 |
| 13C12-OCDF | 59 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-090-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-NBZ-SS

**LLI Sample # SW 6622565**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 14:12

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7008 SDG#: DX170-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-090-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-NBZ-SS

**LLI Sample # SW 6622565**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 14:12

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7008 SDG#: DX170-05

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 00:46 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12115162401A | 04/24/2012 12:21 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-147-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-NBZ-SS

**LLI Sample # SW 6622566**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 15:25

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7009 SDG#: DX170-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 14.2 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-147-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-NBZ-SS

**LLI Sample # SW 6622566**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 15:25

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7009 SDG#: DX170-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0413 J | 0.0301 | 1.15 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0655 J | 0.0265 | 5.76 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0918 JB | 0.0330 | 5.76 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.206 JB | 0.0348 | 5.76 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.190 JB | 0.0371 | 5.76 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.21 JB | 0.0272 | 5.76 | 1 |
| 11031 | OCDD | 3268-87-9 | 14.3 B | 0.0269 | 11.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.158 JB | 0.0554 | 1.15 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.357 JB | 0.0329 | 5.76 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.323 JB | 0.0321 | 5.76 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.173 JB | 0.0253 | 5.76 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0950 J | 0.0226 | 5.76 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0793 JB | 0.0279 | 5.76 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.130 JB | 0.0212 | 5.76 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.480 JB | 0.0205 | 5.76 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0637 JB | 0.0304 | 5.76 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.865 JB | 0.0314 | 11.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 79 | 25 - 164 |
| 13C12-12378-PeCDD | 78 | 25 - 181 |
| 13C12-123478-HxCDD | 99 | 32 - 141 |
| 13C12-123678-HxCDD | 93 | 28 - 130 |
| 13C12-123789-HxCDD | 86 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 74 | 17 - 157 |
| 13C12-2378-TCDF | 73 | 24 - 169 |
| 13C12-12378-PeCDF | 76 | 24 - 185 |
| 13C12-23478-PeCDF | 72 | 21 - 178 |
| 13C12-123478-HxCDF | 74 | 26 - 152 |
| 13C12-123678-HxCDF | 79 | 26 - 123 |
| 13C12-234678-HxCDF | 84 | 28 - 136 |
| 13C12-123789-HxCDF | 69 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 64 | 26 - 138 |
| 13C12-OCDF | 60 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-147-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-147-NBZ-SS**

**LLI Sample # SW 6622566**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 15:25

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7009 SDG#: DX170-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-147-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-NBZ-SS

**LLI Sample # SW 6622566**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/17/2012 15:25

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7009 SDG#: DX170-06

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 01:42 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12117162401A | 04/26/2012 12:36 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-008-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-NBZ-SB

**LLI Sample # SW 6622567**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 09:55

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7010 SDG#: DX170-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 6.1 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-008-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-NBZ-SB

**LLI Sample # SW 6622567**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 09:55

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7010 SDG#: DX170-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0293 JQ | 0.0239 | 1.03 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0308 J | 0.0220 | 5.17 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0285 JBQ | 0.0163 | 5.17 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0255 JBQ | 0.0171 | 5.17 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.0360 JB | 0.0171 | 5.17 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.345 JB | 0.0215 | 5.17 | 1 |
| 11031 | OCDD | 3268-87-9 | 0.827 JB | 0.0242 | 10.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0261 JBQ | 0.0176 | 1.03 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0433 JBQ | 0.0155 | 5.17 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0383 JB | 0.0155 | 5.17 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0298 JBQ | 0.0111 | 5.17 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0105 U | 0.0105 | 5.17 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0499 JB | 0.0126 | 5.17 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0198 JB | 0.00948 | 5.17 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.0620 JB | 0.0108 | 5.17 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0376 JBQ | 0.0174 | 5.17 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.124 JB | 0.0212 | 10.3 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 79 | 25 - 164 |
| 13C12-12378-PeCDD | 81 | 25 - 181 |
| 13C12-123478-HxCDD | 107 | 32 - 141 |
| 13C12-123678-HxCDD | 103 | 28 - 130 |
| 13C12-123789-HxCDD | 100 | 28 - 130 |
| 13C12-1234678-HpCDD | 97 | 23 - 140 |
| 13C12-OCDD | 92 | 17 - 157 |
| 13C12-2378-TCDF | 72 | 24 - 169 |
| 13C12-12378-PeCDF | 82 | 24 - 185 |
| 13C12-23478-PeCDF | 75 | 21 - 178 |
| 13C12-123478-HxCDF | 86 | 26 - 152 |
| 13C12-123678-HxCDF | 90 | 26 - 123 |
| 13C12-234678-HxCDF | 95 | 28 - 136 |
| 13C12-123789-HxCDF | 79 | 29 - 147 |
| 13C12-1234678-HpCDF | 111 | 28 - 143 |
| 13C12-1234789-HpCDF | 74 | 26 - 138 |
| 13C12-OCDF | 67 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-008-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-NBZ-SB

**LLI Sample # SW 6622567**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 09:55

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7010 SDG#: DX170-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-008-NBZ-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-NBZ-SB

**LLI Sample # SW 6622567**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 09:55

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7010 SDG#: DX170-07

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 02:39 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12115162401A | 04/24/2012 12:21 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-081-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-NBZ-SS

**LLI Sample # SW 6622568**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 10:00

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7011 SDG#: DX170-08

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 15.7 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-081-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-NBZ-SS

**LLI Sample # SW 6622568**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 10:00

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7011 SDG#: DX170-08

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0521 | U | 0.0521 | 1.17 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.173 | J | 0.0399 | 5.83 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.194 | JB | 0.0502 | 5.83 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.355 | JB | 0.0517 | 5.83 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.305 | JB | 0.0509 | 5.83 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 4.66 | JB | 0.0419 | 5.83 | 1 |
| 11031 | OCDD | 3268-87-9 | 34.2 | B | 0.0310 | 11.7 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.325 | JB | 0.116 | 1.17 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.486 | JB | 0.0665 | 5.83 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.802 | JB | 0.0635 | 5.83 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.378 | JB | 0.0471 | 5.83 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.222 | J | 0.0421 | 5.83 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.105 | JB | 0.0501 | 5.83 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.260 | JB | 0.0425 | 5.83 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.04 | JB | 0.0350 | 5.83 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.113 | JB | 0.0546 | 5.83 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.76 | JB | 0.0297 | 11.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 78 | 25 - 164 |
| 13C12-12378-PeCDD | 81 | 25 - 181 |
| 13C12-123478-HxCDD | 88 | 32 - 141 |
| 13C12-123678-HxCDD | 88 | 28 - 130 |
| 13C12-123789-HxCDD | 86 | 28 - 130 |
| 13C12-1234678-HpCDD | 89 | 23 - 140 |
| 13C12-OCDD | 94 | 17 - 157 |
| 13C12-2378-TCDF | 69 | 24 - 169 |
| 13C12-12378-PeCDF | 78 | 24 - 185 |
| 13C12-23478-PeCDF | 75 | 21 - 178 |
| 13C12-123478-HxCDF | 75 | 26 - 152 |
| 13C12-123678-HxCDF | 81 | 26 - 123 |
| 13C12-234678-HxCDF | 81 | 28 - 136 |
| 13C12-123789-HxCDF | 73 | 29 - 147 |
| 13C12-1234678-HpCDF | 104 | 28 - 143 |
| 13C12-1234789-HpCDF | 74 | 26 - 138 |
| 13C12-OCDF | 74 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-081-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-NBZ-SS

**LLI Sample # SW 6622568**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 10:00

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7011 SDG#: DX170-08

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-081-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-NBZ-SS

**LLI Sample # SW 6622568**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 10:00

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7011 SDG#: DX170-08

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 03:35 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12115162401A | 04/24/2012 12:21 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-082-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-NBZ-SS

**LLI Sample # SW 6622569**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 10:53

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7012 SDG#: DX170-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 13.0 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-082-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-NBZ-SS

**LLI Sample # SW 6622569**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 10:53

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7012 SDG#: DX170-09

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0380 | U | 0.0380 | 1.15 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.315 | J | 0.0589 | 5.75 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.361 | JB | 0.0590 | 5.75 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.756 | JB | 0.0638 | 5.75 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.672 | JB | 0.0638 | 5.75 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 16.7 | B | 0.0746 | 5.75 | 1 |
| 11031 | OCDD | 3268-87-9 | 167 | B | 0.0379 | 11.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.950 | JB | 0.392 | 1.15 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 52.8 | B | 0.147 | 5.75 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.842 | JB | 0.139 | 5.75 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 2.79 | JB | 0.0970 | 5.75 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.571 | J | 0.0891 | 5.75 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.351 | JB | 0.107 | 5.75 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.505 | JB | 0.0815 | 5.75 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 2.29 | JB | 0.0303 | 5.75 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.446 | JB | 0.0506 | 5.75 | 1 |
| 11031 | OCDF | 39001-02-0 | 3.28 | JB | 0.0287 | 11.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 77 | 25 - 164 |
| 13C12-12378-PeCDD | 83 | 25 - 181 |
| 13C12-123478-HxCDD | 96 | 32 - 141 |
| 13C12-123678-HxCDD | 95 | 28 - 130 |
| 13C12-123789-HxCDD | 89 | 28 - 130 |
| 13C12-1234678-HpCDD | 91 | 23 - 140 |
| 13C12-OCDD | 93 | 17 - 157 |
| 13C12-2378-TCDF | 67 | 24 - 169 |
| 13C12-12378-PeCDF | 79 | 24 - 185 |
| 13C12-23478-PeCDF | 76 | 21 - 178 |
| 13C12-123478-HxCDF | 76 | 26 - 152 |
| 13C12-123678-HxCDF | 81 | 26 - 123 |
| 13C12-234678-HxCDF | 86 | 28 - 136 |
| 13C12-123789-HxCDF | 72 | 29 - 147 |
| 13C12-1234678-HpCDF | 108 | 28 - 143 |
| 13C12-1234789-HpCDF | 70 | 26 - 138 |
| 13C12-OCDF | 67 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-082-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-NBZ-SS

**LLI Sample # SW 6622569**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 10:53

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7012 SDG#: DX170-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-082-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-NBZ-SS

**LLI Sample # SW 6622569**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 10:53

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7012 SDG#: DX170-09

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 04:32 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12115162401A | 04/24/2012 12:21 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-082-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-NBZ-SB

**LLI Sample # SW 6622570**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 10:57

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7013 SDG#: DX170-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | **%** | **%** | **%** | |
| 11625 | Moisture Content by 160.3 | n.a. | 12.3 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-082-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-NBZ-SB

**LLI Sample # SW 6622570**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 10:57

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7013 SDG#: DX170-10

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0358 | U | 0.0358 | 1.14 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0486 | JQ | 0.0338 | 5.69 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0324 | JB | 0.0251 | 5.69 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0729 | JB | 0.0269 | 5.69 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.110 | JB | 0.0262 | 5.69 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.20 | JB | 0.0405 | 5.69 | 1 |
| 11031 | OCDD | 3268-87-9 | 9.90 | JB | 0.0266 | 11.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0885 | U | 0.0885 | 1.14 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 1.63 | JB | 0.0510 | 5.69 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.102 | JB | 0.0475 | 5.69 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.236 | JB | 0.0221 | 5.69 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0579 | J | 0.0195 | 5.69 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0394 | JB | 0.0230 | 5.69 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0180 | U | 0.0180 | 5.69 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.208 | JB | 0.0163 | 5.69 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0398 | JBQ | 0.0254 | 5.69 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.277 | JB | 0.0260 | 11.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 67 | 25 - 164 |
| 13C12-12378-PeCDD | 73 | 25 - 181 |
| 13C12-123478-HxCDD | 86 | 32 - 141 |
| 13C12-123678-HxCDD | 82 | 28 - 130 |
| 13C12-123789-HxCDD | 81 | 28 - 130 |
| 13C12-1234678-HpCDD | 84 | 23 - 140 |
| 13C12-OCDD | 88 | 17 - 157 |
| 13C12-2378-TCDF | 59 | 24 - 169 |
| 13C12-12378-PeCDF | 69 | 24 - 185 |
| 13C12-23478-PeCDF | 69 | 21 - 178 |
| 13C12-123478-HxCDF | 70 | 26 - 152 |
| 13C12-123678-HxCDF | 76 | 26 - 123 |
| 13C12-234678-HxCDF | 84 | 28 - 136 |
| 13C12-123789-HxCDF | 69 | 29 - 147 |
| 13C12-1234678-HpCDF | 101 | 28 - 143 |
| 13C12-1234789-HpCDF | 70 | 26 - 138 |
| 13C12-OCDF | 68 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-082-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-NBZ-SB

**LLI Sample # SW 6622570**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 10:57

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7013 SDG#: DX170-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-082-NBZ-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-NBZ-SB

**LLI Sample # SW 6622570**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 10:57

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7013 SDG#: DX170-10

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 05:29 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12115162401A | 04/24/2012 12:21 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-083-NBZ-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-NBZ-SB

**LLI Sample # SW 6622571**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 14:06

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7014 SDG#: DX170-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 13.2 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-083-NBZ-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-NBZ-SB

**LLI Sample # SW 6622571**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 14:06

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7014 SDG#: DX170-11

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0337 | J | 0.0276 | 1.13 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0388 | J | 0.0385 | 5.64 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0986 | JB | 0.0396 | 5.64 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.313 | JB | 0.0406 | 5.64 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.243 | JB | 0.0396 | 5.64 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 6.08 | B | 0.0445 | 5.64 | 1 |
| 11031 | OCDD | 3268-87-9 | 75.3 | B | 0.0327 | 11.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.417 | JB | 0.273 | 1.13 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 9.82 | B | 0.113 | 5.64 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.416 | JB | 0.118 | 5.64 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 2.50 | JB | 0.0661 | 5.64 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.146 | J | 0.0603 | 5.64 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.188 | JBQ | 0.0737 | 5.64 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.196 | JB | 0.0609 | 5.64 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.811 | JB | 0.0228 | 5.64 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.156 | JB | 0.0355 | 5.64 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.27 | JB | 0.0291 | 11.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 74 | 25 - 164 |
| 13C12-12378-PeCDD | 75 | 25 - 181 |
| 13C12-123478-HxCDD | 82 | 32 - 141 |
| 13C12-123678-HxCDD | 81 | 28 - 130 |
| 13C12-123789-HxCDD | 80 | 28 - 130 |
| 13C12-1234678-HpCDD | 80 | 23 - 140 |
| 13C12-OCDD | 82 | 17 - 157 |
| 13C12-2378-TCDF | 65 | 24 - 169 |
| 13C12-12378-PeCDF | 76 | 24 - 185 |
| 13C12-23478-PeCDF | 71 | 21 - 178 |
| 13C12-123478-HxCDF | 73 | 26 - 152 |
| 13C12-123678-HxCDF | 78 | 26 - 123 |
| 13C12-234678-HxCDF | 76 | 28 - 136 |
| 13C12-123789-HxCDF | 66 | 29 - 147 |
| 13C12-1234678-HpCDF | 97 | 28 - 143 |
| 13C12-1234789-HpCDF | 66 | 26 - 138 |
| 13C12-OCDF | 61 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B* *Detected in Method Blank*
*U* *Undetected*
*J* *Estimated concentration between Estimated Detection Limit and Minimum Level*
*E* *Exceeds calibration range*
*C* *Confirmed quantitation on secondary GC column*
*Q* *EMPC - Estimated Maximum Possible Concentration*
*F* *Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-083-NBZ-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-NBZ-SB

**LLI Sample # SW 6622571**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 14:06

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7014 SDG#: DX170-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-083-NBZ-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-NBZ-SB

**LLI Sample # SW 6622571**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 14:06

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7014 SDG#: DX170-11

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 06:25 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12115162401A | 04/24/2012 12:21 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-189-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-NBZ-SS

**LLI Sample # SW 6622572**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 11:20

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7015 SDG#: DX170-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 13.1 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-189-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-NBZ-SS

**LLI Sample # SW 6622572**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 11:20

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7015 SDG#: DX170-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0312 J | 0.0253 | 1.14 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0741 J | 0.0229 | 5.72 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0371 JB | 0.0299 | 5.72 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.245 JB | 0.0313 | 5.72 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.337 JB | 0.0313 | 5.72 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.20 JB | 0.0342 | 5.72 | 1 |
| 11031 | OCDD | 3268-87-9 | 7.11 JB | 0.0259 | 11.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0958 JB | 0.0358 | 1.14 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.169 JB | 0.0249 | 5.72 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.198 JB | 0.0247 | 5.72 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.124 JB | 0.0213 | 5.72 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0740 J | 0.0192 | 5.72 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.160 JB | 0.0244 | 5.72 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0978 JB | 0.0186 | 5.72 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.268 JB | 0.0148 | 5.72 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0588 JB | 0.0265 | 5.72 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.593 JB | 0.0268 | 11.4 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 77 | 25 - 164 |
| 13C12-12378-PeCDD | 78 | 25 - 181 |
| 13C12-123478-HxCDD | 92 | 32 - 141 |
| 13C12-123678-HxCDD | 86 | 28 - 130 |
| 13C12-123789-HxCDD | 84 | 28 - 130 |
| 13C12-1234678-HpCDD | 80 | 23 - 140 |
| 13C12-OCDD | 79 | 17 - 157 |
| 13C12-2378-TCDF | 67 | 24 - 169 |
| 13C12-12378-PeCDF | 77 | 24 - 185 |
| 13C12-23478-PeCDF | 72 | 21 - 178 |
| 13C12-123478-HxCDF | 75 | 26 - 152 |
| 13C12-123678-HxCDF | 80 | 26 - 123 |
| 13C12-234678-HxCDF | 82 | 28 - 136 |
| 13C12-123789-HxCDF | 67 | 29 - 147 |
| 13C12-1234678-HpCDF | 99 | 28 - 143 |
| 13C12-1234789-HpCDF | 62 | 26 - 138 |
| 13C12-OCDF | 56 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-189-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-NBZ-SS

**LLI Sample # SW 6622572**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 11:20

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7015 SDG#: DX170-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-189-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-NBZ-SS

**LLI Sample # SW 6622572**
**LLI Group # 1303406**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 11:20

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7015 SDG#: DX170-12

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 07:22 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12117162401A | 04/26/2012 12:36 | William C Schwebel | 1 |

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303406
Reported: 05/04/12 at 01:28 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12115162401A | Sample number(s): 6622565,6622567-6622571 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Batch number: 12117162401A | Sample number(s): 6622566,6622572 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12120001 | Sample number(s): 6622565-6622572 | | | | | | | | |
| 2378-TCDD | 0.0264 U | 0.0264 | 1.00 | ng/kg | 93 | | 67-158 | | |
| 12378-PeCDD | 0.0240 U | 0.0240 | 5.00 | ng/kg | 94 | | 70-142 | | |
| 123478-HxCDD | 0.0273 J | 0.0178 | 5.00 | ng/kg | 90 | | 70-164 | | |
| 123678-HxCDD | 0.0588 J | 0.0200 | 5.00 | ng/kg | 89 | | 76-134 | | |
| 123789-HxCDD | 0.0425 J | 0.0180 | 5.00 | ng/kg | 96 | | 64-162 | | |
| 1234678-HpCDD | 0.248 J | 0.0194 | 5.00 | ng/kg | 94 | | 70-140 | | |
| OCDD | 0.520 J | 0.0237 | 10.0 | ng/kg | 91 | | 78-144 | | |
| 2378-TCDF | 0.0264 J | 0.0215 | 1.00 | ng/kg | 87 | | 75-158 | | |
| 12378-PeCDF | 0.0232 J | 0.0179 | 5.00 | ng/kg | 95 | | 80-134 | | |
| 23478-PeCDF | 0.0647 J | 0.0164 | 5.00 | ng/kg | 88 | | 68-160 | | |
| 123478-HxCDF | 0.0435 J | 0.0121 | 5.00 | ng/kg | 94 | | 72-134 | | |
| 123678-HxCDF | 0.0114 U | 0.0114 | 5.00 | ng/kg | 96 | | 84-130 | | |
| 123789-HxCDF | 0.0552 J | 0.0123 | 5.00 | ng/kg | 96 | | 78-130 | | |
| 234678-HxCDF | 0.0333 J | 0.0110 | 5.00 | ng/kg | 90 | | 70-156 | | |
| 1234678-HpCDF | 0.0602 J | 0.00980 | 5.00 | ng/kg | 88 | | 82-122 | | |
| 1234789-HpCDF | 0.0289 J | 0.0135 | 5.00 | ng/kg | 93 | | 78-138 | | |
| OCDF | 0.108 J | 0.0186 | 10.0 | ng/kg | 93 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12115162401A | Sample number(s): 6622565,6622567-6622571 BKG: P622564 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 13.2 | 12.6 | 4 | 20 |
| Batch number: 12117162401A | Sample number(s): 6622566,6622572 BKG: P615675 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 15.1 | 16.0 | 5 | 20 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303406
Reported: 05/04/12 at 01:28 PM

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12120001

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6622565 | 81 | 69 | 74 | 78 | 77 | 67 |
| 6622566 | 79 | 72 | 74 | 79 | 84 | 69 |
| 6622567 | 79 | 75 | 86 | 90 | 95 | 79 |
| 6622568 | 78 | 75 | 75 | 81 | 81 | 73 |
| 6622569 | 77 | 76 | 76 | 81 | 86 | 72 |
| 6622570 | 67 | 69 | 70 | 76 | 84 | 69 |
| 6622571 | 74 | 71 | 73 | 78 | 76 | 66 |
| 6622572 | 77 | 72 | 75 | 80 | 82 | 67 |
| Blank | 70 | 69 | 71 | 73 | 72 | 71 |
| OPR | 71 | 64 | 69 | 72 | 71 | 69 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6622565 | 83 | 63 | 59 | 74 | 82 | 79 |
| 6622566 | 86 | 64 | 60 | 78 | 99 | 93 |
| 6622567 | 111 | 74 | 67 | 81 | 107 | 103 |
| 6622568 | 104 | 74 | 74 | 81 | 88 | 88 |
| 6622569 | 108 | 70 | 67 | 83 | 96 | 95 |
| 6622570 | 101 | 70 | 68 | 73 | 86 | 82 |
| 6622571 | 97 | 66 | 61 | 75 | 82 | 81 |
| 6622572 | 99 | 62 | 56 | 78 | 92 | 86 |
| Blank | 87 | 70 | 68 | 74 | 78 | 76 |
| OPR | 90 | 68 | 65 | 72 | 79 | 80 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6622565 | 80 | 75 | 71 | 69 | 73 |
| 6622566 | 86 | 82 | 74 | 73 | 76 |
| 6622567 | 100 | 97 | 92 | 72 | 82 |
| 6622568 | 86 | 89 | 94 | 69 | 78 |
| 6622569 | 89 | 91 | 93 | 67 | 79 |
| 6622570 | 81 | 84 | 88 | 59 | 69 |
| 6622571 | 80 | 80 | 82 | 65 | 76 |
| 6622572 | 84 | 80 | 79 | 67 | 77 |
| Blank | 77 | 83 | 82 | 62 | 70 |
| OPR | 79 | 82 | 82 | 59 | 67 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1303406 Sample# 6622565-72

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSIS | SECONDARY ANALYSIS | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C.<br><br>Samplers Signatures: | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-090-NBZ-SS-0.0-0.5 | 4.17.12 | 1412 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-147-NBZ-SS-0.0-0.5 | 4.17.12 | 1525 | SOIL | NONE | 1-8 oz Jar | X | | | | |
| SL-008-NBZ-SB-4.0-5.0 | 4.18.12 | 0955 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-081-NBZ-SS-0.0-0.5 | 4.18.12 | 1000 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-082-NBZ-SS-0.0-0.5 | 4.18.12 | 1053 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-082-NBZ-SB-2.5-3.5 | 4.18.12 | 1057 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-083-NBZ-SB-0.0-0.5 | 4.18.12 | 1406 | SOIL | NONE | 1-8 oz Jar | X | X | X | X | |
| SL-189-NBZ-SS-0.0-0.5 | 4.18.12 | 1120 | SOIL | NONE | 1-8 oz Jar | X | | | | |
| Relinquished by: (*Signature*) | Date/Time<br>4/18/2012 1630 | | Received for Laboratory by: (*Signature*) | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*)<br>Brandy Bunch | Date/Time<br>4-19-12<br>910 | | Airbill No.(s)<br>7.98302E+11 | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

May 08, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/20/2012
Group Number: 1303751
SDG: DX170
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-146-NBZ-SS-0.0-0.5 Soil | 6624305 |
| SL-160-NBZ-SS-0.0-0.5 Soil | 6624306 |
| SL-012-NBZ-SS-0.0-0.5 Soil | 6624307 |
| SL-012-NBZ-SB-0.5-1.5 Soil | 6624308 |
| SL-086-NBZ-SS-0.0-0.5 Soil | 6624309 |
| SL-087-NBZ-SS-0.0-0.5 Soil | 6624310 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-146-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-NBZ-SS

**LLI Sample # SW 6624305**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 15:40

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7013 SDG#: DX170-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 13.7 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-146-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-NBZ-SS

**LLI Sample # SW 6624305**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

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Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7013 SDG#: DX170-13

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0440 | J | 0.0280 | 1.13 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.108 | J | 0.0271 | 5.66 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.107 | JB | 0.0370 | 5.66 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.252 | JB | 0.0403 | 5.66 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.242 | JBQ | 0.0394 | 5.66 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 4.61 | JB | 0.0327 | 5.66 | 1 |
| 11031 | OCDD | 3268-87-9 | 34.3 | B | 0.0267 | 11.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.284 | JB | 0.0663 | 1.13 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.292 | JB | 0.0366 | 5.66 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.571 | JB | 0.0344 | 5.66 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.248 | JB | 0.0346 | 5.66 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.176 | J | 0.0313 | 5.66 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0627 | JB | 0.0406 | 5.66 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.231 | JB | 0.0304 | 5.66 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.03 | JB | 0.0228 | 5.66 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0922 | JB | 0.0415 | 5.66 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.88 | JB | 0.0251 | 11.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 74 | 25 - 164 |
| 13C12-12378-PeCDD | 73 | 25 - 181 |
| 13C12-123478-HxCDD | 88 | 32 - 141 |
| 13C12-123678-HxCDD | 84 | 28 - 130 |
| 13C12-123789-HxCDD | 83 | 28 - 130 |
| 13C12-1234678-HpCDD | 78 | 23 - 140 |
| 13C12-OCDD | 74 | 17 - 157 |
| 13C12-2378-TCDF | 67 | 24 - 169 |
| 13C12-12378-PeCDF | 71 | 24 - 185 |
| 13C12-23478-PeCDF | 66 | 21 - 178 |
| 13C12-123478-HxCDF | 73 | 26 - 152 |
| 13C12-123678-HxCDF | 79 | 26 - 123 |
| 13C12-234678-HxCDF | 81 | 28 - 136 |
| 13C12-123789-HxCDF | 66 | 29 - 147 |
| 13C12-1234678-HpCDF | 101 | 28 - 143 |
| 13C12-1234789-HpCDF | 61 | 26 - 138 |
| 13C12-OCDF | 55 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-146-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-NBZ-SS

**LLI Sample # SW 6624305**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 15:40

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7013 SDG#: DX170-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-146-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-NBZ-SS

**LLI Sample # SW 6624305**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 15:40

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7013 SDG#: DX170-13

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 08:19 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401B | 05/01/2012 11:51 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

**LLI Sample # SW 6624306**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 14:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7014 SDG#: DX170-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.0 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

**LLI Sample # SW 6624306**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 14:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7014 SDG#: DX170-14

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0244 | U | 0.0244 | 1.12 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.108 | J | 0.0219 | 5.61 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0804 | JBQ | 0.0285 | 5.61 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.246 | JB | 0.0311 | 5.61 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.247 | JB | 0.0310 | 5.61 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.97 | JB | 0.0235 | 5.61 | 1 |
| 11031 | OCDD | 3268-87-9 | 10.7 | JB | 0.0227 | 11.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.208 | JB | 0.0591 | 1.12 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.253 | JBQ | 0.0365 | 5.61 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.605 | JB | 0.0369 | 5.61 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.238 | JB | 0.0276 | 5.61 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.159 | J | 0.0246 | 5.61 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0436 | JB | 0.0302 | 5.61 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.225 | JB | 0.0234 | 5.61 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.492 | JB | 0.0146 | 5.61 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0638 | JB | 0.0236 | 5.61 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.826 | JB | 0.0236 | 11.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 76 | 25 - 164 |
| 13C12-12378-PeCDD | 75 | 25 - 181 |
| 13C12-123478-HxCDD | 96 | 32 - 141 |
| 13C12-123678-HxCDD | 89 | 28 - 130 |
| 13C12-123789-HxCDD | 87 | 28 - 130 |
| 13C12-1234678-HpCDD | 83 | 23 - 140 |
| 13C12-OCDD | 78 | 17 - 157 |
| 13C12-2378-TCDF | 68 | 24 - 169 |
| 13C12-12378-PeCDF | 76 | 24 - 185 |
| 13C12-23478-PeCDF | 70 | 21 - 178 |
| 13C12-123478-HxCDF | 77 | 26 - 152 |
| 13C12-123678-HxCDF | 84 | 26 - 123 |
| 13C12-234678-HxCDF | 90 | 28 - 136 |
| 13C12-123789-HxCDF | 72 | 29 - 147 |
| 13C12-1234678-HpCDF | 97 | 28 - 143 |
| 13C12-1234789-HpCDF | 65 | 26 - 138 |
| 13C12-OCDF | 59 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

**LLI Sample # SW 6624306**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 14:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7014 SDG#: DX170-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

**LLI Sample # SW 6624306**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 14:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7014 SDG#: DX170-14

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 09:15 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401B | 05/01/2012 11:51 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-012-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-NBZ-SS

**LLI Sample # SW 6624307**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 08:46

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7015 SDG#: DX170-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 15.5 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-012-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-NBZ-SS

**LLI Sample # SW 6624307**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 08:46

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7015 SDG#: DX170-15

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0422 | U | 0.0422 | 1.18 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.187 | J | 0.0343 | 5.88 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.108 | JB | 0.0514 | 5.88 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.477 | JB | 0.0540 | 5.88 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.592 | JB | 0.0497 | 5.88 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.52 | JB | 0.0353 | 5.88 | 1 |
| 11031 | OCDD | 3268-87-9 | 25.5 | B | 0.0307 | 11.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.249 | JB | 0.0576 | 1.18 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.262 | JB | 0.0356 | 5.88 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.284 | JB | 0.0370 | 5.88 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.230 | JB | 0.0369 | 5.88 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.167 | J | 0.0323 | 5.88 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.126 | JB | 0.0436 | 5.88 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.201 | JB | 0.0324 | 5.88 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.593 | JB | 0.0180 | 5.88 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0859 | JB | 0.0347 | 5.88 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.19 | JB | 0.0323 | 11.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 76 | 25 - 164 |
| 13C12-12378-PeCDD | 89 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 83 | 28 - 130 |
| 13C12-123789-HxCDD | 85 | 28 - 130 |
| 13C12-1234678-HpCDD | 85 | 23 - 140 |
| 13C12-OCDD | 85 | 17 - 157 |
| 13C12-2378-TCDF | 70 | 24 - 169 |
| 13C12-12378-PeCDF | 89 | 24 - 185 |
| 13C12-23478-PeCDF | 79 | 21 - 178 |
| 13C12-123478-HxCDF | 76 | 26 - 152 |
| 13C12-123678-HxCDF | 85 | 26 - 123 |
| 13C12-234678-HxCDF | 80 | 28 - 136 |
| 13C12-123789-HxCDF | 66 | 29 - 147 |
| 13C12-1234678-HpCDF | 113 | 28 - 143 |
| 13C12-1234789-HpCDF | 64 | 26 - 138 |
| 13C12-OCDF | 59 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-012-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-NBZ-SS

**LLI Sample # SW 6624307**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 08:46

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7015 SDG#: DX170-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-012-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-NBZ-SS

**LLI Sample # SW 6624307**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 08:46

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7015 SDG#: DX170-15

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 15:37 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12116162401B | 04/25/2012 12:05 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-012-NBZ-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-NBZ-SB

**LLI Sample # SW 6624308**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 09:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7016 SDG#: DX170-16

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 15.6 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-012-NBZ-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-NBZ-SB

**LLI Sample # SW 6624308**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 09:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7016 SDG#: DX170-16

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0354 | U | 0.0354 | 1.18 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0604 | J | 0.0281 | 5.91 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0599 | JBQ | 0.0238 | 5.91 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.0847 | JB | 0.0252 | 5.91 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.149 | JB | 0.0243 | 5.91 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.524 | JB | 0.0289 | 5.91 | 1 |
| 11031 | OCDD | 3268-87-9 | 2.17 | JB | 0.0256 | 11.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0665 | JB | 0.0274 | 1.18 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.0845 | JBQ | 0.0200 | 5.91 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.0638 | JBQ | 0.0200 | 5.91 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.0668 | JB | 0.0146 | 5.91 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.0629 | J | 0.0128 | 5.91 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0882 | JB | 0.0164 | 5.91 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.0463 | JB | 0.0115 | 5.91 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.104 | JB | 0.0117 | 5.91 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0334 | JB | 0.0217 | 5.91 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.178 | JB | 0.0250 | 11.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 83 | 25 - 164 |
| 13C12-12378-PeCDD | 90 | 25 - 181 |
| 13C12-123478-HxCDD | 107 | 32 - 141 |
| 13C12-123678-HxCDD | 102 | 28 - 130 |
| 13C12-123789-HxCDD | 101 | 28 - 130 |
| 13C12-1234678-HpCDD | 100 | 23 - 140 |
| 13C12-OCDD | 100 | 17 - 157 |
| 13C12-2378-TCDF | 75 | 24 - 169 |
| 13C12-12378-PeCDF | 93 | 24 - 185 |
| 13C12-23478-PeCDF | 88 | 21 - 178 |
| 13C12-123478-HxCDF | 87 | 26 - 152 |
| 13C12-123678-HxCDF | 96 | 26 - 123 |
| 13C12-234678-HxCDF | 105 | 28 - 136 |
| 13C12-123789-HxCDF | 79 | 29 - 147 |
| 13C12-1234678-HpCDF | 126 | 28 - 143 |
| 13C12-1234789-HpCDF | 74 | 26 - 138 |
| 13C12-OCDF | 70 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-012-NBZ-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-NBZ-SB

**LLI Sample # SW 6624308**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 09:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7016 SDG#: DX170-16

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-012-NBZ-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-NBZ-SB

**LLI Sample # SW 6624308**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 09:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7016 SDG#: DX170-16

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 16:33 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12116162401B | 04/25/2012 12:05 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-086-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-NBZ-SS

**LLI Sample # SW 6624309**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:40

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7017 SDG#: DX170-17

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 18.5 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-086-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-NBZ-SS

**LLI Sample # SW 6624309**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:40

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7017 SDG#: DX170-17

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0744 | J | 0.0353 | 1.21 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.188 | J | 0.0380 | 6.04 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.252 | JB | 0.0555 | 6.04 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.617 | JB | 0.0571 | 6.04 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.485 | JB | 0.0573 | 6.04 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 10.9 | B | 0.0504 | 6.04 | 1 |
| 11031 | OCDD | 3268-87-9 | 109 | B | 0.0252 | 12.1 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.573 | JB | 0.218 | 1.21 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 3.30 | JB | 0.0850 | 6.04 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.684 | JB | 0.0885 | 6.04 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 1.04 | JB | 0.0496 | 6.04 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.295 | J | 0.0421 | 6.04 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.151 | JB | 0.0518 | 6.04 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.305 | JB | 0.0421 | 6.04 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.83 | JB | 0.0202 | 6.04 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.244 | JB | 0.0339 | 6.04 | 1 |
| 11031 | OCDF | 39001-02-0 | 3.87 | JB | 0.0274 | 12.1 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 82 | 25 - 164 |
| 13C12-12378-PeCDD | 89 | 25 - 181 |
| 13C12-123478-HxCDD | 94 | 32 - 141 |
| 13C12-123678-HxCDD | 93 | 28 - 130 |
| 13C12-123789-HxCDD | 89 | 28 - 130 |
| 13C12-1234678-HpCDD | 93 | 23 - 140 |
| 13C12-OCDD | 90 | 17 - 157 |
| 13C12-2378-TCDF | 72 | 24 - 169 |
| 13C12-12378-PeCDF | 89 | 24 - 185 |
| 13C12-23478-PeCDF | 81 | 21 - 178 |
| 13C12-123478-HxCDF | 81 | 26 - 152 |
| 13C12-123678-HxCDF | 89 | 26 - 123 |
| 13C12-234678-HxCDF | 89 | 28 - 136 |
| 13C12-123789-HxCDF | 77 | 29 - 147 |
| 13C12-1234678-HpCDF | 115 | 28 - 143 |
| 13C12-1234789-HpCDF | 73 | 26 - 138 |
| 13C12-OCDF | 67 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-086-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-NBZ-SS

**LLI Sample # SW 6624309**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:40

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7017 SDG#: DX170-17

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-086-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-NBZ-SS

**LLI Sample # SW 6624309**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:40

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7017 SDG#: DX170-17

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 17:30 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12116162401B | 04/25/2012 12:05 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-087-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-NBZ-SS

**LLI Sample # SW 6624310**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 10:09

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7018 SDG#: DX170-18*

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 29.8 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-087-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-NBZ-SS

**LLI Sample # SW 6624310**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 10:09

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7018 SDG#: DX170-18*

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0386 | U | 0.0386 | 1.39 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.236 | J | 0.0407 | 6.97 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.183 | JB | 0.0517 | 6.97 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.562 | JB | 0.0567 | 6.97 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.498 | JB | 0.0574 | 6.97 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 9.46 | B | 0.0453 | 6.97 | 1 |
| 11031 | OCDD | 3268-87-9 | 91.7 | B | 0.0393 | 13.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.398 | JB | 0.123 | 1.39 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 1.01 | JB | 0.0613 | 6.97 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.458 | JB | 0.0625 | 6.97 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.436 | JB | 0.0405 | 6.97 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.183 | JQ | 0.0363 | 6.97 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0767 | JB | 0.0466 | 6.97 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.217 | JB | 0.0346 | 6.97 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.11 | JB | 0.0228 | 6.97 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.162 | JBQ | 0.0439 | 6.97 | 1 |
| 11031 | OCDF | 39001-02-0 | 2.32 | JB | 0.0346 | 13.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 82 | 25 - 164 |
| 13C12-12378-PeCDD | 87 | 25 - 181 |
| 13C12-123478-HxCDD | 100 | 32 - 141 |
| 13C12-123678-HxCDD | 97 | 28 - 130 |
| 13C12-123789-HxCDD | 89 | 28 - 130 |
| 13C12-1234678-HpCDD | 92 | 23 - 140 |
| 13C12-OCDD | 85 | 17 - 157 |
| 13C12-2378-TCDF | 72 | 24 - 169 |
| 13C12-12378-PeCDF | 90 | 24 - 185 |
| 13C12-23478-PeCDF | 81 | 21 - 178 |
| 13C12-123478-HxCDF | 78 | 26 - 152 |
| 13C12-123678-HxCDF | 87 | 26 - 123 |
| 13C12-234678-HxCDF | 88 | 28 - 136 |
| 13C12-123789-HxCDF | 73 | 29 - 147 |
| 13C12-1234678-HpCDF | 111 | 28 - 143 |
| 13C12-1234789-HpCDF | 64 | 26 - 138 |
| 13C12-OCDF | 58 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-087-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-NBZ-SS

**LLI Sample # SW 6624310**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 10:09

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7018 SDG#: DX170-18*

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-087-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-NBZ-SS

**LLI Sample # SW 6624310**
**LLI Group # 1303751**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 10:09

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7018 SDG#: DX170-18*

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 18:27 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12116162401B | 04/25/2012 12:05 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303751
Reported: 05/08/12 at 05:20 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12116162401B | Sample number(s): 6624307-6624310 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 99 | | 80-120 | | |
| Batch number: 12122162401B | Sample number(s): 6624305-6624306 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12120001 | Sample number(s): 6624305-6624310 | | | | | | | | |
| 2378-TCDD | 0.0264 U | 0.0264 | 1.00 | ng/kg | 93 | | 67-158 | | |
| 12378-PeCDD | 0.0240 U | 0.0240 | 5.00 | ng/kg | 94 | | 70-142 | | |
| 123478-HxCDD | 0.0273 J | 0.0178 | 5.00 | ng/kg | 90 | | 70-164 | | |
| 123678-HxCDD | 0.0588 J | 0.0200 | 5.00 | ng/kg | 89 | | 76-134 | | |
| 123789-HxCDD | 0.0425 J | 0.0180 | 5.00 | ng/kg | 96 | | 64-162 | | |
| 1234678-HpCDD | 0.248 J | 0.0194 | 5.00 | ng/kg | 94 | | 70-140 | | |
| OCDD | 0.520 J | 0.0237 | 10.0 | ng/kg | 91 | | 78-144 | | |
| 2378-TCDF | 0.0264 J | 0.0215 | 1.00 | ng/kg | 87 | | 75-158 | | |
| 12378-PeCDF | 0.0232 J | 0.0179 | 5.00 | ng/kg | 95 | | 80-134 | | |
| 23478-PeCDF | 0.0647 J | 0.0164 | 5.00 | ng/kg | 88 | | 68-160 | | |
| 123478-HxCDF | 0.0435 J | 0.0121 | 5.00 | ng/kg | 94 | | 72-134 | | |
| 123678-HxCDF | 0.0114 U | 0.0114 | 5.00 | ng/kg | 96 | | 84-130 | | |
| 123789-HxCDF | 0.0552 J | 0.0123 | 5.00 | ng/kg | 96 | | 78-130 | | |
| 234678-HxCDF | 0.0333 J | 0.0110 | 5.00 | ng/kg | 90 | | 70-156 | | |
| 1234678-HpCDF | 0.0602 J | 0.00980 | 5.00 | ng/kg | 88 | | 82-122 | | |
| 1234789-HpCDF | 0.0289 J | 0.0135 | 5.00 | ng/kg | 93 | | 78-138 | | |
| OCDF | 0.108 J | 0.0186 | 10.0 | ng/kg | 93 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12116162401B | Sample number(s): 6624307-6624310 | | | | | BKG: P624302 | | | |
| Moisture Content by 160.3 | | | | | | 15.6 | 17.5 | 11 | 20 |
| Batch number: 12122162401B | Sample number(s): 6624305-6624306 | | | | | BKG: P620883 | | | |
| Moisture Content by 160.3 | | | | | | 16.7 | 16.3 | 2 | 20 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303751
Reported: 05/08/12 at 05:20 PM

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12120001

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6624305 | 74 | 66 | 73 | 79 | 81 | 66 |
| 6624306 | 76 | 70 | 77 | 84 | 90 | 72 |
| 6624307 | 76 | 79 | 76 | 85 | 80 | 66 |
| 6624308 | 83 | 88 | 87 | 96 | 105 | 79 |
| 6624309 | 82 | 81 | 81 | 89 | 89 | 77 |
| 6624310 | 82 | 81 | 78 | 87 | 88 | 73 |
| Blank | 70 | 69 | 71 | 73 | 72 | 71 |
| OPR | 71 | 64 | 69 | 72 | 71 | 69 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6624305 | 101 | 61 | 55 | 73 | 88 | 84 |
| 6624306 | 97 | 65 | 59 | 75 | 96 | 89 |
| 6624307 | 113 | 64 | 59 | 89 | 84 | 83 |
| 6624308 | 126 | 74 | 70 | 90 | 107 | 102 |
| 6624309 | 115 | 73 | 67 | 89 | 94 | 93 |
| 6624310 | 111 | 64 | 58 | 87 | 100 | 97 |
| Blank | 87 | 70 | 68 | 74 | 78 | 76 |
| OPR | 90 | 68 | 65 | 72 | 79 | 80 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6624305 | 83 | 78 | 74 | 67 | 71 |
| 6624306 | 87 | 83 | 78 | 68 | 76 |
| 6624307 | 85 | 85 | 85 | 70 | 89 |
| 6624308 | 101 | 100 | 100 | 75 | 93 |
| 6624309 | 89 | 93 | 90 | 72 | 89 |
| 6624310 | 89 | 92 | 85 | 72 | 90 |
| Blank | 77 | 83 | 82 | 62 | 70 |
| OPR | 79 | 82 | 82 | 59 | 67 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1303751 Sample# 6624305-10

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY / SECONDARY ANALY | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | Other Instructions and Notes |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-146-NBZ-SS-0.0-0.5 | 4.18.12 | 1540 | SOIL | NONE | 1- 4 oz Jar | X | | | | |
| SL-160-NBZ-SS-0.0-0.5 | 4.18.12 | 1425 | SOIL | NONE | 1- 4 oz Jar | X | | | | |
| SL-012-NBZ-SS-0.0-0.5 | 4.19.12 | 0846 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-012-NBZ-SB-0.5-1.5 | 4.19.12 | 0925 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-086-NBZ-SS-0.0-0.5 | 4.19.12 | 1140 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-087-NBZ-SS-0.0-0.5 | 4.19.12 | 1009 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-179-NBZ-SS-0.0-0.5 | 4.19.12 | 1110 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-184-NBZ-SS-0.0-0.5 | 4.19.12 | 1005 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| SL-193-NBZ-SS-0.0-0.5MS | 4.19.12 | 1145 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| DUP-08-NBZ-QC-041912 | 4.19.12 | 1150 | SOIL | NONE | 1-4 oz Jar | X | | | | |
| Relinquished by: (*Signature*) | Date/Time<br>4/19/2012 1630 | | Received for Laboratory by: (*Signature*) | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*)<br>Suzette Lehrer | Date/Time<br>4/20/12 0915 | | Airbill No.(s) | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# DX171

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

May 09, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/20/2012
Group Number: 1303752
SDG: DX171
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-179-NBZ-SS-0.0-0.5 Soil | 6624311 |
| SL-184-NBZ-SS-0.0-0.5 Soil | 6624312 |
| SL-193-NBZ-SS-0.0-0.5 Soil | 6624313 |
| SL-193-NBZ-SS-0.0-0.5 MS Soil | 6624314 |
| SL-193-NBZ-SS-0.0-0.5 MSD Soil | 6624315 |
| DUP-08-NBZ-QC-041912 Soil | 6624316 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

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Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-179-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-NBZ-SS

**LLI Sample # SW 6624311**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:10

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7101 SDG#: DX171-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.4 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-179-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-NBZ-SS

**LLI Sample # SW 6624311**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:10

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7101 SDG#: DX171-01

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0374 | J | 0.0177 | 1.12 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.193 | JB | 0.0305 | 5.59 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.158 | JB | 0.0217 | 5.59 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.327 | JB | 0.0211 | 5.59 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.359 | JB | 0.0211 | 5.59 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 6.43 | B | 0.0254 | 5.59 | 1 |
| 11031 | OCDD | 3268-87-9 | 34.4 | B | 0.0334 | 11.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.258 | JBQ | 0.0407 | 1.12 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.345 | JB | 0.0244 | 5.59 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.907 | JB | 0.0238 | 5.59 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.323 | JB | 0.0155 | 5.59 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.121 | JB | 0.0141 | 5.59 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0749 | JB | 0.0166 | 5.59 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.231 | JB | 0.0143 | 5.59 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.917 | JB | 0.0108 | 5.59 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.101 | JBQ | 0.0159 | 5.59 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.48 | JB | 0.0217 | 11.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 93 | 25 - 164 |
| 13C12-12378-PeCDD | 80 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 82 | 28 - 130 |
| 13C12-123789-HxCDD | 83 | 28 - 130 |
| 13C12-1234678-HpCDD | 79 | 23 - 140 |
| 13C12-OCDD | 81 | 17 - 157 |
| 13C12-2378-TCDF | 81 | 24 - 169 |
| 13C12-12378-PeCDF | 90 | 24 - 185 |
| 13C12-23478-PeCDF | 84 | 21 - 178 |
| 13C12-123478-HxCDF | 83 | 26 - 152 |
| 13C12-123678-HxCDF | 88 | 26 - 123 |
| 13C12-234678-HxCDF | 86 | 28 - 136 |
| 13C12-123789-HxCDF | 88 | 29 - 147 |
| 13C12-1234678-HpCDF | 93 | 28 - 143 |
| 13C12-1234789-HpCDF | 73 | 26 - 138 |
| 13C12-OCDF | 73 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-179-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-179-NBZ-SS**

**LLI Sample # SW 6624311**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:10

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7101 SDG#: DX171-01

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-179-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-NBZ-SS

**LLI Sample # SW 6624311**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:10

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7101 SDG#: DX171-01

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12123002 | 05/04/2012 03:15 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12123002 | 05/02/2012 12:55 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12129162401A | 05/08/2012 12:43 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-184-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-NBZ-SS

**LLI Sample # SW 6624312**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 10:05

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7102 SDG#: DX171-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 12.5 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-184-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-NBZ-SS

**LLI Sample # SW 6624312**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 10:05

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7102 SDG#: DX171-02

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0254 | J | 0.0165 | 1.13 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0788 | JB | 0.0241 | 5.63 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.119 | JBQ | 0.0219 | 5.63 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.268 | JB | 0.0215 | 5.63 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.242 | JB | 0.0213 | 5.63 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.74 | JB | 0.0183 | 5.63 | 1 |
| 11031 | OCDD | 3268-87-9 | 21.7 | B | 0.0271 | 11.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.149 | JB | 0.0437 | 1.13 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.231 | JB | 0.0247 | 5.63 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 1.18 | JB | 0.0257 | 5.63 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.206 | JBQ | 0.0144 | 5.63 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.134 | JB | 0.0131 | 5.63 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0567 | JBQ | 0.0167 | 5.63 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.177 | JB | 0.0130 | 5.63 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.762 | JB | 0.0127 | 5.63 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.134 | JB | 0.0190 | 5.63 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.33 | JB | 0.0190 | 11.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 80 | 25 - 164 |
| 13C12-12378-PeCDD | 79 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 81 | 28 - 130 |
| 13C12-123789-HxCDD | 82 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 81 | 17 - 157 |
| 13C12-2378-TCDF | 78 | 24 - 169 |
| 13C12-12378-PeCDF | 84 | 24 - 185 |
| 13C12-23478-PeCDF | 76 | 21 - 178 |
| 13C12-123478-HxCDF | 82 | 26 - 152 |
| 13C12-123678-HxCDF | 88 | 26 - 123 |
| 13C12-234678-HxCDF | 81 | 28 - 136 |
| 13C12-123789-HxCDF | 74 | 29 - 147 |
| 13C12-1234678-HpCDF | 92 | 28 - 143 |
| 13C12-1234789-HpCDF | 70 | 26 - 138 |
| 13C12-OCDF | 69 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-184-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-184-NBZ-SS**

**LLI Sample # SW 6624312**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 10:05

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7102 SDG#: DX171-02

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-184-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-NBZ-SS

**LLI Sample # SW 6624312**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 10:05

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7102 SDG#: DX171-02

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12123002 | 05/04/2012 04:12 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12123002 | 05/02/2012 12:55 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12129162401A | 05/08/2012 12:43 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-193-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-NBZ-SS

**LLI Sample # SW 6624313**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:45

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7103 SDG#: DX171-03BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.2 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-193-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-NBZ-SS

**LLI Sample # SW 6624313**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:45

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7103 SDG#: DX171-03BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0297 JQ | 0.0190 | 1.11 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.139 JB | 0.0264 | 5.53 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0890 JBQ | 0.0190 | 5.53 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.163 JB | 0.0190 | 5.53 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.202 JBQ | 0.0198 | 5.53 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.44 JB | 0.0175 | 5.53 | 1 |
| 11031 | OCDD | 3268-87-9 | 17.2 B | 0.0268 | 11.1 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.190 JB | 0.0366 | 1.11 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.298 JB | 0.0242 | 5.53 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.905 JBQ | 0.0230 | 5.53 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.197 JB | 0.0135 | 5.53 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.150 JBQ | 0.0125 | 5.53 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0539 JB | 0.0170 | 5.53 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.190 JB | 0.0131 | 5.53 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.444 JB | 0.0141 | 5.53 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0341 JBQ | 0.0200 | 5.53 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.843 JB | 0.0179 | 11.1 | 1 |

| **Labeled Compounds** | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 77 | 25 - 164 |
| 13C12-12378-PeCDD | 88 | 25 - 181 |
| 13C12-123478-HxCDD | 79 | 32 - 141 |
| 13C12-123678-HxCDD | 79 | 28 - 130 |
| 13C12-123789-HxCDD | 77 | 28 - 130 |
| 13C12-1234678-HpCDD | 79 | 23 - 140 |
| 13C12-OCDD | 80 | 17 - 157 |
| 13C12-2378-TCDF | 79 | 24 - 169 |
| 13C12-12378-PeCDF | 86 | 24 - 185 |
| 13C12-23478-PeCDF | 82 | 21 - 178 |
| 13C12-123478-HxCDF | 82 | 26 - 152 |
| 13C12-123678-HxCDF | 86 | 26 - 123 |
| 13C12-234678-HxCDF | 81 | 28 - 136 |
| 13C12-123789-HxCDF | 73 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 69 | 26 - 138 |
| 13C12-OCDF | 70 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-193-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-NBZ-SS

**LLI Sample # SW 6624313**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:45

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7103 SDG#: DX171-03BKG

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-193-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-NBZ-SS

**LLI Sample # SW 6624313**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:45

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7103 SDG#: DX171-03BKG

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12123002 | 05/04/2012 05:09 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12123002 | 05/02/2012 12:55 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12129162401A | 05/08/2012 12:43 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-193-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-193-NBZ-SS

**LLI Sample # SW 6624314**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:45

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7103 SDG#: DX171-03MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 11.2 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-193-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-193-NBZ-SS

**LLI Sample # SW 6624314**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:45

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7103 SDG#: DX171-03MS

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 23.3 | | 0.0235 | 1.11 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 116 | B | 0.0381 | 5.53 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 113 | B | 0.0430 | 5.53 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 110 | B | 0.0423 | 5.53 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 116 | B | 0.0422 | 5.53 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 121 | B | 0.0403 | 5.53 | 1 |
| 11031 | OCDD | 3268-87-9 | 253 | B | 0.0673 | 11.1 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 22.4 | B | 0.0475 | 1.11 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 116 | B | 0.0295 | 5.53 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 111 | B | 0.0285 | 5.53 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 114 | B | 0.0538 | 5.53 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 116 | B | 0.0495 | 5.53 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 113 | B | 0.0623 | 5.53 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 112 | B | 0.0510 | 5.53 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 107 | B | 0.0421 | 5.53 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 113 | B | 0.0614 | 5.53 | 1 |
| 11031 | OCDF | 39001-02-0 | 225 | B | 0.0590 | 11.1 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 89 | 25 - 164 |
| 13C12-12378-PeCDD | 91 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 82 | 28 - 130 |
| 13C12-123789-HxCDD | 83 | 28 - 130 |
| 13C12-1234678-HpCDD | 85 | 23 - 140 |
| 13C12-OCDD | 86 | 17 - 157 |
| 13C12-2378-TCDF | 83 | 24 - 169 |
| 13C12-12378-PeCDF | 91 | 24 - 185 |
| 13C12-23478-PeCDF | 87 | 21 - 178 |
| 13C12-123478-HxCDF | 86 | 26 - 152 |
| 13C12-123678-HxCDF | 90 | 26 - 123 |
| 13C12-234678-HxCDF | 84 | 28 - 136 |
| 13C12-123789-HxCDF | 81 | 29 - 147 |
| 13C12-1234678-HpCDF | 93 | 28 - 143 |
| 13C12-1234789-HpCDF | 74 | 26 - 138 |
| 13C12-OCDF | 75 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-193-NBZ-SS-0.0-0.5 MS Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-193-NBZ-SS**

**LLI Sample # SW 6624314**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:45

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7103 SDG#: DX171-03MS

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-193-NBZ-SS-0.0-0.5 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-193-NBZ-SS

**LLI Sample # SW 6624314**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:45

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7103 SDG#: DX171-03MS

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12123002 | 05/04/2012 06:05 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12123002 | 05/02/2012 12:55 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12129162401A | 05/08/2012 12:43 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-193-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-193-NBZ-SS

**LLI Sample # SW 6624315**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:45

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7103 SDG#: DX171-03MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11626 | 28a Moisture Content by 160.3 | n.a. | 10.9 | 0.50 | 0.50 | 1 |
| | The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations. | | | | | |
| 11625 | Moisture Content by 160.3 | n.a. | 11.2 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-193-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-193-NBZ-SS

**LLI Sample # SW 6624315**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:45

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7103 SDG#: DX171-03MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 22.6 | | 0.0197 | 1.10 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 117 | B | 0.0313 | 5.48 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 113 | B | 0.0440 | 5.48 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 108 | B | 0.0448 | 5.48 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 117 | B | 0.0422 | 5.48 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 119 | B | 0.0403 | 5.48 | 1 |
| 11031 | OCDD | 3268-87-9 | 237 | B | 0.0625 | 11.0 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 22.7 | B | 0.0395 | 1.10 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 116 | B | 0.0280 | 5.48 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 108 | B | 0.0286 | 5.48 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 115 | B | 0.0458 | 5.48 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 113 | B | 0.0405 | 5.48 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 114 | B | 0.0533 | 5.48 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 111 | B | 0.0413 | 5.48 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 108 | B | 0.0408 | 5.48 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 112 | B | 0.0613 | 5.48 | 1 |
| 11031 | OCDF | 39001-02-0 | 221 | B | 0.0568 | 11.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 90 | 25 - 164 |
| 13C12-12378-PeCDD | 95 | 25 - 181 |
| 13C12-123478-HxCDD | 94 | 32 - 141 |
| 13C12-123678-HxCDD | 92 | 28 - 130 |
| 13C12-123789-HxCDD | 95 | 28 - 130 |
| 13C12-1234678-HpCDD | 92 | 23 - 140 |
| 13C12-OCDD | 86 | 17 - 157 |
| 13C12-2378-TCDF | 89 | 24 - 169 |
| 13C12-12378-PeCDF | 96 | 24 - 185 |
| 13C12-23478-PeCDF | 90 | 21 - 178 |
| 13C12-123478-HxCDF | 95 | 26 - 152 |
| 13C12-123678-HxCDF | 102 | 26 - 123 |
| 13C12-234678-HxCDF | 94 | 28 - 136 |
| 13C12-123789-HxCDF | 85 | 29 - 147 |
| 13C12-1234678-HpCDF | 105 | 28 - 143 |
| 13C12-1234789-HpCDF | 79 | 26 - 138 |
| 13C12-OCDF | 74 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-193-NBZ-SS-0.0-0.5 MSD Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-193-NBZ-SS**

**LLI Sample # SW 6624315**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:45

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7103 SDG#: DX171-03MSD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-193-NBZ-SS-0.0-0.5 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-193-NBZ-SS

**LLI Sample # SW 6624315**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:45

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7103 SDG#: DX171-03MSD

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12123002 | 05/04/2012 07:02 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12123002 | 05/02/2012 12:55 | Ginelle L Haines | 1 |
| 11626 | 28a Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12129162401A | 05/08/2012 12:43 | William C Schwebel | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12129162401A | 05/08/2012 12:43 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** DUP-08-NBZ-QC-041912 Soil
SSFL Area IV Collocated Soil Sampling
DUP-08-NBZ

**LLI Sample # SW 6624316**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:50

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7104 SDG#: DX171-04FD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.0 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-08-NBZ-QC-041912 Soil
SSFL Area IV Collocated Soil Sampling
DUP-08-NBZ

**LLI Sample # SW 6624316**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:50

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7104 SDG#: DX171-04FD

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0624 | J | 0.0163 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.196 | JB | 0.0227 | 5.46 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.149 | JB | 0.0203 | 5.46 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.241 | JB | 0.0201 | 5.46 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.213 | JB | 0.0201 | 5.46 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.86 | JB | 0.0153 | 5.46 | 1 |
| 11031 | OCDD | 3268-87-9 | 12.4 | B | 0.0275 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.139 | JB | 0.0322 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.317 | JB | 0.0202 | 5.46 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.761 | JB | 0.0200 | 5.46 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.239 | JB | 0.0140 | 5.46 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.198 | JB | 0.0134 | 5.46 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.143 | JB | 0.0164 | 5.46 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.168 | JB | 0.0131 | 5.46 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.441 | JB | 0.0127 | 5.46 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.115 | JB | 0.0170 | 5.46 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.809 | JB | 0.0178 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 83 | 25 - 164 |
| 13C12-12378-PeCDD | 87 | 25 - 181 |
| 13C12-123478-HxCDD | 86 | 32 - 141 |
| 13C12-123678-HxCDD | 85 | 28 - 130 |
| 13C12-123789-HxCDD | 85 | 28 - 130 |
| 13C12-1234678-HpCDD | 84 | 23 - 140 |
| 13C12-OCDD | 79 | 17 - 157 |
| 13C12-2378-TCDF | 82 | 24 - 169 |
| 13C12-12378-PeCDF | 86 | 24 - 185 |
| 13C12-23478-PeCDF | 82 | 21 - 178 |
| 13C12-123478-HxCDF | 87 | 26 - 152 |
| 13C12-123678-HxCDF | 91 | 26 - 123 |
| 13C12-234678-HxCDF | 86 | 28 - 136 |
| 13C12-123789-HxCDF | 81 | 29 - 147 |
| 13C12-1234678-HpCDF | 91 | 28 - 143 |
| 13C12-1234789-HpCDF | 75 | 26 - 138 |
| 13C12-OCDF | 71 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** DUP-08-NBZ-QC-041912 Soil
SSFL Area IV Collocated Soil Sampling
DUP-08-NBZ

**LLI Sample # SW 6624316**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:50

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7104 SDG#: DX171-04FD

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** DUP-08-NBZ-QC-041912 Soil
SSFL Area IV Collocated Soil Sampling
DUP-08-NBZ

**LLI Sample # SW 6624316**
**LLI Group # 1303752**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 11:50

Submitted: 04/20/2012 09:15
Reported: 05/09/2012 23:07

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7104 SDG#: DX171-04FD

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12123002 | 05/04/2012 07:58 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12123002 | 05/02/2012 12:55 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12129162401A | 05/08/2012 12:43 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303752
Reported: 05/09/12 at 11:07 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12129162401A | Sample number(s): 6624311-6624316 | | | | | | | | |
| 28a Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12123002 | Sample number(s): 6624311-6624316 | | | | | | | | |
| 2378-TCDD | 0.0170 U | 0.0170 | 1.00 | ng/kg | 104 | | 67-158 | | |
| 12378-PeCDD | 0.0390 J | 0.0212 | 5.00 | ng/kg | 104 | | 70-142 | | |
| 123478-HxCDD | 0.0143 J | 0.0125 | 5.00 | ng/kg | 102 | | 70-164 | | |
| 123678-HxCDD | 0.0262 J | 0.0125 | 5.00 | ng/kg | 98 | | 76-134 | | |
| 123789-HxCDD | 0.0368 J | 0.0129 | 5.00 | ng/kg | 106 | | 64-162 | | |
| 1234678-HpCDD | 0.267 J | 0.0108 | 5.00 | ng/kg | 103 | | 70-140 | | |
| OCDD | 0.487 J | 0.0185 | 10.0 | ng/kg | 97 | | 78-144 | | |
| 2378-TCDF | 0.0207 J | 0.0174 | 1.00 | ng/kg | 103 | | 75-158 | | |
| 12378-PeCDF | 0.0408 J | 0.0153 | 5.00 | ng/kg | 104 | | 80-134 | | |
| 23478-PeCDF | 0.0666 J | 0.0145 | 5.00 | ng/kg | 97 | | 68-160 | | |
| 123478-HxCDF | 0.0364 J | 0.00850 | 5.00 | ng/kg | 100 | | 72-134 | | |
| 123678-HxCDF | 0.0261 J | 0.00720 | 5.00 | ng/kg | 101 | | 84-130 | | |
| 123789-HxCDF | 0.0187 J | 0.00990 | 5.00 | ng/kg | 103 | | 78-130 | | |
| 234678-HxCDF | 0.0255 J | 0.00780 | 5.00 | ng/kg | 98 | | 70-156 | | |
| 1234678-HpCDF | 0.0583 J | 0.00620 | 5.00 | ng/kg | 95 | | 82-122 | | |
| 1234789-HpCDF | 0.0274 J | 0.0109 | 5.00 | ng/kg | 101 | | 78-138 | | |
| OCDF | 0.114 J | 0.0202 | 10.0 | ng/kg | 98 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12129162401A | Sample number(s): 6624311-6624316 BKG: 6624313 | | | | | | | | |
| 28a Moisture Content by 160.3 | | | | | | 11.2 | 10.9 | 3 | 20 |
| Moisture Content by 160.3 | | | | | | 11.2 | 10.9 | 3 | 20 |
| Moisture Content by 160.3 | | | | | | 11.2 | 10.9 | 3 | 20 |
| Batch number: 12123002 | Sample number(s): 6624311-6624316 UNSPK: 6624313 | | | | | | | | |
| 2378-TCDD | 105 | 103 | 67-158 | 3 | 25 | | | | |
| 12378-PeCDD | 104 | 106 | 70-142 | 1 | 25 | | | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303752
Reported: 05/09/12 at 11:07 PM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| 123478-HxCDD | 102 | 103 | 70-164 | 0 | 25 | | | | |
| 123678-HxCDD | 99 | 98 | 76-134 | 2 | 25 | | | | |
| 123789-HxCDD | 105 | 106 | 64-162 | 0 | 25 | | | | |
| 1234678-HpCDD | 107 | 107 | 70-140 | 1 | 25 | | | | |
| OCDD | 107 | 100 | 78-144 | 7 | 25 | | | | |
| 2378-TCDF | 101 | 103 | 75-158 | 1 | 25 | | | | |
| 12378-PeCDF | 104 | 106 | 80-134 | 0 | 25 | | | | |
| 23478-PeCDF | 99 | 98 | 68-160 | 2 | 25 | | | | |
| 123478-HxCDF | 103 | 104 | 72-134 | 0 | 25 | | | | |
| 123678-HxCDF | 104 | 103 | 84-130 | 2 | 25 | | | | |
| 123789-HxCDF | 102 | 103 | 78-130 | 1 | 25 | | | | |
| 234678-HxCDF | 101 | 101 | 70-156 | 1 | 25 | | | | |
| 1234678-HpCDF | 97 | 98 | 82-122 | 0 | 25 | | | | |
| 1234789-HpCDF | 102 | 102 | 78-138 | 0 | 25 | | | | |
| OCDF | 101 | 101 | 63-170 | 1 | 25 | | | | |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12123002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6624311 | 93 | 84 | 83 | 88 | 86 | 88 |
| 6624312 | 80 | 76 | 82 | 88 | 81 | 74 |
| 6624313 | 77 | 82 | 82 | 86 | 81 | 73 |
| 6624314 | 89 | 87 | 86 | 90 | 84 | 81 |
| 6624315 | 90 | 90 | 95 | 102 | 94 | 85 |
| 6624316 | 83 | 82 | 87 | 91 | 86 | 81 |
| Blank | 69 | 77 | 76 | 85 | 79 | 70 |
| MS | 89 | 87 | 86 | 90 | 84 | 81 |
| MSD | 90 | 90 | 95 | 102 | 94 | 85 |
| OPR | 70 | 70 | 75 | 83 | 76 | 72 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6624311 | 93 | 73 | 73 | 80 | 83 | 82 |
| 6624312 | 92 | 70 | 69 | 79 | 84 | 81 |
| 6624313 | 86 | 69 | 70 | 88 | 79 | 79 |
| 6624314 | 93 | 74 | 75 | 91 | 83 | 82 |
| 6624315 | 105 | 79 | 74 | 95 | 94 | 92 |
| 6624316 | 91 | 75 | 71 | 87 | 86 | 85 |
| Blank | 103 | 69 | 62 | 80 | 82 | 83 |
| MS | 93 | 74 | 75 | 91 | 83 | 82 |
| MSD | 105 | 79 | 74 | 95 | 94 | 92 |
| OPR | 99 | 67 | 66 | 71 | 79 | 78 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303752
Reported: 05/09/12 at 11:07 PM

## Surrogate Quality Control

| | | | | | | |
|---|---|---|---|---|---|---|
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |
| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF | |
| 6624311 | 83 | 79 | 81 | 81 | 90 | |
| 6624312 | 82 | 82 | 81 | 78 | 84 | |
| 6624313 | 77 | 79 | 80 | 79 | 86 | |
| 6624314 | 83 | 85 | 86 | 83 | 91 | |
| 6624315 | 95 | 92 | 86 | 89 | 96 | |
| 6624316 | 85 | 84 | 79 | 82 | 86 | |
| Blank | 83 | 83 | 78 | 65 | 79 | |
| MS | 83 | 85 | 86 | 83 | 91 | |
| MSD | 95 | 92 | 86 | 89 | 96 | |
| OPR | 79 | 81 | 80 | 64 | 75 | |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1303752 Sample# 6624311-16

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | PRIMARY ANALYSES | SECONDARY ANALYSES | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | |
| Samplers Signatures: | | | | | | |

| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B |
|---|---|---|---|---|---|---|---|---|---|
| SL-146-NBZ-SS-0.0-0.5 | 4.18.12 | 1540 | SOIL | NONE | 1- 4 oz Jar | X | | | |
| SL-160-NBZ-SS-0.0-0.5 | 4.18.12 | 1425 | SOIL | NONE | 1- 4 oz Jar | X | | | |
| SL-012-NBZ-SS-0.0-0.5 | 4.19.12 | 0846 | SOIL | NONE | 1-16 oz Jar | X | X | X | X |
| SL-012-NBZ-SB-0.5-1.5 | 4.19.12 | 0925 | SOIL | NONE | 1-16 oz Jar | X | X | X | X |
| SL-086-NBZ-SS-0.0-0.5 | 4.19.12 | 1140 | SOIL | NONE | 1-16 oz Jar | X | X | X | X |
| SL-087-NBZ-SS-0.0-0.5 | 4.19.12 | 1009 | SOIL | NONE | 1-16 oz Jar | X | X | X | X |
| SL-179-NBZ-SS-0.0-0.5 | 4.19.12 | 1110 | SOIL | NONE | 1-4 oz Jar | X | | | |
| SL-184-NBZ-SS-0.0-0.5 | 4.19.12 | 1005 | SOIL | NONE | 1-4 oz Jar | X | | | |
| SL-193-NBZ-SS-0.0-0.5MS | 4.19.12 | 1145 | SOIL | NONE | 1-4 oz Jar | X | | | |
| DUP-08-NBZ-QC-041912 | 4.19.12 | 1150 | SOIL | NONE | 1-4 oz Jar | X | | | |

| Relinquished by: (*Signature*) | Date/Time | Received for Laboratory by: (*Signature*) | Laboratory: |
|---|---|---|---|
| | 4/19/2012 1630 | | Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | Airbill No.(s) | |
| Suzette Lehrau | 4/20/12 0915 | | |

## Tamara J. Helsel

**From:** Angela M. Miller
**Sent:** Friday, April 20, 2012 3:58 PM
**To:** Tamara J. Helsel
**Subject:** FW: yesterdays samples

Hi Tammy,

Per Pam- pls run the extra dup as teh SL-193-NBZ-SS-0.0-0.5.

Thanks!
Angela

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Friday, April 20, 2012 3:22 PM
To: Angela M. Miller
Subject: RE: yesterdays samples

Angela

Yes, you are correct. Can you pls run the extra dup as teh SL-193-NBZ-SS-0.0-0.5?

Thank you

Pam

Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

---

From: Angela M. Miller [AMiller@lancasterlabs.com]
Sent: Friday, April 20, 2012 10:31 AM
To: Nicole Maljovec; Hartman, Pamela
Cc: Tamara J. Helsel
Subject: RE: yesterdays samples

Hi Pam,

We received two jars for the DUP-08-NBZ-QC-041912 sample but did not receive a sample jar for the sample SL-193-NBZ-SS-0.0-0.5MS. Do you think the extra jar is intended for sample SL-193?

Thanks,
Angela
Lancaster Laboratories

-----Original Message-----
From: Nicole Maljovec
Sent: Friday, April 20, 2012 12:56 PM
To: 'Hartman, Pamela'
Cc: Tamara J. Helsel; Angela M. Miller
Subject: RE: yesterdays samples

I think we do! I'm going to print out the COCs and see what we have. Unfortunately, I'm leaving for a trip in a few minutes. Either Tammy or Ang will follow up if we have issues!

If we have extras, do they need to be sent somewhere?

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Friday, April 20, 2012 11:55 AM
To: Nicole Maljovec
Subject: yesterdays samples

Hi Nicole

I may have mixed up some samples yesterday, sorry in advance. Let me know if you guys have extra jars!

Thanks,

Pam

Pamela Hartman
CDM Smith
523 West Sixth Street Suite 400
Los Angeles, CA 90014
818 466 8007 (Santa Susana Field Site)
714 900 0916 (Cell)

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

May 09, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/21/2012
Group Number: 1303884
SDG: DX171
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-017-NBZ-SS-0.0-0.5 Soil | 6625149 |
| SL-150-NBZ-SS-0.0-0.5 Soil | 6625150 |
| SL-178-NBZ-SS-0.0-0.5 Soil | 6625151 |
| SL-016-NBZ-SS-0.0-0.5 Soil | 6625152 |
| SL-018-NBZ-SS-0.0-0.5 Soil | 6625153 |
| SL-080-NBZ-SS-0.0-0.5 Soil | 6625154 |
| SL-089-NBZ-SS-0.0-0.5 Soil | 6625155 |
| SL-170-NBZ-SS-0.0-0.5 Soil | 6625156 |
| SL-171-NBZ-SS-0.0-0.5 Soil | 6625157 |
| SL-202-NBZ-SS-0.0-0.5 Soil | 6625158 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

# Analysis Report



**Sample Description:** SL-017-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-NBZ-SS

**LLI Sample # SW 6625149**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 10:09

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7105 SDG#: DX171-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 30.6 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-017-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-NBZ-SS

**LLI Sample # SW 6625149**
**LLI Group # 1303884**
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Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7105 SDG#: DX171-05

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0647 | J | 0.0280 | 1.40 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.738 | JB | 0.0457 | 6.99 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 1.13 | JB | 0.0399 | 6.99 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 2.74 | JB | 0.0396 | 6.99 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 2.03 | JB | 0.0396 | 6.99 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 57.8 | B | 0.0680 | 6.99 | 1 |
| 11031 | OCDD | 3268-87-9 | 493 | B | 0.116 | 14.0 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.470 | JBQ | 0.0938 | 1.40 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 1.72 | JB | 0.0509 | 6.99 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 3.07 | JB | 0.0477 | 6.99 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 1.38 | JB | 0.0281 | 6.99 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.751 | JB | 0.0259 | 6.99 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.211 | JB | 0.0311 | 6.99 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.848 | JB | 0.0259 | 6.99 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 8.04 | B | 0.0490 | 6.99 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.674 | JB | 0.0605 | 6.99 | 1 |
| 11031 | OCDF | 39001-02-0 | 17.4 | B | 0.0370 | 14.0 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 83 | 25 - 164 |
| 13C12-12378-PeCDD | 85 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 83 | 28 - 130 |
| 13C12-123789-HxCDD | 83 | 28 - 130 |
| 13C12-1234678-HpCDD | 83 | 23 - 140 |
| 13C12-OCDD | 80 | 17 - 157 |
| 13C12-2378-TCDF | 85 | 24 - 169 |
| 13C12-12378-PeCDF | 85 | 24 - 185 |
| 13C12-23478-PeCDF | 83 | 21 - 178 |
| 13C12-123478-HxCDF | 85 | 26 - 152 |
| 13C12-123678-HxCDF | 87 | 26 - 123 |
| 13C12-234678-HxCDF | 86 | 28 - 136 |
| 13C12-123789-HxCDF | 83 | 29 - 147 |
| 13C12-1234678-HpCDF | 85 | 28 - 143 |
| 13C12-1234789-HpCDF | 79 | 26 - 138 |
| 13C12-OCDF | 76 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-017-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-017-NBZ-SS**

**LLI Sample # SW 6625149**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 10:09

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7105 SDG#: DX171-05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-017-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-NBZ-SS

**LLI Sample # SW 6625149**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 10:09

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7105 SDG#: DX171-05

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12123002 | 05/04/2012 08:55 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12123002 | 05/02/2012 12:55 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12121162401A | 04/30/2012 11:45 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-150-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-NBZ-SS

**LLI Sample # SW 6625150**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 15:35

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7106 SDG#: DX171-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 10.7 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-150-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-NBZ-SS

**LLI Sample # SW 6625150**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 15:35

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7106 SDG#: DX171-06

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0263 | U | 0.0263 | 1.12 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.680 | JBQ | 0.0283 | 5.58 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.290 | JB | 0.0227 | 5.58 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 2.63 | JB | 0.0243 | 5.58 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 3.53 | JB | 0.0239 | 5.58 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 14.8 | B | 0.0280 | 5.58 | 1 |
| 11031 | OCDD | 3268-87-9 | 98.5 | B | 0.0464 | 11.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.238 | JB | 0.0356 | 1.12 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.568 | JB | 0.0235 | 5.58 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 1.24 | JB | 0.0211 | 5.58 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.444 | JB | 0.0158 | 5.58 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.422 | JB | 0.0144 | 5.58 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.505 | JB | 0.0179 | 5.58 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.381 | JB | 0.0151 | 5.58 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 2.08 | JB | 0.0254 | 5.58 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.228 | JB | 0.0357 | 5.58 | 1 |
| 11031 | OCDF | 39001-02-0 | 4.10 | JB | 0.0202 | 11.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 78 | 25 - 164 |
| 13C12-12378-PeCDD | 81 | 25 - 181 |
| 13C12-123478-HxCDD | 79 | 32 - 141 |
| 13C12-123678-HxCDD | 78 | 28 - 130 |
| 13C12-123789-HxCDD | 79 | 28 - 130 |
| 13C12-1234678-HpCDD | 76 | 23 - 140 |
| 13C12-OCDD | 68 | 17 - 157 |
| 13C12-2378-TCDF | 79 | 24 - 169 |
| 13C12-12378-PeCDF | 80 | 24 - 185 |
| 13C12-23478-PeCDF | 83 | 21 - 178 |
| 13C12-123478-HxCDF | 80 | 26 - 152 |
| 13C12-123678-HxCDF | 83 | 26 - 123 |
| 13C12-234678-HxCDF | 80 | 28 - 136 |
| 13C12-123789-HxCDF | 73 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 71 | 26 - 138 |
| 13C12-OCDF | 61 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-150-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-NBZ-SS

**LLI Sample # SW 6625150**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 15:35

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7106 SDG#: DX171-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-150-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-NBZ-SS

**LLI Sample # SW 6625150**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 15:35

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7106 SDG#: DX171-06

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12123002 | 05/04/2012 09:52 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12123002 | 05/02/2012 12:55 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12129162401A | 05/08/2012 12:43 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-178-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-NBZ-SS

**LLI Sample # SW 6625151**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 15:00

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7107 SDG#: DX171-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 9.9 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-178-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-NBZ-SS

**LLI Sample # SW 6625151**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 15:00

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7107 SDG#: DX171-07

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.103 | JQ | 0.0179 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.261 | JB | 0.0272 | 5.46 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.165 | JB | 0.0193 | 5.46 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.348 | JB | 0.0202 | 5.46 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.258 | JB | 0.0199 | 5.46 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 4.07 | JB | 0.0212 | 5.46 | 1 |
| 11031 | OCDD | 3268-87-9 | 27.6 | B | 0.0337 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.374 | JBQ | 0.0455 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.834 | JB | 0.0269 | 5.46 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 1.44 | JB | 0.0262 | 5.46 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.398 | JB | 0.0151 | 5.46 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.279 | JB | 0.0142 | 5.46 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.125 | JB | 0.0175 | 5.46 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.229 | JB | 0.0142 | 5.46 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.845 | JB | 0.0143 | 5.46 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.143 | JB | 0.0199 | 5.46 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.68 | JB | 0.0205 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 80 | 25 - 164 |
| 13C12-12378-PeCDD | 80 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 80 | 28 - 130 |
| 13C12-123789-HxCDD | 81 | 28 - 130 |
| 13C12-1234678-HpCDD | 78 | 23 - 140 |
| 13C12-OCDD | 79 | 17 - 157 |
| 13C12-2378-TCDF | 81 | 24 - 169 |
| 13C12-12378-PeCDF | 87 | 24 - 185 |
| 13C12-23478-PeCDF | 82 | 21 - 178 |
| 13C12-123478-HxCDF | 82 | 26 - 152 |
| 13C12-123678-HxCDF | 86 | 26 - 123 |
| 13C12-234678-HxCDF | 84 | 28 - 136 |
| 13C12-123789-HxCDF | 77 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 73 | 26 - 138 |
| 13C12-OCDF | 72 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-178-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-178-NBZ-SS**

**LLI Sample # SW 6625151**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 15:00

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7107 SDG#: DX171-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-178-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-178-NBZ-SS

**LLI Sample # SW 6625151**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/19/2012 15:00

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7107 SDG#: DX171-07

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12123002 | 05/04/2012 13:51 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12123002 | 05/02/2012 12:55 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12129162401A | 05/08/2012 12:43 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-016-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-NBZ-SS

**LLI Sample # SW 6625152**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 12:10

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7108 SDG#: DX171-08

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 20.4 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-016-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-NBZ-SS

**LLI Sample # SW 6625152**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 12:10

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7108 SDG#: DX171-08

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0998 | JQ | 0.0264 | 1.24 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.647 | JB | 0.0423 | 6.19 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 1.21 | JB | 0.0319 | 6.19 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 3.68 | JB | 0.0323 | 6.19 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 1.98 | JB | 0.0333 | 6.19 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 79.9 | B | 0.0714 | 6.19 | 1 |
| 11031 | OCDD | 3268-87-9 | 692 | B | 0.105 | 12.4 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.541 | JB | 0.0588 | 1.24 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 1.15 | JB | 0.0362 | 6.19 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 1.73 | JB | 0.0351 | 6.19 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 1.13 | JB | 0.0263 | 6.19 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.625 | JB | 0.0241 | 6.19 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.218 | JB | 0.0302 | 6.19 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.872 | JB | 0.0250 | 6.19 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 9.77 | B | 0.0284 | 6.19 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.991 | JB | 0.0368 | 6.19 | 1 |
| 11031 | OCDF | 39001-02-0 | 23.5 | B | 0.0351 | 12.4 | 1 |

| **Labeled Compounds** | **%Rec** | **Windows** |
|---|---|---|
| 13C12-2378-TCDD | 84 | 25 - 164 |
| 13C12-12378-PeCDD | 83 | 25 - 181 |
| 13C12-123478-HxCDD | 84 | 32 - 141 |
| 13C12-123678-HxCDD | 83 | 28 - 130 |
| 13C12-123789-HxCDD | 84 | 28 - 130 |
| 13C12-1234678-HpCDD | 85 | 23 - 140 |
| 13C12-OCDD | 88 | 17 - 157 |
| 13C12-2378-TCDF | 80 | 24 - 169 |
| 13C12-12378-PeCDF | 86 | 24 - 185 |
| 13C12-23478-PeCDF | 80 | 21 - 178 |
| 13C12-123478-HxCDF | 84 | 26 - 152 |
| 13C12-123678-HxCDF | 88 | 26 - 123 |
| 13C12-234678-HxCDF | 84 | 28 - 136 |
| 13C12-123789-HxCDF | 82 | 29 - 147 |
| 13C12-1234678-HpCDF | 92 | 28 - 143 |
| 13C12-1234789-HpCDF | 78 | 26 - 138 |
| 13C12-OCDF | 79 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B* *Detected in Method Blank*
*U* *Undetected*
*J* *Estimated concentration between Estimated Detection Limit and Minimum Level*
*E* *Exceeds calibration range*
*C* *Confirmed quantitation on secondary GC column*
*Q* *EMPC - Estimated Maximum Possible Concentration*
*F* *Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-016-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-016-NBZ-SS**

**LLI Sample # SW 6625152**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 12:10

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7108 SDG#: DX171-08

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-016-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-NBZ-SS

**LLI Sample # SW 6625152**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 12:10

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7108 SDG#: DX171-08

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12123002 | 05/04/2012 14:48 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12123002 | 05/02/2012 12:55 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12121162401A | 04/30/2012 11:45 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-018-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-NBZ-SS

**LLI Sample # SW 6625153**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 10:59

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7109 SDG#: DX171-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 20.3 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-018-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-NBZ-SS

**LLI Sample # SW 6625153**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 10:59

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7109 SDG#: DX171-09

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.107 | J | 0.0272 | 1.23 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.419 | JB | 0.0355 | 6.13 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.417 | JB | 0.0258 | 6.13 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.716 | JB | 0.0272 | 6.13 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.732 | JB | 0.0267 | 6.13 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 27.4 | B | 0.0381 | 6.13 | 1 |
| 11031 | OCDD | 3268-87-9 | 219 | B | 0.0676 | 12.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.364 | JB | 0.0546 | 1.23 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.332 | JBQ | 0.0338 | 6.13 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 1.78 | JB | 0.0299 | 6.13 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.365 | JBQ | 0.0163 | 6.13 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.304 | JB | 0.0152 | 6.13 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0612 | JBQ | 0.0173 | 6.13 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.314 | JB | 0.0163 | 6.13 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 2.53 | JB | 0.0275 | 6.13 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.283 | JB | 0.0366 | 6.13 | 1 |
| 11031 | OCDF | 39001-02-0 | 4.89 | JB | 0.0251 | 12.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 87 | 25 - 164 |
| 13C12-12378-PeCDD | 87 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 82 | 28 - 130 |
| 13C12-123789-HxCDD | 84 | 28 - 130 |
| 13C12-1234678-HpCDD | 88 | 23 - 140 |
| 13C12-OCDD | 79 | 17 - 157 |
| 13C12-2378-TCDF | 84 | 24 - 169 |
| 13C12-12378-PeCDF | 87 | 24 - 185 |
| 13C12-23478-PeCDF | 89 | 21 - 178 |
| 13C12-123478-HxCDF | 85 | 26 - 152 |
| 13C12-123678-HxCDF | 87 | 26 - 123 |
| 13C12-234678-HxCDF | 85 | 28 - 136 |
| 13C12-123789-HxCDF | 83 | 29 - 147 |
| 13C12-1234678-HpCDF | 91 | 28 - 143 |
| 13C12-1234789-HpCDF | 81 | 26 - 138 |
| 13C12-OCDF | 75 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-018-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-NBZ-SS

**LLI Sample # SW 6625153**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 10:59

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7109 SDG#: DX171-09

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-018-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-NBZ-SS

**LLI Sample # SW 6625153**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 10:59

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7109 SDG#: DX171-09

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12123002 | 05/04/2012 15:44 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12123002 | 05/02/2012 12:55 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12121162401A | 04/30/2012 11:45 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-080-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-NBZ-SS

**LLI Sample # SW 6625154**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 09:50

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7110 SDG#: DX171-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 11.1 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-080-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-NBZ-SS

**LLI Sample # SW 6625154**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 09:50

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7110 SDG#: DX171-10

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0673 | J | 0.0286 | 1.11 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.205 | JB | 0.0291 | 5.55 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.124 | JB | 0.0201 | 5.55 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.354 | JB | 0.0200 | 5.55 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.364 | JB | 0.0198 | 5.55 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 5.65 | B | 0.0201 | 5.55 | 1 |
| 11031 | OCDD | 3268-87-9 | 37.3 | B | 0.0278 | 11.1 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.151 | JB | 0.0493 | 1.11 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.323 | JB | 0.0279 | 5.55 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.955 | JB | 0.0245 | 5.55 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.362 | JB | 0.0155 | 5.55 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.194 | JB | 0.0146 | 5.55 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0427 | JBQ | 0.0186 | 5.55 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.236 | JB | 0.0148 | 5.55 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.82 | JB | 0.0208 | 5.55 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.160 | JBQ | 0.0303 | 5.55 | 1 |
| 11031 | OCDF | 39001-02-0 | 3.05 | JB | 0.0182 | 11.1 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 80 | 25 - 164 |
| 13C12-12378-PeCDD | 90 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 82 | 28 - 130 |
| 13C12-123789-HxCDD | 82 | 28 - 130 |
| 13C12-1234678-HpCDD | 85 | 23 - 140 |
| 13C12-OCDD | 79 | 17 - 157 |
| 13C12-2378-TCDF | 80 | 24 - 169 |
| 13C12-12378-PeCDF | 86 | 24 - 185 |
| 13C12-23478-PeCDF | 91 | 21 - 178 |
| 13C12-123478-HxCDF | 81 | 26 - 152 |
| 13C12-123678-HxCDF | 84 | 26 - 123 |
| 13C12-234678-HxCDF | 80 | 28 - 136 |
| 13C12-123789-HxCDF | 74 | 29 - 147 |
| 13C12-1234678-HpCDF | 96 | 28 - 143 |
| 13C12-1234789-HpCDF | 75 | 26 - 138 |
| 13C12-OCDF | 69 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-080-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-NBZ-SS

**LLI Sample # SW 6625154**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 09:50

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7110 SDG#: DX171-10

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-080-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-NBZ-SS

**LLI Sample # SW 6625154**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 09:50

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7110 SDG#: DX171-10

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12123002 | 05/04/2012 16:41 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12123002 | 05/02/2012 12:55 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12121162401A | 04/30/2012 11:45 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-089-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-NBZ-SS

**LLI Sample # SW 6625155**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 12:06

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7111 SDG#: DX171-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 11.8 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-089-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-NBZ-SS

**LLI Sample # SW 6625155**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 12:06

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7111 SDG#: DX171-11

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0505 | JQ | 0.0273 | 1.12 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.389 | JB | 0.0398 | 5.60 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.389 | JB | 0.0252 | 5.60 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.965 | JB | 0.0259 | 5.60 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.741 | JB | 0.0249 | 5.60 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 17.6 | B | 0.0320 | 5.60 | 1 |
| 11031 | OCDD | 3268-87-9 | 105 | B | 0.0434 | 11.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.422 | JB | 0.0727 | 1.12 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.615 | JB | 0.0395 | 5.60 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 2.02 | JB | 0.0365 | 5.60 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.647 | JB | 0.0207 | 5.60 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.408 | JB | 0.0192 | 5.60 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0496 | JB | 0.0236 | 5.60 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.440 | JB | 0.0188 | 5.60 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 2.64 | JB | 0.0254 | 5.60 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.217 | JB | 0.0351 | 5.60 | 1 |
| 11031 | OCDF | 39001-02-0 | 4.26 | JB | 0.0248 | 11.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 78 | 25 - 164 |
| 13C12-12378-PeCDD | 85 | 25 - 181 |
| 13C12-123478-HxCDD | 81 | 32 - 141 |
| 13C12-123678-HxCDD | 78 | 28 - 130 |
| 13C12-123789-HxCDD | 78 | 28 - 130 |
| 13C12-1234678-HpCDD | 84 | 23 - 140 |
| 13C12-OCDD | 77 | 17 - 157 |
| 13C12-2378-TCDF | 79 | 24 - 169 |
| 13C12-12378-PeCDF | 85 | 24 - 185 |
| 13C12-23478-PeCDF | 84 | 21 - 178 |
| 13C12-123478-HxCDF | 81 | 26 - 152 |
| 13C12-123678-HxCDF | 85 | 26 - 123 |
| 13C12-234678-HxCDF | 80 | 28 - 136 |
| 13C12-123789-HxCDF | 73 | 29 - 147 |
| 13C12-1234678-HpCDF | 91 | 28 - 143 |
| 13C12-1234789-HpCDF | 74 | 26 - 138 |
| 13C12-OCDF | 69 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-089-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-NBZ-SS

**LLI Sample # SW 6625155**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 12:06

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7111 SDG#: DX171-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-089-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-NBZ-SS

**LLI Sample # SW 6625155**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 12:06

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7111 SDG#: DX171-11

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12123002 | 05/04/2012 17:38 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12123002 | 05/02/2012 12:55 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12121162401A | 04/30/2012 11:45 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-170-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-170-NBZ-SS

**LLI Sample # SW 6625156**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 10:55

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7112 SDG#: DX171-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.5 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-170-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-170-NBZ-SS

**LLI Sample # SW 6625156**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 10:55

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7112 SDG#: DX171-12

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | **ng/kg** | | **ng/kg** | **ng/kg** | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0458 | JQ | 0.0157 | 1.08 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.159 | JB | 0.0262 | 5.42 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.105 | JBQ | 0.0220 | 5.42 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.358 | JB | 0.0230 | 5.42 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.265 | JBQ | 0.0222 | 5.42 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 3.01 | JB | 0.0204 | 5.42 | 1 |
| 11031 | OCDD | 3268-87-9 | 22.2 | B | 0.0268 | 10.8 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.111 | JB | 0.0438 | 1.08 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.364 | JBQ | 0.0287 | 5.42 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.910 | JB | 0.0271 | 5.42 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.283 | JB | 0.0169 | 5.42 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.161 | JB | 0.0151 | 5.42 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.149 | JB | 0.0173 | 5.42 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.197 | JB | 0.0154 | 5.42 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.801 | JB | 0.0169 | 5.42 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0735 | JB | 0.0231 | 5.42 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.31 | JB | 0.0212 | 10.8 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 92 | 25 - 164 |
| 13C12-12378-PeCDD | 99 | 25 - 181 |
| 13C12-123478-HxCDD | 89 | 32 - 141 |
| 13C12-123678-HxCDD | 89 | 28 - 130 |
| 13C12-123789-HxCDD | 93 | 28 - 130 |
| 13C12-1234678-HpCDD | 95 | 23 - 140 |
| 13C12-OCDD | 89 | 17 - 157 |
| 13C12-2378-TCDF | 88 | 24 - 169 |
| 13C12-12378-PeCDF | 98 | 24 - 185 |
| 13C12-23478-PeCDF | 93 | 21 - 178 |
| 13C12-123478-HxCDF | 84 | 26 - 152 |
| 13C12-123678-HxCDF | 91 | 26 - 123 |
| 13C12-234678-HxCDF | 92 | 28 - 136 |
| 13C12-123789-HxCDF | 86 | 29 - 147 |
| 13C12-1234678-HpCDF | 101 | 28 - 143 |
| 13C12-1234789-HpCDF | 82 | 26 - 138 |
| 13C12-OCDF | 75 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-170-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-170-NBZ-SS**

**LLI Sample # SW 6625156**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 10:55

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7112 SDG#: DX171-12

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-170-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-170-NBZ-SS

**LLI Sample # SW 6625156**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 10:55

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7112 SDG#: DX171-12

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12123002 | 05/04/2012 18:34 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12123002 | 05/02/2012 12:55 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12129162401A | 05/08/2012 12:43 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-171-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-NBZ-SS

**LLI Sample # SW 6625157**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 13:25

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7113 SDG#: DX171-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.8 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-171-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-NBZ-SS

**LLI Sample # SW 6625157**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 13:25

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7113 SDG#: DX171-13

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0275 | J | 0.0194 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.150 | JB | 0.0338 | 5.47 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.142 | JBQ | 0.0229 | 5.47 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.542 | JB | 0.0242 | 5.47 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.420 | JB | 0.0248 | 5.47 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 9.63 | B | 0.0266 | 5.47 | 1 |
| 11031 | OCDD | 3268-87-9 | 59.4 | B | 0.0356 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.226 | JB | 0.0389 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.234 | JB | 0.0252 | 5.47 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.463 | JB | 0.0248 | 5.47 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.261 | JB | 0.0180 | 5.47 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.204 | JB | 0.0159 | 5.47 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.101 | JBQ | 0.0190 | 5.47 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.238 | JB | 0.0166 | 5.47 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 1.21 | JB | 0.0193 | 5.47 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.137 | JB | 0.0276 | 5.47 | 1 |
| 11031 | OCDF | 39001-02-0 | 2.26 | JB | 0.0238 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 83 | 25 - 164 |
| 13C12-12378-PeCDD | 84 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 82 | 28 - 130 |
| 13C12-123789-HxCDD | 85 | 28 - 130 |
| 13C12-1234678-HpCDD | 87 | 23 - 140 |
| 13C12-OCDD | 84 | 17 - 157 |
| 13C12-2378-TCDF | 80 | 24 - 169 |
| 13C12-12378-PeCDF | 88 | 24 - 185 |
| 13C12-23478-PeCDF | 81 | 21 - 178 |
| 13C12-123478-HxCDF | 78 | 26 - 152 |
| 13C12-123678-HxCDF | 83 | 26 - 123 |
| 13C12-234678-HxCDF | 83 | 28 - 136 |
| 13C12-123789-HxCDF | 79 | 29 - 147 |
| 13C12-1234678-HpCDF | 91 | 28 - 143 |
| 13C12-1234789-HpCDF | 75 | 26 - 138 |
| 13C12-OCDF | 72 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-171-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-171-NBZ-SS**

**LLI Sample # SW 6625157**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 13:25

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7113 SDG#: DX171-13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-171-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-NBZ-SS

**LLI Sample # SW 6625157**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 13:25

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7113 SDG#: DX171-13

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12123002 | 05/04/2012 19:31 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12123002 | 05/02/2012 12:55 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12129162401A | 05/08/2012 12:43 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-202-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-NBZ-SS

**LLI Sample # SW 6625158**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 10:10

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7114 SDG#: DX171-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.1 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-202-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-NBZ-SS

**LLI Sample # SW 6625158**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 10:10

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7114 SDG#: DX171-14

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0276 | J | 0.0167 | 1.05 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.148 | JB | 0.0260 | 5.23 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0842 | JBQ | 0.0205 | 5.23 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.159 | JBQ | 0.0215 | 5.23 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.148 | JB | 0.0201 | 5.23 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 2.32 | JB | 0.0179 | 5.23 | 1 |
| 11031 | OCDD | 3268-87-9 | 17.0 | B | 0.0269 | 10.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.0516 | JB | 0.0259 | 1.05 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.203 | JBQ | 0.0188 | 5.23 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.239 | JB | 0.0194 | 5.23 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.170 | JB | 0.0143 | 5.23 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.116 | JB | 0.0119 | 5.23 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0741 | JB | 0.0156 | 5.23 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.133 | JB | 0.0128 | 5.23 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.512 | JB | 0.0159 | 5.23 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0718 | JBQ | 0.0276 | 5.23 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.05 | JB | 0.0239 | 10.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 78 | 25 - 164 |
| 13C12-12378-PeCDD | 86 | 25 - 181 |
| 13C12-123478-HxCDD | 82 | 32 - 141 |
| 13C12-123678-HxCDD | 79 | 28 - 130 |
| 13C12-123789-HxCDD | 81 | 28 - 130 |
| 13C12-1234678-HpCDD | 81 | 23 - 140 |
| 13C12-OCDD | 75 | 17 - 157 |
| 13C12-2378-TCDF | 73 | 24 - 169 |
| 13C12-12378-PeCDF | 84 | 24 - 185 |
| 13C12-23478-PeCDF | 76 | 21 - 178 |
| 13C12-123478-HxCDF | 75 | 26 - 152 |
| 13C12-123678-HxCDF | 85 | 26 - 123 |
| 13C12-234678-HxCDF | 77 | 28 - 136 |
| 13C12-123789-HxCDF | 67 | 29 - 147 |
| 13C12-1234678-HpCDF | 94 | 28 - 143 |
| 13C12-1234789-HpCDF | 63 | 26 - 138 |
| 13C12-OCDF | 59 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** **SL-202-NBZ-SS-0.0-0.5 Soil**
**SSFL Area IV Collocated Soil Sampling**
**SL-202-NBZ-SS**

**LLI Sample # SW 6625158**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 10:10

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7114 SDG#: DX171-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-202-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-NBZ-SS

**LLI Sample # SW 6625158**
**LLI Group # 1303884**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/20/2012 10:10

Submitted: 04/21/2012 10:00
Reported: 05/09/2012 23:08

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7114 SDG#: DX171-14

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12123002 | 05/04/2012 20:28 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12123002 | 05/02/2012 12:55 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12129162401A | 05/08/2012 12:43 | William C Schwebel | 1 |

## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303884
Reported: 05/09/12 at 11:08 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12121162401A | Sample number(s): 6625149,6625152-6625155 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |
| Batch number: 12129162401A | Sample number(s): 6625150-6625151,6625156-6625158 | | | | | | | | |
| Moisture Content by 160.3 | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12123002 | Sample number(s): 6625149-6625158 | | | | | | | | |
| 2378-TCDD | 0.0170 U | 0.0170 | 1.00 | ng/kg | 104 | | 67-158 | | |
| 12378-PeCDD | 0.0390 J | 0.0212 | 5.00 | ng/kg | 104 | | 70-142 | | |
| 123478-HxCDD | 0.0143 J | 0.0125 | 5.00 | ng/kg | 102 | | 70-164 | | |
| 123678-HxCDD | 0.0262 J | 0.0125 | 5.00 | ng/kg | 98 | | 76-134 | | |
| 123789-HxCDD | 0.0368 J | 0.0129 | 5.00 | ng/kg | 106 | | 64-162 | | |
| 1234678-HpCDD | 0.267 J | 0.0108 | 5.00 | ng/kg | 103 | | 70-140 | | |
| OCDD | 0.487 J | 0.0185 | 10.0 | ng/kg | 97 | | 78-144 | | |
| 2378-TCDF | 0.0207 J | 0.0174 | 1.00 | ng/kg | 103 | | 75-158 | | |
| 12378-PeCDF | 0.0408 J | 0.0153 | 5.00 | ng/kg | 104 | | 80-134 | | |
| 23478-PeCDF | 0.0666 J | 0.0145 | 5.00 | ng/kg | 97 | | 68-160 | | |
| 123478-HxCDF | 0.0364 J | 0.00850 | 5.00 | ng/kg | 100 | | 72-134 | | |
| 123678-HxCDF | 0.0261 J | 0.00720 | 5.00 | ng/kg | 101 | | 84-130 | | |
| 123789-HxCDF | 0.0187 J | 0.00990 | 5.00 | ng/kg | 103 | | 78-130 | | |
| 234678-HxCDF | 0.0255 J | 0.00780 | 5.00 | ng/kg | 98 | | 70-156 | | |
| 1234678-HpCDF | 0.0583 J | 0.00620 | 5.00 | ng/kg | 95 | | 82-122 | | |
| 1234789-HpCDF | 0.0274 J | 0.0109 | 5.00 | ng/kg | 101 | | 78-138 | | |
| OCDF | 0.114 J | 0.0202 | 10.0 | ng/kg | 98 | | 63-170 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12121162401A | Sample number(s): 6625149,6625152-6625155 BKG: P625134 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 16.4 | 15.6 | 5 | 20 |
| Batch number: 12129162401A | Sample number(s): 6625150-6625151,6625156-6625158 BKG: P624313 | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 11.2 | 10.9 | 3 | 20 |
| Batch number: 12123002 | Sample number(s): 6625149-6625158 UNSPK: P624313 | | | | | | | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303884
Reported: 05/09/12 at 11:08 PM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| 2378-TCDD | 105 | 103 | 67-158 | 3 | 25 | | | | |
| 12378-PeCDD | 104 | 106 | 70-142 | 1 | 25 | | | | |
| 123478-HxCDD | 102 | 103 | 70-164 | 0 | 25 | | | | |
| 123678-HxCDD | 99 | 98 | 76-134 | 2 | 25 | | | | |
| 123789-HxCDD | 105 | 106 | 64-162 | 0 | 25 | | | | |
| 1234678-HpCDD | 107 | 107 | 70-140 | 1 | 25 | | | | |
| OCDD | 107 | 100 | 78-144 | 7 | 25 | | | | |
| 2378-TCDF | 101 | 103 | 75-158 | 1 | 25 | | | | |
| 12378-PeCDF | 104 | 106 | 80-134 | 0 | 25 | | | | |
| 23478-PeCDF | 99 | 98 | 68-160 | 2 | 25 | | | | |
| 123478-HxCDF | 103 | 104 | 72-134 | 0 | 25 | | | | |
| 123678-HxCDF | 104 | 103 | 84-130 | 2 | 25 | | | | |
| 123789-HxCDF | 102 | 103 | 78-130 | 1 | 25 | | | | |
| 234678-HxCDF | 101 | 101 | 70-156 | 1 | 25 | | | | |
| 1234678-HpCDF | 97 | 98 | 82-122 | 0 | 25 | | | | |
| 1234789-HpCDF | 102 | 102 | 78-138 | 0 | 25 | | | | |
| OCDF | 101 | 101 | 63-170 | 1 | 25 | | | | |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12123002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6625149 | 83 | 83 | 85 | 87 | 86 | 83 |
| 6625150 | 78 | 83 | 80 | 83 | 80 | 73 |
| 6625151 | 80 | 82 | 82 | 86 | 84 | 77 |
| 6625152 | 84 | 80 | 84 | 88 | 84 | 82 |
| 6625153 | 87 | 89 | 85 | 87 | 85 | 83 |
| 6625154 | 80 | 91 | 81 | 84 | 80 | 74 |
| 6625155 | 78 | 84 | 81 | 85 | 80 | 73 |
| 6625156 | 92 | 93 | 84 | 91 | 92 | 86 |
| 6625157 | 83 | 81 | 78 | 83 | 83 | 79 |
| 6625158 | 78 | 76 | 75 | 85 | 77 | 67 |
| Blank | 69 | 77 | 76 | 85 | 79 | 70 |
| MS | 89 | 87 | 86 | 90 | 84 | 81 |
| MSD | 90 | 90 | 95 | 102 | 94 | 85 |
| OPR | 70 | 70 | 75 | 83 | 76 | 72 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6625149 | 85 | 79 | 76 | 85 | 84 | 83 |
| 6625150 | 86 | 71 | 61 | 81 | 79 | 78 |
| 6625151 | 86 | 73 | 72 | 80 | 83 | 80 |
| 6625152 | 92 | 78 | 79 | 83 | 84 | 83 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1303884
Reported: 05/09/12 at 11:08 PM

## Surrogate Quality Control

| | | | | | | |
|---|---|---|---|---|---|---|
| 6625153 | 91 | 81 | 75 | 87 | 83 | 82 |
| 6625154 | 96 | 75 | 69 | 90 | 83 | 82 |
| 6625155 | 91 | 74 | 69 | 85 | 81 | 78 |
| 6625156 | 101 | 82 | 75 | 99 | 89 | 89 |
| 6625157 | 91 | 75 | 72 | 84 | 83 | 82 |
| 6625158 | 94 | 63 | 59 | 86 | 82 | 79 |
| Blank | 103 | 69 | 62 | 80 | 82 | 83 |
| MS | 93 | 74 | 75 | 91 | 83 | 82 |
| MSD | 105 | 79 | 74 | 95 | 94 | 92 |
| OPR | 99 | 67 | 66 | 71 | 79 | 78 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6625149 | 83 | 83 | 80 | 85 | 85 |
| 6625150 | 79 | 76 | 68 | 79 | 80 |
| 6625151 | 81 | 78 | 79 | 81 | 87 |
| 6625152 | 84 | 85 | 88 | 80 | 86 |
| 6625153 | 84 | 88 | 79 | 84 | 87 |
| 6625154 | 82 | 85 | 79 | 80 | 86 |
| 6625155 | 78 | 84 | 77 | 79 | 85 |
| 6625156 | 93 | 95 | 89 | 88 | 98 |
| 6625157 | 85 | 87 | 84 | 80 | 88 |
| 6625158 | 81 | 81 | 75 | 73 | 84 |
| Blank | 83 | 83 | 78 | 65 | 79 |
| MS | 83 | 85 | 86 | 83 | 91 |
| MSD | 95 | 92 | 86 | 89 | 96 |
| OPR | 79 | 81 | 80 | 64 | 75 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1303884 Sample#6625149-58

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSIS | SECONDARY ANALYSIS | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-017-NBZ-SS-0.0-0.5 | 4.19.12 | 1009 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-150-NBZ-SS-0.0-0.5 | 4.19.12 | 1535 | SOIL | NONE | 1- 4 oz Jar | X | | | | |
| SL-178-NBZ-SS-0.0-0.5 | 4.19.12 | 1500 | SOIL | NONE | 1- 4 oz Jar | X | | | | |
| SL-016-NBZ-SS-0.0-0.5 | 4.20.12 | 1210 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-018-NBZ-SS-0.0-0.5 | 4.20.12 | 1059 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-080-NBZ-SS-0.0-0.5 | 4.20.12 | 0950 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-089-NBZ-SS-0.0-0.5 | 4.20.12 | 1206 | SOIL | NONE | 1-16 oz Jar | X | X | X | X | |
| SL-170-NBZ-SS-0.0-0.5 | 4.20.12 | 1055 | SOIL | NONE | 1- 4 oz Jar | X | | | | |
| SL-171-NBZ-SS-0.0-0.5 | 4.20.12 | 1325 | SOIL | NONE | 1- 4 oz Jar | X | | | | |
| SL-202-NBZ-SS-0.0-0.5 | 4.20.12 | 1010 | SOIL | NONE | 1- 4 oz Jar | X | | | | |
| Relinquished by: (*Signature*) | Date/Time<br>4/20/2012 1630 | | Received for Laboratory by: (*Signature*) | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time<br>4/21/12 1000 | | Airbill No.(s) | | | | | | | |

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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

May 09, 2012

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 04/24/2012
Group Number: 1304247
SDG: DX171
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| SL-199-NBZ-SS-0.0-0.5 Soil | 6626912 |
| SL-200-NBZ-SS-0.0-0.5 Soil | 6626913 |
| SL-201-NBZ-SS-0.0-0.5 Soil | 6626914 |
| EB-NBZ-SS-042312 Water | 6626915 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CDM Federal Services Program | Attn: Todd Burgesser |
| ELECTRONIC COPY TO | Data Package Group | |

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Respectfully Submitted,

Nicole L. Maljovec
Senior Specialist Group Leader

(717) 556-7259

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# Analysis Report



**Sample Description:** SL-199-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-NBZ-SS

**LLI Sample # SW 6626912**
**LLI Group # 1304247**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/23/2012 09:42

Submitted: 04/24/2012 09:20
Reported: 05/09/2012 23:09

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

DL199 SDG#: DX171-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.1 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-199-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-NBZ-SS

**LLI Sample # SW 6626912**
**LLI Group # 1304247**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/23/2012 09:42

Submitted: 04/24/2012 09:20
Reported: 05/09/2012 23:09

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

DL199 SDG#: DX171-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0617 J | 0.0147 | 1.05 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.194 JBQ | 0.0248 | 5.27 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0782 JBQ | 0.0183 | 5.27 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.231 JBQ | 0.0184 | 5.27 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.311 JB | 0.0183 | 5.27 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.48 JB | 0.0142 | 5.27 | 1 |
| 11031 | OCDD | 3268-87-9 | 7.82 JB | 0.0211 | 10.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.268 JB | 0.0426 | 1.05 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.350 JB | 0.0229 | 5.27 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.838 JB | 0.0228 | 5.27 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.283 JB | 0.0144 | 5.27 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.172 JB | 0.0128 | 5.27 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0839 JB | 0.0161 | 5.27 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.197 JBQ | 0.0132 | 5.27 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.422 JBQ | 0.0112 | 5.27 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0890 JBQ | 0.0168 | 5.27 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.778 JB | 0.0192 | 10.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 87 | 25 - 164 |
| 13C12-12378-PeCDD | 91 | 25 - 181 |
| 13C12-123478-HxCDD | 85 | 32 - 141 |
| 13C12-123678-HxCDD | 83 | 28 - 130 |
| 13C12-123789-HxCDD | 86 | 28 - 130 |
| 13C12-1234678-HpCDD | 90 | 23 - 140 |
| 13C12-OCDD | 84 | 17 - 157 |
| 13C12-2378-TCDF | 80 | 24 - 169 |
| 13C12-12378-PeCDF | 92 | 24 - 185 |
| 13C12-23478-PeCDF | 83 | 21 - 178 |
| 13C12-123478-HxCDF | 79 | 26 - 152 |
| 13C12-123678-HxCDF | 88 | 26 - 123 |
| 13C12-234678-HxCDF | 84 | 28 - 136 |
| 13C12-123789-HxCDF | 79 | 29 - 147 |
| 13C12-1234678-HpCDF | 100 | 28 - 143 |
| 13C12-1234789-HpCDF | 74 | 26 - 138 |
| 13C12-OCDF | 69 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-199-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-NBZ-SS

**LLI Sample # SW 6626912**
**LLI Group # 1304247**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/23/2012 09:42

Submitted: 04/24/2012 09:20
Reported: 05/09/2012 23:09

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

DL199 SDG#: DX171-15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-199-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-NBZ-SS

**LLI Sample # SW 6626912**
**LLI Group # 1304247**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/23/2012 09:42

Submitted: 04/24/2012 09:20
Reported: 05/09/2012 23:09

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

DL199 SDG#: DX171-15

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12123002 | 05/04/2012 21:24 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12123002 | 05/02/2012 12:55 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12129162401A | 05/08/2012 12:43 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-200-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-NBZ-SS

**LLI Sample # SW 6626913**
**LLI Group # 1304247**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/23/2012 10:39

Submitted: 04/24/2012 09:20
Reported: 05/09/2012 23:09

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

DL200 SDG#: DX171-16

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 8.8 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-200-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-NBZ-SS

**LLI Sample # SW 6626913**
**LLI Group # 1304247**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/23/2012 10:39

Submitted: 04/24/2012 09:20
Reported: 05/09/2012 23:09

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

DL200 SDG#: DX171-16

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0360 | J | 0.0168 | 1.09 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.149 | JB | 0.0250 | 5.44 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0848 | JB | 0.0181 | 5.44 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.320 | JB | 0.0181 | 5.44 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.345 | JB | 0.0185 | 5.44 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.88 | JB | 0.0140 | 5.44 | 1 |
| 11031 | OCDD | 3268-87-9 | 12.9 | B | 0.0254 | 10.9 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.101 | JB | 0.0257 | 1.09 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.180 | JB | 0.0205 | 5.44 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.458 | JB | 0.0193 | 5.44 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.174 | JB | 0.0151 | 5.44 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.109 | JB | 0.0126 | 5.44 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0915 | JBQ | 0.0140 | 5.44 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.128 | JBQ | 0.0115 | 5.44 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.484 | JB | 0.0123 | 5.44 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0481 | JBQ | 0.0161 | 5.44 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.833 | JB | 0.0203 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 80 | 25 - 164 |
| 13C12-12378-PeCDD | 92 | 25 - 181 |
| 13C12-123478-HxCDD | 83 | 32 - 141 |
| 13C12-123678-HxCDD | 82 | 28 - 130 |
| 13C12-123789-HxCDD | 84 | 28 - 130 |
| 13C12-1234678-HpCDD | 84 | 23 - 140 |
| 13C12-OCDD | 78 | 17 - 157 |
| 13C12-2378-TCDF | 82 | 24 - 169 |
| 13C12-12378-PeCDF | 89 | 24 - 185 |
| 13C12-23478-PeCDF | 85 | 21 - 178 |
| 13C12-123478-HxCDF | 66 | 26 - 152 |
| 13C12-123678-HxCDF | 76 | 26 - 123 |
| 13C12-234678-HxCDF | 84 | 28 - 136 |
| 13C12-123789-HxCDF | 77 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 73 | 26 - 138 |
| 13C12-OCDF | 67 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-200-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-NBZ-SS

**LLI Sample # SW 6626913**
**LLI Group # 1304247**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/23/2012 10:39

Submitted: 04/24/2012 09:20
Reported: 05/09/2012 23:09

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

DL200 SDG#: DX171-16

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-200-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-NBZ-SS

**LLI Sample # SW 6626913**
**LLI Group # 1304247**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/23/2012 10:39

Submitted: 04/24/2012 09:20
Reported: 05/09/2012 23:09

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

DL200 SDG#: DX171-16

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12123002 | 05/04/2012 22:21 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12123002 | 05/02/2012 12:55 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12129162401A | 05/08/2012 12:43 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** SL-201-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-NBZ-SS

**LLI Sample # SW 6626914**
**LLI Group # 1304247**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/23/2012 11:10

Submitted: 04/24/2012 09:20
Reported: 05/09/2012 23:09

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

DL201 SDG#: DX171-17

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 14.8 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-201-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-NBZ-SS

**LLI Sample # SW 6626914**
**LLI Group # 1304247**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/23/2012 11:10

Submitted: 04/24/2012 09:20
Reported: 05/09/2012 23:09

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

DL201 SDG#: DX171-17

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.154 | JQ | 0.0290 | 1.15 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.849 | JB | 0.0569 | 5.73 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 1.69 | JB | 0.0444 | 5.73 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 9.29 | B | 0.0454 | 5.73 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 3.00 | JB | 0.0430 | 5.73 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 134 | B | 0.132 | 5.73 | 1 |
| 11031 | OCDD | 3268-87-9 | 2,780 | B | 0.165 | 11.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.382 | JB | 0.0905 | 1.15 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 7.99 | B | 0.0466 | 5.73 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 1.14 | JB | 0.0482 | 5.73 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 3.18 | JB | 0.0366 | 5.73 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 1.13 | JB | 0.0319 | 5.73 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.722 | JB | 0.0404 | 5.73 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 1.14 | JB | 0.0331 | 5.73 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 19.0 | B | 0.0408 | 5.73 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 1.10 | JB | 0.0665 | 5.73 | 1 |
| 11031 | OCDF | 39001-02-0 | 60.7 | B | 0.0413 | 11.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 85 | 25 - 164 |
| 13C12-12378-PeCDD | 82 | 25 - 181 |
| 13C12-123478-HxCDD | 87 | 32 - 141 |
| 13C12-123678-HxCDD | 85 | 28 - 130 |
| 13C12-123789-HxCDD | 86 | 28 - 130 |
| 13C12-1234678-HpCDD | 82 | 23 - 140 |
| 13C12-OCDD | 105 | 17 - 157 |
| 13C12-2378-TCDF | 82 | 24 - 169 |
| 13C12-12378-PeCDF | 90 | 24 - 185 |
| 13C12-23478-PeCDF | 81 | 21 - 178 |
| 13C12-123478-HxCDF | 82 | 26 - 152 |
| 13C12-123678-HxCDF | 91 | 26 - 123 |
| 13C12-234678-HxCDF | 83 | 28 - 136 |
| 13C12-123789-HxCDF | 76 | 29 - 147 |
| 13C12-1234678-HpCDF | 96 | 28 - 143 |
| 13C12-1234789-HpCDF | 66 | 26 - 138 |
| 13C12-OCDF | 83 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-201-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-NBZ-SS

**LLI Sample # SW 6626914**
**LLI Group # 1304247**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/23/2012 11:10

Submitted: 04/24/2012 09:20
Reported: 05/09/2012 23:09

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

DL201 SDG#: DX171-17

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** SL-201-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-NBZ-SS

**LLI Sample # SW 6626914**
**LLI Group # 1304247**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/23/2012 11:10

Submitted: 04/24/2012 09:20
Reported: 05/09/2012 23:09

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

DL201 SDG#: DX171-17

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12123002 | 05/05/2012 02:21 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12123002 | 05/02/2012 12:55 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12129162401A | 05/08/2012 12:43 | William C Schwebel | 1 |

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# Analysis Report



**Sample Description:** EB-NBZ-SS-042312 Water
SSFL Area IV Collocated Soil Sampling
EB-NBZ-SS

**LLI Sample # WW 6626915**
**LLI Group # 1304247**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/23/2012 15:30

Submitted: 04/24/2012 09:20
Reported: 05/09/2012 23:09

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

DL-EB SDG#: DX171-18EB*

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | pg/l | | pg/l | pg/l | |
| 10915 | 2378-TCDD | 1746-01-6 | 0.214 | U | 0.214 | 2.07 | 1 |
| 10915 | 12378-PeCDD | 40321-76-4 | 0.246 | JB | 0.223 | 10.3 | 1 |
| 10915 | 123478-HxCDD | 39227-28-6 | 0.163 | U | 0.163 | 10.3 | 1 |
| 10915 | 123678-HxCDD | 57653-85-7 | 0.411 | JBQ | 0.172 | 10.3 | 1 |
| 10915 | 123789-HxCDD | 19408-74-3 | 0.369 | JBQ | 0.161 | 10.3 | 1 |
| 10915 | 1234678-HpCDD | 35822-46-9 | 3.21 | JB | 0.233 | 10.3 | 1 |
| 10915 | OCDD | 3268-87-9 | 5.58 | JB | 0.265 | 20.7 | 1 |
| 10915 | 2378-TCDF | 51207-31-9 | 0.158 | U | 0.158 | 2.07 | 1 |
| 10915 | 12378-PeCDF | 57117-41-6 | 0.278 | JB | 0.151 | 10.3 | 1 |
| 10915 | 23478-PeCDF | 57117-31-4 | 0.605 | JBQ | 0.136 | 10.3 | 1 |
| 10915 | 123478-HxCDF | 70648-26-9 | 0.272 | JB | 0.108 | 10.3 | 1 |
| 10915 | 123678-HxCDF | 57117-44-9 | 0.245 | JB | 0.106 | 10.3 | 1 |
| 10915 | 123789-HxCDF | 72918-21-9 | 0.189 | JB | 0.109 | 10.3 | 1 |
| 10915 | 234678-HxCDF | 60851-34-5 | 0.248 | JBQ | 0.0934 | 10.3 | 1 |
| 10915 | 1234678-HpCDF | 67562-39-4 | 0.704 | JB | 0.107 | 10.3 | 1 |
| 10915 | 1234789-HpCDF | 55673-89-7 | 0.244 | JB | 0.123 | 10.3 | 1 |
| 10915 | OCDF | 39001-02-0 | 0.708 | JB | 0.187 | 20.7 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 77 | 25 - 164 |
| 13C12-12378-PeCDD | 66 | 25 - 181 |
| 13C12-123478-HxCDD | 72 | 32 - 141 |
| 13C12-123678-HxCDD | 71 | 28 - 130 |
| 13C12-123789-HxCDD | 71 | 28 - 130 |
| 13C12-1234678-HpCDD | 67 | 23 - 140 |
| 13C12-OCDD | 61 | 17 - 157 |
| 13C12-2378-TCDF | 68 | 24 - 169 |
| 13C12-12378-PeCDF | 64 | 24 - 185 |
| 13C12-23478-PeCDF | 67 | 21 - 178 |
| 13C12-123478-HxCDF | 68 | 26 - 152 |
| 13C12-123678-HxCDF | 67 | 26 - 123 |
| 13C12-234678-HxCDF | 73 | 28 - 136 |
| 13C12-123789-HxCDF | 71 | 29 - 147 |
| 13C12-1234678-HpCDF | 71 | 28 - 143 |
| 13C12-1234789-HpCDF | 65 | 26 - 138 |
| 13C12-OCDF | 60 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

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# Analysis Report



**Sample Description:** **EB-NBZ-SS-042312 Water**
**SSFL Area IV Collocated Soil Sampling**
**EB-NBZ-SS**

**LLI Sample # WW 6626915**
**LLI Group # 1304247**
**Account # 13013**

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/23/2012 15:30

Submitted: 04/24/2012 09:20
Reported: 05/09/2012 23:09

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

DL-EB SDG#: DX171-18EB*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received EDL* | As Received MRL | Dilution Factor |
|---|---|---|---|---|---|---|

*S* *Saturation of detection signal*

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 10915 | 10b Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12122001 | 05/03/2012 22:13 | Joseph D Anderson | 1 |
| 10914 | Dioxins/Furans in Water - SepF | EPA 1613B | 1 | 12122001 | 05/01/2012 09:50 | Ginelle L Haines | 1 |

*=This limit was used in the evaluation of the final result

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# Analysis Report



## Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1304247
Reported: 05/09/12 at 11:09 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12129162401A | Sample number(s): 6626912-6626914 | | | | | | | | | |
| Moisture Content by 160.3 | | | | | | 100 | | 80-120 | | |

| Analysis Name | Blank Result | | Blank EDL** | Blank MRL | Report Units | OPR %REC | OPRD %REC | OPR/OPRD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12122001 | Sample number(s): 6626915 | | | | | | | | | |
| 2378-TCDD | 0.281 | U | 0.281 | 2.00 | pg/l | 98 | | 67-158 | | |
| 12378-PeCDD | 0.441 | J | 0.251 | 10.0 | pg/l | 99 | | 70-142 | | |
| 123478-HxCDD | 0.262 | J | 0.207 | 10.0 | pg/l | 96 | | 70-164 | | |
| 123678-HxCDD | 0.575 | J | 0.219 | 10.0 | pg/l | 95 | | 76-134 | | |
| 123789-HxCDD | 0.493 | J | 0.204 | 10.0 | pg/l | 103 | | 64-162 | | |
| 1234678-HpCDD | 3.60 | J | 0.262 | 10.0 | pg/l | 100 | | 70-140 | | |
| OCDD | 5.60 | J | 0.329 | 20.0 | pg/l | 96 | | 78-144 | | |
| 2378-TCDF | 0.318 | J | 0.217 | 2.00 | pg/l | 93 | | 75-158 | | |
| 12378-PeCDF | 0.533 | J | 0.192 | 10.0 | pg/l | 101 | | 80-134 | | |
| 23478-PeCDF | 0.503 | J | 0.170 | 10.0 | pg/l | 93 | | 68-160 | | |
| 123478-HxCDF | 0.450 | J | 0.142 | 10.0 | pg/l | 102 | | 72-134 | | |
| 123678-HxCDF | 0.475 | J | 0.146 | 10.0 | pg/l | 102 | | 84-130 | | |
| 123789-HxCDF | 0.174 | J | 0.143 | 10.0 | pg/l | 101 | | 78-130 | | |
| 234678-HxCDF | 0.399 | J | 0.131 | 10.0 | pg/l | 97 | | 70-156 | | |
| 1234678-HpCDF | 0.669 | J | 0.136 | 10.0 | pg/l | 92 | | 82-122 | | |
| 1234789-HpCDF | 0.452 | J | 0.139 | 10.0 | pg/l | 100 | | 78-138 | | |
| OCDF | 1.38 | J | 0.215 | 20.0 | pg/l | 98 | | 63-170 | | |
| Batch number: 12123002 | Sample number(s): 6626912-6626914 | | | | | | | | | |
| 2378-TCDD | 0.0170 | U | 0.0170 | 1.00 | ng/kg | 104 | | 67-158 | | |
| 12378-PeCDD | 0.0390 | J | 0.0212 | 5.00 | ng/kg | 104 | | 70-142 | | |
| 123478-HxCDD | 0.0143 | J | 0.0125 | 5.00 | ng/kg | 102 | | 70-164 | | |
| 123678-HxCDD | 0.0262 | J | 0.0125 | 5.00 | ng/kg | 98 | | 76-134 | | |
| 123789-HxCDD | 0.0368 | J | 0.0129 | 5.00 | ng/kg | 106 | | 64-162 | | |
| 1234678-HpCDD | 0.267 | J | 0.0108 | 5.00 | ng/kg | 103 | | 70-140 | | |
| OCDD | 0.487 | J | 0.0185 | 10.0 | ng/kg | 97 | | 78-144 | | |
| 2378-TCDF | 0.0207 | J | 0.0174 | 1.00 | ng/kg | 103 | | 75-158 | | |
| 12378-PeCDF | 0.0408 | J | 0.0153 | 5.00 | ng/kg | 104 | | 80-134 | | |
| 23478-PeCDF | 0.0666 | J | 0.0145 | 5.00 | ng/kg | 97 | | 68-160 | | |
| 123478-HxCDF | 0.0364 | J | 0.00850 | 5.00 | ng/kg | 100 | | 72-134 | | |
| 123678-HxCDF | 0.0261 | J | 0.00720 | 5.00 | ng/kg | 101 | | 84-130 | | |
| 123789-HxCDF | 0.0187 | J | 0.00990 | 5.00 | ng/kg | 103 | | 78-130 | | |
| 234678-HxCDF | 0.0255 | J | 0.00780 | 5.00 | ng/kg | 98 | | 70-156 | | |
| 1234678-HpCDF | 0.0583 | J | 0.00620 | 5.00 | ng/kg | 95 | | 82-122 | | |
| 1234789-HpCDF | 0.0274 | J | 0.0109 | 5.00 | ng/kg | 101 | | 78-138 | | |
| OCDF | 0.114 | J | 0.0202 | 10.0 | ng/kg | 98 | | 63-170 | | |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1304247
Reported: 05/09/12 at 11:09 PM

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 12129162401A | Sample number(s): 6626912-6626914 | | | | | BKG: P624313 | | | |
| Moisture Content by 160.3 | | | | | | 11.2 | 10.9 | 3 | 20 |
| Batch number: 12123002 | Sample number(s): 6626912-6626914 UNSPK: P624313 | | | | | | | | |
| 2378-TCDD | 105 | 103 | 67-158 | 3 | 25 | | | | |
| 12378-PeCDD | 104 | 106 | 70-142 | 1 | 25 | | | | |
| 123478-HxCDD | 102 | 103 | 70-164 | 0 | 25 | | | | |
| 123678-HxCDD | 99 | 98 | 76-134 | 2 | 25 | | | | |
| 123789-HxCDD | 105 | 106 | 64-162 | 0 | 25 | | | | |
| 1234678-HpCDD | 107 | 107 | 70-140 | 1 | 25 | | | | |
| OCDD | 107 | 100 | 78-144 | 7 | 25 | | | | |
| 2378-TCDF | 101 | 103 | 75-158 | 1 | 25 | | | | |
| 12378-PeCDF | 104 | 106 | 80-134 | 0 | 25 | | | | |
| 23478-PeCDF | 99 | 98 | 68-160 | 2 | 25 | | | | |
| 123478-HxCDF | 103 | 104 | 72-134 | 0 | 25 | | | | |
| 123678-HxCDF | 104 | 103 | 84-130 | 2 | 25 | | | | |
| 123789-HxCDF | 102 | 103 | 78-130 | 1 | 25 | | | | |
| 234678-HxCDF | 101 | 101 | 70-156 | 1 | 25 | | | | |
| 1234678-HpCDF | 97 | 98 | 82-122 | 0 | 25 | | | | |
| 1234789-HpCDF | 102 | 102 | 78-138 | 0 | 25 | | | | |
| OCDF | 101 | 101 | 63-170 | 1 | 25 | | | | |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 12122001

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6626915 | 77 | 67 | 68 | 67 | 73 | 71 |
| Blank | 86 | 82 | 74 | 72 | 78 | 80 |
| OPR | 76 | 71 | 77 | 75 | 78 | 80 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6626915 | 71 | 65 | 60 | 66 | 72 | 71 |
| Blank | 70 | 74 | 70 | 83 | 75 | 75 |
| OPR | 80 | 77 | 78 | 74 | 81 | 79 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1304247
Reported: 05/09/12 at 11:09 PM

## Surrogate Quality Control

| | | | | | |
|---|---|---|---|---|---|
| 6626915 | 71 | 67 | 61 | 68 | 64 |
| Blank | 75 | 74 | 72 | 77 | 78 |
| OPR | 79 | 82 | 81 | 71 | 70 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 12123002

| | 13C12-2378-TCDD | 13C12-23478-PeCDF | 13C12-123478-HxCDF | 13C12-123678-HxCDF | 13C12-234678-HxCDF | 13C12-123789-HxCDF |
|---|---|---|---|---|---|---|
| 6626912 | 87 | 83 | 79 | 88 | 84 | 79 |
| 6626913 | 80 | 85 | 66 | 76 | 84 | 77 |
| 6626914 | 85 | 81 | 82 | 91 | 83 | 76 |
| Blank | 69 | 77 | 76 | 85 | 79 | 70 |
| MS | 89 | 87 | 86 | 90 | 84 | 81 |
| MSD | 90 | 90 | 95 | 102 | 94 | 85 |
| OPR | 70 | 70 | 75 | 83 | 76 | 72 |
| Limits: | 25-164 | 21-178 | 26-152 | 26-123 | 28-136 | 29-147 |

| | 13C12-1234678-HpCDF | 13C12-1234789-HpCDF | 13C12-OCDF | 13C12-12378-PeCDD | 13C12-123478-HxCDD | 13C12-123678-HxCDD |
|---|---|---|---|---|---|---|
| 6626912 | 100 | 74 | 69 | 91 | 85 | 83 |
| 6626913 | 86 | 73 | 67 | 92 | 83 | 82 |
| 6626914 | 96 | 66 | 83 | 82 | 87 | 85 |
| Blank | 103 | 69 | 62 | 80 | 82 | 83 |
| MS | 93 | 74 | 75 | 91 | 83 | 82 |
| MSD | 105 | 79 | 74 | 95 | 94 | 92 |
| OPR | 99 | 67 | 66 | 71 | 79 | 78 |
| Limits: | 28-143 | 26-138 | 17-157 | 25-181 | 32-141 | 28-130 |

| | 13C12-123789-HxCDD | 13C12-1234678-HpCDD | 13C12-OCDD | 13C12-2378-TCDF | 13C12-12378-PeCDF |
|---|---|---|---|---|---|
| 6626912 | 86 | 90 | 84 | 80 | 92 |
| 6626913 | 84 | 84 | 78 | 82 | 89 |
| 6626914 | 86 | 82 | 105 | 82 | 90 |
| Blank | 83 | 83 | 78 | 65 | 79 |
| MS | 83 | 85 | 86 | 83 | 91 |
| MSD | 95 | 92 | 86 | 89 | 96 |
| OPR | 79 | 81 | 80 | 64 | 75 |
| Limits: | 28-130 | 23-140 | 17-157 | 24-169 | 24-185 |

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1304247 6626912-15

# CHAIN OF CUSTODY RECORD

| CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING | | | | | PRIMARY ANALYSIS | SECONDARY ANALYSIS | | | Other Instructions and Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| NOTES:<br>*Primary Analyses as indicated on sample labels<br>**Secondary Analyses as indicated on sample labels<br>$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected<br>Also report Tetralin under EPA Method 8270C. | | | | | | *Dioxin/Furan EPA 1613B | **Formaldehyde EPA 8315A | **n-NDMA EPA 1625C | **Terphenyls EPA 8015B | |
| Samplers Signatures: | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | MATRIX | Preservative | Type & No. of Containers | | | | | |
| SL-199-NBZ-SS-0.0-0.5 | 4.23.12 | 0942 | SOIL | NONE | 1- 4 oz Jar | X | | | | |
| SL-200-NBZ-SS-0.0-0.5 | 4.23.12 | 1039 | SOIL | NONE | 1- 4 oz Jar | X | | | | |
| SL-201-NBZ-SS-0.0-0.5 | 4.23.12 | 1110 | SOIL | NONE | 1- 4 oz Jar | X | | | | |
| EB-NBZ-SS-042312 | 4.23.12 | 1530 | SOIL | NONE | 4- 1 L Ambers | X | | X | X | |
| EB-NBZ-SS-042312 | 4.23.12 | 1530 | SOIL | NONE | 1- 250 mL Amber | | X | | | |
| Relinquished by: (*Signature*) | Date/Time<br>4/23/2012 1630 | | Received for Laboratory by: (*Signature*)<br>LI 4/24/12 0920 | | | | | | | Laboratory:<br>Lancaster Laboratories, Inc. |
| Received by: (*Signature*) | Date/Time | | Airbill No.(s)<br>7934 8589 1930 | | | | | | | |

eurofins | Lancaster Laboratories

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| **Organic Qualifiers** | | **Inorganic Qualifiers** | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# SAMPLE DELIVERY GROUP

# 12C096

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 13:00 |
| Sample ID: SL-002-NBZ-SB-4.0-5.0 | Date Analyzed: 03/15/12 19:29 |
| Lab Samp ID: C096-01 | Dilution Factor: 1 |
| Lab File ID: RCJ182 | Matrix : SOIL |
| Ext Btch ID: SVC018S | % Moisture : 7.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 450 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 484 | 1081 | 44.7 | 35-130 |
| 2-FLUOROBIPHENYL | 159 | 360.3 | 44.1* | 45-130 |
| 2-FLUOROPHENOL | 507 | 1081 | 46.9 | 25-130 |
| NITROBENZENE-D5 | 168 | 360.3 | 46.7 | 40-130 |
| PHENOL-D5 | 510 | 1081 | 47.1 | 25-120 |
| TERPHENYL-D14 | 218 | 360.3 | 60.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 13:00 |
| Sample ID: SL-002-NBZ-SB-7.5-8.5 | Date Analyzed: 03/15/12 19:48 |
| Lab Samp ID: C096-03 | Dilution Factor: 1 |
| Lab File ID: RCJ183 | Matrix : SOIL |
| Ext Btch ID: SVC018S | % Moisture : 7.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 450 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 707 | 1081 | 65.4 | 35-130 |
| 2-FLUOROBIPHENYL | 235 | 360.3 | 65.1 | 45-130 |
| 2-FLUOROPHENOL | 574 | 1081 | 53.1 | 25-130 |
| NITROBENZENE-D5 | 213 | 360.3 | 59.0 | 40-130 |
| PHENOL-D5 | 651 | 1081 | 60.2 | 25-120 |
| TERPHENYL-D14 | 318 | 360.3 | 88.4 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 13:00 |
| Sample ID: SL-003-NBZ-SB-4.0-5.0 | Date Analyzed: 03/15/12 20:07 |
| Lab Samp ID: C096-05 | Dilution Factor: 1 |
| Lab File ID: RCJ184 | Matrix : SOIL |
| Ext Btch ID: SVC018S | % Moisture : 5.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 89 |
| 1,2-DICHLOROBENZENE | ND | 180 | 89 |
| 1,3-DICHLOROBENZENE | ND | 180 | 89 |
| 1,4-DICHLOROBENZENE | ND | 180 | 89 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 89 |
| 2,4-DINITROPHENOL | ND | 350 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 89 |
| 2,6-DINITROTOLUENE | ND | 180 | 89 |
| 2-CHLORONAPHTHALENE | ND | 180 | 89 |
| 2-CHLOROPHENOL | ND | 180 | 89 |
| 2-METHYLNAPHTHALENE | ND | 180 | 89 |
| 2-METHYLPHENOL | ND | 180 | 89 |
| 2-NITROANILINE | ND | 180 | 89 |
| 2-NITROPHENOL | ND | 180 | 89 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 89 |
| 3-NITROANILINE | ND | 180 | 89 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 89 |
| 4-CHLOROANILINE | ND | 180 | 89 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-METHYLPHENOL (1) | ND | 180 | 89 |
| 4-NITROANILINE | ND | 180 | 89 |
| 4-NITROPHENOL | ND | 350 | 180 |
| ACENAPHTHENE | ND | 180 | 89 |
| ACENAPHTHYLENE | ND | 180 | 89 |
| ANTHRACENE | ND | 180 | 89 |
| BENZO(A)ANTHRACENE | ND | 180 | 89 |
| BENZO(A)PYRENE | ND | 180 | 89 |
| BENZO(B)FLUORANTHENE | ND | 180 | 89 |
| BENZO(K)FLUORANTHENE | ND | 180 | 89 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 89 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 89 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 89 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 89 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 89 |
| CHRYSENE | ND | 180 | 89 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 89 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 89 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 89 |
| DIBENZOFURAN | ND | 180 | 89 |
| DIETHYLPHTHALATE | ND | 180 | 89 |
| DIMETHYLPHTHALATE | ND | 180 | 89 |
| FLUORANTHENE | ND | 180 | 89 |
| FLUORENE | ND | 180 | 89 |
| HEXACHLOROBENZENE | ND | 180 | 89 |
| HEXACHLOROBUTADIENE | ND | 180 | 89 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 89 |
| HEXACHLOROETHANE | ND | 180 | 89 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 89 |
| ISOPHORONE | ND | 180 | 89 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 89 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 89 |
| NAPHTHALENE | ND | 180 | 89 |
| NITROBENZENE | ND | 180 | 89 |
| PENTACHLOROPHENOL | ND | 350 | 180 |
| PHENANTHRENE | ND | 180 | 89 |
| PHENOL | ND | 180 | 89 |
| PYRENE | ND | 180 | 89 |
| BENZYL ALCOHOL | ND | 180 | 89 |
| 1-METHYLNAPHTHALENE | ND | 180 | 89 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 89 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 89 |
| ANILINE | ND | 350 | 180 |
| BENZIDINE | ND | 880 | 440 |
| BENZOIC ACID | ND | 710 | 350 |
| CARBAZOLE | ND | 180 | 89 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 89 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 738 | 1057 | 69.8 | 35-130 |
| 2-FLUOROBIPHENYL | 221 | 352.3 | 62.8 | 45-130 |
| 2-FLUOROPHENOL | 615 | 1057 | 58.2 | 25-130 |
| NITROBENZENE-D5 | 214 | 352.3 | 60.8 | 40-130 |
| PHENOL-D5 | 641 | 1057 | 60.7 | 25-120 |
| TERPHENYL-D14 | 296 | 352.3 | 84.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 13:00 |
| Sample ID: SL-007-NBZ-SB-4.0-5.0 | Date Analyzed: 03/15/12 20:26 |
| Lab Samp ID: C096-07 | Dilution Factor: 1 |
| Lab File ID: RCJ185 | Matrix : SOIL |
| Ext Btch ID: SVC018S | % Moisture : 8.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 460 |
| BENZOIC ACID | ND | 730 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 726 | 1088 | 66.7 | 35-130 |
| 2-FLUOROBIPHENYL | 223 | 362.7 | 61.5 | 45-130 |
| 2-FLUOROPHENOL | 647 | 1088 | 59.5 | 25-130 |
| NITROBENZENE-D5 | 201 | 362.7 | 55.4 | 40-130 |
| PHENOL-D5 | 649 | 1088 | 59.6 | 25-120 |
| TERPHENYL-D14 | 297 | 362.7 | 81.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 13:00 |
| Sample ID: SL-007-NBZ-SB-9.0-10.0 | Date Analyzed: 03/15/12 20:44 |
| Lab Samp ID: C096-09 | Dilution Factor: 1 |
| Lab File ID: RCJ186 | Matrix : SOIL |
| Ext Btch ID: SVC018S | % Moisture : 8.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 360 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 841 | 1092 | 77.0 | 35-130 |
| 2-FLUOROBIPHENYL | 246 | 363.9 | 67.5 | 45-130 |
| 2-FLUOROPHENOL | 742 | 1092 | 68.0 | 25-130 |
| NITROBENZENE-D5 | 233 | 363.9 | 64.1 | 40-130 |
| PHENOL-D5 | 744 | 1092 | 68.2 | 25-120 |
| TERPHENYL-D14 | 317 | 363.9 | 87.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 13:00 |
| Sample ID: SL-010-NBZ-SB-4.0-5.0 | Date Analyzed: 03/15/12 21:03 |
| Lab Samp ID: C096-11 | Dilution Factor: 1 |
| Lab File ID: RCJ187 | Matrix : SOIL |
| Ext Btch ID: SVC018S | % Moisture : 7.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 450 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 840 | 1079 | 77.9 | 35-130 |
| 2-FLUOROBIPHENYL | 220 | 359.5 | 61.2 | 45-130 |
| 2-FLUOROPHENOL | 703 | 1079 | 65.2 | 25-130 |
| NITROBENZENE-D5 | 214 | 359.5 | 59.5 | 40-130 |
| PHENOL-D5 | 717 | 1079 | 66.5 | 25-120 |
| TERPHENYL-D14 | 325 | 359.5 | 90.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 13:00 |
| Sample ID: SL-002-NBZ-SB-0.0-0.5 | Date Analyzed: 03/15/12 21:22 |
| Lab Samp ID: C096-14 | Dilution Factor: 1 |
| Lab File ID: RCJ188 | Matrix : SOIL |
| Ext Btch ID: SVC018S | % Moisture : 3.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | NDS | 170 | 87 |
| 1,2-DICHLOROBENZENE | NDS | 170 | 87 |
| 1,3-DICHLOROBENZENE | NDS | 170 | 87 |
| 1,4-DICHLOROBENZENE | NDS | 170 | 87 |
| 2,4,5-TRICHLOROPHENOL | NDS | 170 | 87 |
| 2,4,6-TRICHLOROPHENOL | NDS | 170 | 87 |
| 2,4-DICHLOROPHENOL | NDS | 170 | 87 |
| 2,4-DIMETHYLPHENOL | NDS | 170 | 87 |
| 2,4-DINITROPHENOL | NDS | 340 | 170 |
| 2,4-DINITROTOLUENE | NDS | 170 | 87 |
| 2,6-DINITROTOLUENE | NDS | 170 | 87 |
| 2-CHLORONAPHTHALENE | NDS | 170 | 87 |
| 2-CHLOROPHENOL | NDS | 170 | 87 |
| 2-METHYLNAPHTHALENE | NDS | 170 | 87 |
| 2-METHYLPHENOL | NDS | 170 | 87 |
| 2-NITROANILINE | NDS | 170 | 87 |
| 2-NITROPHENOL | NDS | 170 | 87 |
| 3,3'-DICHLOROBENZIDINE | NDS | 170 | 87 |
| 3-NITROANILINE | NDS | 170 | 87 |
| 4,6-DINITRO-2-METHYLPHENOL | NDS | 340 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | NDS | 170 | 87 |
| 4-CHLORO-3-METHYLPHENOL | NDS | 170 | 87 |
| 4-CHLOROANILINE | NDS | 170 | 87 |
| 4-CHLOROPHENYL-PHENYLETHER | NDS | 170 | 87 |
| 4-METHYLPHENOL (1) | NDS | 170 | 87 |
| 4-NITROANILINE | NDS | 170 | 87 |
| 4-NITROPHENOL | NDS | 340 | 170 |
| ACENAPHTHENE | NDS | 170 | 87 |
| ACENAPHTHYLENE | NDS | 170 | 87 |
| ANTHRACENE | NDS | 170 | 87 |
| BENZO(A)ANTHRACENE | NDS | 170 | 87 |
| BENZO(A)PYRENE | NDS | 170 | 87 |
| BENZO(B)FLUORANTHENE | NDS | 170 | 87 |
| BENZO(K)FLUORANTHENE | NDS | 170 | 87 |
| BENZO(G,H,I)PERYLENE | NDS | 170 | 87 |
| BIS(2-CHLOROETHOXY)METHANE | NDS | 170 | 87 |
| BIS(2-CHLOROETHYL)ETHER | NDS | 170 | 87 |
| BIS(2-CHLOROISOPROPYL)ETHER | NDS | 170 | 87 |
| BIS(2-ETHYLHEXYL)PHTHALATE | NDS | 170 | 87 |
| BUTYLBENZYLPHTHALATE | NDS | 170 | 87 |
| CHRYSENE | NDS | 170 | 87 |
| DI-N-BUTYLPHTHALATE | NDS | 170 | 87 |
| DI-N-OCTYLPHTHALATE | NDS | 170 | 87 |
| DIBENZO(A,H)ANTHRACENE | NDS | 170 | 87 |
| DIBENZOFURAN | NDS | 170 | 87 |
| DIETHYLPHTHALATE | NDS | 170 | 87 |
| DIMETHYLPHTHALATE | NDS | 170 | 87 |
| FLUORANTHENE | NDS | 170 | 87 |
| FLUORENE | NDS | 170 | 87 |
| HEXACHLOROBENZENE | NDS | 170 | 87 |
| HEXACHLOROBUTADIENE | NDS | 170 | 87 |
| HEXACHLOROCYCLOPENTADIENE | NDS | 170 | 87 |
| HEXACHLOROETHANE | NDS | 170 | 87 |
| INDENO(1,2,3-CD)PYRENE | NDS | 170 | 87 |
| ISOPHORONE | NDS | 170 | 87 |
| N-NITROSO-DI-N-PROPYLAMINE | NDS | 170 | 87 |
| N-NITROSODIPHENYLAMINE (2) | NDS | 170 | 87 |
| NAPHTHALENE | NDS | 170 | 87 |
| NITROBENZENE | NDS | 170 | 87 |
| PENTACHLOROPHENOL | NDS | 340 | 170 |
| PHENANTHRENE | NDS | 170 | 87 |
| PHENOL | NDS | 170 | 87 |
| PYRENE | NDS | 170 | 87 |
| BENZYL ALCOHOL | NDS | 170 | 87 |
| 1-METHYLNAPHTHALENE | NDS | 170 | 87 |
| 1,2-DIPHENYLHYDRAZINE | NDS | 170 | 87 |
| 3,5-DIMETHYLPHENOL | NDS | 170 | 87 |
| ANILINE | NDS | 340 | 170 |
| BENZIDINE | NDS | 860 | 430 |
| BENZOIC ACID | NDS | 690 | 350 |
| CARBAZOLE | NDS | 170 | 87 |
| N-NITROSODIMETHYLAMINE | NDS | 170 | 87 |
| TETRALIN | NDS | 170 | 170 |
| 2-BUTOXYETHANOL | NDS | 170 | 170 |
| 2-PHENOXYETHANOL | NDS | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 867 | 1033 | 84.0 | 35-130 |
| 2-FLUOROBIPHENYL | 253 | 344.3 | 73.6 | 45-130 |
| 2-FLUOROPHENOL | 711 | 1033 | 68.9 | 25-130 |
| NITROBENZENE-D5 | 219 | 344.3 | 63.6 | 40-130 |
| PHENOL-D5 | 720 | 1033 | 69.7 | 25-120 |
| TERPHENYL-D14 | 314 | 344.3 | 91.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 13:00 |
| Sample ID: SL-003-NBZ-SB-0.0-0.5 | Date Analyzed: 03/15/12 21:41 |
| Lab Samp ID: C096-15 | Dilution Factor: 1 |
| Lab File ID: RCJ189 | Matrix : SOIL |
| Ext Btch ID: SVC018S | % Moisture : 4.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | NDS | 170 | 88 |
| 1,2-DICHLOROBENZENE | NDS | 170 | 88 |
| 1,3-DICHLOROBENZENE | NDS | 170 | 88 |
| 1,4-DICHLOROBENZENE | NDS | 170 | 88 |
| 2,4,5-TRICHLOROPHENOL | NDS | 170 | 88 |
| 2,4,6-TRICHLOROPHENOL | NDS | 170 | 88 |
| 2,4-DICHLOROPHENOL | NDS | 170 | 88 |
| 2,4-DIMETHYLPHENOL | NDS | 170 | 88 |
| 2,4-DINITROPHENOL | NDS | 350 | 170 |
| 2,4-DINITROTOLUENE | NDS | 170 | 88 |
| 2,6-DINITROTOLUENE | NDS | 170 | 88 |
| 2-CHLORONAPHTHALENE | NDS | 170 | 88 |
| 2-CHLOROPHENOL | NDS | 170 | 88 |
| 2-METHYLNAPHTHALENE | NDS | 170 | 88 |
| 2-METHYLPHENOL | NDS | 170 | 88 |
| 2-NITROANILINE | NDS | 170 | 88 |
| 2-NITROPHENOL | NDS | 170 | 88 |
| 3,3'-DICHLOROBENZIDINE | NDS | 170 | 88 |
| 3-NITROANILINE | NDS | 170 | 88 |
| 4,6-DINITRO-2-METHYLPHENOL | NDS | 350 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | NDS | 170 | 88 |
| 4-CHLORO-3-METHYLPHENOL | NDS | 170 | 88 |
| 4-CHLOROANILINE | NDS | 170 | 88 |
| 4-CHLOROPHENYL-PHENYLETHER | NDS | 170 | 88 |
| 4-METHYLPHENOL (1) | NDS | 170 | 88 |
| 4-NITROANILINE | NDS | 170 | 88 |
| 4-NITROPHENOL | NDS | 350 | 170 |
| ACENAPHTHENE | NDS | 170 | 88 |
| ACENAPHTHYLENE | NDS | 170 | 88 |
| ANTHRACENE | NDS | 170 | 88 |
| BENZO(A)ANTHRACENE | NDS | 170 | 88 |
| BENZO(A)PYRENE | NDS | 170 | 88 |
| BENZO(B)FLUORANTHENE | NDS | 170 | 88 |
| BENZO(K)FLUORANTHENE | NDS | 170 | 88 |
| BENZO(G,H,I)PERYLENE | NDS | 170 | 88 |
| BIS(2-CHLOROETHOXY)METHANE | NDS | 170 | 88 |
| BIS(2-CHLOROETHYL)ETHER | NDS | 170 | 88 |
| BIS(2-CHLOROISOPROPYL)ETHER | NDS | 170 | 88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | NDS | 170 | 88 |
| BUTYLBENZYLPHTHALATE | NDS | 170 | 88 |
| CHRYSENE | NDS | 170 | 88 |
| DI-N-BUTYLPHTHALATE | NDS | 170 | 88 |
| DI-N-OCTYLPHTHALATE | NDS | 170 | 88 |
| DIBENZO(A,H)ANTHRACENE | NDS | 170 | 88 |
| DIBENZOFURAN | NDS | 170 | 88 |
| DIETHYLPHTHALATE | NDS | 170 | 88 |
| DIMETHYLPHTHALATE | NDS | 170 | 88 |
| FLUORANTHENE | NDS | 170 | 88 |
| FLUORENE | NDS | 170 | 88 |
| HEXACHLOROBENZENE | NDS | 170 | 88 |
| HEXACHLOROBUTADIENE | NDS | 170 | 88 |
| HEXACHLOROCYCLOPENTADIENE | NDS | 170 | 88 |
| HEXACHLOROETHANE | NDS | 170 | 88 |
| INDENO(1,2,3-CD)PYRENE | NDS | 170 | 88 |
| ISOPHORONE | NDS | 170 | 88 |
| N-NITROSO-DI-N-PROPYLAMINE | NDS | 170 | 88 |
| N-NITROSODIPHENYLAMINE (2) | NDS | 170 | 88 |
| NAPHTHALENE | NDS | 170 | 88 |
| NITROBENZENE | NDS | 170 | 88 |
| PENTACHLOROPHENOL | NDS | 350 | 170 |
| PHENANTHRENE | NDS | 170 | 88 |
| PHENOL | NDS | 170 | 88 |
| PYRENE | NDS | 170 | 88 |
| BENZYL ALCOHOL | NDS | 170 | 88 |
| 1-METHYLNAPHTHALENE | NDS | 170 | 88 |
| 1,2-DIPHENYLHYDRAZINE | NDS | 170 | 88 |
| 3,5-DIMETHYLPHENOL | NDS | 170 | 88 |
| ANILINE | NDS | 350 | 170 |
| BENZIDINE | NDS | 870 | 440 |
| BENZOIC ACID | NDS | 700 | 350 |
| CARBAZOLE | NDS | 170 | 88 |
| N-NITROSODIMETHYLAMINE | NDS | 170 | 88 |
| TETRALIN | NDS | 170 | 170 |
| 2-BUTOXYETHANOL | NDS | 170 | 170 |
| 2-PHENOXYETHANOL | NDS | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 881 | 1045 | 84.3 | 35-130 |
| 2-FLUOROBIPHENYL | 249 | 348.3 | 71.5 | 45-130 |
| 2-FLUOROPHENOL | 678 | 1045 | 64.9 | 25-130 |
| NITROBENZENE-D5 | 226 | 348.3 | 64.9 | 40-130 |
| PHENOL-D5 | 713 | 1045 | 68.2 | 25-120 |
| TERPHENYL-D14 | 331 | 348.3 | 95.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/15/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 13:00 |
| Sample ID: MBLK1S | Date Analyzed: 03/15/12 16:41 |
| Lab Samp ID: SVC018SB | Dilution Factor: 1 |
| Lab File ID: RCJ173 | Matrix : SOIL |
| Ext Btch ID: SVC018S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 868 | 1000 | 86.8 | 35-130 |
| 2-FLUOROBIPHENYL | 270 | 333.3 | 81.1 | 45-130 |
| 2-FLUOROPHENOL | 774 | 1000 | 77.4 | 25-130 |
| NITROBENZENE-D5 | 255 | 333.3 | 76.6 | 40-130 |
| PHENOL-D5 | 770 | 1000 | 77.0 | 25-120 |
| TERPHENYL-D14 | 349 | 333.3 | 105 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVC018SB SVC018SL SVC018SC
LAB FILE ID: RCJ173 RCJ174 RCJ175
DATE EXTRACTED: 03/15/1213:00 03/15/1213:00 03/15/1213:00 DATE COLLECTED: NA
DATE ANALYZED: 03/15/1216:41 03/15/1216:59 03/15/1217:18 DATE RECEIVED: 03/15/12
PREP. BATCH: SVC018S SVC018S SVC018S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 515 | 77 | 667 | 427 | 64 | 19 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 526 | 79 | 667 | 430 | 65 | 20 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 521 | 78 | 667 | 423 | 63 | 21 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 516 | 77 | 667 | 425 | 64 | 19 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 549 | 82 | 667 | 497 | 74 | 10 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 586 | 88 | 667 | 545 | 82 | 7 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 594 | 89 | 667 | 521 | 78 | 13 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 573 | 86 | 667 | 515 | 77 | 11 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 491 | 74 | 667 | 466 | 70 | 5 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 619 | 93 | 667 | 566 | 85 | 9 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 595 | 89 | 667 | 559 | 84 | 6 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 557 | 84 | 667 | 493 | 74 | 12 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 578 | 87 | 667 | 490 | 74 | 16 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 646 | 97 | 667 | 575 | 86 | 12 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 516 | 77 | 667 | 473 | 71 | 9 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 577 | 87 | 667 | 516 | 77 | 11 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 593 | 89 | 667 | 526 | 79 | 12 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 517 | 78 | 667 | 474 | 71 | 9 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 520 | 78 | 667 | 484 | 73 | 7 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 558 | 84 | 667 | 535 | 80 | 4 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 396 | 59 | 667 | 499 | 75 | 23 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 567 | 85 | 667 | 524 | 79 | 8 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 523 | 78 | 667 | 457 | 68 | 14 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 629 | 94 | 667 | 576 | 86 | 9 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 544 | 82 | 667 | 492 | 74 | 10 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 503 | 75 | 667 | 483 | 72 | 4 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 480 | 72 | 667 | 462 | 69 | 4 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 612 | 92 | 667 | 559 | 84 | 9 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 626 | 94 | 667 | 572 | 86 | 9 | 30-130 | 50 |
| Anthracene | ND | 667 | 594 | 89 | 667 | 552 | 83 | 7 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 602 | 90 | 667 | 561 | 84 | 7 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 578 | 87 | 667 | 531 | 80 | 8 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 620 | 93 | 667 | 589 | 88 | 5 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 611 | 92 | 667 | 580 | 87 | 5 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 613 | 92 | 667 | 578 | 87 | 6 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 619 | 93 | 667 | 538 | 81 | 14 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 611 | 92 | 667 | 508 | 76 | 18 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 581 | 87 | 667 | 504 | 76 | 14 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 585 | 88 | 667 | 542 | 81 | 8 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 583 | 87 | 667 | 542 | 81 | 7 | 40-150 | 50 |
| Chrysene | ND | 667 | 628 | 94 | 667 | 578 | 87 | 8 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 555 | 83 | 667 | 525 | 79 | 6 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 576 | 86 | 667 | 580 | 87 | 1 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 611 | 92 | 667 | 579 | 87 | 5 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 593 | 89 | 667 | 535 | 80 | 10 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 571 | 86 | 667 | 525 | 79 | 9 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 576 | 86 | 667 | 533 | 80 | 8 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 604 | 91 | 667 | 574 | 86 | 5 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 624 | 94 | 667 | 565 | 85 | 10 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 568 | 85 | 667 | 520 | 78 | 9 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 557 | 84 | 667 | 467 | 70 | 18 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 390 | 59 | 667 | 340 | 51 | 14 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 524 | 79 | 667 | 422 | 63 | 22 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 617 | 93 | 667 | 572 | 86 | 8 | 30-140 | 50 |
| Isophorone | ND | 667 | 619 | 93 | 667 | 551 | 83 | 12 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 483 | 72 | 667 | 439 | 66 | 9 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 457 | 69 | 667 | 425 | 64 | 7 | 30-140 | 50 |
| Naphthalene | ND | 667 | 624 | 94 | 667 | 533 | 80 | 16 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 643 | 96 | 667 | 497 | 75 | 26 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 531 | 80 | 667 | 504 | 76 | 5 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 620 | 93 | 667 | 588 | 88 | 5 | 30-130 | 50 |
| Phenol | ND | 667 | 570 | 86 | 667 | 503 | 75 | 13 | 30-130 | 50 |
| Pyrene | ND | 667 | 613 | 92 | 667 | 564 | 85 | 8 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 552 | 83 | 667 | 494 | 74 | 11 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 635 | 95 | 667 | 563 | 84 | 12 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 533 | 80 | 667 | 499 | 75 | 7 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 555 | 83 | 667 | 520 | 78 | 7 | 20-150 | 50 |
| Aniline | ND | 667 | 423 | 63 | 667 | 364 | 55 | 15 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1220 | 46 | 2670 | 1120 | 42 | 9 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 1280 | 48 | 2670 | 1230 | 46 | 4 | 10-130 | 50 |
| Carbazole | ND | 667 | 548 | 82 | 667 | 521 | 78 | 5 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 620 | 93 | 667 | 533 | 80 | 15 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 862 | 86 | 1000 | 805 | 81 | 35-130 |
| 2-Fluorobiphenyl | 333 | 262 | 79 | 333 | 214 | 64 | 45-130 |
| 2-Fluorophenol | 1000 | 762 | 76 | 1000 | 673 | 67 | 25-130 |
| Nitrobenzene-d5 | 333 | 252 | 76 | 333 | 226 | 68 | 40-130 |
| Phenol-d5 | 1000 | 762 | 76 | 1000 | 705 | 70 | 25-120 |
| Terphenyl-d14 | 333 | 292 | 88 | 333 | 271 | 81 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: 7.5

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-002-NBZ-SB-4.0-5.0 | | | | |
| LAB SAMP ID: | C096-01 | C096-01M | C096-01S | | |
| LAB FILE ID: | RCJ182 | RCJ178 | RCJ179 | | |
| DATE EXTRACTED: | 03/15/1213:00 | 03/15/1213:00 | 03/15/1213:00 | DATE COLLECTED: | 03/12/12 |
| DATE ANALYZED: | 03/15/1219:29 | 03/15/1218:14 | 03/15/1218:33 | DATE RECEIVED: | 03/12/12 |
| PREP. BATCH: | SVC018S | SVC018S | SVC018S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 721 | 427 | 59 | 721 | 443 | 61 | 4 | 10-130 | 50 |
| 1,2-Dichlorobenzene | ND | 721 | 358 | 50 | 721 | 402 | 56 | 12 | 30-130 | 50 |
| 1,3-Dichlorobenzene | ND | 721 | 322 | 45 | 721 | 375 | 52 | 15 | 30-130 | 50 |
| 1,4-Dichlorobenzene | ND | 721 | 327 | 45 | 721 | 379 | 53 | 14 | 10-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 721 | 547 | 76 | 721 | 510 | 71 | 7 | 30-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 721 | 583 | 81 | 721 | 557 | 77 | 5 | 30-130 | 50 |
| 2,4-Dichlorophenol | ND | 721 | 552 | 77 | 721 | 560 | 78 | 1 | 30-130 | 50 |
| 2,4-Dimethylphenol | ND | 721 | 508 | 70 | 721 | 502 | 70 | 1 | 30-130 | 50 |
| 2,4-Dinitrophenol | ND | 721 | 510 | 71 | 721 | 480 | 67 | 6 | 10-130 | 50 |
| 2,4-Dinitrotoluene | ND | 721 | 664 | 92 | 721 | 624 | 87 | 6 | 20-130 | 50 |
| 2,6-Dinitrotoluene | ND | 721 | 642 | 89 | 721 | 579 | 80 | 10 | 30-130 | 50 |
| 2-Chloronaphthalene | ND | 721 | 516 | 72 | 721 | 524 | 73 | 1 | 30-130 | 50 |
| 2-Chlorophenol | ND | 721 | 546 | 76 | 721 | 555 | 77 | 2 | 20-130 | 50 |
| 2-Methylnaphthalene | ND | 721 | 579 | 80 | 721 | 589 | 82 | 2 | 30-130 | 50 |
| 2-Methylphenol | ND | 721 | 475 | 66 | 721 | 486 | 67 | 2 | 30-130 | 50 |
| 2-Nitroaniline | ND | 721 | 581 | 81 | 721 | 556 | 77 | 4 | 30-130 | 50 |
| 2-Nitrophenol | ND | 721 | 537 | 74 | 721 | 569 | 79 | 6 | 30-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 721 | 573 | 80 | 721 | 518 | 72 | 10 | 30-130 | 50 |
| 3-Nitroaniline | ND | 721 | 564 | 78 | 721 | 500 | 69 | 12 | 30-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 721 | 620 | 86 | 721 | 596 | 83 | 4 | 30-130 | 50 |
| 4-Bromophenyl-phenylether | ND | 721 | 390 | 54 | 721 | 343 | 48 | 13 | 30-130 | 50 |
| 4-Chloro-3-Methylphenol | ND | 721 | 567 | 79 | 721 | 542 | 75 | 5 | 20-130 | 50 |
| 4-Chloroaniline | ND | 721 | 507 | 70 | 721 | 500 | 69 | 1 | 30-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 721 | 631 | 88 | 721 | 597 | 83 | 5 | 30-130 | 50 |
| 4-Methylphenol | ND | 721 | 501 | 70 | 721 | 538 | 75 | 7 | 20-130 | 50 |
| 4-Nitroaniline | ND | 721 | 635 | 88 | 721 | 517 | 72 | 21 | 40-130 | 50 |
| 4-Nitrophenol | ND | 721 | 537 | 75 | 721 | 493 | 68 | 9 | 10-130 | 50 |
| Acenaphthene | ND | 721 | 602 | 84 | 721 | 586 | 81 | 3 | 20-130 | 50 |
| Acenaphthylene | ND | 721 | 610 | 85 | 721 | 597 | 83 | 2 | 20-130 | 50 |
| Anthracene | ND | 721 | 630 | 87 | 721 | 598 | 83 | 5 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 721 | 668 | 93 | 721 | 622 | 86 | 7 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 721 | 630 | 87 | 721 | 599 | 83 | 5 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 721 | 686 | 95 | 721 | 636 | 88 | 8 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 721 | 693 | 96 | 721 | 656 | 91 | 5 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 721 | 681 | 95 | 721 | 632 | 88 | 7 | 30-130 | 50 |
| bis(2-Chloroethoxy)methane | ND | 721 | 554 | 77 | 721 | 571 | 79 | 3 | 30-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 721 | 530 | 74 | 721 | 556 | 77 | 5 | 30-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 721 | 496 | 69 | 721 | 560 | 78 | 12 | 20-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 721 | 656 | 91 | 721 | 618 | 86 | 6 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 721 | 656 | 91 | 721 | 607 | 84 | 8 | 30-130 | 50 |
| Chrysene | ND | 721 | 695 | 96 | 721 | 656 | 91 | 6 | 30-130 | 50 |
| Di-n-butylphthalate | ND | 721 | 624 | 87 | 721 | 586 | 81 | 6 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 721 | 654 | 91 | 721 | 606 | 84 | 8 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 721 | 670 | 93 | 721 | 639 | 89 | 5 | 30-130 | 50 |
| Dibenzofuran | ND | 721 | 572 | 79 | 721 | 560 | 78 | 2 | 30-130 | 50 |
| Diethylphthalate | ND | 721 | 614 | 85 | 721 | 570 | 79 | 8 | 30-130 | 50 |
| Dimethylphthalate | ND | 721 | 607 | 84 | 721 | 565 | 78 | 7 | 30-130 | 50 |
| Fluoranthene | ND | 721 | 678 | 94 | 721 | 641 | 89 | 6 | 30-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 721 | 629 | 87 | 721 | 597 | 83 | 5 | 20-130 | 50 |
| Hexachlorobenzene | ND | 721 | 602 | 84 | 721 | 582 | 81 | 3 | 10-160 | 50 |
| Hexachlorobutadiene | ND | 721 | 443 | 61 | 721 | 469 | 65 | 6 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 721 | 336 | 47 | 721 | 360 | 50 | 7 | 10-130 | 50 |
| Hexachloroethane | ND | 721 | 314 | 44 | 721 | 378 | 52 | 18 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 721 | 679 | 94 | 721 | 642 | 89 | 6 | 20-130 | 50 |
| Isophorone | ND | 721 | 578 | 80 | 721 | 582 | 81 | 1 | 30-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 721 | 451 | 63 | 721 | 452 | 63 | 0 | 20-130 | 50 |
| n-Nitrosodiphenylamine | ND | 721 | 477 | 66 | 721 | 449 | 62 | 6 | 20-140 | 50 |
| Naphthalene | ND | 721 | 530 | 74 | 721 | 557 | 77 | 5 | 30-130 | 50 |
| Nitrobenzene | ND | 721 | 511 | 71 | 721 | 523 | 73 | 2 | 30-130 | 50 |
| Pentachlorophenol | ND | 721 | 586 | 81 | 721 | 543 | 75 | 8 | 10-130 | 50 |
| Phenanthrene | ND | 721 | 668 | 93 | 721 | 632 | 88 | 6 | 20-130 | 50 |
| Phenol | ND | 721 | 511 | 71 | 721 | 536 | 74 | 5 | 20-130 | 50 |
| Pyrene | ND | 721 | 679 | 94 | 721 | 641 | 89 | 6 | 10-160 | 50 |
| Benzyl Alcohol | ND | 721 | 502 | 70 | 721 | 526 | 73 | 5 | 30-130 | 50 |
| 1-Methylnaphthalene | ND | 721 | 587 | 81 | 721 | 597 | 83 | 2 | 20-130 | 50 |
| 1,2-Diphenylhydrazine | ND | 721 | 557 | 77 | 721 | 527 | 73 | 5 | 20-150 | 50 |
| 3,5-Dimethylphenol | ND | 721 | 523 | 73 | 721 | 530 | 73 | 1 | 20-130 | 50 |
| Aniline | ND | 721 | 393 | 54 | 721 | 393 | 55 | 0 | 10-150 | 50 |
| Benzidine | ND | 2880 | 339J | 12 | 2880 | 304J | 11 | 11 | 10-150 | 50 |
| Benzoic Acid | ND | 2880 | 739 | 26 | 2880 | 588J | 20 | 23 | 10-130 | 50 |
| Carbazole | ND | 721 | 609 | 84 | 721 | 579 | 80 | 5 | 30-130 | 50 |
| N-Nitrosodimethylamine | ND | 721 | 547 | 76 | 721 | 569 | 79 | 4 | 20-130 | 50 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1080 | 999 | 92 | 1080 | 895 | 83 | 35-130 |
| 2-Fluorobiphenyl | 360 | 264 | 73 | 360 | 266 | 74 | 45-130 |
| 2-Fluorophenol | 1080 | 736 | 68 | 1080 | 740 | 68 | 25-130 |
| Nitrobenzene-d5 | 360 | 250 | 69 | 360 | 250 | 69 | 40-130 |
| Phenol-d5 | 1080 | 768 | 71 | 1080 | 749 | 69 | 25-120 |
| Terphenyl-d14 | 360 | 349 | 97 | 360 | 320 | 89 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 13:00 |
| Sample ID: SL-002-NBZ-SB-4.0-5.0 | Date Analyzed: 03/20/12 17:44 |
| Lab Samp ID: C096-01W | Dilution Factor: 1 |
| Lab File ID: RCJ236 | Matrix : SOIL |
| Ext Btch ID: SVC018S | % Moisture : 7.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | ND | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | ND | 1.8 | 0.92 |
| PYRENE | ND | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 173 | 360.3 | 48.1 | 40-130 |
| 2-FLUOROBIPHENYL | 193 | 360.3 | 53.5 | 45-130 |
| TERPHENYL-D14 | 236 | 360.3 | 65.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 13:00 |
| Sample ID: SL-002-NBZ-SB-7.5-8.5 | Date Analyzed: 03/15/12 19:48 |
| Lab Samp ID: C096-03 | Dilution Factor: 1 |
| Lab File ID: RCJ183 | Matrix : SOIL |
| Ext Btch ID: SVC018S | % Moisture : 7.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | ND | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | ND | 1.8 | 0.92 |
| PYRENE | ND | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 236 | 360.3 | 65.6 | 40-130 |
| 2-FLUOROBIPHENYL | 232 | 360.3 | 64.3 | 45-130 |
| TERPHENYL-D14 | 301 | 360.3 | 83.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 13:00 |
| Sample ID: SL-003-NBZ-SB-4.0-5.0 | Date Analyzed: 03/15/12 20:07 |
| Lab Samp ID: C096-05 | Dilution Factor: 1 |
| Lab File ID: RCJ184 | Matrix : SOIL |
| Ext Btch ID: SVC018S | % Moisture : 5.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.90 |
| ACENAPHTHYLENE | ND | 1.8 | 0.90 |
| ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)PYRENE | ND | 1.8 | 0.90 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.90 |
| CHRYSENE | ND | 1.8 | 0.90 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.90 |
| FLUORANTHENE | ND | 1.8 | 0.90 |
| FLUORENE | ND | 1.8 | 0.90 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.90 |
| NAPHTHALENE | ND | 1.8 | 0.90 |
| PHENANTHRENE | ND | 1.8 | 0.90 |
| PYRENE | ND | 1.8 | 0.90 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 8.9 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 8.9 |
| DIETHYLPHTHALATE | ND | 18 | 8.9 |
| DIMETHYLPHTHALATE | ND | 18 | 8.9 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.90 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 218 | 352.3 | 61.9 | 40-130 |
| 2-FLUOROBIPHENYL | 214 | 352.3 | 60.7 | 45-130 |
| TERPHENYL-D14 | 278 | 352.3 | 79.0 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 13:00 |
| Sample ID: SL-007-NBZ-SB-4.0-5.0 | Date Analyzed: 03/15/12 20:26 |
| Lab Samp ID: C096-07 | Dilution Factor: 1 |
| Lab File ID: RCJ185 | Matrix : SOIL |
| Ext Btch ID: SVC018S | % Moisture : 8.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | ND | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | ND | 1.8 | 0.92 |
| PYRENE | ND | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 218 | 362.7 | 60.2 | 40-130 |
| 2-FLUOROBIPHENYL | 214 | 362.7 | 58.9 | 45-130 |
| TERPHENYL-D14 | 277 | 362.7 | 76.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 13:00 |
| Sample ID: SL-007-NBZ-SB-9.0-10.0 | Date Analyzed: 03/15/12 20:44 |
| Lab Samp ID: C096-09 | Dilution Factor: 1 |
| Lab File ID: RCJ186 | Matrix : SOIL |
| Ext Btch ID: SVC018S | % Moisture : 8.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)PYRENE | ND | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.93 |
| CHRYSENE | ND | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | ND | 1.9 | 0.93 |
| FLUORENE | ND | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | ND | 1.9 | 0.93 |
| PYRENE | ND | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 254 | 363.9 | 69.8 | 40-130 |
| 2-FLUOROBIPHENYL | 252 | 363.9 | 69.1 | 45-130 |
| TERPHENYL-D14 | 295 | 363.9 | 81.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 13:00 |
| Sample ID: SL-010-NBZ-SB-4.0-5.0 | Date Analyzed: 03/15/12 21:03 |
| Lab Samp ID: C096-11 | Dilution Factor: 1 |
| Lab File ID: RCJ187 | Matrix : SOIL |
| Ext Btch ID: SVC018S | % Moisture : 7.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | ND | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | ND | 1.8 | 0.92 |
| PYRENE | ND | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 238 | 359.5 | 66.1 | 40-130 |
| 2-FLUOROBIPHENYL | 236 | 359.5 | 65.6 | 45-130 |
| TERPHENYL-D14 | 313 | 359.5 | 87.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 13:00 |
| Sample ID: SL-002-NBZ-SB-0.0-0.5 | Date Analyzed: 03/15/12 21:22 |
| Lab Samp ID: C096-14 | Dilution Factor: 1 |
| Lab File ID: RCJ188 | Matrix : SOIL |
| Ext Btch ID: SVC018S | % Moisture : 3.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | NDS | 1.8 | 0.88 |
| ACENAPHTHYLENE | NDS | 1.8 | 0.88 |
| ANTHRACENE | NDS | 1.8 | 0.88 |
| BENZO(A)ANTHRACENE | NDS | 1.8 | 0.88 |
| BENZO(A)PYRENE | NDS | 1.8 | 0.88 |
| BENZO(B)FLUORANTHENE | NDS | 1.8 | 0.88 |
| BENZO(K)FLUORANTHENE | NDS | 1.8 | 0.88 |
| BENZO(G,H,I)PERYLENE | NDS | 1.8 | 0.88 |
| CHRYSENE | NDS | 1.8 | 0.88 |
| DIBENZO(A,H)ANTHRACENE | NDS | 1.8 | 0.88 |
| FLUORANTHENE | NDS | 1.8 | 0.88 |
| FLUORENE | NDS | 1.8 | 0.88 |
| INDENO(1,2,3-CD)PYRENE | NDS | 1.8 | 0.88 |
| NAPHTHALENE | NDS | 1.8 | 0.88 |
| PHENANTHRENE | NDS | 1.8 | 0.88 |
| PYRENE | NDS | 1.8 | 0.88 |
| 2-METHYLNAPHTHALENE | NDS | 1.8 | 0.88 |
| 1-METHYLNAPHTHALENE | NDS | 1.8 | 0.88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | NDS | 17 | 8.7 |
| BUTYLBENZYLPHTHALATE | NDS | 17 | 8.7 |
| DI-N-BUTYLPHTHALATE | NDS | 17 | 8.7 |
| DI-N-OCTYLPHTHALATE | NDS | 17 | 8.7 |
| DIETHYLPHTHALATE | NDS | 17 | 8.7 |
| DIMETHYLPHTHALATE | NDS | 17 | 8.7 |
| N-NITROSODIMETHYLAMINE | NDS | 1.8 | 0.88 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 236 | 344.3 | 68.6 | 40-130 |
| 2-FLUOROBIPHENYL | 245 | 344.3 | 71.2 | 45-130 |
| TERPHENYL-D14 | 304 | 344.3 | 88.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 13:00 |
| Sample ID: SL-003-NBZ-SB-0.0-0.5 | Date Analyzed: 03/15/12 21:41 |
| Lab Samp ID: C096-15 | Dilution Factor: 1 |
| Lab File ID: RCJ189 | Matrix : SOIL |
| Ext Btch ID: SVC018S | % Moisture : 4.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | NDS | 1.8 | 0.89 |
| ACENAPHTHYLENE | NDS | 1.8 | 0.89 |
| ANTHRACENE | NDS | 1.8 | 0.89 |
| BENZO(A)ANTHRACENE | NDS | 1.8 | 0.89 |
| BENZO(A)PYRENE | NDS | 1.8 | 0.89 |
| BENZO(B)FLUORANTHENE | NDS | 1.8 | 0.89 |
| BENZO(K)FLUORANTHENE | NDS | 1.8 | 0.89 |
| BENZO(G,H,I)PERYLENE | NDS | 1.8 | 0.89 |
| CHRYSENE | NDS | 1.8 | 0.89 |
| DIBENZO(A,H)ANTHRACENE | NDS | 1.8 | 0.89 |
| FLUORANTHENE | NDS | 1.8 | 0.89 |
| FLUORENE | NDS | 1.8 | 0.89 |
| INDENO(1,2,3-CD)PYRENE | NDS | 1.8 | 0.89 |
| NAPHTHALENE | NDS | 1.8 | 0.89 |
| PHENANTHRENE | NDS | 1.8 | 0.89 |
| PYRENE | NDS | 1.8 | 0.89 |
| 2-METHYLNAPHTHALENE | NDS | 1.8 | 0.89 |
| 1-METHYLNAPHTHALENE | NDS | 1.8 | 0.89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | NDS | 17 | 8.8 |
| BUTYLBENZYLPHTHALATE | NDS | 17 | 8.8 |
| DI-N-BUTYLPHTHALATE | NDS | 17 | 8.8 |
| DI-N-OCTYLPHTHALATE | NDS | 17 | 8.8 |
| DIETHYLPHTHALATE | NDS | 17 | 8.8 |
| DIMETHYLPHTHALATE | NDS | 17 | 8.8 |
| N-NITROSODIMETHYLAMINE | NDS | 1.8 | 0.89 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 242 | 348.3 | 69.6 | 40-130 |
| 2-FLUOROBIPHENYL | 248 | 348.3 | 71.2 | 45-130 |
| TERPHENYL-D14 | 314 | 348.3 | 90.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/15/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 13:00 |
| Sample ID: MBLK1S | Date Analyzed: 03/15/12 16:41 |
| Lab Samp ID: SVC018SB | Dilution Factor: 1 |
| Lab File ID: RCJ173 | Matrix : SOIL |
| Ext Btch ID: SVC018S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 271 | 333.3 | 81.5 | 40-130 |
| 2-FLUOROBIPHENYL | 269 | 333.3 | 80.6 | 45-130 |
| TERPHENYL-D14 | 322 | 333.3 | 96.6 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVC018SB | SVC018SX | SVC018SY | | |
| LAB FILE ID: | RCJ173 | RCJ176 | RCJ177 | | |
| DATE EXTRACTED: | 03/15/1213:00 | 03/15/1213:00 | 03/15/1213:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/15/1216:41 | 03/15/1217:37 | 03/15/1217:56 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | SVC018S | SVC018S | SVC018S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 294 | 88 | 333 | 278 | 83 | 6 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 319 | 96 | 333 | 301 | 90 | 6 | 20-130 | 50 |
| Anthracene | ND | 333 | 301 | 90 | 333 | 272 | 82 | 10 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 296 | 89 | 333 | 274 | 82 | 8 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 320 | 96 | 333 | 288 | 86 | 11 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 329 | 99 | 333 | 302 | 91 | 9 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 356 | 107 | 333 | 318 | 96 | 11 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 339 | 102 | 333 | 306 | 92 | 10 | 30-140 | 50 |
| Chrysene | ND | 333 | 293 | 88 | 333 | 269 | 81 | 8 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 349 | 105 | 333 | 315 | 95 | 10 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 315 | 94 | 333 | 291 | 87 | 8 | 30-130 | 50 |
| Fluorene | ND | 333 | 317 | 95 | 333 | 295 | 89 | 7 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 349 | 105 | 333 | 314 | 94 | 11 | 20-160 | 50 |
| Naphthalene | ND | 333 | 274 | 82 | 333 | 265 | 80 | 3 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 304 | 91 | 333 | 276 | 83 | 10 | 20-130 | 50 |
| Pyrene | ND | 333 | 301 | 90 | 333 | 278 | 83 | 8 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 297 | 89 | 333 | 286 | 86 | 4 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 294 | 88 | 333 | 284 | 85 | 4 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 276 | 83 | 333 | 253 | 76 | 9 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 261 | 78 | 333 | 241 | 72 | 8 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 278 | 83 | 333 | 254 | 76 | 9 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 274 | 82 | 333 | 247 | 74 | 10 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 311 | 93 | 333 | 281 | 84 | 10 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 305 | 91 | 333 | 278 | 84 | 9 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 265 | 79 | 333 | 256 | 77 | 3 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 263 | 79 | 333 | 273 | 82 | 40-130 |
| 2-Fluorobiphenyl | 333 | 249 | 75 | 333 | 249 | 75 | 45-130 |
| Terphenyl-d14 | 333 | 290 | 87 | 333 | 284 | 85 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: 7.5

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-002-NBZ-SB-4.0-5.0 | | | | |
| LAB SAMP ID: | C096-01 | C096-01M | C096-01S | | |
| LAB FILE ID: | RCJ182 | RCJ180 | RCJ181 | | |
| DATE EXTRACTED: | 03/15/1213:00 | 03/15/1213:00 | 03/15/1213:00 | DATE COLLECTED: | 03/12/12 |
| DATE ANALYZED: | 03/15/1219:29 | 03/15/1218:52 | 03/15/1219:11 | DATE RECEIVED: | 03/12/12 |
| PREP. BATCH: | SVC018S | SVC018S | SVC018S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 360 | 264 | 73 | 360 | 278 | 77 | 5 | 10-130 | 50 |
| Acenaphthylene | ND | 360 | 286 | 79 | 360 | 301 | 84 | 5 | 20-130 | 50 |
| Anthracene | ND | 360 | 266 | 74 | 360 | 289 | 80 | 8 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 360 | 298 | 83 | 360 | 315 | 88 | 6 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 360 | 293 | 81 | 360 | 329 | 91 | 11 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 360 | 336 | 93 | 360 | 365 | 101 | 8 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 360 | 318 | 88 | 360 | 367 | 102 | 14 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 360 | 324 | 90 | 360 | 361 | 100 | 11 | 30-140 | 50 |
| Chrysene | ND | 360 | 289 | 80 | 360 | 306 | 85 | 6 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 360 | 333 | 92 | 360 | 373 | 104 | 11 | 30-130 | 50 |
| Fluoranthene | ND | 360 | 307 | 85 | 360 | 332 | 92 | 8 | 30-130 | 50 |
| Fluorene | ND | 360 | 281 | 78 | 360 | 302 | 84 | 7 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 360 | 333 | 92 | 360 | 372 | 103 | 11 | 20-160 | 50 |
| Naphthalene | ND | 360 | 234 | 65 | 360 | 239 | 66 | 2 | 10-130 | 50 |
| Phenanthrene | ND | 360 | 278 | 77 | 360 | 303 | 84 | 9 | 20-130 | 50 |
| Pyrene | ND | 360 | 293 | 81 | 360 | 317 | 88 | 8 | 10-160 | 50 |
| 2-Methylnaphthalene | ND | 360 | 266 | 74 | 360 | 275 | 76 | 3 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 360 | 266 | 74 | 360 | 275 | 76 | 3 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 360 | 286 | 79 | 360 | 301 | 83 | 5 | 20-150 | 50 |
| Butylbenzylphthalate | ND | 360 | 266 | 74 | 360 | 283 | 78 | 6 | 20-150 | 50 |
| Di-n-butylphthalate | ND | 360 | 274 | 76 | 360 | 299 | 83 | 9 | 20-150 | 50 |
| Di-n-octylphthalate | ND | 360 | 269 | 75 | 360 | 302 | 84 | 11 | 10-150 | 50 |
| Diethylphthalate | ND | 360 | 277 | 77 | 360 | 309 | 86 | 11 | 20-150 | 50 |
| Dimethylphthalate | ND | 360 | 268 | 74 | 360 | 290 | 80 | 8 | 20-150 | 50 |
| N-Nitrosodimethylamine | ND | 360 | 249 | 69 | 360 | 255 | 71 | 3 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 360 | 251 | 70 | 360 | 252 | 70 | 40-130 |
| 2-Fluorobiphenyl | 360 | 229 | 64 | 360 | 237 | 66 | 45-130 |
| Terphenyl-d14 | 360 | 301 | 83 | 360 | 305 | 85 | 45-135 |

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/13/12 13:30 |
| Sample ID: SL-002-NBZ-SB-4.5 | Date Analyzed: 03/13/12 13:30 |
| Lab Samp ID: C096-02 | Dilution Factor: 0.91 |
| Lab File ID: EC13006A | Matrix : SOIL |
| Ext Btch ID: GMC010S | % Moisture : 7.8 |
| Calib. Ref.: EC13002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 0.99 | 0.49 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.66 | 1.974 | 84.1 | 60-130 |

RL : Reporting Limit

Methanol Extraction : 03/13/12 09:57

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/13/12 14:12 |
| Sample ID: SL-002-NBZ-SB-8.0 | Date Analyzed: 03/13/12 14:12 |
| Lab Samp ID: C096-04 | Dilution Factor: 0.9 |
| Lab File ID: EC13007A | Matrix : SOIL |
| Ext Btch ID: GMC010S | % Moisture : 9.2 |
| Calib. Ref.: EC13002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 0.99 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.67 | 1.982 | 84.2 | 60-130 |

RL : Reporting Limit

Methanol Extraction : 03/13/12 09:57

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/13/12 14:54 |
| Sample ID: SL-003-NBZ-SB-4.5 | Date Analyzed: 03/13/12 14:54 |
| Lab Samp ID: C096-06 | Dilution Factor: 1.05 |
| Lab File ID: EC13008A | Matrix : SOIL |
| Ext Btch ID: GMC010S | % Moisture : 7.2 |
| Calib. Ref.: EC13002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.57 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.94 | 2.263 | 85.8 | 60-130 |

RL : Reporting Limit

Methanol Extraction : 03/13/12 09:57

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/13/12 15:36 |
| Sample ID: SL-007-NBZ-SB-4.5 | Date Analyzed: 03/13/12 15:36 |
| Lab Samp ID: C096-08 | Dilution Factor: 1.09 |
| Lab File ID: EC13009A | Matrix : SOIL |
| Ext Btch ID: GMC010S | % Moisture : 8.1 |
| Calib. Ref.: EC13002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.2 | 0.59 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.92 | 2.372 | 81.1 | 60-130 |

RL : Reporting Limit

Methanol Extraction : 03/13/12 09:57

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/13/12 16:18 |
| Sample ID: SL-007-NBZ-SB-9.5 | Date Analyzed: 03/13/12 16:18 |
| Lab Samp ID: C096-10 | Dilution Factor: 0.91 |
| Lab File ID: EC13010A | Matrix : SOIL |
| Ext Btch ID: GMC010S | % Moisture : 9.0 |
| Calib. Ref.: EC13002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.58 | 2.000 | 78.8 | 60-130 |

RL : Reporting Limit

Methanol Extraction : 03/13/12 09:57

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/13/12 17:41 |
| Sample ID: SL-010-NBZ-SB-4.5 | Date Analyzed: 03/13/12 17:41 |
| Lab Samp ID: C096-12 | Dilution Factor: 1.01 |
| Lab File ID: EC13012A | Matrix : SOIL |
| Ext Btch ID: GMC010S | % Moisture : 6.6 |
| Calib. Ref.: EC13011A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.54 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.80 | 2.163 | 83.0 | 60-130 |

RL : Reporting Limit

Methanol Extraction : 03/13/12 09:57

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C096 | Date Extracted: 03/13/12 11:24 |
| Sample ID: MBLK1S | Date Analyzed: 03/13/12 11:24 |
| Lab Samp ID: GMC010SB | Dilution Factor: 1 |
| Lab File ID: EC13003A | Matrix : SOIL |
| Ext Btch ID: GMC010S | % Moisture : NA |
| Calib. Ref.: EC13002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.76 | 2.000 | 88.0 | 60-130 |

RL : Reporting Limit

Methanol Extraction : 03/13/12 09:57

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: METHOD 5035/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | GMC010SB | GMC010SL | GMC010SC | | |
| LAB FILE ID: | EC13003A | EC13004A | EC13005A | | |
| DATE EXTRACTED: | 03/13/1211:24 | 03/13/1212:06 | 03/13/1212:48 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/13/1211:24 | 03/13/1212:06 | 03/13/1212:48 | DATE RECEIVED: | 03/13/12 |
| PREP. BATCH: | GMC010S | GMC010S | GMC010S | | |
| CALIB. REF: | EC13002A | EC13002A | EC13002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 25.0 | 23.9 | 96 | 25.0 | 24.4 | 98 | 2 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 2.00 | 2.03 | 102 | 2.00 | 2.04 | 102 | 60-130 |

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/14/12 02:46 |
| Sample ID: TB-031212 | Date Analyzed: 03/14/12 02:46 |
| Lab Samp ID: C096-13 | Dilution Factor: 1 |
| Lab File ID: EC13025A | Matrix : WATER |
| Ext Btch ID: VA39C07 | % Moisture : NA |
| Calib. Ref.: EC13021A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 20J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 34.4 | 40.00 | 86.1 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C096 | Date Extracted: 03/14/12 00:40 |
| Sample ID: MBLK1W | Date Analyzed: 03/14/12 00:40 |
| Lab Samp ID: VA39C07B | Dilution Factor: 1 |
| Lab File ID: EC13022A | Matrix : WATER |
| Ext Btch ID: VA39C07 | % Moisture : NA |
| Calib. Ref.: EC13021A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 33.9 | 40.00 | 84.7 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: METHOD 5030B/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VA39C07B | VA39C07L | VA39C07C | | |
| LAB FILE ID: | EC13022A | EC13023A | EC13024A | | |
| DATE EXTRACTED: | 03/14/1200:40 | 03/14/1201:22 | 03/14/1202:04 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/14/1200:40 | 03/14/1201:22 | 03/14/1202:04 | DATE RECEIVED: | 03/14/12 |
| PREP. BATCH: | VA39C07 | VA39C07 | VA39C07 | | |
| CALIB. REF: | EC13021A | EC13021A | EC13021A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 500 | 511 | 102 | 500 | 547 | 109 | 7 | 60-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 40.0 | 40.6 | 101 | 40.0 | 41.3 | 103 | 60-130 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/13/12 10:25 |
| Sample ID: SL-002-NBZ-SB-4.0-5.0 | Date Analyzed: 03/13/12 14:48 |
| Lab Samp ID: C096-01 | Dilution Factor: 1 |
| Lab File ID: BC13010A | Matrix : SOIL |
| Ext Btch ID: MEC001S | % Moisture : 7.5 |
| Calib. Ref.: BC13006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 540 | 270 |
| ISOPROPANOL | ND | 540 | 270 |
| METHANOL | ND | 540 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/13/12 10:25 |
| Sample ID: SL-002-NBZ-SB-7.5-8.5 | Date Analyzed: 03/13/12 15:06 |
| Lab Samp ID: C096-03 | Dilution Factor: 1 |
| Lab File ID: BC13011A | Matrix : SOIL |
| Ext Btch ID: MEC001S | % Moisture : 7.5 |
| Calib. Ref.: BC13006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 540 | 270 |
| ISOPROPANOL | ND | 540 | 270 |
| METHANOL | ND | 540 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/13/12 10:25 |
| Sample ID: SL-003-NBZ-SB-4.0-5.0 | Date Analyzed: 03/13/12 15:22 |
| Lab Samp ID: C096-05 | Dilution Factor: 1 |
| Lab File ID: BC13012A | Matrix : SOIL |
| Ext Btch ID: MEC001S | % Moisture : 5.4 |
| Calib. Ref.: BC13006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 530 | 260 |
| ISOPROPANOL | ND | 530 | 260 |
| METHANOL | ND | 530 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/13/12 10:25 |
| Sample ID: SL-007-NBZ-SB-4.0-5.0 | Date Analyzed: 03/13/12 15:38 |
| Lab Samp ID: C096-07 | Dilution Factor: 1 |
| Lab File ID: BC13013A | Matrix : SOIL |
| Ext Btch ID: MEC001S | % Moisture : 8.1 |
| Calib. Ref.: BC13006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 540 | 270 |
| ISOPROPANOL | ND | 540 | 270 |
| METHANOL | ND | 540 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/13/12 10:25 |
| Sample ID: SL-007-NBZ-SB-9.0-10.0 | Date Analyzed: 03/13/12 15:53 |
| Lab Samp ID: C096-09 | Dilution Factor: 1 |
| Lab File ID: BC13014A | Matrix : SOIL |
| Ext Btch ID: MEC001S | % Moisture : 8.4 |
| Calib. Ref.: BC13006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 550 | 270 |
| ISOPROPANOL | ND | 550 | 270 |
| METHANOL | ND | 550 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/13/12 10:25 |
| Sample ID: SL-010-NBZ-SB-4.0-5.0 | Date Analyzed: 03/13/12 16:12 |
| Lab Samp ID: C096-11 | Dilution Factor: 1 |
| Lab File ID: BC13015A | Matrix : SOIL |
| Ext Btch ID: MEC001S | % Moisture : 7.3 |
| Calib. Ref.: BC13006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 540 | 270 |
| ISOPROPANOL | ND | 540 | 270 |
| METHANOL | ND | 540 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/13/12 10:25 |
| Sample ID: SL-002-NBZ-SB-0.0-0.5 | Date Analyzed: 03/13/12 16:29 |
| Lab Samp ID: C096-14 | Dilution Factor: 1 |
| Lab File ID: BC13016A | Matrix : SOIL |
| Ext Btch ID: MEC001S | % Moisture : 3.2 |
| Calib. Ref.: BC13006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/13/12 10:25 |
| Sample ID: SL-003-NBZ-SB-0.0-0.5 | Date Analyzed: 03/13/12 16:43 |
| Lab Samp ID: C096-15 | Dilution Factor: 1 |
| Lab File ID: BC13017A | Matrix : SOIL |
| Ext Btch ID: MEC001S | % Moisture : 4.3 |
| Calib. Ref.: BC13006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C096 | Date Extracted: 03/13/12 10:25 |
| Sample ID: MBLK1S | Date Analyzed: 03/13/12 13:58 |
| Lab Samp ID: MEC001SB | Dilution Factor: 1 |
| Lab File ID: BC13007A | Matrix : SOIL |
| Ext Btch ID: MEC001S | % Moisture : NA |
| Calib. Ref.: BC13006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 500 | 250 |
| ISOPROPANOL | ND | 500 | 250 |
| METHANOL | ND | 500 | 250 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | MEC001SB | MEC001SL | MEC001SC | | |
| LAB FILE ID: | BC13007A | BC13008A | BC13009A | | |
| DATE EXTRACTED: | 03/13/1210:25 | 03/13/1210:25 | 03/13/1210:25 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/13/1213:58 | 03/13/1214:14 | 03/13/1214:29 | DATE RECEIVED: | 03/13/12 |
| PREP. BATCH: | MEC001S | MEC001S | MEC001S | | |
| CALIB. REF: | BC13006A | BC13006A | BC13006A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 9000 | 90 | 10000 | 8890 | 89 | 1 | 50-150 | 50 |
| Isopropanol | ND | 10000 | 8310 | 83 | 10000 | 8090 | 81 | 3 | 50-150 | 50 |
| Methanol | ND | 10000 | 7230 | 72 | 10000 | 8440 | 84 | 15 | 50-150 | 50 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 09:30 |
| Sample ID: SL-002-NBZ-SB-4.0-5.0 | Date Analyzed: 03/19/12 16:07 |
| Lab Samp ID: C096-01W | Dilution Factor: 1 |
| Lab File ID: TC19024A | Matrix : SOIL |
| Ext Btch ID: PEC001S | % Moisture : 7.5 |
| Calib. Ref.: TC19020A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.1 |
| ETHYLENE GLYCOL | ND | 11 | 5.4 |
| PROPYLENE GLYCOL | ND | 11 | 5.4 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 09:30 |
| Sample ID: SL-002-NBZ-SB-7.5-8.5 | Date Analyzed: 03/19/12 16:34 |
| Lab Samp ID: C096-03W | Dilution Factor: 1 |
| Lab File ID: TC19025A | Matrix : SOIL |
| Ext Btch ID: PEC001S | % Moisture : 7.5 |
| Calib. Ref.: TC19020A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.1 |
| ETHYLENE GLYCOL | ND | 11 | 5.4 |
| PROPYLENE GLYCOL | ND | 11 | 5.4 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/12/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/12/12 |
| Batch No. | : 12C096 | Date Extracted | : 03/15/12 09:30 |
| Sample ID | : SL-003-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/19/12 16:55 |
| Lab Samp ID | : C096-05W | Dilution Factor | : 1 |
| Lab File ID | : TC19026A | Matrix | : SOIL |
| Ext Btch ID | : PEC001S | % Moisture | : 5.4 |
| Calib. Ref. | : TC19020A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.9 |
| ETHYLENE GLYCOL | ND | 11 | 5.3 |
| PROPYLENE GLYCOL | ND | 11 | 5.3 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 09:30 |
| Sample ID: SL-007-NBZ-SB-4.0-5.0 | Date Analyzed: 03/19/12 17:22 |
| Lab Samp ID: C096-07W | Dilution Factor: 1 |
| Lab File ID: TC19027A | Matrix : SOIL |
| Ext Btch ID: PEC001S | % Moisture : 8.1 |
| Calib. Ref.: TC19020A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.2 |
| ETHYLENE GLYCOL | ND | 11 | 5.4 |
| PROPYLENE GLYCOL | ND | 11 | 5.4 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/12/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/12/12 |
| Batch No. | : 12C096 | Date Extracted | : 03/15/12 09:30 |
| Sample ID | : SL-007-NBZ-SB-9.0-10.0 | Date Analyzed | : 03/19/12 17:35 |
| Lab Samp ID | : C096-09W | Dilution Factor | : 1 |
| Lab File ID | : TC19028A | Matrix | : SOIL |
| Ext Btch ID | : PEC001S | % Moisture | : 8.4 |
| Calib. Ref. | : TC19020A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.2 |
| ETHYLENE GLYCOL | ND | 11 | 5.5 |
| PROPYLENE GLYCOL | ND | 11 | 5.5 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/12/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/12/12 |
| Batch No. | : 12C096 | Date Extracted | : 03/15/12 09:30 |
| Sample ID | : SL-010-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/19/12 11:33 |
| Lab Samp ID | : C096-11W | Dilution Factor | : 1 |
| Lab File ID | : TC19009A | Matrix | : SOIL |
| Ext Btch ID | : PEC001S | % Moisture | : 7.3 |
| Calib. Ref. | : TC19003A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.1 |
| ETHYLENE GLYCOL | ND | 11 | 5.4 |
| PROPYLENE GLYCOL | ND | 11 | 5.4 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 09:30 |
| Sample ID: SL-002-NBZ-SB-0.0-0.5 | Date Analyzed: 03/19/12 11:47 |
| Lab Samp ID: C096-14W | Dilution Factor: 1 |
| Lab File ID: TC19010A | Matrix : SOIL |
| Ext Btch ID: PEC001S | % Moisture : 3.2 |
| Calib. Ref.: TC19003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.7 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/12/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/12/12 |
| Batch No. | : 12C096 | Date Extracted | : 03/15/12 09:30 |
| Sample ID | : SL-003-NBZ-SB-0.0-0.5 | Date Analyzed | : 03/19/12 12:00 |
| Lab Samp ID | : C096-15W | Dilution Factor | : 1 |
| Lab File ID | : TC19011A | Matrix | : SOIL |
| Ext Btch ID | : PEC001S | % Moisture | : 4.3 |
| Calib. Ref. | : TC19003A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.8 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/15/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 09:30 |
| Sample ID: MBLK1S | Date Analyzed: 03/19/12 10:54 |
| Lab Samp ID: PEC001SQ | Dilution Factor: 1 |
| Lab File ID: TC19006A | Matrix : SOIL |
| Ext Btch ID: PEC001S | % Moisture : NA |
| Calib. Ref.: TC19003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.5 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 5.0 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PEC001SQ | PEC001SX | PEC001SY | | |
| LAB FILE ID: | TC19006A | TC19004A | TC19005A | | |
| DATE EXTRACTED: | 03/15/1209:30 | 03/15/1209:30 | 03/15/1209:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/19/1210:54 | 03/19/1210:11 | 03/19/1210:28 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | PEC001S | PEC001S | PEC001S | | |
| CALIB. REF: | TC19003A | TC19003A | TC19003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 46.0 | 92 | 50.0 | 45.4 | 91 | 1 | 50-150 | 50 |
| Ethylene Glycol | ND | 50.0 | 49.1 | 98 | 50.0 | 49.0 | 98 | 0 | 50-150 | 50 |
| Propylene Glycol | ND | 25.0 | 29.9 | 120 | 25.0 | 29.7 | 119 | 1 | 50-150 | 50 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/20/12 11:44 |
| Sample ID: SL-002-NBZ-SB-4.0-5.0 | Date Analyzed: 03/20/12 18:31 |
| Lab Samp ID: C096-01 | Dilution Factor: 1 |
| Lab File ID: LC20024A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : 7.5 |
| Calib. Ref.: LC20015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.58J | 1.1 | 0.54 |
| EFH(C12-C14) | ND | 1.1 | 0.54 |
| EFH(C15-C20) | ND | 1.1 | 0.54 |
| EFH(C21-C30) | ND | 1.1 | 0.54 |
| EFH(C30-C40) | ND | 1.1 | 0.54 |
| TOTAL EFH(C8-C40) | 0.58J | 1.1 | 0.54 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.02 | 10.81 | 55.7 | 50-150 |
| HEXACOSANE | 2.37 | 2.703 | 87.7 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/20/12 11:44 |
| Sample ID: SL-002-NBZ-SB-7.5-8.5 | Date Analyzed: 03/20/12 18:48 |
| Lab Samp ID: C096-03 | Dilution Factor: 1 |
| Lab File ID: LC20025A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : 7.5 |
| Calib. Ref.: LC20015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.54 |
| EFH(C12-C14) | ND | 1.1 | 0.54 |
| EFH(C15-C20) | ND | 1.1 | 0.54 |
| EFH(C21-C30) | ND | 1.1 | 0.54 |
| EFH(C30-C40) | ND | 1.1 | 0.54 |
| TOTAL EFH(C8-C40) | ND | 1.1 | 0.54 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.81 | 10.81 | 63.0 | 50-150 |
| HEXACOSANE | 2.27 | 2.703 | 84.0 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/20/12 11:44 |
| Sample ID: SL-003-NBZ-SB-4.0-5.0 | Date Analyzed: 03/20/12 19:05 |
| Lab Samp ID: C096-05 | Dilution Factor: 1 |
| Lab File ID: LC20026A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : 5.4 |
| Calib. Ref.: LC20015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.53J | 1.1 | 0.53 |
| EFH(C12-C14) | ND | 1.1 | 0.53 |
| EFH(C15-C20) | ND | 1.1 | 0.53 |
| EFH(C21-C30) | ND | 1.1 | 0.53 |
| EFH(C30-C40) | ND | 1.1 | 0.53 |
| TOTAL EFH(C8-C40) | 1.0J | 1.1 | 0.53 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.57 | 10.57 | 62.1 | 50-150 |
| HEXACOSANE | 2.17 | 2.643 | 82.1 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/20/12 11:44 |
| Sample ID: SL-007-NBZ-SB-4.0-5.0 | Date Analyzed: 03/20/12 19:56 |
| Lab Samp ID: C096-07 | Dilution Factor: 1 |
| Lab File ID: LC20029A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : 8.1 |
| Calib. Ref.: LC20027A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.62J | 1.1 | 0.54 |
| EFH(C12-C14) | ND | 1.1 | 0.54 |
| EFH(C15-C20) | ND | 1.1 | 0.54 |
| EFH(C21-C30) | ND | 1.1 | 0.54 |
| EFH(C30-C40) | ND | 1.1 | 0.54 |
| TOTAL EFH(C8-C40) | 0.62J | 1.1 | 0.54 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.43 | 10.88 | 68.2 | 50-150 |
| HEXACOSANE | 2.25 | 2.720 | 82.8 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/20/12 11:44 |
| Sample ID: SL-007-NBZ-SB-9.0-10.0 | Date Analyzed: 03/20/12 20:13 |
| Lab Samp ID: C096-09 | Dilution Factor: 1 |
| Lab File ID: LC20030A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : 8.4 |
| Calib. Ref.: LC20027A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.61J | 1.1 | 0.55 |
| EFH(C12-C14) | ND | 1.1 | 0.55 |
| EFH(C15-C20) | ND | 1.1 | 0.55 |
| EFH(C21-C30) | ND | 1.1 | 0.55 |
| EFH(C30-C40) | 0.74J | 1.1 | 0.55 |
| TOTAL EFH(C8-C40) | 1.4 | 1.1 | 0.55 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.72 | 10.92 | 61.5 | 50-150 |
| HEXACOSANE | 2.28 | 2.729 | 83.4 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/20/12 11:44 |
| Sample ID: SL-010-NBZ-SB-4.0-5.0 | Date Analyzed: 03/20/12 20:30 |
| Lab Samp ID: C096-11 | Dilution Factor: 1 |
| Lab File ID: LC20031A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : 7.3 |
| Calib. Ref.: LC20027A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.55J | 1.1 | 0.54 |
| EFH(C12-C14) | ND | 1.1 | 0.54 |
| EFH(C15-C20) | ND | 1.1 | 0.54 |
| EFH(C21-C30) | ND | 1.1 | 0.54 |
| EFH(C30-C40) | ND | 1.1 | 0.54 |
| TOTAL EFH(C8-C40) | 0.55J | 1.1 | 0.54 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.46 | 10.79 | 69.2 | 50-150 |
| HEXACOSANE | 2.18 | 2.697 | 80.9 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/20/12 11:44 |
| Sample ID: SL-002-NBZ-SB-0.0-0.5 | Date Analyzed: 03/20/12 20:47 |
| Lab Samp ID: C096-14 | Dilution Factor: 1 |
| Lab File ID: LC20032A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : 3.2 |
| Calib. Ref.: LC20027A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.52J | 1.0 | 0.52 |
| EFH(C12-C14) | ND | 1.0 | 0.52 |
| EFH(C15-C20) | 0.81J | 1.0 | 0.52 |
| EFH(C21-C30) | 2.7 | 1.0 | 0.52 |
| EFH(C30-C40) | 9.8 | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | 14 | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.18 | 10.33 | 69.5 | 50-150 |
| HEXACOSANE | 2.17 | 2.583 | 84.1 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/20/12 11:44 |
| Sample ID: SL-003-NBZ-SB-0.0-0.5 | Date Analyzed: 03/20/12 21:04 |
| Lab Samp ID: C096-15 | Dilution Factor: 1 |
| Lab File ID: LC20033A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : 4.3 |
| Calib. Ref.: LC20027A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.56J | 1.0 | 0.52 |
| EFH(C12-C14) | ND | 1.0 | 0.52 |
| EFH(C15-C20) | 0.56J | 1.0 | 0.52 |
| EFH(C21-C30) | 3.2 | 1.0 | 0.52 |
| EFH(C30-C40) | 12 | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | 16 | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.43 | 10.45 | 71.1 | 50-150 |
| HEXACOSANE | 2.47 | 2.612 | 94.4 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C096 | Date Extracted: 03/20/12 11:44 |
| Sample ID: MBLK1S | Date Analyzed: 03/20/12 18:15 |
| Lab Samp ID: DSC021SB | Dilution Factor: 1 |
| Lab File ID: LC20023A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : NA |
| Calib. Ref.: LC20015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 5.94 | 10.00 | 59.4 | 50-150 |
| HEXACOSANE | 1.95 | 2.500 | 78.0 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSC021SB | DSC021SL | DSC021SC | | |
| LAB FILE ID: | LC20023A | LC20021A | LC20022A | | |
| DATE EXTRACTED: | 03/20/1211:44 | 03/20/1211:44 | 03/20/1211:44 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/20/1218:15 | 03/20/1217:41 | 03/20/1217:58 | DATE RECEIVED: | 03/20/12 |
| PREP. BATCH: | DSC021S | DSC021S | DSC021S | | |
| CALIB. REF: | LC20015A | LC20015A | LC20015A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 42.5 | 85 | 50.0 | 36.4 | 73 | 15 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 6.44 | 64 | 10.0 | 6.45 | 65 | 50-150 |
| Hexacosane | 2.50 | 2.19 | 88 | 2.50 | 2.16 | 86 | 50-150 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: METHOD 3550B/8015B EFH

MATRIX: SOIL % MOISTURE: 4.3

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-003-NBZ-SB-0.0-0.5 | | | | |
| LAB SAMP ID: | C096-15 | C096-15M | C096-15S | | |
| LAB FILE ID: | LC20033A | LC20034A | LC20035A | | |
| DATE EXTRACTED: | 03/20/1211:44 | 03/20/1211:44 | 03/20/1211:44 | DATE COLLECTED: | 03/12/12 |
| DATE ANALYZED: | 03/20/1221:04 | 03/20/1221:21 | 03/20/1221:37 | DATE RECEIVED: | 03/12/12 |
| PREP. BATCH: | DSC021S | DSC021S | DSC021S | | |
| CALIB. REF: | LC20027A | LC20027A | LC20027A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | 16.3 | 52.2 | 47.3 | 59 | 52.2 | 56.5 | 77 | 18 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.4 | 7.63 | 73 | 10.4 | 7.47 | 71 | 50-150 |
| Hexacosane | 2.61 | 2.26 | 87 | 2.61 | 2.19 | 84 | 50-150 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/17/12 11:01 |
| Sample ID: SL-002-NBZ-SB-0.0-0.5 | Date Analyzed: 03/20/12 19:14 |
| Lab Samp ID: C096-14 | Dilution Factor: 1 |
| Lab File ID: LC20020A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : 3.2 |
| Calib. Ref.: LC20013A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.52 | 0.18 | 0.088\|0.088 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.18 | 0.088\|0.088 |
| BETA-BHC | (ND)\|ND | 0.18 | 0.088\|0.088 |
| HEPTACHLOR | (0.44)\|0.29 | 0.18 | 0.088\|0.088 |
| DELTA-BHC | (ND)\|ND | 0.18 | 0.088\|0.088 |
| ALDRIN | (ND)\|ND | 0.18 | 0.088\|0.088 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.18 | 0.088\|0.088 |
| ENDOSULFAN I | (ND)\|ND | 0.18 | 0.088\|0.088 |
| 4,4'-DDE | (0.52)\|0.41 | 0.35 | 0.18\|0.18 |
| DIELDRIN | 0.35\|(ND) | 0.35 | 0.18\|0.18 |
| ENDRIN | (ND)\|ND | 0.35 | 0.18\|0.18 |
| 4,4'-DDD | (ND)\|ND | 0.35 | 0.18\|0.18 |
| ENDOSULFAN II | 0.20J\|(ND) | 0.35 | 0.18\|0.18 |
| 4,4'-DDT | (ND)\|1.7 | 0.35 | 0.18\|0.18 |
| ENDRIN ALDEHYDE | 0.26J\|(ND) | 0.35 | 0.18\|0.18 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.35 | 0.18\|0.18 |
| ENDRIN KETONE | (ND)\|ND | 0.35 | 0.18\|0.18 |
| METHOXYCHLOR | (ND)\|ND | 1.8 | 0.88\|0.88 |
| MIREX | (ND)\|ND | 0.35 | 0.18\|0.18 |
| TOXAPHENE | (ND)\|ND | 6.8 | 3.4\|3.4 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.848\|(5.167) | 5.509 | 88.0\|(93.8) | 50-130 |
| DECACHLOROBIPHENYL | 5.499\|(5.515) | 5.509 | 99.8\|(100) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/17/12 11:01 |
| Sample ID: SL-003-NBZ-SB-0.0-0.5 | Date Analyzed: 03/20/12 19:37 |
| Lab Samp ID: C096-15 | Dilution Factor: 1 |
| Lab File ID: LC20021A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : 4.3 |
| Calib. Ref.: LC20013A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.12J | 0.18 | 0.089\|0.089 |
| GAMMA-BHC (LINDANE) | (ND)\|0.12J | 0.18 | 0.089\|0.089 |
| BETA-BHC | (ND)\|ND | 0.18 | 0.089\|0.089 |
| HEPTACHLOR | (0.34)\|0.28 | 0.18 | 0.089\|0.089 |
| DELTA-BHC | (ND)\|ND | 0.18 | 0.089\|0.089 |
| ALDRIN | (ND)\|ND | 0.18 | 0.089\|0.089 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.18 | 0.089\|0.089 |
| ENDOSULFAN I | (ND)\|ND | 0.18 | 0.089\|0.089 |
| 4,4'-DDE | 0.28J\|(ND) | 0.36 | 0.18\|0.18 |
| DIELDRIN | (ND)\|ND | 0.36 | 0.18\|0.18 |
| ENDRIN | (ND)\|ND | 0.36 | 0.18\|0.18 |
| 4,4'-DDD | (ND)\|ND | 0.36 | 0.18\|0.18 |
| ENDOSULFAN II | (ND)\|ND | 0.36 | 0.18\|0.18 |
| 4,4'-DDT | (ND)\|0.26J | 0.36 | 0.18\|0.18 |
| ENDRIN ALDEHYDE | 0.28J\|(ND) | 0.36 | 0.18\|0.18 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.36 | 0.18\|0.18 |
| ENDRIN KETONE | (ND)\|ND | 0.36 | 0.18\|0.18 |
| METHOXYCHLOR | 1.7J\|(ND) | 1.8 | 0.89\|0.89 |
| MIREX | (ND)\|0.21J | 0.36 | 0.18\|0.18 |
| TOXAPHENE | (ND)\|ND | 6.9 | 3.4\|3.4 |
| CHLORDANE (TECHNICAL) | (ND)\|1.9J | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.604\|(5.329) | 5.573 | 82.6\|(95.6) | 50-130 |
| DECACHLOROBIPHENYL | 5.063\|(5.589) | 5.573 | 90.9\|(100) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/17/12 |
| Batch No. : 12C096 | Date Extracted: 03/17/12 11:01 |
| Sample ID: MBLK1S | Date Analyzed: 03/20/12 18:06 |
| Lab Samp ID: CPC016SB | Dilution Factor: 1 |
| Lab File ID: LC20017A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : NA |
| Calib. Ref.: LC20013A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.529\|(4.601) | 5.333 | 84.9\|(86.3) | 50-130 |
| DECACHLOROBIPHENYL | 5.343\|(5.390) | 5.333 | 100\|(101) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPC016SB CPC016SL CPC016SC
LAB FILE ID: LC20017A LC20018A LC20019A
DATE EXTRACTED: 03/17/1211:01 03/17/1211:01 03/17/1211:01 DATE COLLECTED: NA
DATE ANALYZED: 03/20/1218:06 03/20/1218:29 03/20/1218:52 DATE RECEIVED: 03/17/12
PREP. BATCH: CPC016S CPC016S CPC016S
CALIB. REF: LC20013A LC20013A LC20013A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 2.67 | 2.93\|(3.12) | 110\|(117) | 2.67 | 2.65\|(2.81) | 99\|(105) | 10\|(10) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|ND | 2.67 | 2.88\|(3.12) | 108\|(117) | 2.67 | 2.61\|(2.82) | 98\|(106) | 10\|(10) | 40-130 | 50 |
| beta-BHC | (ND)\|ND | 2.67 | 3.00\|(3.20) | 112\|(120) | 2.67 | 2.80\|(2.94) | 105\|(110) | 7\|(8) | 50-140 | 50 |
| Heptachlor | (ND)\|ND | 2.67 | 2.78\|(2.95) | 104\|(110) | 2.67 | 2.56\|(2.70) | 96\|(101) | 8\|(9) | 30-130 | 50 |
| delta-BHC | (ND)\|ND | 2.67 | 3.27\|(3.61) | 122\|(135) | 2.67 | 2.97\|(3.28) | 111\|(123) | 10\|(10) | 30-150 | 50 |
| Aldrin | (ND)\|ND | 2.67 | 2.51\|(2.70) | 94\|(101) | 2.67 | 2.34\|(2.49) | 88\|(93) | 7\|(8) | 30-130 | 50 |
| Heptachlor Epoxide | (ND)\|ND | 2.67 | 2.81\|(3.02) | 105\|(113) | 2.67 | 2.56\|(2.77) | 96\|(104) | 9\|(9) | 60-140 | 50 |
| Endosulfan I | (ND)\|ND | 2.67 | 2.65\|(2.99) | 99\|(112) | 2.67 | 2.43\|(2.75) | 91\|(103) | 9\|(8) | 50-150 | 50 |
| 4,4'-DDE | (ND)\|ND | 2.67 | 3.06\|(3.40) | 115\|(127) | 2.67 | 2.80\|(3.14) | 105\|(118) | 9\|(8) | 50-150 | 50 |
| Dieldrin | (ND)\|ND | 2.67 | 2.99\|(3.15) | 112\|(118) | 2.67 | 2.71\|(2.92) | 101\|(109) | 10\|(8) | 60-130 | 50 |
| Endrin | (ND)\|ND | 2.67 | 3.23\|(3.31) | 121\|(124) | 2.67 | 2.93\|(3.06) | 110\|(115) | 10\|(8) | 50-140 | 50 |
| 4,4'-DDD | (ND)\|ND | 2.67 | 3.52\|(3.88) | 132\|(145) | 2.67 | 3.18\|(3.67) | 119\|(137) | 10\|(6) | 50-160 | 50 |
| Endosulfan II | (ND)\|ND | 2.67 | 3.07\|(3.30) | 115\|(124) | 2.67 | 2.84\|(3.10) | 106\|(116) | 8\|(6) | 60-150 | 50 |
| 4,4'-DDT | (ND)\|ND | 2.67 | 3.74\|(3.55) | 140*\|(133) | 2.67 | 3.47\|(3.34) | 130\|(125) | 7\|(6) | 60-140 | 50 |
| Endrin aldehyde | (ND)\|ND | 2.67 | 2.98\|(3.25) | 112\|(122) | 2.67 | 2.86\|(3.15) | 107\|(118) | 4\|(3) | 50-160 | 50 |
| Endosulfan Sulfate | (ND)\|ND | 2.67 | 3.03\|(3.19) | 113\|(119) | 2.67 | 2.86\|(3.02) | 107\|(113) | 6\|(5) | 70-140 | 50 |
| Endrin Ketone | (ND)\|ND | 2.67 | 3.09\|(3.28) | 116\|(123) | 2.67 | 2.94\|(3.09) | 110\|(116) | 5\|(6) | 70-160 | 50 |
| Methoxychlor | (ND)\|ND | 26.7 | (35.3)\|40.7 | (132)\|152* | 26.7 | (33.9)\|38.9 | (127)\|146* | (4)\|5 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 4.817\|(4.863) | 90.3\|(91.2) | 5.333 | 4.585\|(4.623) | 86.0\|(86.7) | 50-130 |
| Decachlorobiphenyl | 5.333 | 5.569\|(5.721) | 104\|(107) | 5.333 | 5.534\|(5.735) | 104\|(108) | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/19/12 15:02 |
| Sample ID: SL-002-NBZ-SB-4.0-5.0 | Date Analyzed: 03/22/12 00:45 |
| Lab Samp ID: C096-01 | Dilution Factor: 1 |
| Lab File ID: KC21029A | Matrix : SOIL |
| Ext Btch ID: CPC020S | % Moisture : 7.5 |
| Calib. Ref.: KC21021A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.821)\|4.516 | 5.765 | (101)\|78.3 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.366)\|4.302 | 5.765 | (93.1)\|74.6 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/19/12 15:02 |
| Sample ID: SL-002-NBZ-SB-7.5-8.5 | Date Analyzed: 03/22/12 01:41 |
| Lab Samp ID: C096-03 | Dilution Factor: 1 |
| Lab File ID: KC21030A | Matrix : SOIL |
| Ext Btch ID: CPC020S | % Moisture : 7.5 |
| Calib. Ref.: KC21021A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.706)\|4.417 | 5.765 | (99.0)\|76.6 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.449)\|3.760 | 5.765 | (94.5)\|65.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/19/12 15:02 |
| Sample ID: SL-003-NBZ-SB-4.0-5.0 | Date Analyzed: 03/22/12 02:36 |
| Lab Samp ID: C096-05 | Dilution Factor: 1 |
| Lab File ID: KC21031A | Matrix : SOIL |
| Ext Btch ID: CPC020S | % Moisture : 5.4 |
| Calib. Ref.: KC21021A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.898)\|4.462 | 5.637 | (105)\|79.1 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.200)\|3.931 | 5.637 | (110)\|69.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/19/12 15:02 |
| Sample ID: SL-007-NBZ-SB-4.0-5.0 | Date Analyzed: 03/22/12 03:31 |
| Lab Samp ID: C096-07 | Dilution Factor: 1 |
| Lab File ID: KC21032A | Matrix : SOIL |
| Ext Btch ID: CPC020S | % Moisture : 8.1 |
| Calib. Ref.: KC21021A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.816)\|4.514 | 5.803 | (100)\|77.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.642)\|4.308 | 5.803 | (97.2)\|74.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/19/12 15:02 |
| Sample ID: SL-007-NBZ-SB-9.0-10.0 | Date Analyzed: 03/22/12 04:26 |
| Lab Samp ID: C096-09 | Dilution Factor: 1 |
| Lab File ID: KC21033A | Matrix : SOIL |
| Ext Btch ID: CPC020S | % Moisture : 8.4 |
| Calib. Ref.: KC21021A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.804)\|4.543 | 5.822 | (99.7)\|78.0 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.672)\|4.269 | 5.822 | (97.4)\|73.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/19/12 15:02 |
| Sample ID: SL-010-NBZ-SB-4.0-5.0 | Date Analyzed: 03/22/12 05:22 |
| Lab Samp ID: C096-11 | Dilution Factor: 1 |
| Lab File ID: KC21034A | Matrix : SOIL |
| Ext Btch ID: CPC020S | % Moisture : 7.3 |
| Calib. Ref.: KC21021A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.744)\|4.442 | 5.753 | (99.9)\|77.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.378)\|4.190 | 5.753 | (111)\|72.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/19/12 15:02 |
| Sample ID: SL-002-NBZ-SB-0.0-0.5 | Date Analyzed: 03/22/12 06:17 |
| Lab Samp ID: C096-14 | Dilution Factor: 1 |
| Lab File ID: KC21035A | Matrix : SOIL |
| Ext Btch ID: CPC020S | % Moisture : 3.2 |
| Calib. Ref.: KC21021A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (NDS)\|NDS | 1.8 | 0.88\|0.88 |
| AROCLOR 1221 | (NDS)\|NDS | 1.8 | 0.88\|0.88 |
| AROCLOR 1232 | (NDS)\|NDS | 1.8 | 0.88\|0.88 |
| AROCLOR 1242 | (NDS)\|NDS | 1.8 | 0.88\|0.88 |
| AROCLOR 1248 | (NDS)\|NDS | 1.8 | 0.88\|0.88 |
| AROCLOR 1254 | 9.7S\|(7.5S) | 1.8 | 0.88\|0.88 |
| AROCLOR 1260 | (4.0S)\|10S | 1.8 | 0.88\|0.88 |
| AROCLOR 1262 | (NDS)\|NDS | 1.8 | 0.88\|0.88 |
| AROCLOR 1268 | (NDS)\|NDS | 1.8 | 0.88\|0.88 |
| AROCLOR 5432 | (NDS)\|NDS | 3.4 | 1.8\|1.8 |
| AROCLOR 5442 | (NDS)\|NDS | 3.4 | 1.8\|1.8 |
| AROCLOR 5460 | (NDS)\|NDS | 3.4 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.566)\|4.203 | 5.509 | (101)\|76.3 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.960)\|3.898 | 5.509 | (108)\|70.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/19/12 15:02 |
| Sample ID: SL-003-NBZ-SB-0.0-0.5 | Date Analyzed: 03/22/12 07:12 |
| Lab Samp ID: C096-15 | Dilution Factor: 1 |
| Lab File ID: KC21036A | Matrix : SOIL |
| Ext Btch ID: CPC020S | % Moisture : 4.3 |
| Calib. Ref.: KC21021A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (NDS)\|NDS | 1.8 | 0.89\|0.89 |
| AROCLOR 1221 | (NDS)\|NDS | 1.8 | 0.89\|0.89 |
| AROCLOR 1232 | (NDS)\|NDS | 1.8 | 0.89\|0.89 |
| AROCLOR 1242 | (NDS)\|NDS | 1.8 | 0.89\|0.89 |
| AROCLOR 1248 | (NDS)\|NDS | 1.8 | 0.89\|0.89 |
| AROCLOR 1254 | (NDS)\|NDS | 1.8 | 0.89\|0.89 |
| AROCLOR 1260 | (NDS)\|NDS | 1.8 | 0.89\|0.89 |
| AROCLOR 1262 | (NDS)\|NDS | 1.8 | 0.89\|0.89 |
| AROCLOR 1268 | (NDS)\|NDS | 1.8 | 0.89\|0.89 |
| AROCLOR 5432 | (NDS)\|NDS | 3.4 | 1.8\|1.8 |
| AROCLOR 5442 | (NDS)\|NDS | 3.4 | 1.8\|1.8 |
| AROCLOR 5460 | (NDS)\|NDS | 3.4 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.725)\|4.372 | 5.573 | (103)\|78.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.811)\|4.044 | 5.573 | (104)\|72.6 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C096 | Date Extracted: 03/19/12 15:02 |
| Sample ID: MBLK1S | Date Analyzed: 03/21/12 21:59 |
| Lab Samp ID: 60C020SB | Dilution Factor: 1 |
| Lab File ID: KC21026A | Matrix : SOIL |
| Ext Btch ID: CPC020S | % Moisture : NA |
| Calib. Ref.: KC21021A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.381)\|4.151 | 5.333 | (101)\|77.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.184)\|4.771 | 5.333 | (97.2)\|89.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60C020SB | 60C020SL | 60C020SC | | |
| LAB FILE ID: | KC21026A | KC21027A | KC21028A | | |
| DATE EXTRACTED: | 03/19/1215:02 | 03/19/1215:02 | 03/19/1215:02 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/21/1221:59 | 03/21/1222:55 | 03/21/1223:50 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | CPC020S | CPC020S | CPC020S | | |
| CALIB. REF: | KC21021A | KC21021A | KC21021A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (53.8)\|48.7 | (81)\|73 | 66.7 | (55.6)\|49.4 | (83)\|74 | (3)\|1 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (65.8)\|57.6 | (99)\|86 | 66.7 | (69.0)\|58.9 | (103)\|88 | (5)\|2 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | (62.4)\|60.9 | (94)\|91 | 66.7 | (69.1)\|67.7 | (104)\|102 | (10)\|11 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | (5.407)\|4.159 | (101)\|78.0 | 5.333 | (5.630)\|4.340 | (106)\|81.4 | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (5.328)\|4.721 | (99.9)\|88.5 | 5.333 | (5.616)\|4.939 | (105)\|92.6 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/24/12 10:54 |
| Sample ID: SL-002-NBZ-SB-0.0-0.5 | Date Analyzed: 03/26/12 21:57 |
| Lab Samp ID: C096-14 | Dilution Factor: 1 |
| Lab File ID: WC26020A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : 3.2 |
| Calib. Ref.: WC26016A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | 12 \| (ND) | 3.7 | 1.9 \| 1.9 |
| 2,4-DB | (ND) \| ND | 1.8 | 0.88 \| 0.88 |
| 2,4,5-T | 0.48 \| (ND) | 0.18 | 0.088 \| 0.088 |
| 2,4,5-TP(SILVEX) | 0.58 \| (ND) | 0.18 | 0.088 \| 0.088 |
| DALAPON | 5.2J \| (ND) | 9.3 | 4.6 \| 4.6 |
| DICAMBA | (ND) \| ND | 1.2 | 0.62 \| 0.62 |
| DICHLOROPROP | 1.6J \| (ND) | 2.5 | 1.2 \| 1.2 |
| DINOSEB | (ND) \| ND | 1.8 | 0.88 \| 0.88 |
| MCPA | 1100 \| (ND) | 260 | 130 \| 130 |
| MCPP | (ND) \| 430 | 260 | 130 \| 130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (77.11) \| 66.55 | 155.0 | (49.8) \| 42.9 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/24/12 10:54 |
| Sample ID: SL-003-NBZ-SB-0.0-0.5 | Date Analyzed: 03/26/12 22:17 |
| Lab Samp ID: C096-15 | Dilution Factor: 1 |
| Lab File ID: WC26021A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : 4.3 |
| Calib. Ref.: WC26016A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | 15\|(ND) | 3.8 | 1.9\|1.9 |
| 2,4-DB | (ND)\|ND | 1.8 | 0.89\|0.89 |
| 2,4,5-T | (ND)\|ND | 0.18 | 0.089\|0.089 |
| 2,4,5-TP(SILVEX) | 0.56\|(ND) | 0.18 | 0.089\|0.089 |
| DALAPON | (ND)\|ND | 9.4 | 4.7\|4.7 |
| DICAMBA | (ND)\|0.81J | 1.3 | 0.63\|0.63 |
| DICHLOROPROP | (ND)\|6.2 | 2.5 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.8 | 0.89\|0.89 |
| MCPA | (ND)\|1900 | 260 | 130\|130 |
| MCPP | (ND)\|ND | 260 | 130\|130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (56.75)\|46.96 | 156.7 | (36.2)\|30.0 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/24/12 |
| Batch No. : 12C096 | Date Extracted: 03/24/12 10:54 |
| Sample ID: MBLK1S | Date Analyzed: 03/26/12 20:56 |
| Lab Samp ID: HEC010SB | Dilution Factor: 1 |
| Lab File ID: WC26017A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : NA |
| Calib. Ref.: WC26016A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (94.05)\|83.92 | 150.0 | (62.7)\|55.9 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HEC010SB | HEC010SL | HEC010SC | | |
| LAB FILE ID: | WC26017A | WC26018A | WC26019A | | |
| DATE EXTRACTED: | 03/24/1210:54 | 03/24/1210:54 | 03/24/1210:54 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/26/1220:56 | 03/26/1221:16 | 03/26/1221:36 | DATE RECEIVED: | 03/24/12 |
| PREP. BATCH: | HEC010S | HEC010S | HEC010S | | |
| CALIB. REF: | WC26016A | WC26016A | WC26016A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | (6.24)\|5.21 | (42)\|35 | 15.0 | (6.67)\|6.36 | (44)\|42 | (7)\|20 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | (6.56)\|11.2 | (44)\|75 | 15.0 | (7.46)\|13.4 | (50)\|89 | (13)\|18 | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | (9.58)\|10.5 | (64)\|70 | 15.0 | (10.6)\|12.8 | (71)\|85 | (10)\|20 | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 15.0 | (16.2)\|13.6 | (108)\|91 | 15.0 | (15.5)\|18.1 | (103)\|121 | (4)\|28 | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | (10.4)\|9.77 | (69)\|65 | 15.0 | (10.7)\|9.82 | (71)\|65 | (3)\|1 | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (10.6)\|10.1 | (71)\|67 | 15.0 | (11.4)\|11.0 | (76)\|73 | (7)\|9 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | (13.0)\|31.4 | (87)\|209* | 15.0 | (13.5)\|33.0 | (90)\|220* | (4)\|5 | 60-160 | 50 |
| Dinoseb | (ND)\|ND | 15.0 | (11.6)\|10.5 | (77)\|70 | 15.0 | (11.9)\|10.6 | (79)\|71 | (3)\|1 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (805)\|377 | (107)\|50 | 750 | (988)\|394 | (132)\|53 | (20)\|4 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | 355\|(526) | 47\|(70) | 750 | 368\|(562) | 49\|(75) | 4\|(7) | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 (108.8)\|99.46 | (72.5)\|66.3 | 150.0 | (113.9)\|103.9 | (75.9)\|69.2 | 10-150 | |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 16:33 |
| Sample ID: SL-002-NBZ-SB-4.0-5.0 | Date Analyzed: 03/16/12 13:44 |
| Lab Samp ID: C096-01 | Dilution Factor: 1 |
| Lab File ID: XC16007A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: XC16003A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1850 | 2000 | 92.4 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 16:33 |
| Sample ID: SL-002-NBZ-SB-7.5-8.5 | Date Analyzed: 03/16/12 15:26 |
| Lab Samp ID: C096-03 | Dilution Factor: 1 |
| Lab File ID: XC16010A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: XC16003A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1820 | 2000 | 90.8 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 16:33 |
| Sample ID: SL-003-NBZ-SB-4.0-5.0 | Date Analyzed: 03/16/12 16:00 |
| Lab Samp ID: C096-05 | Dilution Factor: 1 |
| Lab File ID: XC16011A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: XC16003A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1780 | 2000 | 89.1 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 16:33 |
| Sample ID: SL-007-NBZ-SB-4.0-5.0 | Date Analyzed: 03/16/12 16:34 |
| Lab Samp ID: C096-07 | Dilution Factor: 1 |
| Lab File ID: XC16012A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: XC16003A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1800 | 2000 | 90.1 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 16:33 |
| Sample ID: SL-007-NBZ-SB-9.0-10.0 | Date Analyzed: 03/16/12 17:08 |
| Lab Samp ID: C096-09 | Dilution Factor: 1 |
| Lab File ID: XC16013A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: XC16003A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1800 | 2000 | 89.8 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 16:33 |
| Sample ID: SL-010-NBZ-SB-4.0-5.0 | Date Analyzed: 03/16/12 18:16 |
| Lab Samp ID: C096-11 | Dilution Factor: 1 |
| Lab File ID: XC16015A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: XC16014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1810 | 2000 | 90.4 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 16:33 |
| Sample ID: SL-002-NBZ-SB-0.0-0.5 | Date Analyzed: 03/16/12 18:50 |
| Lab Samp ID: C096-14 | Dilution Factor: 1 |
| Lab File ID: XC16016A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: XC16014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1820 | 2000 | 90.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 16:33 |
| Sample ID: SL-003-NBZ-SB-0.0-0.5 | Date Analyzed: 03/16/12 19:25 |
| Lab Samp ID: C096-15 | Dilution Factor: 1 |
| Lab File ID: XC16017A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: XC16014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1750 | 2000 | 87.5 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/15/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 16:33 |
| Sample ID: MBLK1S | Date Analyzed: 03/16/12 12:02 |
| Lab Samp ID: EXC008SB | Dilution Factor: 1 |
| Lab File ID: XC16004A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: XC16003A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1840 | 2000 | 91.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXC008SB | EXC008SL | EXC008SC | | |
| LAB FILE ID: | XC16004A | XC16005A | XC16006A | | |
| DATE EXTRACTED: | 03/15/1216:33 | 03/15/1216:33 | 03/15/1216:33 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/16/1212:02 | 03/16/1212:36 | 03/16/1213:10 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | EXC008S | EXC008S | EXC008S | | |
| CALIB. REF: | XC16003A | XC16003A | XC16003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 2080 | 104 | 2000 | 2120 | 106 | 2 | 70-130 | 50 |
| RDX | ND | 2000 | 2120 | 106 | 2000 | 2110 | 105 | 1 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2350 | 117 | 2000 | 2350 | 117 | 0 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2160 | 108 | 2000 | 2100 | 105 | 3 | 70-130 | 50 |
| Tetryl | ND | 2000 | 2460 | 123 | 2000 | 2440 | 122 | 1 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 1880 | 94 | 2000 | 1920 | 96 | 2 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 2190 | 110 | 2000 | 2190 | 109 | 0 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 2110 | 105 | 2000 | 2160 | 108 | 2 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 2080 | 104 | 2000 | 2090 | 105 | 0 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2330 | 116 | 2000 | 2270 | 113 | 3 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2260 | 113 | 2000 | 2210 | 111 | 2 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 2170 | 108 | 2000 | 2180 | 109 | 1 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 2140 | 107 | 2000 | 2140 | 107 | 0 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 2060 | 103 | 2000 | 2020 | 101 | 2 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1820 | 91 | 2000 | 1780 | 89 | 2 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2120 | 106 | 2000 | 2120 | 106 | 0 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1860 | 93 | 2000 | 1880 | 94 | 65-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | .99 | .99 | | |
| SAMPLE ID: | SL-002-NBZ-SB-4.0-5.0 | | | | |
| LAB SAMP ID: | C096-01 | C096-01M | C096-01S | | |
| LAB FILE ID: | XC16007A | XC16008A | XC16009A | | |
| DATE EXTRACTED: | 03/15/1216:33 | 03/15/1216:33 | 03/15/1216:33 | DATE COLLECTED: | 03/12/12 |
| DATE ANALYZED: | 03/16/1213:44 | 03/16/1214:18 | 03/16/1214:52 | DATE RECEIVED: | 03/12/12 |
| PREP. BATCH: | EXC008S | EXC008S | EXC008S | | |
| CALIB. REF: | XC16003A | XC16003A | XC16003A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 1980 | 2090 | 105 | 1980 | 2030 | 102 | 3 | 70-130 | 50 |
| RDX | ND | 1980 | 2010 | 102 | 1980 | 2010 | 101 | 0 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 1980 | 2280 | 115 | 1980 | 2310 | 117 | 1 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 1980 | 2080 | 105 | 1980 | 2050 | 104 | 1 | 70-130 | 50 |
| Tetryl | ND | 1980 | 2390 | 121 | 1980 | 2360 | 119 | 2 | 60-130 | 50 |
| Nitrobenzene | ND | 1980 | 1890 | 95 | 1980 | 1850 | 93 | 2 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 1980 | 2100 | 106 | 1980 | 2070 | 104 | 2 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 1980 | 2180 | 110 | 1980 | 2170 | 110 | 0 | 70-140 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 1980 | 2070 | 105 | 1980 | 2090 | 106 | 1 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 1980 | 2220 | 112 | 1980 | 2170 | 110 | 2 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 1980 | 2190 | 111 | 1980 | 2180 | 110 | 1 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 1980 | 2380 | 120 | 1980 | 2130 | 107 | 11 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 1980 | 1990 | 101 | 1980 | 2110 | 107 | 6 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 1980 | 2130 | 108 | 1980 | 2050 | 104 | 4 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 1980 | 1650 | 83 | 1980 | 1660 | 84 | 0 | 20-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 1980 | 2000 | 101 | 1980 | 2040 | 103 | 2 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 1980 | 1810 | 92 | 1980 | 1840 | 93 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 16:33 |
| Sample ID: SL-002-NBZ-SB-4.0-5.0 | Date Analyzed: 03/16/12 14:21 |
| Lab Samp ID: C096-01 | Dilution Factor: 1 |
| Lab File ID: PC16011A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: PC16007A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2390 | 2000 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 16:33 |
| Sample ID: SL-002-NBZ-SB-7.5-8.5 | Date Analyzed: 03/16/12 15:00 |
| Lab Samp ID: C096-03 | Dilution Factor: 1 |
| Lab File ID: PC16014A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: PC16007A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2360 | 2000 | 118 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/12/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/12/12 |
| Batch No. | : 12C096 | Date Extracted | : 03/15/12 16:33 |
| Sample ID | : SL-003-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/16/12 15:13 |
| Lab Samp ID | : C096-05 | Dilution Factor | : 1 |
| Lab File ID | : PC16015A | Matrix | : SOIL |
| Ext Btch ID | : EXC008S | % Moisture | : NA |
| Calib. Ref. | : PC16007A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2390 | 2000 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 16:33 |
| Sample ID: SL-007-NBZ-SB-4.0-5.0 | Date Analyzed: 03/16/12 15:27 |
| Lab Samp ID: C096-07 | Dilution Factor: 1 |
| Lab File ID: PC16016A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: PC16007A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2360 | 2000 | 118 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 16:33 |
| Sample ID: SL-007-NBZ-SB-9.0-10.0 | Date Analyzed: 03/16/12 15:41 |
| Lab Samp ID: C096-09 | Dilution Factor: 1 |
| Lab File ID: PC16017A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: PC16007A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2400 | 2000 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/12/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/12/12 |
| Batch No. | : 12C096 | Date Extracted | : 03/15/12 16:33 |
| Sample ID | : SL-010-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/16/12 16:09 |
| Lab Samp ID | : C096-11 | Dilution Factor | : 1 |
| Lab File ID | : PC16019A | Matrix | : SOIL |
| Ext Btch ID | : EXC008S | % Moisture | : NA |
| Calib. Ref. | : PC16018A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2320 | 2000 | 116 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/12/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/12/12 |
| Batch No. | : 12C096 | Date Extracted | : 03/15/12 16:33 |
| Sample ID | : SL-002-NBZ-SB-0.0-0.5 | Date Analyzed | : 03/16/12 16:23 |
| Lab Samp ID | : C096-14 | Dilution Factor | : 1 |
| Lab File ID | : PC16020A | Matrix | : SOIL |
| Ext Btch ID | : EXC008S | % Moisture | : NA |
| Calib. Ref. | : PC16018A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2500 | 2000 | 125 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 16:33 |
| Sample ID: SL-003-NBZ-SB-0.0-0.5 | Date Analyzed: 03/16/12 16:37 |
| Lab Samp ID: C096-15 | Dilution Factor: 1 |
| Lab File ID: PC16021A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: PC16018A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2290 | 2000 | 114 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/15/12 |
| Batch No. : 12C096 | Date Extracted: 03/15/12 16:33 |
| Sample ID: MBLK1S | Date Analyzed: 03/16/12 13:40 |
| Lab Samp ID: EXC008SB | Dilution Factor: 1 |
| Lab File ID: PC16008A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: PC16007A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2410 | 2000 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXC008SB | EXC008SX | EXC008SY | | |
| LAB FILE ID: | PC16008A | PC16009A | PC16010A | | |
| DATE EXTRACTED: | 03/15/1216:33 | 03/15/1216:33 | 03/15/1216:33 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/16/1213:40 | 03/16/1213:53 | 03/16/1214:07 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | EXC008S | EXC008S | EXC008S | | |
| CALIB. REF: | PC16007A | PC16007A | PC16007A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7740 | 103 | 7500 | 7510 | 100 | 3 | 50-150 | 50 |
| PETN | ND | 7500 | 7980 | 106 | 7500 | 8000 | 107 | 0 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2400 | 120 | 2000 | 2420 | 121 | 65-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: Method 8332

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 .99 1
SAMPLE ID: SL-002-NBZ-SB-4.0-5.0
LAB SAMP ID: C096-01 C096-01M C096-01S
LAB FILE ID: PC16011A PC16012A PC16013A
DATE EXTRACTED: 03/15/1216:33 03/15/1216:33 03/15/1216:33 DATE COLLECTED: 03/12/12
DATE ANALYZED: 03/16/1214:21 03/16/1214:32 03/16/1214:46 DATE RECEIVED: 03/12/12
PREP. BATCH: EXC008S EXC008S EXC008S
CALIB. REF: PC16007A PC16007A PC16007A

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7420 | 7690 | 104 | 7500 | 7280 | 97 | 7 | 50-150 | 50 |
| PETN | ND | 7420 | 7580 | 102 | 7500 | 7820 | 104 | 2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 1980 | 2320 | 117 | 2000 | 2360 | 118 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/12/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/12/12 |
| SDG NO. | : 12C096 | Date Extracted | : 03/16/12 10:26 |
| Sample ID | : SL-002-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/19/12 13:24 |
| Lab Samp ID | : C096-01 | Dilution Factor | : 0.976 |
| Lab File ID | : 98C06027 | Matrix | : SOIL |
| Ext Btch ID | : IMC017S | % Moisture | : 7.5 |
| Calib. Ref. | : 98C06017 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 14200 | 25.3 | 12.7 |
| Antimony | 0.139J | 0.211 | 0.106 |
| Arsenic | 4.64 | 0.422 | 0.211 |
| Barium | 84.6 | 0.422 | 0.211 |
| Beryllium | 0.594 | 0.106 | 0.0528 |
| Boron | ND | 5.28 | 2.64 |
| Cadmium | 0.150 | 0.106 | 0.0528 |
| Calcium | 2400 | 21.1 | 10.6 |
| Chromium | 14.1 | 0.422 | 0.211 |
| Cobalt | 5.14 | 0.106 | 0.0528 |
| Copper | 5.91 | 0.422 | 0.211 |
| Iron | 19900 | 21.1 | 10.6 |
| Lead | 5.29 | 0.211 | 0.106 |
| Magnesium | 4050 | 10.6 | 5.28 |
| Manganese | 247 | 0.528 | 0.264 |
| Molybdenum | 0.473 | 0.106 | 0.0528 |
| Nickel | 9.46 | 0.422 | 0.211 |
| Potassium | 1660 | 63.3 | 31.7 |
| Selenium | ND | 0.422 | 0.211 |
| Silver | 0.0559J | 0.106 | 0.0528 |
| Sodium | 56.3J | 106 | 52.8 |
| Strontium | 18.8 | 0.528 | 0.264 |
| Thallium | 0.267 | 0.106 | 0.0528 |
| Tin | ND | 10.6 | 5.28 |
| Titanium | 922 | 1.06 | 0.528 |
| Vanadium | 29.7 | 0.106 | 0.0528 |
| Zinc | 49.4 | 3.17 | 1.58 |
| Lithium | 23.0 | 2.11 | 1.06 |
| Phosphorus | 123 | 12.7 | 6.33 |
| Zirconium | ND | 5.28 | 2.64 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| SDG NO. : 12C096 | Date Extracted: 03/16/12 10:26 |
| Sample ID: SL-002-NBZ-SB-7.5-8.5 | Date Analyzed: 03/19/12 13:31 # 03/28/12 11:52 |
| Lab Samp ID: C096-03 #C096-03T | Dilution Factor: 0.995 # 4.98 |
| Lab File ID: 98C06028 #98C14020 | Matrix : SOIL |
| Ext Btch ID: IMC017S | % Moisture : 7.5 |
| Calib. Ref.: 98C06017 #98C14017 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 8440 | 25.8 | 12.9 |
| Antimony | 0.113J | 0.215 | 0.108 |
| Arsenic | 3.43 | 0.430 | 0.215 |
| Barium | 70.5 | 0.430 | 0.215 |
| Beryllium | 0.362 | 0.108 | 0.0538 |
| Boron | ND | 5.38 | 2.69 |
| Cadmium | 0.253 | 0.108 | 0.0538 |
| Calcium | 1380 | 21.5 | 10.8 |
| Chromium | 7.35 | 0.430 | 0.215 |
| Cobalt | 4.24 | 0.108 | 0.0538 |
| Copper | 3.37 | 0.430 | 0.215 |
| Iron | 15600 | 21.5 | 10.8 |
| Lead | 3.59 | 0.215 | 0.108 |
| Magnesium | 2810 | 10.8 | 5.38 |
| # Manganese | 1870 | 2.69 | 1.35 |
| Molybdenum | 0.495 | 0.108 | 0.0538 |
| Nickel | 5.03 | 0.430 | 0.215 |
| Potassium | 1700 | 64.5 | 32.3 |
| Selenium | ND | 0.430 | 0.215 |
| Silver | ND | 0.108 | 0.0538 |
| Sodium | ND | 108 | 53.8 |
| Strontium | 11.2 | 0.538 | 0.269 |
| Thallium | 0.230 | 0.108 | 0.0538 |
| Tin | ND | 10.8 | 5.38 |
| Titanium | 791 | 1.08 | 0.538 |
| Vanadium | 19.4 | 0.108 | 0.0538 |
| Zinc | 39.7 | 3.23 | 1.61 |
| Lithium | 22.1 | 2.15 | 1.08 |
| Phosphorus | 164 | 12.9 | 6.45 |
| Zirconium | ND | 5.38 | 2.69 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| SDG NO. : 12C096 | Date Extracted: 03/16/12 10:26 |
| Sample ID: SL-003-NBZ-SB-4.0-5.0 | Date Analyzed: 03/19/12 13:52 |
| Lab Samp ID: C096-05 | Dilution Factor: 0.980 |
| Lab File ID: 98C06031 | Matrix : SOIL |
| Ext Btch ID: IMC017S | % Moisture : 5.4 |
| Calib. Ref.: 98C06029 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 13600 | 24.9 | 12.4 |
| Antimony | 0.256 | 0.207 | 0.104 |
| Arsenic | 7.45 | 0.414 | 0.207 |
| Barium | 89.7 | 0.414 | 0.207 |
| Beryllium | 0.690 | 0.104 | 0.0518 |
| Boron | ND | 5.18 | 2.59 |
| Cadmium | 0.288 | 0.104 | 0.0518 |
| Calcium | 13900 | 20.7 | 10.4 |
| Chromium | 21.3 | 0.414 | 0.207 |
| Cobalt | 8.39 | 0.104 | 0.0518 |
| Copper | 14.5 | 0.414 | 0.207 |
| Iron | 27400 | 20.7 | 10.4 |
| Lead | 9.91 | 0.207 | 0.104 |
| Magnesium | 5590 | 10.4 | 5.18 |
| Manganese | 373 | 0.518 | 0.259 |
| Molybdenum | 0.439 | 0.104 | 0.0518 |
| Nickel | 16.3 | 0.414 | 0.207 |
| Potassium | 2930 | 62.2 | 31.1 |
| Selenium | ND | 0.414 | 0.207 |
| Silver | 0.118 | 0.104 | 0.0518 |
| Sodium | 65.0J | 104 | 51.8 |
| Strontium | 23.9 | 0.518 | 0.259 |
| Thallium | 0.411 | 0.104 | 0.0518 |
| Tin | ND | 10.4 | 5.18 |
| Titanium | 825 | 1.04 | 0.518 |
| Vanadium | 40.3 | 0.104 | 0.0518 |
| Zinc | 82.3 | 3.11 | 1.55 |
| Lithium | 41.1 | 2.07 | 1.04 |
| Phosphorus | 573 | 12.4 | 6.22 |
| Zirconium | ND | 5.18 | 2.59 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/12/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/12/12 |
| SDG NO. | : 12C096 | Date Extracted | : 03/16/12 10:26 |
| Sample ID | : SL-007-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/19/12 13:59 |
| Lab Samp ID | : C096-07 | Dilution Factor | : 0.962 |
| Lab File ID | : 98C06032 | Matrix | : SOIL |
| Ext Btch ID | : IMC017S | % Moisture | : 8.1 |
| Calib. Ref. | : 98C06029 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 14300 | 25.1 | 12.6 |
| Antimony | 0.119J | 0.209 | 0.105 |
| Arsenic | 7.20 | 0.419 | 0.209 |
| Barium | 108 | 0.419 | 0.209 |
| Beryllium | 0.553 | 0.105 | 0.0523 |
| Boron | ND | 5.23 | 2.62 |
| Cadmium | 0.169 | 0.105 | 0.0523 |
| Calcium | 2470 | 20.9 | 10.5 |
| Chromium | 15.2 | 0.419 | 0.209 |
| Cobalt | 5.25 | 0.105 | 0.0523 |
| Copper | 7.13 | 0.419 | 0.209 |
| Iron | 18200 | 20.9 | 10.5 |
| Lead | 4.95 | 0.209 | 0.105 |
| Magnesium | 4600 | 10.5 | 5.23 |
| Manganese | 237 | 0.523 | 0.262 |
| Molybdenum | 0.669 | 0.105 | 0.0523 |
| Nickel | 9.82 | 0.419 | 0.209 |
| Potassium | 2370 | 62.8 | 31.4 |
| Selenium | ND | 0.419 | 0.209 |
| Silver | ND | 0.105 | 0.0523 |
| Sodium | 64.5J | 105 | 52.3 |
| Strontium | 15.9 | 0.523 | 0.262 |
| Thallium | 0.257 | 0.105 | 0.0523 |
| Tin | ND | 10.5 | 5.23 |
| Titanium | 934 | 1.05 | 0.523 |
| Vanadium | 30.9 | 0.105 | 0.0523 |
| Zinc | 49.2 | 3.14 | 1.57 |
| Lithium | 24.5 | 2.09 | 1.05 |
| Phosphorus | 397 | 12.6 | 6.28 |
| Zirconium | ND | 5.23 | 2.62 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/12/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/12/12 |
| SDG NO. | : 12C096 | Date Extracted | : 03/16/12 10:26 |
| Sample ID | : SL-007-NBZ-SB-9.0-10.0 | Date Analyzed | : 03/19/12 14:06 |
| Lab Samp ID | : C096-09 | Dilution Factor | : 0.990 |
| Lab File ID | : 98C06033 | Matrix | : SOIL |
| Ext Btch ID | : IMC017S | % Moisture | : 8.4 |
| Calib. Ref. | : 98C06029 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 13200 | 25.9 | 13.0 |
| Antimony | 0.118J | 0.216 | 0.108 |
| Arsenic | 6.88 | 0.432 | 0.216 |
| Barium | 74.4 | 0.432 | 0.216 |
| Beryllium | 0.522 | 0.108 | 0.0540 |
| Boron | ND | 5.40 | 2.70 |
| Cadmium | 0.170 | 0.108 | 0.0540 |
| Calcium | 2050 | 21.6 | 10.8 |
| Chromium | 13.6 | 0.432 | 0.216 |
| Cobalt | 4.25 | 0.108 | 0.0540 |
| Copper | 5.91 | 0.432 | 0.216 |
| Iron | 17800 | 21.6 | 10.8 |
| Lead | 4.47 | 0.216 | 0.108 |
| Magnesium | 4060 | 10.8 | 5.40 |
| Manganese | 245 | 0.540 | 0.270 |
| Molybdenum | 0.573 | 0.108 | 0.0540 |
| Nickel | 8.34 | 0.432 | 0.216 |
| Potassium | 1940 | 64.8 | 32.4 |
| Selenium | ND | 0.432 | 0.216 |
| Silver | ND | 0.108 | 0.0540 |
| Sodium | 56.8J | 108 | 54.0 |
| Strontium | 14.7 | 0.540 | 0.270 |
| Thallium | 0.227 | 0.108 | 0.0540 |
| Tin | ND | 10.8 | 5.40 |
| Titanium | 855 | 1.08 | 0.540 |
| Vanadium | 27.6 | 0.108 | 0.0540 |
| Zinc | 44.3 | 3.24 | 1.62 |
| Lithium | 21.9 | 2.16 | 1.08 |
| Phosphorus | 306 | 13.0 | 6.48 |
| Zirconium | ND | 5.40 | 2.70 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/12/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/12/12 |
| SDG NO. | : 12C096 | Date Extracted | : 03/16/12 10:26 |
| Sample ID | : SL-010-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/19/12 14:13 |
| Lab Samp ID | : C096-11 | Dilution Factor | : 0.995 |
| Lab File ID | : 98C06034 | Matrix | : SOIL |
| Ext Btch ID | : IMC017S | % Moisture | : 7.3 |
| Calib. Ref. | : 98C06029 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 14100 | 25.8 | 12.9 |
| Antimony | 0.127J | 0.215 | 0.107 |
| Arsenic | 27.0 | 0.429 | 0.215 |
| Barium | 90.3 | 0.429 | 0.215 |
| Beryllium | 0.624 | 0.107 | 0.0537 |
| Boron | ND | 5.37 | 2.68 |
| Cadmium | 0.270 | 0.107 | 0.0537 |
| Calcium | 2670 | 21.5 | 10.7 |
| Chromium | 18.9 | 0.429 | 0.215 |
| Cobalt | 8.55 | 0.107 | 0.0537 |
| Copper | 7.61 | 0.429 | 0.215 |
| Iron | 21600 | 21.5 | 10.7 |
| Lead | 5.50 | 0.215 | 0.107 |
| Magnesium | 4960 | 10.7 | 5.37 |
| Manganese | 397 | 0.537 | 0.268 |
| Molybdenum | 0.636 | 0.107 | 0.0537 |
| Nickel | 11.8 | 0.429 | 0.215 |
| Potassium | 2450 | 64.4 | 32.2 |
| Selenium | ND | 0.429 | 0.215 |
| Silver | 0.0648J | 0.107 | 0.0537 |
| Sodium | 62.0J | 107 | 53.7 |
| Strontium | 15.4 | 0.537 | 0.268 |
| Thallium | 0.264 | 0.107 | 0.0537 |
| Tin | ND | 10.7 | 5.37 |
| Titanium | 992 | 1.07 | 0.537 |
| Vanadium | 36.1 | 0.107 | 0.0537 |
| Zinc | 49.6 | 3.22 | 1.61 |
| Lithium | 28.0 | 2.15 | 1.07 |
| Phosphorus | 353 | 12.9 | 6.44 |
| Zirconium | ND | 5.37 | 2.68 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/12/12 |
| SDG NO. : 12C096 | Date Extracted: 03/16/12 10:26 |
| Sample ID: SL-002-NBZ-SB-0.0-0.5 | Date Analyzed: 03/19/12 14:20 |
| Lab Samp ID: C096-14 | Dilution Factor: 0.913 |
| Lab File ID: 98C06035 | Matrix : SOIL |
| Ext Btch ID: IMC017S | % Moisture : 3.2 |
| Calib. Ref.: 98C06029 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12900 | 22.6 | 11.3 |
| Antimony | 0.262 | 0.189 | 0.0943 |
| Arsenic | 6.31 | 0.377 | 0.189 |
| Barium | 90.1 | 0.377 | 0.189 |
| Beryllium | 0.546 | 0.0943 | 0.0472 |
| Boron | 2.85J | 4.72 | 2.36 |
| Cadmium | 0.224 | 0.0943 | 0.0472 |
| Calcium | 4880 | 18.9 | 9.43 |
| Chromium | 16.0 | 0.377 | 0.189 |
| Cobalt | 6.78 | 0.0943 | 0.0472 |
| Copper | 9.88 | 0.377 | 0.189 |
| Iron | 22200 | 18.9 | 9.43 |
| Lead | 10.0 | 0.189 | 0.0943 |
| Magnesium | 4850 | 9.43 | 4.72 |
| Manganese | 302 | 0.472 | 0.236 |
| Molybdenum | 0.450 | 0.0943 | 0.0472 |
| Nickel | 11.8 | 0.377 | 0.189 |
| Potassium | 3420 | 56.6 | 28.3 |
| Selenium | 0.265J | 0.377 | 0.189 |
| Silver | ND | 0.0943 | 0.0472 |
| Sodium | 65.6J | 94.3 | 47.2 |
| Strontium | 15.1 | 0.472 | 0.236 |
| Thallium | 0.288 | 0.0943 | 0.0472 |
| Tin | ND | 9.43 | 4.72 |
| Titanium | 818 | 0.943 | 0.472 |
| Vanadium | 32.4 | 0.0943 | 0.0472 |
| Zinc | 65.5 | 2.83 | 1.41 |
| Lithium | 28.9 | 1.89 | 0.943 |
| Phosphorus | 495 | 11.3 | 5.66 |
| Zirconium | ND | 4.72 | 2.36 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/12/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/12/12 |
| SDG NO. | : 12C096 | Date Extracted | : 03/16/12 10:26 |
| Sample ID | : SL-003-NBZ-SB-0.0-0.5 | Date Analyzed | : 03/23/12 22:20 |
| Lab Samp ID | : C096-15W | Dilution Factor | : 0.943 |
| Lab File ID | : 98C10075 | Matrix | : SOIL |
| Ext Btch ID | : IMC017S | % Moisture | : 4.3 |
| Calib. Ref. | : 98C10071 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 15400 | 23.6 | 11.8 |
| Antimony | 0.293 | 0.197 | 0.0985 |
| Arsenic | 8.62 | 0.394 | 0.197 |
| Barium | 107 | 0.394 | 0.197 |
| Beryllium | 0.823 | 0.0985 | 0.0493 |
| Boron | 4.28J | 4.93 | 2.46 |
| Cadmium | 0.268 | 0.0985 | 0.0493 |
| Calcium | 7780 | 19.7 | 9.85 |
| Chromium | 24.4 | 0.394 | 0.197 |
| Cobalt | 8.56 | 0.0985 | 0.0493 |
| Copper | 17.5 | 0.394 | 0.197 |
| Iron | 29000 | 19.7 | 9.85 |
| Lead | 12.9 | 0.197 | 0.0985 |
| Magnesium | 6650 | 9.85 | 4.93 |
| Manganese | 326 | 0.493 | 0.246 |
| Molybdenum | 0.542 | 0.0985 | 0.0493 |
| Nickel | 17.8 | 0.394 | 0.197 |
| Potassium | 4060 | 59.1 | 29.6 |
| Selenium | 0.268J | 0.394 | 0.197 |
| Silver | 0.118 | 0.0985 | 0.0493 |
| Sodium | 74.4J | 98.5 | 49.3 |
| Strontium | 24.7 | 0.493 | 0.246 |
| Thallium | 0.404 | 0.0985 | 0.0493 |
| Tin | ND | 9.85 | 4.93 |
| Titanium | 903 | 0.985 | 0.493 |
| Vanadium | 44.9 | 0.0985 | 0.0493 |
| Zinc | 93.8 | 2.96 | 1.48 |
| Lithium | 44.6 | 1.97 | 0.985 |
| Phosphorus | 594 | 11.8 | 5.91 |
| Zirconium | 3.09J | 4.93 | 2.46 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| SDG NO. : 12C096 | Date Extracted: 03/16/12 10:26 |
| Sample ID: MBLK1S | Date Analyzed: 03/19/12 12:28 |
| Lab Samp ID: IMC017SB | Dilution Factor: 1 |
| Lab File ID: 98C06019 | Matrix : SOIL |
| Ext Btch ID: IMC017S | % Moisture : NA |
| Calib. Ref.: 98C06017 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C096
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IMC017SB | IMC017SL | IMC017SC | | |
| LAB FILE ID: | 98C06019 | 98C06020 | 98C06021 | | |
| DATIME EXTRCTD: | 03/16/1210:26 | 03/16/1210:26 | 03/16/1210:26 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 03/19/1212:28 | 03/19/1212:35 | 03/19/1212:42 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | NA | NA | NA | | |
| CALIB. REF: | 98C06017 | 98C06017 | 98C06017 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2530 | 101 | 2500 | 2570 | 103 | 2 | 80-120 | 20 |
| Antimony | ND | 25.0 | 25.5 | 102 | 25.0 | 26.2 | 105 | 3 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 24.6 | 98 | 25.0 | 25.0 | 100 | 2 | 80-120 | 20 |
| Barium | ND | 25.0 | 24.8 | 99 | 25.0 | 25.3 | 101 | 2 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 24.8 | 99 | 25.0 | 25.0 | 100 | 1 | 80-120 | 20 |
| Boron | ND | 25.0 | 24.7 | 99 | 25.0 | 25.0 | 100 | 1 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 24.5 | 98 | 25.0 | 25.1 | 100 | 2 | 80-120 | 20 |
| Calcium | ND | 2500 | 2630 | 105 | 2500 | 2680 | 107 | 2 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.4 | 98 | 25.0 | 24.5 | 98 | 1 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 24.7 | 99 | 25.0 | 24.7 | 99 | 0 | 80-120 | 20 |
| Copper | ND | 25.0 | 23.7 | 95 | 25.0 | 24.0 | 96 | 1 | 80-120 | 20 |
| Iron | ND | 2500 | 2600 | 104 | 2500 | 2610 | 105 | 1 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.3 | 101 | 25.0 | 25.9 | 104 | 2 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2510 | 100 | 2500 | 2540 | 101 | 1 | 80-120 | 20 |
| Manganese | ND | 25.0 | 24.6 | 98 | 25.0 | 24.8 | 99 | 1 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 24.7 | 99 | 25.0 | 25.4 | 102 | 3 | 80-120 | 20 |
| Nickel | ND | 25.0 | 23.9 | 95 | 25.0 | 24.2 | 97 | 1 | 80-120 | 20 |
| Potassium | ND | 2500 | 2620 | 105 | 2500 | 2650 | 106 | 1 | 80-120 | 20 |
| Selenium | ND | 25.0 | 24.1 | 96 | 25.0 | 24.4 | 97 | 1 | 80-120 | 20 |
| Silver | ND | 25.0 | 24.6 | 98 | 25.0 | 25.5 | 102 | 4 | 80-120 | 20 |
| Sodium | ND | 2500 | 2520 | 101 | 2500 | 2510 | 100 | 0 | 80-120 | 20 |
| Strontium | ND | 25.0 | 25.0 | 100 | 25.0 | 25.3 | 101 | 1 | 80-120 | 20 |
| Thallium | ND | 25.0 | 25.0 | 100 | 25.0 | 26.0 | 104 | 4 | 80-120 | 20 |
| Tin | ND | 25.0 | 27.2 | 109 | 25.0 | 27.6 | 110 | 2 | 80-120 | 20 |
| Titanium | ND | 25.0 | 25.3 | 101 | 25.0 | 25.5 | 102 | 1 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 24.5 | 98 | 25.0 | 24.8 | 99 | 1 | 80-120 | 20 |
| Zinc | ND | 50.0 | 47.1 | 94 | 50.0 | 47.7 | 95 | 1 | 80-120 | 20 |
| Lithium | ND | 25.0 | 24.9 | 100 | 25.0 | 25.3 | 101 | 2 | 80-120 | 20 |
| Phosphorus | ND | 250 | 246 | 98 | 250 | 249 | 99 | 1 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 25.5 | 102 | 25.0 | 26.1 | 104 | 2 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C096
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 4.3

| | | | | | |
|---|---|---|---|---|---|
| DILTN FACTR: | 0.943 | 0.948 | 0.971 | | |
| SAMPLE ID: | SL-003-NBZ-SB-0.0-0.5 | | | | |
| CONTROL NO.: | C096-15W | C096-15M | C096-15S | | |
| LAB FILE ID: | 98C10075 | 98C06022 | 98C06023 | | |
| DATIME EXTRCTD: | 03/16/1210:26 | 03/16/1210:26 | 03/16/1210:26 | DATE COLLECTED: | 03/12/12 |
| DATIME ANALYZD: | 03/23/1222:20 | 03/19/1212:49 | 03/19/1212:56 | DATE RECEIVED: | 03/12/12 |
| PREP. BATCH: | NA | NA | NA | | |
| CALIB. REF: | 98C10071 | 98C06017 | 98C06017 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 15400 | 2480 | 18400 | 120 | 2540 | 18500 | 121 | 1 | 75-125 | 20 |
| Antimony | 0.293 | 24.8 | 15.1 | 60* | 25.4 | 15.7 | 61* | 4 | 75-125 | 20 |
| Arsenic | 8.62 | 24.8 | 31.8 | 93 | 25.4 | 31.8 | 91 | 0 | 75-125 | 20 |
| Barium | 107 | 24.8 | 135 | 115 | 25.4 | 136 | 114 | 0 | 75-125 | 20 |
| Beryllium | 0.823 | 24.8 | 25.9 | 101 | 25.4 | 26.8 | 102 | 3 | 75-125 | 20 |
| Boron | 4.28J | 24.8 | 26.7 | 91 | 25.4 | 27.7 | 92 | 4 | 75-125 | 20 |
| Cadmium | 0.268 | 24.8 | 24.9 | 100 | 25.4 | 25.3 | 99 | 2 | 75-125 | 20 |
| Calcium | 7780 | 2480 | 10700 | 118 | 2540 | 10900 | 122 | 2 | 75-125 | 20 |
| Chromium | 24.4 | 24.8 | 46.9 | 91 | 25.4 | 47.4 | 91 | 1 | 75-125 | 20 |
| Cobalt | 8.56 | 24.8 | 31.3 | 92 | 25.4 | 32.2 | 93 | 3 | 75-125 | 20 |
| Copper | 17.5 | 24.8 | 38.1 | 83 | 25.4 | 39.2 | 86 | 3 | 75-125 | 20 |
| Iron | 29000 | 2480 | 31300 | 93 | 2540 | 31600 | 104 | 1 | 75-125 | 20 |
| Lead | 12.9 | 24.8 | 37.6 | 100 | 25.4 | 38.6 | 101 | 3 | 75-125 | 20 |
| Magnesium | 6650 | 2480 | 9050 | 97 | 2540 | 9120 | 97 | 1 | 75-125 | 20 |
| Manganese | 326 | 24.8 | 355 | 120 | 25.4 | 367 | 165* | 3 | 75-125 | 20 |
| Molybdenum | 0.542 | 24.8 | 24.7 | 97 | 25.4 | 25.0 | 96 | 1 | 75-125 | 20 |
| Nickel | 17.8 | 24.8 | 38.7 | 84 | 25.4 | 39.7 | 87 | 3 | 75-125 | 20 |
| Potassium | 4060 | 2480 | 6390 | 94 | 2540 | 6370 | 91 | 0 | 75-125 | 20 |
| Selenium | 0.268J | 24.8 | 23.5 | 94 | 25.4 | 24.3 | 95 | 3 | 75-125 | 20 |
| Silver | 0.118 | 24.8 | 24.5 | 99 | 25.4 | 25.1 | 98 | 2 | 75-125 | 20 |
| Sodium | 74.4J | 2480 | 2220 | 87 | 2540 | 2310 | 88 | 4 | 75-125 | 20 |
| Strontium | 24.7 | 24.8 | 48.6 | 96 | 25.4 | 49.0 | 96 | 1 | 75-125 | 20 |
| Thallium | 0.404 | 24.8 | 24.8 | 99 | 25.4 | 25.3 | 98 | 2 | 75-125 | 20 |
| Tin | ND | 24.8 | 28.9 | 117 | 25.4 | 29.3 | 116 | 2 | 75-125 | 20 |
| Titanium | 903 | 24.8 | 949 | 187* | 25.4 | 984 | 320* | 4 | 75-125 | 20 |
| Vanadium | 44.9 | 24.8 | 68.5 | 95 | 25.4 | 69.5 | 97 | 1 | 75-125 | 20 |
| Zinc | 93.8 | 49.5 | 146 | 106 | 50.7 | 150 | 110 | 2 | 75-125 | 20 |
| Lithium | 44.6 | 24.8 | 68.9 | 98 | 25.4 | 70.8 | 103 | 3 | 75-125 | 20 |
| Phosphorus | 594 | 248 | 844 | 101 | 254 | 855 | 103 | 1 | 75-125 | 20 |
| Zirconium | 3.09J | 24.8 | 18.4 | 62* | 25.4 | 19.6 | 65* | 6 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C096
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 4.3
DILTN FACTR: 0.943 0.943
SAMPLE ID: SL-003-NBZ-SB-0.0-0.5
CONTROL NO.: C096-15W C096-15A
LAB FILE ID: 98C10075 98C10074
DATIME EXTRCTD: 03/16/1210:26 03/16/1210:26 DATE COLLECTED: 03/12/12
DATIME ANALYZD: 03/23/1222:20 03/23/1222:13 DATE RECEIVED: 03/12/12
PREP. BATCH: NA NA
CALIB. REF: 98C10071 98C10071

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 15400 | 2460 | 17800 | 98 | 75-125 |
| Antimony | 0.293 | 24.6 | 24.9 | 100 | 75-125 |
| Arsenic | 8.62 | 24.6 | 31.0 | 91 | 75-125 |
| Barium | 107 | 24.6 | 132 | 102 | 75-125 |
| Beryllium | 0.823 | 24.6 | 25.2 | 99 | 75-125 |
| Boron | 4.28J | 24.6 | 28.4 | 98 | 75-125 |
| Cadmium | 0.268 | 24.6 | 23.8 | 95 | 75-125 |
| Calcium | 7780 | 2460 | 10000 | 90 | 75-125 |
| Chromium | 24.4 | 24.6 | 45.0 | 84 | 75-125 |
| Cobalt | 8.56 | 24.6 | 29.6 | 85 | 75-125 |
| Copper | 17.5 | 24.6 | 37.1 | 80 | 75-125 |
| Iron | 29000 | 2460 | 30600 | 67* | 75-125 |
| Lead | 12.9 | 24.6 | 36.4 | 95 | 75-125 |
| Magnesium | 6650 | 2460 | 8880 | 91 | 75-125 |
| Manganese | 326 | 24.6 | 346 | 84 | 75-125 |
| Molybdenum | 0.542 | 24.6 | 24.7 | 98 | 75-125 |
| Nickel | 17.8 | 24.6 | 37.7 | 81 | 75-125 |
| Potassium | 4060 | 2460 | 6260 | 89 | 75-125 |
| Selenium | 0.268J | 24.6 | 24.5 | 98 | 75-125 |
| Silver | 0.118 | 24.6 | 23.3 | 94 | 75-125 |
| Sodium | 74.4J | 2460 | 2170 | 85 | 75-125 |
| Strontium | 24.7 | 24.6 | 48.0 | 95 | 75-125 |
| Thallium | 0.404 | 24.6 | 24.7 | 99 | 75-125 |
| Tin | ND | 24.6 | 28.3 | 115 | 75-125 |
| Titanium | 903 | 24.6 | 925 | 90 | 75-125 |
| Vanadium | 44.9 | 24.6 | 65.9 | 85 | 75-125 |
| Zinc | 93.8 | 49.3 | 143 | 99 | 75-125 |
| Lithium | 44.6 | 24.6 | 70.0 | 103 | 75-125 |
| Phosphorus | 594 | 246 | 818 | 91 | 75-125 |
| Zirconium | 3.09J | 24.6 | 24.7 | 88 | 75-125 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C096
METHOD: METHOD 6020

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | | |
| SAMPLE ID: | LCD1S | | | |
| CONTROL NO.: | IMC017SC | IMC017SL | | |
| LAB FILE ID: | 98C06021 | 98C06020 | | |
| DATIME EXTRCTD: | 03/16/1210:26 | 03/16/1210:26 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 03/19/1212:42 | 03/19/1212:35 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | NA | NA | | |
| CALIB. REF: | 98C06017 | 98C06017 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 2570 | 2500 | 2530 | -2* | 75-125 |
| Antimony | 26.2 | 25.0 | 25.5 | -3* | 75-125 |
| Arsenic | 25.0 | 25.0 | 24.6 | -2* | 75-125 |
| Barium | 25.3 | 25.0 | 24.8 | -2* | 75-125 |
| Beryllium | 25.0 | 25.0 | 24.8 | -1* | 75-125 |
| Boron | 25.0 | 25.0 | 24.7 | -1* | 75-125 |
| Cadmium | 25.1 | 25.0 | 24.5 | -2* | 75-125 |
| Calcium | 2680 | 2500 | 2630 | -2* | 75-125 |
| Chromium | 24.5 | 25.0 | 24.4 | -1* | 75-125 |
| Cobalt | 24.7 | 25.0 | 24.7 | 0* | 75-125 |
| Copper | 24.0 | 25.0 | 23.7 | -1* | 75-125 |
| Iron | 2610 | 2500 | 2600 | -1* | 75-125 |
| Lead | 25.9 | 25.0 | 25.3 | -2* | 75-125 |
| Magnesium | 2540 | 2500 | 2510 | -1* | 75-125 |
| Manganese | 24.8 | 25.0 | 24.6 | -1* | 75-125 |
| Molybdenum | 25.4 | 25.0 | 24.7 | -3* | 75-125 |
| Nickel | 24.2 | 25.0 | 23.9 | -1* | 75-125 |
| Potassium | 2650 | 2500 | 2620 | -1* | 75-125 |
| Selenium | 24.4 | 25.0 | 24.1 | -1* | 75-125 |
| Silver | 25.5 | 25.0 | 24.6 | -4* | 75-125 |
| Sodium | 2510 | 2500 | 2520 | 0* | 75-125 |
| Strontium | 25.3 | 25.0 | 25.0 | -1* | 75-125 |
| Thallium | 26.0 | 25.0 | 25.0 | -4* | 75-125 |
| Tin | 27.6 | 25.0 | 27.2 | -2* | 75-125 |
| Titanium | 25.5 | 25.0 | 25.3 | -1* | 75-125 |
| Vanadium | 24.8 | 25.0 | 24.5 | -1* | 75-125 |
| Zinc | 47.7 | 50.0 | 47.1 | -1* | 75-125 |
| Lithium | 25.3 | 25.0 | 24.9 | -2* | 75-125 |
| Phosphorus | 249 | 250 | 246 | -1* | 75-125 |
| Zirconium | 26.1 | 25.0 | 25.5 | -2* | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 4.3
DILUTION FACTOR: 0.943 4.72
SAMPLE ID: SL-003-NBZ-SB- SL-003-NBZ-SB-
EMAX SAMP ID: C096-15W C096-15J
LAB FILE ID: 98C10075 98C10073
DATE EXTRACTED: 03/16/1210:26 03/16/1210:26 DATE COLLECTED: 03/12/12
DATE ANALYZED: 03/23/1222:20 03/23/1222:06 DATE RECEIVED: 03/12/12
PREP. BATCH: IMC017S IMC017S
CALIB. REF: 98C10071 98C10071

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 15400 | 16100 | 4 | 10 |
| Antimony | 0.293 | ND | NA | 10 |
| Arsenic | 8.62 | 8.84 | 3 | 10 |
| Barium | 107 | 96.3 | 10 | 10 |
| Beryllium | 0.823 | 0.777 | 6 | 10 |
| Boron | 4.28J | ND | NA | 10 |
| Cadmium | 0.268 | 0.247J | NA | 10 |
| Calcium | 7780 | 8240 | 6 | 10 |
| Chromium | 24.4 | 25.3 | 4 | 10 |
| Cobalt | 8.56 | 9.25 | 8 | 10 |
| Copper | 17.5 | 18.9 | 8 | 10 |
| Iron | 29000 | 31200 | 7 | 10 |
| Lead | 12.9 | 12.7 | 2 | 10 |
| Magnesium | 6650 | 6950 | 4 | 10 |
| Manganese | 326 | 353 | 8 | 10 |
| Molybdenum | 0.542 | 0.506 | 7 | 10 |
| Nickel | 17.8 | 18.8 | 6 | 10 |
| Potassium | 4060 | 4110 | 1 | 10 |
| Selenium | 0.268J | ND | NA | 10 |
| Silver | 0.118 | ND | NA | 10 |
| Sodium | 74.4J | ND | NA | 10 |
| Strontium | 24.7 | 23.1 | 6 | 10 |
| Thallium | 0.404 | 0.403J | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 903 | 923 | 2 | 10 |
| Vanadium | 44.9 | 46.3 | 3 | 10 |
| Zinc | 93.8 | 92.7 | 1 | 10 |
| Lithium | 44.6 | 41.2 | 8 | 10 |
| Phosphorus | 594 | 585 | 2 | 10 |
| Zirconium | 3.09J | ND | NA | 10 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C096
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGC011SB | ND | 1 | NA | 0.100 | 0.0500 | 03/15/1214:56 | 03/15/1211:12 | M47C010010 | M47C010008 | HGC011S | NA | 03/15/12 |
| LCS1S | HGC011SL | 0.827 | 1 | NA | 0.100 | 0.0500 | 03/15/1214:58 | 03/15/1211:12 | M47C010011 | M47C010008 | HGC011S | NA | 03/15/12 |
| LCD1S | HGC011SC | 0.833 | 1 | NA | 0.100 | 0.0500 | 03/15/1215:00 | 03/15/1211:12 | M47C010012 | M47C010008 | HGC011S | NA | 03/15/12 |
| SL-002-NBZ-SB-4.0-5.0AS | C096-01A | 0.908 | 1.00 | 7.5 | 0.108 | 0.0541 | 03/15/1215:02 | 03/15/1211:12 | M47C010013 | M47C010008 | HGC011S | 03/12/12 | 03/12/12 |
| SL-002-NBZ-SB-4.0-5.0 | C096-01 | ND | 1.00 | 7.5 | 0.108 | 0.0541 | 03/15/1215:04 | 03/15/1211:12 | M47C010014 | M47C010008 | HGC011S | 03/12/12 | 03/12/12 |
| SL-002-NBZ-SB-4.0-5.0DL | C096-01J | ND | 5.00 | 7.5 | 0.541 | 0.270 | 03/15/1215:06 | 03/15/1211:12 | M47C010015 | M47C010008 | HGC011S | 03/12/12 | 03/12/12 |
| SL-002-NBZ-SB-4.0-5.0MS | C096-01M | 0.940 | 0.998 | 7.5 | 0.108 | 0.0539 | 03/15/1215:08 | 03/15/1211:12 | M47C010016 | M47C010008 | HGC011S | 03/12/12 | 03/12/12 |
| SL-002-NBZ-SB-4.0-5.0MSD | C096-01S | 0.928 | 0.990 | 7.5 | 0.107 | 0.0535 | 03/15/1215:10 | 03/15/1211:12 | M47C010017 | M47C010008 | HGC011S | 03/12/12 | 03/12/12 |
| SL-002-NBZ-SB-7.5-8.5 | C096-03 | ND | 0.997 | 7.5 | 0.108 | 0.0539 | 03/15/1215:12 | 03/15/1211:12 | M47C010018 | M47C010008 | HGC011S | 03/12/12 | 03/12/12 |
| SL-003-NBZ-SB-4.0-5.0 | C096-05 | ND | 0.993 | 5.4 | 0.105 | 0.0525 | 03/15/1215:14 | 03/15/1211:12 | M47C010019 | M47C010008 | HGC011S | 03/12/12 | 03/12/12 |
| SL-007-NBZ-SB-4.0-5.0 | C096-07 | ND | 0.997 | 8.1 | 0.108 | 0.0542 | 03/15/1215:21 | 03/15/1211:12 | M47C010022 | M47C010020 | HGC011S | 03/12/12 | 03/12/12 |
| SL-007-NBZ-SB-9.0-10.0 | C096-09 | ND | 0.993 | 8.4 | 0.108 | 0.0542 | 03/15/1215:23 | 03/15/1211:12 | M47C010023 | M47C010020 | HGC011S | 03/12/12 | 03/12/12 |
| SL-010-NBZ-SB-4.0-5.0 | C096-11 | ND | 0.997 | 7.3 | 0.108 | 0.0538 | 03/15/1215:25 | 03/15/1211:12 | M47C010024 | M47C010020 | HGC011S | 03/12/12 | 03/12/12 |
| SL-002-NBZ-SB-0.0-0.5 | C096-14 | ND | 1.00 | 3.2 | 0.103 | 0.0517 | 03/15/1215:27 | 03/15/1211:12 | M47C010025 | M47C010020 | HGC011S | 03/12/12 | 03/12/12 |
| SL-003-NBZ-SB-0.0-0.5 | C096-15 | ND | 0.987 | 4.3 | 0.103 | 0.0516 | 03/15/1215:29 | 03/15/1211:12 | M47C010026 | M47C010020 | HGC011S | 03/12/12 | 03/12/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C096
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGC011SB | HGC011SL | HGC011SC | | |
| LAB FILE ID: | M47C010010 | M47C010011 | M47C010012 | | |
| DATIME EXTRCTD: | 03/15/1211:12 | 03/15/1211:12 | 03/15/1211:12 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 03/15/1214:56 | 03/15/1214:58 | 03/15/1215:00 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | HGC011S | HGC011S | HGC011S | | |
| CALIB. REF: | M47C010008 | M47C010008 | M47C010008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .827 | 99 | .833 | .833 | 100 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C096
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 7.5

| | | | | | |
|---|---|---|---|---|---|
| DILTN FACTR: | 1.00 | 0.998 | 0.990 | | |
| SAMPLE ID: | SL-002-NBZ-SB-4.0-5.0 | | | | |
| CONTROL NO.: | C096-01 | C096-01M | C096-01S | | |
| LAB FILE ID: | M47C010014 | M47C010016 | M47C010017 | | |
| DATIME EXTRCTD: | 03/15/1211:12 | 03/15/1211:12 | 03/15/1211:12 | DATE COLLECTED: | 03/12/12 |
| DATIME ANALYZD: | 03/15/1215:04 | 03/15/1215:08 | 03/15/1215:10 | DATE RECEIVED: | 03/12/12 |
| PREP. BATCH: | HGC011S | HGC011S | HGC011S | | |
| CALIB. REF: | M47C010008 | M47C010008 | M47C010008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .899 | .94 | 105 | .892 | .928 | 104 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C096
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 7.5 |
| DILTN FACTR: | 1.00 | 1.00 | | |
| SAMPLE ID: | SL-002-NBZ-SB-4.0-5.0 | | | |
| CONTROL NO.: | C096-01 | C096-01A | | |
| LAB FILE ID: | M47C010014 | M47C010013 | | |
| DATIME EXTRCTD: | 03/15/1211:12 | 03/15/1211:12 | DATE COLLECTED: | 03/12/12 |
| DATIME ANALYZD: | 03/15/1215:04 | 03/15/1215:02 | DATE RECEIVED: | 03/12/12 |
| PREP. BATCH: | HGC011S | HGC011S | | |
| CALIB. REF: | M47C010008 | M47C010008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .901 | .908 | 101 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 7.5 |
| DILUTION FACTOR: | 1.00 | 5.00 | | |
| SAMPLE ID: | SL-002-NBZ-SB-4.0-5 | SL-002-NBZ-SB-4.0-5 | | |
| EMAX SAMP ID: | C096-01 | C096-01J | | |
| LAB FILE ID: | M47C010014 | M47C010015 | | |
| DATE EXTRACTED: | 03/15/1211:12 | 03/15/1211:12 | DATE COLLECTED: | 03/12/12 |
| DATE ANALYZED: | 03/15/1215:04 | 03/15/1215:06 | DATE RECEIVED: | 03/12/12 |
| PREP. BATCH: | HGC011S | HGC011S | | |
| CALIB. REF: | M47C010008 | M47C010008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C096
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC001SB | ND | 1 | NA | 1.00 | 0.500 | 03/14/1215:02 | 03/14/1212:16 | AC17-19 | AC17-17 | ICC001S | NA | 03/14/12 |
| LCS1S | ICC001SL | 6.26 | 1 | NA | 1.00 | 0.500 | 03/14/1215:19 | 03/14/1212:16 | AC17-20 | AC17-17 | ICC001S | NA | 03/14/12 |
| LCD1S | ICC001SC | 6.28 | 1 | NA | 1.00 | 0.500 | 03/14/1215:35 | 03/14/1212:16 | AC17-21 | AC17-17 | ICC001S | NA | 03/14/12 |
| SL-002-NBZ-SB-4.0-5.0 | C096-01 | 1.41 | 1 | 7.5 | 1.08 | 0.541 | 03/14/1215:51 | 03/14/1212:16 | AC17-22 | AC17-17 | ICC001S | 03/12/1211:30 | 03/12/12 |
| SL-002-NBZ-SB-7.5-8.5 | C096-03 | 1.70 | 1 | 7.5 | 1.08 | 0.541 | 03/14/1216:07 | 03/14/1212:16 | AC17-23 | AC17-17 | ICC001S | 03/12/1211:40 | 03/12/12 |
| SL-003-NBZ-SB-4.0-5.0 | C096-05 | 0.847J | 1 | 5.4 | 1.06 | 0.529 | 03/14/1216:23 | 03/14/1212:16 | AC17-24 | AC17-17 | ICC001S | 03/12/1209:50 | 03/12/12 |
| SL-007-NBZ-SB-4.0-5.0 | C096-07 | 0.756J | 1 | 8.1 | 1.09 | 0.544 | 03/14/1216:39 | 03/14/1212:16 | AC17-25 | AC17-17 | ICC001S | 03/12/1215:50 | 03/12/12 |
| SL-007-NBZ-SB-9.0-10.0 | C096-09 | 1.28 | 1 | 8.4 | 1.09 | 0.546 | 03/14/1216:56 | 03/14/1212:16 | AC17-26 | AC17-17 | ICC001S | 03/12/1216:00 | 03/12/12 |
| SL-010-NBZ-SB-4.0-5.0 | C096-11 | 1.08 | 1 | 7.3 | 1.08 | 0.539 | 03/14/1217:12 | 03/14/1212:16 | AC17-27 | AC17-17 | ICC001S | 03/12/1214:25 | 03/12/12 |
| SL-002-NBZ-SB-0.0-0.5 | C096-14 | 0.871J | 1 | 3.2 | 1.03 | 0.517 | 03/14/1218:16 | 03/14/1212:16 | AC17-31 | AC17-29 | ICC001S | 03/12/1211:15 | 03/12/12 |
| SL-003-NBZ-SB-0.0-0.5 | C096-15 | 1.18 | 1 | 4.3 | 1.04 | 0.522 | 03/14/1218:33 | 03/14/1212:16 | AC17-32 | AC17-29 | ICC001S | 03/12/1208:50 | 03/12/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC001SB | ICC001SL | ICC001SC | | |
| LAB FILE ID: | AC17-19 | AC17-20 | AC17-21 | | |
| DATE EXTRACTED: | 03/14/1212:16 | 03/14/1212:16 | 03/14/1212:16 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/14/1215:02 | 03/14/1215:19 | 03/14/1215:35 | DATE RECEIVED: | 03/14/12 |
| PREP. BATCH: | ICC001S | ICC001S | ICC001S | | |
| CALIB. REF: | AC17-17 | AC17-17 | AC17-17 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 6.26 | 104 | 6.00 | 6.28 | 105 | 0 | 90-110 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C096
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC001SB | ND | 1 | NA | 1.50 | 0.750 | 03/14/1215:02 | 03/14/1212:16 | AC17-19 | AC17-17 | ICC001S | NA | 03/14/12 |
| LCS1S | ICC001SL | 26.8 | 1 | NA | 1.50 | 0.750 | 03/14/1215:19 | 03/14/1212:16 | AC17-20 | AC17-17 | ICC001S | NA | 03/14/12 |
| LCD1S | ICC001SC | 26.8 | 1 | NA | 1.50 | 0.750 | 03/14/1215:35 | 03/14/1212:16 | AC17-21 | AC17-17 | ICC001S | NA | 03/14/12 |
| SL-002-NBZ-SB-4.0-5.0 | C096-01 | 4.92 | 1 | 7.5 | 1.62 | 0.811 | 03/14/1215:51 | 03/14/1212:16 | AC17-22 | AC17-17 | ICC001S | 03/12/1211:30 | 03/12/12 |
| SL-002-NBZ-SB-7.5-8.5 | C096-03 | 4.88 | 1 | 7.5 | 1.62 | 0.811 | 03/14/1216:07 | 03/14/1212:16 | AC17-23 | AC17-17 | ICC001S | 03/12/1211:40 | 03/12/12 |
| SL-003-NBZ-SB-4.0-5.0 | C096-05 | 1.78 | 1 | 5.4 | 1.59 | 0.793 | 03/14/1216:23 | 03/14/1212:16 | AC17-24 | AC17-17 | ICC001S | 03/12/1209:50 | 03/12/12 |
| SL-007-NBZ-SB-4.0-5.0 | C096-07 | 1.69 | 1 | 8.1 | 1.63 | 0.816 | 03/14/1216:39 | 03/14/1212:16 | AC17-25 | AC17-17 | ICC001S | 03/12/1215:50 | 03/12/12 |
| SL-007-NBZ-SB-9.0-10.0 | C096-09 | 1.36J | 1 | 8.4 | 1.64 | 0.819 | 03/14/1216:56 | 03/14/1212:16 | AC17-26 | AC17-17 | ICC001S | 03/12/1216:00 | 03/12/12 |
| SL-010-NBZ-SB-4.0-5.0 | C096-11 | 1.06J | 1 | 7.3 | 1.62 | 0.809 | 03/14/1217:12 | 03/14/1212:16 | AC17-27 | AC17-17 | ICC001S | 03/12/1214:25 | 03/12/12 |
| SL-002-NBZ-SB-0.0-0.5 | C096-14 | 0.966J | 1 | 3.2 | 1.55 | 0.775 | 03/14/1218:16 | 03/14/1212:16 | AC17-31 | AC17-29 | ICC001S | 03/12/1211:15 | 03/12/12 |
| SL-003-NBZ-SB-0.0-0.5 | C096-15 | 6.73 | 1 | 4.3 | 1.57 | 0.784 | 03/14/1218:33 | 03/14/1212:16 | AC17-32 | AC17-29 | ICC001S | 03/12/1208:50 | 03/12/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC001SB | ICC001SL | ICC001SC | | |
| LAB FILE ID: | AC17-19 | AC17-20 | AC17-21 | | |
| DATE EXTRACTED: | 03/14/1212:16 | 03/14/1212:16 | 03/14/1212:16 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/14/1215:02 | 03/14/1215:19 | 03/14/1215:35 | DATE RECEIVED: | 03/14/12 |
| PREP. BATCH: | ICC001S | ICC001S | ICC001S | | |
| CALIB. REF: | AC17-17 | AC17-17 | AC17-17 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 26.8 | 101 | 26.6 | 26.8 | 101 | 0 | 90-110 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C096

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCC003SB | ND | 1 | NA | 20.0 | 10.0 | 03/14/1212:59 | 03/14/1210:45 | JC14002 | JC14001 | PCC003S | NA | 03/14/12 |
| LCS1S | PCC003SL | 250 | 1 | NA | 20.0 | 10.0 | 03/14/1213:41 | 03/14/1210:45 | JC14004 | JC14001 | PCC003S | NA | 03/14/12 |
| LCD1S | PCC003SC | 241 | 1 | NA | 20.0 | 10.0 | 03/14/1214:35 | 03/14/1210:45 | JC14005 | JC14001 | PCC003S | NA | 03/14/12 |
| SL-002-NBZ-SB-4.0-5.0 | C096-01 | ND | 1 | 7.5 | 21.6 | 10.8 | 03/14/1214:56 | 03/14/1210:45 | JC14006 | JC14001 | PCC003S | 03/12/1211:30 | 03/12/12 |
| SL-002-NBZ-SB-7.5-8.5 | C096-03 | ND | 1 | 7.5 | 21.6 | 10.8 | 03/14/1215:18 | 03/14/1210:45 | JC14007 | JC14001 | PCC003S | 03/12/1211:40 | 03/12/12 |
| SL-003-NBZ-SB-4.0-5.0 | C096-05 | ND | 1 | 5.4 | 21.1 | 10.6 | 03/14/1215:39 | 03/14/1210:45 | JC14008 | JC14001 | PCC003S | 03/12/1209:50 | 03/12/12 |
| SL-007-NBZ-SB-4.0-5.0 | C096-07 | ND | 1 | 8.1 | 21.8 | 10.9 | 03/14/1216:13 | 03/14/1210:45 | JC14009 | JC14001 | PCC003S | 03/12/1215:50 | 03/12/12 |
| SL-007-NBZ-SB-9.0-10.0 | C096-09 | ND | 1 | 8.4 | 21.8 | 10.9 | 03/14/1216:34 | 03/14/1210:45 | JC14010 | JC14001 | PCC003S | 03/12/1216:00 | 03/12/12 |
| SL-010-NBZ-SB-4.0-5.0 | C096-11 | ND | 1 | 7.3 | 21.6 | 10.8 | 03/14/1217:37 | 03/14/1210:45 | JC14013 | JC14012 | PCC003S | 03/12/1214:25 | 03/12/12 |
| SL-003-NBZ-SB-0.0-0.5 | C096-15 | ND | 2 | 4.3 | 41.8 | 20.9 | 03/15/1211:39 | 03/14/1210:45 | JC14024 | JC14019 | PCC003S | 03/12/1208:50 | 03/12/12 |
| SL-002-NBZ-SB-0.0-0.5 | C096-14 | ND | 1 | 3.2 | 20.7 | 10.3 | 03/23/1215:47 | 03/14/1210:45 | JC23010 | JC23009 | PCC003S | 03/12/1211:15 | 03/12/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCC003SB | PCC003SL | PCC003SC | | |
| LAB FILE ID: | JC14002 | JC14004 | JC14005 | | |
| DATE EXTRACTED: | 03/14/1210:45 | 03/14/1210:45 | 03/14/1210:45 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/14/1212:59 | 03/14/1213:41 | 03/14/1214:35 | DATE RECEIVED: | 03/14/12 |
| PREP. BATCH: | PCC003S | PCC003S | PCC003S | | |
| CALIB. REF: | JC14001 | JC14001 | JC14001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 250 | 100 | 250 | 241 | 96 | 4 | 85-115 | 15 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C096

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCC001SB | ND | 1 | NA | 1.00 | 0.500 | 03/15/1213:00 | 03/14/1216:37 | IC15003 | IC15001 | HCC001S | NA | 03/14/12 |
| MBLK1S | HCC001SQ | ND | 1 | NA | 1.00 | 0.500 | 03/15/1213:11 | 03/14/1216:37 | IC15004 | IC15001 | HCC001S | NA | 03/14/12 |
| LCS1S | CSC001SL | 9.97 | 1 | NA | 1.00 | 0.500 | 03/15/1213:21 | 03/14/1216:37 | IC15005 | IC15001 | HCC001S | NA | 03/14/12 |
| LCS1S | CSC001SX | 9.44 | 1 | NA | 1.00 | 0.500 | 03/15/1213:42 | 03/14/1216:37 | IC15006 | IC15001 | HCC001S | NA | 03/14/12 |
| LCS2S | CIC001SL | 366 | 10 | NA | 10.0 | 5.00 | 03/15/1214:18 | 03/14/1216:37 | IC15007 | IC15001 | HCC001S | NA | 03/14/12 |
| LCS2S | CIC001SX | 376 | 10 | NA | 10.0 | 5.00 | 03/15/1214:28 | 03/14/1216:37 | IC15008 | IC15001 | HCC001S | NA | 03/14/12 |
| SL-002-NBZ-SB-4.0-5.0 | C096-01 | ND | 1 | 7.5 | 1.08 | 0.541 | 03/15/1214:52 | 03/14/1216:37 | IC15009 | IC15001 | HCC001S | 03/12/1211:30 | 03/12/12 |
| SL-002-NBZ-SB-4.0-5.0 | C096-01R | ND | 1 | 7.5 | 1.08 | 0.541 | 03/15/1215:03 | 03/14/1216:37 | IC15010 | IC15001 | HCC001S | 03/12/1211:30 | 03/12/12 |
| SL-002-NBZ-SB-7.5-8.5 | C096-03 | ND | 1 | 7.5 | 1.08 | 0.541 | 03/15/1215:13 | 03/14/1216:37 | IC15011 | IC15001 | HCC001S | 03/12/1211:40 | 03/12/12 |
| SL-002-NBZ-SB-7.5-8.5 | C096-03R | ND | 1 | 7.5 | 1.08 | 0.541 | 03/15/1215:24 | 03/14/1216:37 | IC15012 | IC15001 | HCC001S | 03/12/1211:40 | 03/12/12 |
| SL-003-NBZ-SB-4.0-5.0 | C096-05 | ND | 1 | 5.4 | 1.06 | 0.529 | 03/15/1216:16 | 03/14/1216:37 | IC15015 | IC15013 | HCC001S | 03/12/1209:50 | 03/12/12 |
| SL-003-NBZ-SB-4.0-5.0 | C096-05R | ND | 1 | 5.4 | 1.06 | 0.529 | 03/15/1216:26 | 03/14/1216:37 | IC15016 | IC15013 | HCC001S | 03/12/1209:50 | 03/12/12 |
| SL-007-NBZ-SB-4.0-5.0 | C096-07 | ND | 1 | 8.1 | 1.09 | 0.544 | 03/15/1216:36 | 03/14/1216:37 | IC15017 | IC15013 | HCC001S | 03/12/1215:50 | 03/12/12 |
| SL-007-NBZ-SB-4.0-5.0 | C096-07R | ND | 1 | 8.1 | 1.09 | 0.544 | 03/15/1216:47 | 03/14/1216:37 | IC15018 | IC15013 | HCC001S | 03/12/1215:50 | 03/12/12 |
| SL-007-NBZ-SB-9.0-10.0 | C096-09 | ND | 1 | 8.4 | 1.09 | 0.546 | 03/15/1219:57 | 03/14/1216:37 | IC15036 | IC15034 | HCC001S | 03/12/1216:00 | 03/12/12 |
| SL-007-NBZ-SB-9.0-10.0 | C096-09R | ND | 1 | 8.4 | 1.09 | 0.546 | 03/15/1220:07 | 03/14/1216:37 | IC15037 | IC15034 | HCC001S | 03/12/1216:00 | 03/12/12 |
| SL-010-NBZ-SB-4.0-5.0 | C096-11 | ND | 1 | 7.3 | 1.08 | 0.539 | 03/15/1220:17 | 03/14/1216:37 | IC15038 | IC15034 | HCC001S | 03/12/1214:25 | 03/12/12 |
| SL-010-NBZ-SB-4.0-5.0 | C096-11R | ND | 1 | 7.3 | 1.08 | 0.539 | 03/15/1220:28 | 03/14/1216:37 | IC15039 | IC15034 | HCC001S | 03/12/1214:25 | 03/12/12 |
| SL-002-NBZ-SB-0.0-0.5 | C096-14 | ND | 1 | 3.2 | 1.03 | 0.517 | 03/15/1220:38 | 03/14/1216:37 | IC15040 | IC15034 | HCC001S | 03/12/1211:15 | 03/12/12 |
| SL-002-NBZ-SB-0.0-0.5 | C096-14R | ND | 1 | 3.2 | 1.03 | 0.517 | 03/15/1220:49 | 03/14/1216:37 | IC15041 | IC15034 | HCC001S | 03/12/1211:15 | 03/12/12 |
| SL-003-NBZ-SB-0.0-0.5 | C096-15 | ND | 1 | 4.3 | 1.04 | 0.522 | 03/15/1220:59 | 03/14/1216:37 | IC15042 | IC15034 | HCC001S | 03/12/1208:50 | 03/12/12 |
| SL-003-NBZ-SB-0.0-0.5 | C096-15R | ND | 1 | 4.3 | 1.04 | 0.522 | 03/15/1221:10 | 03/14/1216:37 | IC15043 | IC15034 | HCC001S | 03/12/1208:50 | 03/12/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 10
SAMPLE ID: MBLK1S
LAB SAMP ID: HCC001SQ CIC001SX
LAB FILE ID: IC15004 IC15008
DATE EXTRACTED: 03/14/1216:37 03/14/1216:37 DATE COLLECTED: NA
DATE ANALYZED: 03/15/1213:11 03/15/1214:28 DATE RECEIVED: 03/14/12
PREP. BATCH: HCC001S HCC001S
CALIB. REF: IC15001 IC15001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 412 | 376 | 91 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 10
SAMPLE ID: MBLK1S
LAB SAMP ID: HCC001SB CIC001SL
LAB FILE ID: IC15003 IC15007
DATE EXTRACTED: 03/14/1216:37 03/14/1216:37 DATE COLLECTED: NA
DATE ANALYZED: 03/15/1213:00 03/15/1214:18 DATE RECEIVED: 03/14/12
PREP. BATCH: HCC001S HCC001S
CALIB. REF: IC15001 IC15001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 412 | 366 | 89 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCC001SQ | CSC001SX | | |
| LAB FILE ID: | IC15004 | IC15006 | | |
| DATE EXTRACTED: | 03/14/1216:37 | 03/14/1216:37 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/15/1213:11 | 03/15/1213:42 | DATE RECEIVED: | 03/14/12 |
| PREP. BATCH: | HCC001S | HCC001S | | |
| CALIB. REF: | IC15001 | IC15001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 9.43 | 94 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C096
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCC001SB | CSC001SL | | |
| LAB FILE ID: | IC15003 | IC15005 | | |
| DATE EXTRACTED: | 03/14/1216:37 | 03/14/1216:37 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/15/1213:00 | 03/15/1213:21 | DATE RECEIVED: | 03/14/12 |
| PREP. BATCH: | HCC001S | HCC001S | | |
| CALIB. REF: | IC15001 | IC15001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 9.97 | 100 | 80-120 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C096
Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CNC004SB | ND | 1 | NA | 0.500 | 0.250 | 03/15/1218:20 | 03/15/1210:30 | CNC00410 | CNC00408 | CNC004S | NA | 03/15/12 |
| LCS1S | CNC004SL | 2.57 | 1 | NA | 0.500 | 0.250 | 03/15/1218:21 | 03/15/1210:30 | CNC00411 | CNC00408 | CNC004S | NA | 03/15/12 |
| LCD1S | CNC004SC | 2.39 | 1 | NA | 0.500 | 0.250 | 03/15/1218:21 | 03/15/1210:30 | CNC00412 | CNC00408 | CNC004S | NA | 03/15/12 |
| SL-002-NBZ-SB-4.0-5.0 | C096-01 | ND | 1 | 7.5 | 0.541 | 0.270 | 03/15/1218:21 | 03/15/1210:30 | CNC00413 | CNC00408 | CNC004S | 03/12/1211:30 | 03/12/12 |
| SL-002-NBZ-SB-7.5-8.5 | C096-03 | 0.513J | 1 | 7.5 | 0.541 | 0.270 | 03/15/1218:21 | 03/15/1210:30 | CNC00414 | CNC00408 | CNC004S | 03/12/1211:40 | 03/12/12 |
| SL-003-NBZ-SB-4.0-5.0 | C096-05 | ND | 1 | 5.4 | 0.529 | 0.264 | 03/15/1218:21 | 03/15/1210:30 | CNC00415 | CNC00408 | CNC004S | 03/12/1209:50 | 03/12/12 |
| SL-007-NBZ-SB-4.0-5.0 | C096-07 | ND | 1 | 8.1 | 0.544 | 0.272 | 03/15/1218:22 | 03/15/1210:30 | CNC00416 | CNC00408 | CNC004S | 03/12/1215:50 | 03/12/12 |
| SL-007-NBZ-SB-9.0-10.0 | C096-09 | ND | 1 | 8.4 | 0.546 | 0.273 | 03/15/1218:22 | 03/15/1210:30 | CNC00417 | CNC00408 | CNC004S | 03/12/1216:00 | 03/12/12 |
| SL-010-NBZ-SB-4.0-5.0 | C096-11 | ND | 1 | 7.3 | 0.539 | 0.270 | 03/15/1218:22 | 03/15/1210:30 | CNC00418 | CNC00408 | CNC004S | 03/12/1214:25 | 03/12/12 |
| SL-002-NBZ-SB-0.0-0.5 | C096-14 | ND | 1 | 3.2 | 0.517 | 0.258 | 03/15/1218:22 | 03/15/1210:30 | CNC00419 | CNC00408 | CNC004S | 03/12/1211:15 | 03/12/12 |
| SL-003-NBZ-SB-0.0-0.5 | C096-15 | ND | 1 | 4.3 | 0.522 | 0.261 | 03/15/1218:23 | 03/15/1210:30 | CNC00422 | CNC00420 | CNC004S | 03/12/1208:50 | 03/12/12 |
| SL-003-NBZ-SB-0.0-0.5DUP | C096-15D | ND | 1 | 4.3 | 0.522 | 0.261 | 03/15/1218:24 | 03/15/1210:30 | CNC00423 | CNC00420 | CNC004S | 03/12/1208:50 | 03/12/12 |
| SL-003-NBZ-SB-0.0-0.5MS | C096-15M | 3.07 | 1 | 4.3 | 0.522 | 0.261 | 03/15/1218:24 | 03/15/1210:30 | CNC00424 | CNC00420 | CNC004S | 03/12/1208:50 | 03/12/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C096
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CNC004SL/C

DATE RECEIVED: 03/15/12
DATE EXTRACTED: 03/15/12 10:30
DATE ANALYZED: 03/15/12 18:21/18:21

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.57 | 103 | 2.50 | 2.39 | 96 | 7 | 85-125 | 20 |

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: 4.3

BATCH NO.: 12C096
SAMPLE ID: SL-003-NBZ-SB-0.0-0.5MS
CONTROL NO.: C096-15M

DATE RECEIVED: 03/12/12
DATE EXTRACTED: 03/15/12 10:30
DATE ANALYZED: 03/15/12 18:24

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Cyanide | ND | 2.61 | 3.07 | 118 | 75-125 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: 4.3

BATCH NO.: 12C096 DATE RECEIVED: 03/12/12
SAMPLE ID: SL-003-NBZ-SB-0.0-0.5DUP DATE EXTRACTED: 03/15/12 10:30
CONTROL NO.: C096-15D DATE ANALYZED: 03/15/12 18:24

ACCESSION:

| PARAMETER | SAMPLE (mg/kg) | DUP. SAMPLE (mg/kg) | RPD ( % ) | RPD LIMIT ( % ) |
|---|---|---|---|---|
| Cyanide | ND | ND | 0 | 20 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C096
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-002-NBZ-SB-4.0-5.0 | C096-01 | 8.15 | 1 | 7.5 | NA | NA | 03/13/1215:12 | 03/13/1215:12 | 12PHC002S01 | PHC002S | PHC002S | 03/12/1211:30 | 03/12/12 |
| SL-002-NBZ-SB-4.0-5.0DUP | C096-01D | 8.18 | 1 | 7.5 | NA | NA | 03/13/1215:12 | 03/13/1215:12 | 12PHC002S02 | PHC002S | PHC002S | 03/12/1211:30 | 03/12/12 |
| SL-002-NBZ-SB-7.5-8.5 | C096-03 | 8.02 | 1 | 7.5 | NA | NA | 03/13/1215:14 | 03/13/1215:12 | 12PHC002S03 | PHC002S | PHC002S | 03/12/1211:40 | 03/12/12 |
| SL-003-NBZ-SB-4.0-5.0 | C096-05 | 8.57 | 1 | 5.4 | NA | NA | 03/13/1215:15 | 03/13/1215:12 | 12PHC002S04 | PHC002S | PHC002S | 03/12/1209:50 | 03/12/12 |
| SL-007-NBZ-SB-4.0-5.0 | C096-07 | 6.36 | 1 | 8.1 | NA | NA | 03/13/1215:20 | 03/13/1215:12 | 12PHC002S05 | PHC002S | PHC002S | 03/12/1215:50 | 03/12/12 |
| SL-007-NBZ-SB-9.0-10.0 | C096-09 | 6.65 | 1 | 8.4 | NA | NA | 03/13/1215:22 | 03/13/1215:12 | 12PHC002S06 | PHC002S | PHC002S | 03/12/1216:00 | 03/12/12 |
| SL-010-NBZ-SB-4.0-5.0 | C096-11 | 6.71 | 1 | 7.3 | NA | NA | 03/13/1215:23 | 03/13/1215:12 | 12PHC002S07 | PHC002S | PHC002S | 03/12/1214:25 | 03/12/12 |
| SL-002-NBZ-SB-0.0-0.5 | C096-14 | 7.79 | 1 | 3.2 | NA | NA | 03/13/1215:25 | 03/13/1215:12 | 12PHC002S08 | PHC002S | PHC002S | 03/12/1211:15 | 03/12/12 |
| SL-003-NBZ-SB-0.0-0.5 | C096-15 | 7.85 | 1 | 4.3 | NA | NA | 03/13/1215:26 | 03/13/1215:12 | 12PHC002S09 | PHC002S | PHC002S | 03/12/1208:50 | 03/12/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C096 DATE RECEIVED: 03/12/12
SAMPLE ID: SL-002-NBZ-SB-4.0-5.0DUP DATE EXTRACTED: 03/13/12 15:12
CONTROL NO.: C096-01D DATE ANALYZED: 03/13/12 15:12

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | QC LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 8.15 | 8.18 | 0.03 | 0.1 |

# SAMPLE DELIVERY GROUP

# 12C106

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-005-NBZ-SB-4.0-5.0 | Date Analyzed: 03/20/12 21:00 |
| Lab Samp ID: C106-02 | Dilution Factor: 1 |
| Lab File ID: RCJ246 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 9.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 93 |
| 1,2-DICHLOROBENZENE | ND | 180 | 93 |
| 1,3-DICHLOROBENZENE | ND | 180 | 93 |
| 1,4-DICHLOROBENZENE | ND | 180 | 93 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 93 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 93 |
| 2,6-DINITROTOLUENE | ND | 180 | 93 |
| 2-CHLORONAPHTHALENE | ND | 180 | 93 |
| 2-CHLOROPHENOL | ND | 180 | 93 |
| 2-METHYLNAPHTHALENE | ND | 180 | 93 |
| 2-METHYLPHENOL | ND | 180 | 93 |
| 2-NITROANILINE | ND | 180 | 93 |
| 2-NITROPHENOL | ND | 180 | 93 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 93 |
| 3-NITROANILINE | ND | 180 | 93 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 93 |
| 4-CHLOROANILINE | ND | 180 | 93 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-METHYLPHENOL (1) | ND | 180 | 93 |
| 4-NITROANILINE | ND | 180 | 93 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 93 |
| ACENAPHTHYLENE | ND | 180 | 93 |
| ANTHRACENE | ND | 180 | 93 |
| BENZO(A)ANTHRACENE | ND | 180 | 93 |
| BENZO(A)PYRENE | ND | 180 | 93 |
| BENZO(B)FLUORANTHENE | ND | 180 | 93 |
| BENZO(K)FLUORANTHENE | ND | 180 | 93 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 93 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 93 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 93 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 93 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 93 |
| CHRYSENE | ND | 180 | 93 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 93 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 93 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 93 |
| DIBENZOFURAN | ND | 180 | 93 |
| DIETHYLPHTHALATE | ND | 180 | 93 |
| DIMETHYLPHTHALATE | ND | 180 | 93 |
| FLUORANTHENE | ND | 180 | 93 |
| FLUORENE | ND | 180 | 93 |
| HEXACHLOROBENZENE | ND | 180 | 93 |
| HEXACHLOROBUTADIENE | ND | 180 | 93 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 93 |
| HEXACHLOROETHANE | ND | 180 | 93 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 93 |
| ISOPHORONE | ND | 180 | 93 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 93 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 93 |
| NAPHTHALENE | ND | 180 | 93 |
| NITROBENZENE | ND | 180 | 93 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 93 |
| PHENOL | ND | 180 | 93 |
| PYRENE | ND | 180 | 93 |
| BENZYL ALCOHOL | ND | 180 | 93 |
| 1-METHYLNAPHTHALENE | ND | 180 | 93 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 93 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 93 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 920 | 460 |
| BENZOIC ACID | ND | 740 | 370 |
| CARBAZOLE | ND | 180 | 93 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 93 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 842 | 1106 | 76.1 | 35-130 |
| 2-FLUOROBIPHENYL | 262 | 368.7 | 71.2 | 45-130 |
| 2-FLUOROPHENOL | 763 | 1106 | 69.0 | 25-130 |
| NITROBENZENE-D5 | 244 | 368.7 | 66.1 | 40-130 |
| PHENOL-D5 | 782 | 1106 | 70.7 | 25-120 |
| TERPHENYL-D14 | 297 | 368.7 | 80.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-006-NBZ-SB-3.0-4.0 | Date Analyzed: 03/20/12 21:19 |
| Lab Samp ID: C106-04 | Dilution Factor: 1 |
| Lab File ID: RCJ247 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 6.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 89 |
| 1,2-DICHLOROBENZENE | ND | 180 | 89 |
| 1,3-DICHLOROBENZENE | ND | 180 | 89 |
| 1,4-DICHLOROBENZENE | ND | 180 | 89 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 89 |
| 2,4-DINITROPHENOL | ND | 350 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 89 |
| 2,6-DINITROTOLUENE | ND | 180 | 89 |
| 2-CHLORONAPHTHALENE | ND | 180 | 89 |
| 2-CHLOROPHENOL | ND | 180 | 89 |
| 2-METHYLNAPHTHALENE | ND | 180 | 89 |
| 2-METHYLPHENOL | ND | 180 | 89 |
| 2-NITROANILINE | ND | 180 | 89 |
| 2-NITROPHENOL | ND | 180 | 89 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 89 |
| 3-NITROANILINE | ND | 180 | 89 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 89 |
| 4-CHLOROANILINE | ND | 180 | 89 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-METHYLPHENOL (1) | ND | 180 | 89 |
| 4-NITROANILINE | ND | 180 | 89 |
| 4-NITROPHENOL | ND | 350 | 180 |
| ACENAPHTHENE | ND | 180 | 89 |
| ACENAPHTHYLENE | ND | 180 | 89 |
| ANTHRACENE | ND | 180 | 89 |
| BENZO(A)ANTHRACENE | ND | 180 | 89 |
| BENZO(A)PYRENE | ND | 180 | 89 |
| BENZO(B)FLUORANTHENE | ND | 180 | 89 |
| BENZO(K)FLUORANTHENE | ND | 180 | 89 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 89 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 89 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 89 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 89 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 89 |
| CHRYSENE | ND | 180 | 89 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 89 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 89 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 89 |
| DIBENZOFURAN | ND | 180 | 89 |
| DIETHYLPHTHALATE | ND | 180 | 89 |
| DIMETHYLPHTHALATE | ND | 180 | 89 |
| FLUORANTHENE | ND | 180 | 89 |
| FLUORENE | ND | 180 | 89 |
| HEXACHLOROBENZENE | ND | 180 | 89 |
| HEXACHLOROBUTADIENE | ND | 180 | 89 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 89 |
| HEXACHLOROETHANE | ND | 180 | 89 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 89 |
| ISOPHORONE | ND | 180 | 89 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 89 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 89 |
| NAPHTHALENE | ND | 180 | 89 |
| NITROBENZENE | ND | 180 | 89 |
| PENTACHLOROPHENOL | ND | 350 | 180 |
| PHENANTHRENE | ND | 180 | 89 |
| PHENOL | ND | 180 | 89 |
| PYRENE | ND | 180 | 89 |
| BENZYL ALCOHOL | ND | 180 | 89 |
| 1-METHYLNAPHTHALENE | ND | 180 | 89 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 89 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 89 |
| ANILINE | ND | 350 | 180 |
| BENZIDINE | ND | 880 | 450 |
| BENZOIC ACID | ND | 710 | 360 |
| CARBAZOLE | ND | 180 | 89 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 89 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 815 | 1064 | 76.6 | 35-130 |
| 2-FLUOROBIPHENYL | 240 | 354.6 | 67.8 | 45-130 |
| 2-FLUOROPHENOL | 694 | 1064 | 65.3 | 25-130 |
| NITROBENZENE-D5 | 216 | 354.6 | 61.0 | 40-130 |
| PHENOL-D5 | 709 | 1064 | 66.6 | 25-120 |
| TERPHENYL-D14 | 317 | 354.6 | 89.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-015-NBZ-SS-0.0-0.5 | Date Analyzed: 03/20/12 21:38 |
| Lab Samp ID: C106-05 | Dilution Factor: 1 |
| Lab File ID: RCJ248 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 1.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 85 |
| 1,2-DICHLOROBENZENE | ND | 170 | 85 |
| 1,3-DICHLOROBENZENE | ND | 170 | 85 |
| 1,4-DICHLOROBENZENE | ND | 170 | 85 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 85 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 85 |
| 2,4-DICHLOROPHENOL | ND | 170 | 85 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 85 |
| 2,4-DINITROPHENOL | ND | 340 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 85 |
| 2,6-DINITROTOLUENE | ND | 170 | 85 |
| 2-CHLORONAPHTHALENE | ND | 170 | 85 |
| 2-CHLOROPHENOL | ND | 170 | 85 |
| 2-METHYLNAPHTHALENE | ND | 170 | 85 |
| 2-METHYLPHENOL | ND | 170 | 85 |
| 2-NITROANILINE | ND | 170 | 85 |
| 2-NITROPHENOL | ND | 170 | 85 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 85 |
| 3-NITROANILINE | ND | 170 | 85 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 340 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 85 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 85 |
| 4-CHLOROANILINE | ND | 170 | 85 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 85 |
| 4-METHYLPHENOL (1) | ND | 170 | 85 |
| 4-NITROANILINE | ND | 170 | 85 |
| 4-NITROPHENOL | ND | 340 | 170 |
| ACENAPHTHENE | ND | 170 | 85 |
| ACENAPHTHYLENE | ND | 170 | 85 |
| ANTHRACENE | ND | 170 | 85 |
| BENZO(A)ANTHRACENE | ND | 170 | 85 |
| BENZO(A)PYRENE | ND | 170 | 85 |
| BENZO(B)FLUORANTHENE | ND | 170 | 85 |
| BENZO(K)FLUORANTHENE | ND | 170 | 85 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 85 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 85 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 85 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 85 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 85 |
| CHRYSENE | ND | 170 | 85 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 85 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 85 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 85 |
| DIBENZOFURAN | ND | 170 | 85 |
| DIETHYLPHTHALATE | ND | 170 | 85 |
| DIMETHYLPHTHALATE | ND | 170 | 85 |
| FLUORANTHENE | ND | 170 | 85 |
| FLUORENE | ND | 170 | 85 |
| HEXACHLOROBENZENE | ND | 170 | 85 |
| HEXACHLOROBUTADIENE | ND | 170 | 85 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 85 |
| HEXACHLOROETHANE | ND | 170 | 85 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 85 |
| ISOPHORONE | ND | 170 | 85 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 85 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 85 |
| NAPHTHALENE | ND | 170 | 85 |
| NITROBENZENE | ND | 170 | 85 |
| PENTACHLOROPHENOL | ND | 340 | 170 |
| PHENANTHRENE | ND | 170 | 85 |
| PHENOL | ND | 170 | 85 |
| PYRENE | ND | 170 | 85 |
| BENZYL ALCOHOL | ND | 170 | 85 |
| 1-METHYLNAPHTHALENE | ND | 170 | 85 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 85 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 85 |
| ANILINE | ND | 340 | 170 |
| BENZIDINE | ND | 840 | 430 |
| BENZOIC ACID | ND | 680 | 340 |
| CARBAZOLE | ND | 170 | 85 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 85 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 801 | 1016 | 78.8 | 35-130 |
| 2-FLUOROBIPHENYL | 247 | 338.7 | 73.0 | 45-130 |
| 2-FLUOROPHENOL | 678 | 1016 | 66.7 | 25-130 |
| NITROBENZENE-D5 | 222 | 338.7 | 65.6 | 40-130 |
| PHENOL-D5 | 688 | 1016 | 67.7 | 25-120 |
| TERPHENYL-D14 | 285 | 338.7 | 84.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-019-NBZ-SS-0.0-0.5 | Date Analyzed: 03/20/12 21:56 |
| Lab Samp ID: C106-06 | Dilution Factor: 1 |
| Lab File ID: RCJ249 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 3.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 87 |
| 1,2-DICHLOROBENZENE | ND | 170 | 87 |
| 1,3-DICHLOROBENZENE | ND | 170 | 87 |
| 1,4-DICHLOROBENZENE | ND | 170 | 87 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 87 |
| 2,4-DINITROPHENOL | ND | 340 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 87 |
| 2,6-DINITROTOLUENE | ND | 170 | 87 |
| 2-CHLORONAPHTHALENE | ND | 170 | 87 |
| 2-CHLOROPHENOL | ND | 170 | 87 |
| 2-METHYLNAPHTHALENE | ND | 170 | 87 |
| 2-METHYLPHENOL | ND | 170 | 87 |
| 2-NITROANILINE | ND | 170 | 87 |
| 2-NITROPHENOL | ND | 170 | 87 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 87 |
| 3-NITROANILINE | ND | 170 | 87 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 340 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 87 |
| 4-CHLOROANILINE | ND | 170 | 87 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-METHYLPHENOL (1) | ND | 170 | 87 |
| 4-NITROANILINE | ND | 170 | 87 |
| 4-NITROPHENOL | ND | 340 | 170 |
| ACENAPHTHENE | ND | 170 | 87 |
| ACENAPHTHYLENE | ND | 170 | 87 |
| ANTHRACENE | ND | 170 | 87 |
| BENZO(A)ANTHRACENE | ND | 170 | 87 |
| BENZO(A)PYRENE | ND | 170 | 87 |
| BENZO(B)FLUORANTHENE | ND | 170 | 87 |
| BENZO(K)FLUORANTHENE | ND | 170 | 87 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 87 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 87 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 87 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 87 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 87 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 87 |
| CHRYSENE | ND | 170 | 87 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 87 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 87 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 87 |
| DIBENZOFURAN | ND | 170 | 87 |
| DIETHYLPHTHALATE | ND | 170 | 87 |
| DIMETHYLPHTHALATE | ND | 170 | 87 |
| FLUORANTHENE | ND | 170 | 87 |
| FLUORENE | ND | 170 | 87 |
| HEXACHLOROBENZENE | ND | 170 | 87 |
| HEXACHLOROBUTADIENE | ND | 170 | 87 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 87 |
| HEXACHLOROETHANE | ND | 170 | 87 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 87 |
| ISOPHORONE | ND | 170 | 87 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 87 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 87 |
| NAPHTHALENE | ND | 170 | 87 |
| NITROBENZENE | ND | 170 | 87 |
| PENTACHLOROPHENOL | ND | 340 | 170 |
| PHENANTHRENE | ND | 170 | 87 |
| PHENOL | ND | 170 | 87 |
| PYRENE | ND | 170 | 87 |
| BENZYL ALCOHOL | ND | 170 | 87 |
| 1-METHYLNAPHTHALENE | ND | 170 | 87 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 87 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 87 |
| ANILINE | ND | 340 | 170 |
| BENZIDINE | ND | 860 | 430 |
| BENZOIC ACID | ND | 690 | 340 |
| CARBAZOLE | ND | 170 | 87 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 87 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 825 | 1032 | 80.0 | 35-130 |
| 2-FLUOROBIPHENYL | 228 | 344.0 | 66.4 | 45-130 |
| 2-FLUOROPHENOL | 614 | 1032 | 59.5 | 25-130 |
| NITROBENZENE-D5 | 198 | 344.0 | 57.5 | 40-130 |
| PHENOL-D5 | 637 | 1032 | 61.7 | 25-120 |
| TERPHENYL-D14 | 299 | 344.0 | 86.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-019-NBZ-SB-3.0-4.0 | Date Analyzed: 03/20/12 22:15 |
| Lab Samp ID: C106-08 | Dilution Factor: 1 |
| Lab File ID: RCJ250 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 5.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 89 |
| 1,2-DICHLOROBENZENE | ND | 180 | 89 |
| 1,3-DICHLOROBENZENE | ND | 180 | 89 |
| 1,4-DICHLOROBENZENE | ND | 180 | 89 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 89 |
| 2,4-DINITROPHENOL | ND | 350 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 89 |
| 2,6-DINITROTOLUENE | ND | 180 | 89 |
| 2-CHLORONAPHTHALENE | ND | 180 | 89 |
| 2-CHLOROPHENOL | ND | 180 | 89 |
| 2-METHYLNAPHTHALENE | ND | 180 | 89 |
| 2-METHYLPHENOL | ND | 180 | 89 |
| 2-NITROANILINE | ND | 180 | 89 |
| 2-NITROPHENOL | ND | 180 | 89 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 89 |
| 3-NITROANILINE | ND | 180 | 89 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 89 |
| 4-CHLOROANILINE | ND | 180 | 89 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-METHYLPHENOL (1) | ND | 180 | 89 |
| 4-NITROANILINE | ND | 180 | 89 |
| 4-NITROPHENOL | ND | 350 | 180 |
| ACENAPHTHENE | ND | 180 | 89 |
| ACENAPHTHYLENE | ND | 180 | 89 |
| ANTHRACENE | ND | 180 | 89 |
| BENZO(A)ANTHRACENE | ND | 180 | 89 |
| BENZO(A)PYRENE | ND | 180 | 89 |
| BENZO(B)FLUORANTHENE | ND | 180 | 89 |
| BENZO(K)FLUORANTHENE | ND | 180 | 89 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 89 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 89 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 89 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 89 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 89 |
| CHRYSENE | ND | 180 | 89 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 89 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 89 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 89 |
| DIBENZOFURAN | ND | 180 | 89 |
| DIETHYLPHTHALATE | ND | 180 | 89 |
| DIMETHYLPHTHALATE | ND | 180 | 89 |
| FLUORANTHENE | ND | 180 | 89 |
| FLUORENE | ND | 180 | 89 |
| HEXACHLOROBENZENE | ND | 180 | 89 |
| HEXACHLOROBUTADIENE | ND | 180 | 89 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 89 |
| HEXACHLOROETHANE | ND | 180 | 89 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 89 |
| ISOPHORONE | ND | 180 | 89 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 89 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 89 |
| NAPHTHALENE | ND | 180 | 89 |
| NITROBENZENE | ND | 180 | 89 |
| PENTACHLOROPHENOL | ND | 350 | 180 |
| PHENANTHRENE | ND | 180 | 89 |
| PHENOL | ND | 180 | 89 |
| PYRENE | ND | 180 | 89 |
| BENZYL ALCOHOL | ND | 180 | 89 |
| 1-METHYLNAPHTHALENE | ND | 180 | 89 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 89 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 89 |
| ANILINE | ND | 350 | 180 |
| BENZIDINE | ND | 880 | 450 |
| BENZOIC ACID | ND | 710 | 350 |
| CARBAZOLE | ND | 180 | 89 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 89 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 812 | 1062 | 76.5 | 35-130 |
| 2-FLUOROBIPHENYL | 255 | 353.8 | 72.1 | 45-130 |
| 2-FLUOROPHENOL | 724 | 1062 | 68.2 | 25-130 |
| NITROBENZENE-D5 | 232 | 353.8 | 65.7 | 40-130 |
| PHENOL-D5 | 729 | 1062 | 68.7 | 25-120 |
| TERPHENYL-D14 | 304 | 353.8 | 86.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-021-NBZ-SS-0.0-0.5 | Date Analyzed: 03/20/12 22:34 |
| Lab Samp ID: C106-09 | Dilution Factor: 1 |
| Lab File ID: RCJ251 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 2.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 86 |
| 1,2-DICHLOROBENZENE | ND | 170 | 86 |
| 1,3-DICHLOROBENZENE | ND | 170 | 86 |
| 1,4-DICHLOROBENZENE | ND | 170 | 86 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 86 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 86 |
| 2,4-DICHLOROPHENOL | ND | 170 | 86 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 86 |
| 2,4-DINITROPHENOL | ND | 340 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 86 |
| 2,6-DINITROTOLUENE | ND | 170 | 86 |
| 2-CHLORONAPHTHALENE | ND | 170 | 86 |
| 2-CHLOROPHENOL | ND | 170 | 86 |
| 2-METHYLNAPHTHALENE | ND | 170 | 86 |
| 2-METHYLPHENOL | ND | 170 | 86 |
| 2-NITROANILINE | ND | 170 | 86 |
| 2-NITROPHENOL | ND | 170 | 86 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 86 |
| 3-NITROANILINE | ND | 170 | 86 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 340 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 86 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 86 |
| 4-CHLOROANILINE | ND | 170 | 86 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 86 |
| 4-METHYLPHENOL (1) | ND | 170 | 86 |
| 4-NITROANILINE | ND | 170 | 86 |
| 4-NITROPHENOL | ND | 340 | 170 |
| ACENAPHTHENE | ND | 170 | 86 |
| ACENAPHTHYLENE | ND | 170 | 86 |
| ANTHRACENE | ND | 170 | 86 |
| BENZO(A)ANTHRACENE | ND | 170 | 86 |
| BENZO(A)PYRENE | ND | 170 | 86 |
| BENZO(B)FLUORANTHENE | ND | 170 | 86 |
| BENZO(K)FLUORANTHENE | ND | 170 | 86 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 86 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 86 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 86 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 86 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 86 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 86 |
| CHRYSENE | ND | 170 | 86 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 86 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 86 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 86 |
| DIBENZOFURAN | ND | 170 | 86 |
| DIETHYLPHTHALATE | ND | 170 | 86 |
| DIMETHYLPHTHALATE | ND | 170 | 86 |
| FLUORANTHENE | ND | 170 | 86 |
| FLUORENE | ND | 170 | 86 |
| HEXACHLOROBENZENE | ND | 170 | 86 |
| HEXACHLOROBUTADIENE | ND | 170 | 86 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 86 |
| HEXACHLOROETHANE | ND | 170 | 86 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 86 |
| ISOPHORONE | ND | 170 | 86 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 86 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 86 |
| NAPHTHALENE | ND | 170 | 86 |
| NITROBENZENE | ND | 170 | 86 |
| PENTACHLOROPHENOL | ND | 340 | 170 |
| PHENANTHRENE | ND | 170 | 86 |
| PHENOL | ND | 170 | 86 |
| PYRENE | ND | 170 | 86 |
| BENZYL ALCOHOL | ND | 170 | 86 |
| 1-METHYLNAPHTHALENE | ND | 170 | 86 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 86 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 86 |
| ANILINE | ND | 340 | 170 |
| BENZIDINE | ND | 850 | 430 |
| BENZOIC ACID | ND | 690 | 340 |
| CARBAZOLE | ND | 170 | 86 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 86 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 845 | 1028 | 82.2 | 35-130 |
| 2-FLUOROBIPHENYL | 259 | 342.5 | 75.8 | 45-130 |
| 2-FLUOROPHENOL | 719 | 1028 | 69.9 | 25-130 |
| NITROBENZENE-D5 | 243 | 342.5 | 70.9 | 40-130 |
| PHENOL-D5 | 740 | 1028 | 72.0 | 25-120 |
| TERPHENYL-D14 | 310 | 342.5 | 90.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-021-NBZ-SB-4.0-5.0 | Date Analyzed: 03/20/12 22:53 |
| Lab Samp ID: C106-11 | Dilution Factor: 1 |
| Lab File ID: RCJ252 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 3.9 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 87 |
| 1,2-DICHLOROBENZENE | ND | 170 | 87 |
| 1,3-DICHLOROBENZENE | ND | 170 | 87 |
| 1,4-DICHLOROBENZENE | ND | 170 | 87 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 87 |
| 2,4-DINITROPHENOL | ND | 350 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 87 |
| 2,6-DINITROTOLUENE | ND | 170 | 87 |
| 2-CHLORONAPHTHALENE | ND | 170 | 87 |
| 2-CHLOROPHENOL | ND | 170 | 87 |
| 2-METHYLNAPHTHALENE | ND | 170 | 87 |
| 2-METHYLPHENOL | ND | 170 | 87 |
| 2-NITROANILINE | ND | 170 | 87 |
| 2-NITROPHENOL | ND | 170 | 87 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 87 |
| 3-NITROANILINE | ND | 170 | 87 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 87 |
| 4-CHLOROANILINE | ND | 170 | 87 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-METHYLPHENOL (1) | ND | 170 | 87 |
| 4-NITROANILINE | ND | 170 | 87 |
| 4-NITROPHENOL | ND | 350 | 170 |
| ACENAPHTHENE | ND | 170 | 87 |
| ACENAPHTHYLENE | ND | 170 | 87 |
| ANTHRACENE | ND | 170 | 87 |
| BENZO(A)ANTHRACENE | ND | 170 | 87 |
| BENZO(A)PYRENE | ND | 170 | 87 |
| BENZO(B)FLUORANTHENE | ND | 170 | 87 |
| BENZO(K)FLUORANTHENE | ND | 170 | 87 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 87 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 87 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 87 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 87 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 87 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 87 |
| CHRYSENE | ND | 170 | 87 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 87 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 87 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 87 |
| DIBENZOFURAN | ND | 170 | 87 |
| DIETHYLPHTHALATE | ND | 170 | 87 |
| DIMETHYLPHTHALATE | ND | 170 | 87 |
| FLUORANTHENE | ND | 170 | 87 |
| FLUORENE | ND | 170 | 87 |
| HEXACHLOROBENZENE | ND | 170 | 87 |
| HEXACHLOROBUTADIENE | ND | 170 | 87 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 87 |
| HEXACHLOROETHANE | ND | 170 | 87 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 87 |
| ISOPHORONE | ND | 170 | 87 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 87 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 87 |
| NAPHTHALENE | ND | 170 | 87 |
| NITROBENZENE | ND | 170 | 87 |
| PENTACHLOROPHENOL | ND | 350 | 170 |
| PHENANTHRENE | ND | 170 | 87 |
| PHENOL | ND | 170 | 87 |
| PYRENE | ND | 170 | 87 |
| BENZYL ALCOHOL | ND | 170 | 87 |
| 1-METHYLNAPHTHALENE | ND | 170 | 87 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 87 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 87 |
| ANILINE | ND | 350 | 170 |
| BENZIDINE | ND | 860 | 440 |
| BENZOIC ACID | ND | 690 | 350 |
| CARBAZOLE | ND | 170 | 87 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 87 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 768 | 1041 | 73.8 | 35-130 |
| 2-FLUOROBIPHENYL | 247 | 346.8 | 71.3 | 45-130 |
| 2-FLUOROPHENOL | 703 | 1041 | 67.5 | 25-130 |
| NITROBENZENE-D5 | 234 | 346.8 | 67.6 | 40-130 |
| PHENOL-D5 | 717 | 1041 | 68.9 | 25-120 |
| TERPHENYL-D14 | 291 | 346.8 | 84.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 14:42 |
| Sample ID: MBLK1S | Date Analyzed: 03/20/12 18:03 |
| Lab Samp ID: SVC024SB | Dilution Factor: 1 |
| Lab File ID: RCJ237 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 896 | 1000 | 89.6 | 35-130 |
| 2-FLUOROBIPHENYL | 286 | 333.3 | 85.9 | 45-130 |
| 2-FLUOROPHENOL | 820 | 1000 | 82.0 | 25-130 |
| NITROBENZENE-D5 | 261 | 333.3 | 78.4 | 40-130 |
| PHENOL-D5 | 836 | 1000 | 83.6 | 25-120 |
| TERPHENYL-D14 | 340 | 333.3 | 102 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVC024SB SVC024SL SVC024SC
LAB FILE ID: RCJ237 RCJ238 RCJ239
DATE EXTRACTED: 03/20/1214:42 03/20/1214:42 03/20/1214:42 DATE COLLECTED: NA
DATE ANALYZED: 03/20/1218:03 03/20/1218:30 03/20/1218:49 DATE RECEIVED: 03/20/12
PREP. BATCH: SVC024S SVC024S SVC024S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 451 | 68 | 667 | 441 | 66 | 2 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 455 | 68 | 667 | 453 | 68 | 0 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 450 | 67 | 667 | 441 | 66 | 2 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 450 | 67 | 667 | 442 | 66 | 2 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 481 | 72 | 667 | 508 | 76 | 5 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 533 | 80 | 667 | 532 | 80 | 0 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 529 | 79 | 667 | 536 | 80 | 1 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 512 | 77 | 667 | 522 | 78 | 2 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 443 | 66 | 667 | 415 | 62 | 7 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 639 | 96 | 667 | 561 | 84 | 13 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 566 | 85 | 667 | 563 | 84 | 1 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 547 | 82 | 667 | 494 | 74 | 10 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 500 | 75 | 667 | 529 | 79 | 6 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 561 | 84 | 667 | 574 | 86 | 2 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 458 | 69 | 667 | 464 | 70 | 1 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 518 | 78 | 667 | 526 | 79 | 1 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 541 | 81 | 667 | 545 | 82 | 1 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 546 | 82 | 667 | 491 | 74 | 11 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 502 | 75 | 667 | 484 | 73 | 4 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 604 | 91 | 667 | 543 | 81 | 11 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 521 | 78 | 667 | 560 | 84 | 7 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 510 | 76 | 667 | 526 | 79 | 3 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 433 | 65 | 667 | 441 | 66 | 2 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 567 | 85 | 667 | 582 | 87 | 3 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 520 | 78 | 667 | 485 | 73 | 7 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 582 | 87 | 667 | 536 | 80 | 8 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 504 | 76 | 667 | 414 | 62 | 20 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 555 | 83 | 667 | 561 | 84 | 1 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 571 | 86 | 667 | 575 | 86 | 1 | 30-130 | 50 |
| Anthracene | ND | 667 | 590 | 88 | 667 | 571 | 86 | 3 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 661 | 99 | 667 | 587 | 88 | 12 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 637 | 96 | 667 | 559 | 84 | 13 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 675 | 101 | 667 | 618 | 93 | 9 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 677 | 102 | 667 | 589 | 88 | 14 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 697 | 105 | 667 | 619 | 93 | 12 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 557 | 83 | 667 | 540 | 81 | 3 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 516 | 77 | 667 | 524 | 79 | 2 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 565 | 85 | 667 | 573 | 86 | 1 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 657 | 99 | 667 | 577 | 87 | 13 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 660 | 99 | 667 | 567 | 85 | 15 | 40-150 | 50 |
| Chrysene | ND | 667 | 686 | 103 | 667 | 611 | 92 | 12 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 623 | 93 | 667 | 553 | 83 | 12 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 637 | 96 | 667 | 570 | 85 | 11 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 697 | 105 | 667 | 612 | 92 | 13 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 536 | 80 | 667 | 544 | 82 | 1 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 576 | 86 | 667 | 536 | 80 | 7 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 542 | 81 | 667 | 533 | 80 | 2 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 678 | 102 | 667 | 600 | 90 | 12 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 569 | 85 | 667 | 575 | 86 | 1 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 554 | 83 | 667 | 539 | 81 | 3 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 488 | 73 | 667 | 480 | 72 | 2 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 336 | 50 | 667 | 323 | 48 | 4 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 460 | 69 | 667 | 440 | 66 | 4 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 697 | 105 | 667 | 620 | 93 | 12 | 30-140 | 50 |
| Isophorone | ND | 667 | 545 | 82 | 667 | 565 | 85 | 4 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 430 | 64 | 667 | 429 | 64 | 0 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 431 | 65 | 667 | 437 | 66 | 1 | 30-140 | 50 |
| Naphthalene | ND | 667 | 545 | 82 | 667 | 544 | 82 | 0 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 511 | 77 | 667 | 550 | 82 | 7 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 568 | 85 | 667 | 501 | 75 | 13 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 618 | 93 | 667 | 597 | 90 | 4 | 30-130 | 50 |
| Phenol | ND | 667 | 508 | 76 | 667 | 501 | 75 | 1 | 30-130 | 50 |
| Pyrene | ND | 667 | 649 | 97 | 667 | 583 | 87 | 11 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 467 | 70 | 667 | 487 | 73 | 4 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 564 | 85 | 667 | 574 | 86 | 2 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 480 | 72 | 667 | 525 | 79 | 9 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 497 | 75 | 667 | 542 | 81 | 9 | 20-150 | 50 |
| Aniline | ND | 667 | 358 | 54 | 667 | 351 | 53 | 2 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1230 | 46 | 2670 | 1130 | 42 | 8 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 712 | 27 | 2670 | 754 | 28 | 6 | 10-130 | 50 |
| Carbazole | ND | 667 | 605 | 91 | 667 | 538 | 81 | 12 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 541 | 81 | 667 | 530 | 80 | 2 | 30-150 | 50 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 824 | 82 | 1000 | 858 | 86 | 35-130 |
| 2-Fluorobiphenyl | 333 | 238 | 71 | 333 | 249 | 75 | 45-130 |
| 2-Fluorophenol | 1000 | 685 | 69 | 1000 | 700 | 70 | 25-130 |
| Nitrobenzene-d5 | 333 | 227 | 68 | 333 | 240 | 72 | 40-130 |
| Phenol-d5 | 1000 | 684 | 68 | 1000 | 716 | 72 | 25-120 |
| Terphenyl-d14 | 333 | 312 | 93 | 333 | 287 | 86 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-005-NBZ-SB-4.0-5.0 | Date Analyzed: 03/20/12 21:00 |
| Lab Samp ID: C106-02 | Dilution Factor: 1 |
| Lab File ID: RCJ246 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 9.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.94 |
| ACENAPHTHYLENE | ND | 1.9 | 0.94 |
| ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)PYRENE | ND | 1.9 | 0.94 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.94 |
| CHRYSENE | ND | 1.9 | 0.94 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.94 |
| FLUORANTHENE | ND | 1.9 | 0.94 |
| FLUORENE | ND | 1.9 | 0.94 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.94 |
| NAPHTHALENE | ND | 1.9 | 0.94 |
| PHENANTHRENE | ND | 1.9 | 0.94 |
| PYRENE | ND | 1.9 | 0.94 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 9.3 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.3 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.3 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.3 |
| DIETHYLPHTHALATE | ND | 18 | 9.3 |
| DIMETHYLPHTHALATE | ND | 18 | 9.3 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.94 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 262 | 368.7 | 71.2 | 40-130 |
| 2-FLUOROBIPHENYL | 254 | 368.7 | 68.8 | 45-130 |
| TERPHENYL-D14 | 296 | 368.7 | 80.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-006-NBZ-SB-3.0-4.0 | Date Analyzed: 03/20/12 21:19 |
| Lab Samp ID: C106-04 | Dilution Factor: 1 |
| Lab File ID: RCJ247 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 6.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | 1.2J | 1.8 | 0.90 |
| ACENAPHTHYLENE | 1.1J | 1.8 | 0.90 |
| ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)PYRENE | ND | 1.8 | 0.90 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.90 |
| CHRYSENE | ND | 1.8 | 0.90 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.90 |
| FLUORANTHENE | ND | 1.8 | 0.90 |
| FLUORENE | ND | 1.8 | 0.90 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.90 |
| NAPHTHALENE | 1.8J | 1.8 | 0.90 |
| PHENANTHRENE | ND | 1.8 | 0.90 |
| PYRENE | ND | 1.8 | 0.90 |
| 2-METHYLNAPHTHALENE | 1.3J | 1.8 | 0.90 |
| 1-METHYLNAPHTHALENE | 1.4J | 1.8 | 0.90 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 8.9 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 8.9 |
| DIETHYLPHTHALATE | ND | 18 | 8.9 |
| DIMETHYLPHTHALATE | ND | 18 | 8.9 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.90 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 240 | 354.6 | 67.6 | 40-130 |
| 2-FLUOROBIPHENYL | 229 | 354.6 | 64.7 | 45-130 |
| TERPHENYL-D14 | 311 | 354.6 | 87.8 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-015-NBZ-SS-0.0-0.5 | Date Analyzed: 03/20/12 21:38 |
| Lab Samp ID: C106-05 | Dilution Factor: 1 |
| Lab File ID: RCJ248 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 1.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.86 |
| ACENAPHTHYLENE | ND | 1.7 | 0.86 |
| ANTHRACENE | ND | 1.7 | 0.86 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.86 |
| BENZO(A)PYRENE | ND | 1.7 | 0.86 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.86 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.86 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.86 |
| CHRYSENE | ND | 1.7 | 0.86 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.86 |
| FLUORANTHENE | ND | 1.7 | 0.86 |
| FLUORENE | ND | 1.7 | 0.86 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.86 |
| NAPHTHALENE | ND | 1.7 | 0.86 |
| PHENANTHRENE | ND | 1.7 | 0.86 |
| PYRENE | ND | 1.7 | 0.86 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.86 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.86 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.5 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.5 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.5 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.5 |
| DIETHYLPHTHALATE | ND | 17 | 8.5 |
| DIMETHYLPHTHALATE | ND | 17 | 8.5 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.86 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 240 | 338.7 | 71.0 | 40-130 |
| 2-FLUOROBIPHENYL | 234 | 338.7 | 69.0 | 45-130 |
| TERPHENYL-D14 | 295 | 338.7 | 87.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-019-NBZ-SS-0.0-0.5 | Date Analyzed: 03/20/12 21:56 |
| Lab Samp ID: C106-06 | Dilution Factor: 1 |
| Lab File ID: RCJ249 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 3.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.88 |
| ACENAPHTHYLENE | ND | 1.8 | 0.88 |
| ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)PYRENE | ND | 1.8 | 0.88 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(G,H,I)PERYLENE | 0.90J | 1.8 | 0.88 |
| CHRYSENE | ND | 1.8 | 0.88 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.88 |
| FLUORANTHENE | 1.3J | 1.8 | 0.88 |
| FLUORENE | ND | 1.8 | 0.88 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.88 |
| NAPHTHALENE | ND | 1.8 | 0.88 |
| PHENANTHRENE | ND | 1.8 | 0.88 |
| PYRENE | 1.2J | 1.8 | 0.88 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 11J | 17 | 8.7 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.7 |
| DIETHYLPHTHALATE | ND | 17 | 8.7 |
| DIMETHYLPHTHALATE | ND | 17 | 8.7 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.88 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 206 | 344.0 | 59.8 | 40-130 |
| 2-FLUOROBIPHENYL | 215 | 344.0 | 62.4 | 45-130 |
| TERPHENYL-D14 | 299 | 344.0 | 87.0 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-019-NBZ-SB-3.0-4.0 | Date Analyzed: 03/20/12 22:15 |
| Lab Samp ID: C106-08 | Dilution Factor: 1 |
| Lab File ID: RCJ250 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 5.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.90 |
| ACENAPHTHYLENE | ND | 1.8 | 0.90 |
| ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)PYRENE | ND | 1.8 | 0.90 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.90 |
| CHRYSENE | ND | 1.8 | 0.90 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.90 |
| FLUORANTHENE | ND | 1.8 | 0.90 |
| FLUORENE | ND | 1.8 | 0.90 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.90 |
| NAPHTHALENE | ND | 1.8 | 0.90 |
| PHENANTHRENE | ND | 1.8 | 0.90 |
| PYRENE | ND | 1.8 | 0.90 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 8.9 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 8.9 |
| DIETHYLPHTHALATE | ND | 18 | 8.9 |
| DIMETHYLPHTHALATE | ND | 18 | 8.9 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.90 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 246 | 353.8 | 69.4 | 40-130 |
| 2-FLUOROBIPHENYL | 241 | 353.8 | 68.1 | 45-130 |
| TERPHENYL-D14 | 304 | 353.8 | 85.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-021-NBZ-SS-0.0-0.5 | Date Analyzed: 03/20/12 22:34 |
| Lab Samp ID: C106-09 | Dilution Factor: 1 |
| Lab File ID: RCJ251 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 2.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.87 |
| ACENAPHTHYLENE | ND | 1.7 | 0.87 |
| ANTHRACENE | ND | 1.7 | 0.87 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.87 |
| BENZO(A)PYRENE | ND | 1.7 | 0.87 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.87 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.87 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.87 |
| CHRYSENE | ND | 1.7 | 0.87 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.87 |
| FLUORANTHENE | ND | 1.7 | 0.87 |
| FLUORENE | ND | 1.7 | 0.87 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.87 |
| NAPHTHALENE | ND | 1.7 | 0.87 |
| PHENANTHRENE | ND | 1.7 | 0.87 |
| PYRENE | ND | 1.7 | 0.87 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.87 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.87 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.6 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.6 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.6 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.6 |
| DIETHYLPHTHALATE | ND | 17 | 8.6 |
| DIMETHYLPHTHALATE | ND | 17 | 8.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.87 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 266 | 342.5 | 77.6 | 40-130 |
| 2-FLUOROBIPHENYL | 251 | 342.5 | 73.4 | 45-130 |
| TERPHENYL-D14 | 310 | 342.5 | 90.4 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-021-NBZ-SB-4.0-5.0 | Date Analyzed: 03/20/12 22:53 |
| Lab Samp ID: C106-11 | Dilution Factor: 1 |
| Lab File ID: RCJ252 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 3.9 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.88 |
| ACENAPHTHYLENE | ND | 1.8 | 0.88 |
| ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)PYRENE | ND | 1.8 | 0.88 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.88 |
| CHRYSENE | ND | 1.8 | 0.88 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.88 |
| FLUORANTHENE | ND | 1.8 | 0.88 |
| FLUORENE | ND | 1.8 | 0.88 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.88 |
| NAPHTHALENE | ND | 1.8 | 0.88 |
| PHENANTHRENE | ND | 1.8 | 0.88 |
| PYRENE | ND | 1.8 | 0.88 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.7 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.7 |
| DIETHYLPHTHALATE | ND | 17 | 8.7 |
| DIMETHYLPHTHALATE | ND | 17 | 8.7 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.88 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 242 | 346.8 | 69.9 | 40-130 |
| 2-FLUOROBIPHENYL | 243 | 346.8 | 69.9 | 45-130 |
| TERPHENYL-D14 | 288 | 346.8 | 83.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 14:42 |
| Sample ID: MBLK1S | Date Analyzed: 03/20/12 18:03 |
| Lab Samp ID: SVC024SB | Dilution Factor: 1 |
| Lab File ID: RCJ237 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 290 | 333.3 | 87.2 | 40-130 |
| 2-FLUOROBIPHENYL | 281 | 333.3 | 84.3 | 45-130 |
| TERPHENYL-D14 | 322 | 333.3 | 96.7 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVC024SB | SVC024SX | SVC024SY | | |
| LAB FILE ID: | RCJ237 | RCJ240 | RCJ241 | | |
| DATE EXTRACTED: | 03/20/1214:42 | 03/20/1214:42 | 03/20/1214:42 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/20/1218:03 | 03/20/1219:07 | 03/20/1219:26 | DATE RECEIVED: | 03/20/12 |
| PREP. BATCH: | SVC024S | SVC024S | SVC024S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 276 | 83 | 333 | 253 | 76 | 9 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 298 | 89 | 333 | 274 | 82 | 8 | 20-130 | 50 |
| Anthracene | ND | 333 | 270 | 81 | 333 | 251 | 75 | 7 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 277 | 83 | 333 | 271 | 81 | 2 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 284 | 85 | 333 | 262 | 79 | 8 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 309 | 93 | 333 | 279 | 84 | 10 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 302 | 90 | 333 | 289 | 87 | 4 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 312 | 93 | 333 | 292 | 88 | 6 | 30-140 | 50 |
| Chrysene | ND | 333 | 268 | 80 | 333 | 266 | 80 | 1 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 320 | 96 | 333 | 299 | 90 | 7 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 286 | 86 | 333 | 278 | 83 | 3 | 30-130 | 50 |
| Fluorene | ND | 333 | 289 | 87 | 333 | 266 | 80 | 8 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 319 | 96 | 333 | 299 | 90 | 6 | 20-160 | 50 |
| Naphthalene | ND | 333 | 264 | 79 | 333 | 242 | 73 | 9 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 274 | 82 | 333 | 258 | 77 | 6 | 20-130 | 50 |
| Pyrene | ND | 333 | 274 | 82 | 333 | 266 | 80 | 3 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 283 | 85 | 333 | 261 | 78 | 8 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 282 | 85 | 333 | 260 | 78 | 8 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 257 | 77 | 333 | 254 | 76 | 1 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 241 | 72 | 333 | 237 | 71 | 2 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 251 | 75 | 333 | 240 | 72 | 4 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 243 | 73 | 333 | 223 | 67 | 8 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 276 | 83 | 333 | 247 | 74 | 11 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 271 | 81 | 333 | 245 | 74 | 10 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 252 | 76 | 333 | 229 | 69 | 10 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 261 | 78 | 333 | 242 | 73 | 40-130 |
| 2-Fluorobiphenyl | 333 | 236 | 71 | 333 | 227 | 68 | 45-130 |
| Terphenyl-d14 | 333 | 266 | 80 | 333 | 271 | 81 | 45-135 |

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/15/12 15:25 |
| Sample ID: SL-005-NBZ-SB-4.5 | Date Analyzed: 03/15/12 15:25 |
| Lab Samp ID: C106-01 | Dilution Factor: .87 |
| Lab File ID: EC14042A | Matrix : SOIL |
| Ext Btch ID: GMC011S | % Moisture : 10.0 |
| Calib. Ref.: EC14035A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 0.97 | 0.48 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.51 | 1.933 | 78.2 | 60-130 |

RL : Reporting Limit
Methanol Extraction Date: 03/14/12 12:11

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/15/12 16:07 |
| Sample ID: SL-006-NBZ-SB-3.5 | Date Analyzed: 03/15/12 16:07 |
| Lab Samp ID: C106-03 | Dilution Factor: 1.05 |
| Lab File ID: EC14043A | Matrix : SOIL |
| Ext Btch ID: GMC011S | % Moisture : 6.6 |
| Calib. Ref.: EC14035A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.56 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.80 | 2.248 | 80.1 | 60-130 |

RL : Reporting Limit
Methanol Extraction Date: 03/14/12 12:11

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/15/12 16:49 |
| Sample ID: SL-019-NBZ-SB-3.5 | Date Analyzed: 03/15/12 16:49 |
| Lab Samp ID: C106-07 | Dilution Factor: 1.03 |
| Lab File ID: EC14044A | Matrix : SOIL |
| Ext Btch ID: GMC011S | % Moisture : 5.9 |
| Calib. Ref.: EC14035A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.55 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.78 | 2.189 | 81.2 | 60-130 |

RL : Reporting Limit
Methanol Extraction Date: 03/14/12 12:11

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/15/12 18:13 |
| Sample ID: SL-021-NBZ-SB-4.5 | Date Analyzed: 03/15/12 18:13 |
| Lab Samp ID: C106-10 | Dilution Factor: .96 |
| Lab File ID: EC14046A | Matrix : SOIL |
| Ext Btch ID: GMC011S | % Moisture : 3.9 |
| Calib. Ref.: EC14045A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.63 | 1.998 | 81.7 | 60-130 |

RL : Reporting Limit
Methanol Extraction Date: 03/14/12 12:11

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/15/12 |
| Batch No. : 12C106 | Date Extracted: 03/15/12 00:47 |
| Sample ID: MBLK1S | Date Analyzed: 03/15/12 00:47 |
| Lab Samp ID: GMC011SB | Dilution Factor: 1 |
| Lab File ID: EC14021A | Matrix : SOIL |
| Ext Btch ID: GMC011S | % Moisture : NA |
| Calib. Ref.: EC14013A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.73 | 2.000 | 86.7 | 60-130 |

RL : Reporting Limit
Methanol Extraction Date: 03/14/12 12:11

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: METHOD 5035/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | GMC011SB | GMC011SL | GMC011SC | | |
| LAB FILE ID: | EC14021A | EC14022A | EC14023A | | |
| DATE EXTRACTED: | 03/15/1200:47 | 03/15/1201:29 | 03/15/1202:11 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/15/1200:47 | 03/15/1201:29 | 03/15/1202:11 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | GMC011S | GMC011S | GMC011S | | |
| CALIB. REF: | EC14013A | EC14013A | EC14013A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 25.0 | 23.7 | 95 | 25.0 | 24.7 | 99 | 4 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 2.00 | 2.03 | 101 | 2.00 | 2.01 | 100 | 60-130 |

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/14/12 14:19 |
| Sample ID: TB-031312 | Date Analyzed: 03/14/12 14:19 |
| Lab Samp ID: C106-12 | Dilution Factor: 1 |
| Lab File ID: EC14006A | Matrix : WATER |
| Ext Btch ID: VA39C08 | % Moisture : NA |
| Calib. Ref.: EC14002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 17J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 33.5 | 40.00 | 83.8 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C106 | Date Extracted: 03/14/12 12:14 |
| Sample ID: MBLK1W | Date Analyzed: 03/14/12 12:14 |
| Lab Samp ID: VA39C08B | Dilution Factor: 1 |
| Lab File ID: EC14003A | Matrix : WATER |
| Ext Btch ID: VA39C08 | % Moisture : NA |
| Calib. Ref.: EC14002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 34.5 | 40.00 | 86.2 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: METHOD 5030B/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VA39C08B | VA39C08L | VA39C08C | | |
| LAB FILE ID: | EC14003A | EC14004A | EC14005A | | |
| DATE EXTRACTED: | 03/14/1212:14 | 03/14/1212:56 | 03/14/1213:38 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/14/1212:14 | 03/14/1212:56 | 03/14/1213:38 | DATE RECEIVED: | 03/14/12 |
| PREP. BATCH: | VA39C08 | VA39C08 | VA39C08 | | |
| CALIB. REF: | EC14002A | EC14002A | EC14002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 500 | 510 | 102 | 500 | 528 | 106 | 4 | 60-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 40.0 | 40.8 | 102 | 40.0 | 40.8 | 102 | 60-130 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/13/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/13/12 |
| Batch No. | : 12C106 | Date Extracted | : 03/15/12 09:30 |
| Sample ID | : SL-005-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/19/12 12:14 |
| Lab Samp ID | : C106-02W | Dilution Factor | : 1 |
| Lab File ID | : TC19012A | Matrix | : SOIL |
| Ext Btch ID | : PEC001S | % Moisture | : 9.6 |
| Calib. Ref. | : TC19003A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 17 | 8.3 |
| ETHYLENE GLYCOL | ND | 11 | 5.5 |
| PROPYLENE GLYCOL | ND | 11 | 5.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/15/12 09:30 |
| Sample ID: SL-006-NBZ-SB-3.0-4.0 | Date Analyzed: 03/19/12 12:28 |
| Lab Samp ID: C106-04W | Dilution Factor: 1 |
| Lab File ID: TC19013A | Matrix : SOIL |
| Ext Btch ID: PEC001S | % Moisture : 6.0 |
| Calib. Ref.: TC19003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.0 |
| ETHYLENE GLYCOL | ND | 11 | 5.3 |
| PROPYLENE GLYCOL | ND | 11 | 5.3 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/15/12 09:30 |
| Sample ID: SL-015-NBZ-SS-0.0-0.5 | Date Analyzed: 03/19/12 12:44 |
| Lab Samp ID: C106-05W | Dilution Factor: 1 |
| Lab File ID: TC19014A | Matrix : SOIL |
| Ext Btch ID: PEC001S | % Moisture : 1.6 |
| Calib. Ref.: TC19003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.6 |
| ETHYLENE GLYCOL | ND | 10 | 5.1 |
| PROPYLENE GLYCOL | ND | 10 | 5.1 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/13/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/13/12 |
| Batch No. | : 12C106 | Date Extracted | : 03/15/12 09:30 |
| Sample ID | : SL-019-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/19/12 12:58 |
| Lab Samp ID | : C106-06W | Dilution Factor | : 1 |
| Lab File ID | : TC19015A | Matrix | : SOIL |
| Ext Btch ID | : PEC001S | % Moisture | : 3.1 |
| Calib. Ref. | : TC19003A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.7 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/15/12 09:30 |
| Sample ID: SL-019-NBZ-SB-3.0-4.0 | Date Analyzed: 03/19/12 13:14 |
| Lab Samp ID: C106-08W | Dilution Factor: 1 |
| Lab File ID: TC19016A | Matrix : SOIL |
| Ext Btch ID: PEC001S | % Moisture : 5.8 |
| Calib. Ref.: TC19003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.0 |
| ETHYLENE GLYCOL | ND | 11 | 5.3 |
| PROPYLENE GLYCOL | ND | 11 | 5.3 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/15/12 09:30 |
| Sample ID: SL-021-NBZ-SS-0.0-0.5 | Date Analyzed: 03/19/12 13:28 |
| Lab Samp ID: C106-09W | Dilution Factor: 1 |
| Lab File ID: TC19017A | Matrix : SOIL |
| Ext Btch ID: PEC001S | % Moisture : 2.7 |
| Calib. Ref.: TC19003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.7 |
| ETHYLENE GLYCOL | ND | 10 | 5.1 |
| PROPYLENE GLYCOL | ND | 10 | 5.1 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/13/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/13/12 |
| Batch No. | : 12C106 | Date Extracted | : 03/15/12 09:30 |
| Sample ID | : SL-021-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/19/12 13:42 |
| Lab Samp ID | : C106-11W | Dilution Factor | : 1 |
| Lab File ID | : TC19018A | Matrix | : SOIL |
| Ext Btch ID | : PEC001S | % Moisture | : 3.9 |
| Calib. Ref. | : TC19003A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.8 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/15/12 |
| Batch No. : 12C106 | Date Extracted: 03/15/12 09:30 |
| Sample ID: MBLK1S | Date Analyzed: 03/19/12 10:54 |
| Lab Samp ID: PEC001SQ | Dilution Factor: 1 |
| Lab File ID: TC19006A | Matrix : SOIL |
| Ext Btch ID: PEC001S | % Moisture : NA |
| Calib. Ref.: TC19003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.5 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 5.0 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PEC001SQ | PEC001SX | PEC001SY | | |
| LAB FILE ID: | TC19006A | TC19004A | TC19005A | | |
| DATE EXTRACTED: | 03/15/1209:30 | 03/15/1209:30 | 03/15/1209:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/19/1210:54 | 03/19/1210:11 | 03/19/1210:28 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | PEC001S | PEC001S | PEC001S | | |
| CALIB. REF: | TC19003A | TC19003A | TC19003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 46.0 | 92 | 50.0 | 45.4 | 91 | 1 | 50-150 | 50 |
| Ethylene Glycol | ND | 50.0 | 49.1 | 98 | 50.0 | 49.0 | 98 | 0 | 50-150 | 50 |
| Propylene Glycol | ND | 25.0 | 29.9 | 120 | 25.0 | 29.7 | 119 | 1 | 50-150 | 50 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: METHOD 8015M

MATRIX: SOIL % MOISTURE: 3.9
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-021-NBZ-SB-4.0-5.0
LAB SAMP ID: C106-11W C106-11M C106-11S
LAB FILE ID: TC19018A TC19021A TC19022A
DATE EXTRACTED: 03/15/1209:30 03/15/1209:30 03/15/1209:30 DATE COLLECTED: 03/13/12
DATE ANALYZED: 03/19/1213:42 03/19/1215:09 03/19/1215:22 DATE RECEIVED: 03/13/12
PREP. BATCH: PEC001S PEC001S PEC001S
CALIB. REF: TC19003A TC19020A TC19020A

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 52.0 | 45.5 | 87 | 52.0 | 47.0 | 90 | 3 | 50-150 | 50 |
| Ethylene Glycol | ND | 52.0 | 48.1 | 92 | 52.0 | 48.2 | 93 | 0 | 50-150 | 50 |
| Propylene Glycol | ND | 26.0 | 28.6 | 110 | 26.0 | 28.6 | 110 | 0 | 50-150 | 50 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/14/12 10:00 |
| Sample ID: SL-005-NBZ-SB-4.0-5.0 | Date Analyzed: 03/14/12 16:34 |
| Lab Samp ID: C106-02 | Dilution Factor: 1 |
| Lab File ID: BC14018A | Matrix : SOIL |
| Ext Btch ID: MEC002S | % Moisture : 9.6 |
| Calib. Ref.: BC14013A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 550 | 280 |
| ISOPROPANOL | ND | 550 | 280 |
| METHANOL | ND | 550 | 280 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/14/12 10:00 |
| Sample ID: SL-006-NBZ-SB-3.0-4.0 | Date Analyzed: 03/14/12 16:49 |
| Lab Samp ID: C106-04 | Dilution Factor: 1 |
| Lab File ID: BC14019A | Matrix : SOIL |
| Ext Btch ID: MEC002S | % Moisture : 6.0 |
| Calib. Ref.: BC14013A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 530 | 270 |
| ISOPROPANOL | ND | 530 | 270 |
| METHANOL | ND | 530 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/14/12 10:00 |
| Sample ID: SL-015-NBZ-SS-0.0-0.5 | Date Analyzed: 03/14/12 17:06 |
| Lab Samp ID: C106-05 | Dilution Factor: 1 |
| Lab File ID: BC14020A | Matrix : SOIL |
| Ext Btch ID: MEC002S | % Moisture : 1.6 |
| Calib. Ref.: BC14013A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 510 | 250 |
| ISOPROPANOL | ND | 510 | 250 |
| METHANOL | ND | 510 | 250 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/14/12 10:00 |
| Sample ID: SL-019-NBZ-SS-0.0-0.5 | Date Analyzed: 03/14/12 17:23 |
| Lab Samp ID: C106-06 | Dilution Factor: 1 |
| Lab File ID: BC14021A | Matrix : SOIL |
| Ext Btch ID: MEC002S | % Moisture : 3.1 |
| Calib. Ref.: BC14013A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/14/12 10:00 |
| Sample ID: SL-019-NBZ-SB-3.0-4.0 | Date Analyzed: 03/14/12 17:39 |
| Lab Samp ID: C106-08 | Dilution Factor: 1 |
| Lab File ID: BC14022A | Matrix : SOIL |
| Ext Btch ID: MEC002S | % Moisture : 5.8 |
| Calib. Ref.: BC14013A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 530 | 270 |
| ISOPROPANOL | ND | 530 | 270 |
| METHANOL | ND | 530 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/14/12 10:00 |
| Sample ID: SL-021-NBZ-SS-0.0-0.5 | Date Analyzed: 03/14/12 17:53 |
| Lab Samp ID: C106-09 | Dilution Factor: 1 |
| Lab File ID: BC14023A | Matrix : SOIL |
| Ext Btch ID: MEC002S | % Moisture : 2.7 |
| Calib. Ref.: BC14013A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 510 | 260 |
| ISOPROPANOL | ND | 510 | 260 |
| METHANOL | ND | 510 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/14/12 10:00 |
| Sample ID: SL-021-NBZ-SB-4.0-5.0 | Date Analyzed: 03/14/12 18:07 |
| Lab Samp ID: C106-11 | Dilution Factor: 1 |
| Lab File ID: BC14024A | Matrix : SOIL |
| Ext Btch ID: MEC002S | % Moisture : 3.9 |
| Calib. Ref.: BC14013A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C106 | Date Extracted: 03/14/12 10:00 |
| Sample ID: MBLK1S | Date Analyzed: 03/14/12 15:24 |
| Lab Samp ID: MEC002SB | Dilution Factor: 1 |
| Lab File ID: BC14015A | Matrix : SOIL |
| Ext Btch ID: MEC002S | % Moisture : NA |
| Calib. Ref.: BC14013A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 500 | 250 |
| ISOPROPANOL | ND | 500 | 250 |
| METHANOL | ND | 500 | 250 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | MEC002SB | MEC002SL | MEC002SC | | |
| LAB FILE ID: | BC14015A | BC14016A | BC14017A | | |
| DATE EXTRACTED: | 03/14/1210:00 | 03/14/1210:00 | 03/14/1210:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/14/1215:24 | 03/14/1215:40 | 03/14/1216:17 | DATE RECEIVED: | 03/14/12 |
| PREP. BATCH: | MEC002S | MEC002S | MEC002S | | |
| CALIB. REF: | BC14013A | BC14013A | BC14013A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 9710 | 97 | 10000 | 9420 | 94 | 3 | 50-150 | 50 |
| Isopropanol | ND | 10000 | 11300 | 113 | 10000 | 11100 | 111 | 2 | 50-150 | 50 |
| Methanol | ND | 10000 | 10000 | 100 | 10000 | 9740 | 97 | 3 | 50-150 | 50 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 11:44 |
| Sample ID: SL-005-NBZ-SB-4.0-5.0 | Date Analyzed: 03/20/12 21:54 |
| Lab Samp ID: C106-02 | Dilution Factor: 1 |
| Lab File ID: LC20036A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : 9.6 |
| Calib. Ref.: LC20027A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.55 |
| EFH(C12-C14) | ND | 1.1 | 0.55 |
| EFH(C15-C20) | ND | 1.1 | 0.55 |
| EFH(C21-C30) | ND | 1.1 | 0.55 |
| EFH(C30-C40) | ND | 1.1 | 0.55 |
| TOTAL EFH(C8-C40) | ND | 1.1 | 0.55 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.94 | 11.06 | 62.7 | 50-150 |
| HEXACOSANE | 2.28 | 2.765 | 82.4 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 11:44 |
| Sample ID: SL-006-NBZ-SB-3.0-4.0 | Date Analyzed: 03/20/12 22:11 |
| Lab Samp ID: C106-04 | Dilution Factor: 1 |
| Lab File ID: LC20037A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : 6.0 |
| Calib. Ref.: LC20027A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.56J | 1.1 | 0.53 |
| EFH(C12-C14) | ND | 1.1 | 0.53 |
| EFH(C15-C20) | ND | 1.1 | 0.53 |
| EFH(C21-C30) | ND | 1.1 | 0.53 |
| EFH(C30-C40) | ND | 1.1 | 0.53 |
| TOTAL EFH(C8-C40) | 0.56J | 1.1 | 0.53 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.36 | 10.64 | 69.2 | 50-150 |
| HEXACOSANE | 2.25 | 2.660 | 84.6 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 11:44 |
| Sample ID: SL-019-NBZ-SB-3.0-4.0 | Date Analyzed: 03/20/12 22:28 |
| Lab Samp ID: C106-08 | Dilution Factor: 1 |
| Lab File ID: LC20038A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : 5.8 |
| Calib. Ref.: LC20027A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.57J | 1.1 | 0.53 |
| EFH(C12-C14) | ND | 1.1 | 0.53 |
| EFH(C15-C20) | ND | 1.1 | 0.53 |
| EFH(C21-C30) | ND | 1.1 | 0.53 |
| EFH(C30-C40) | ND | 1.1 | 0.53 |
| TOTAL EFH(C8-C40) | 0.57J | 1.1 | 0.53 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.58 | 10.62 | 71.4 | 50-150 |
| HEXACOSANE | 2.21 | 2.654 | 83.1 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 11:44 |
| Sample ID: SL-021-NBZ-SB-4.0-5.0 | Date Analyzed: 03/20/12 23:19 |
| Lab Samp ID: C106-11 | Dilution Factor: 1 |
| Lab File ID: LC20041A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : 3.9 |
| Calib. Ref.: LC20039A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.60J | 1.0 | 0.52 |
| EFH(C12-C14) | ND | 1.0 | 0.52 |
| EFH(C15-C20) | ND | 1.0 | 0.52 |
| EFH(C21-C30) | ND | 1.0 | 0.52 |
| EFH(C30-C40) | 2.4 | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | 3.0 | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.25 | 10.41 | 69.6 | 50-150 |
| HEXACOSANE | 2.08 | 2.601 | 80.1 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C106 | Date Extracted: 03/20/12 11:44 |
| Sample ID: MBLK1S | Date Analyzed: 03/20/12 18:15 |
| Lab Samp ID: DSC021SB | Dilution Factor: 1 |
| Lab File ID: LC20023A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : NA |
| Calib. Ref.: LC20015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 5.94 | 10.00 | 59.4 | 50-150 |
| HEXACOSANE | 1.95 | 2.500 | 78.0 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSC021SB | DSC021SL | DSC021SC | | |
| LAB FILE ID: | LC20023A | LC20021A | LC20022A | | |
| DATE EXTRACTED: | 03/20/1211:44 | 03/20/1211:44 | 03/20/1211:44 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/20/1218:15 | 03/20/1217:41 | 03/20/1217:58 | DATE RECEIVED: | 03/20/12 |
| PREP. BATCH: | DSC021S | DSC021S | DSC021S | | |
| CALIB. REF: | LC20015A | LC20015A | LC20015A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 42.5 | 85 | 50.0 | 36.4 | 73 | 15 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 6.44 | 64 | 10.0 | 6.45 | 65 | 50-150 |
| Hexacosane | 2.50 | 2.19 | 88 | 2.50 | 2.16 | 86 | 50-150 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/17/12 11:01 |
| Sample ID: SL-015-NBZ-SS-0.0-0.5 | Date Analyzed: 03/20/12 19:59 |
| Lab Samp ID: C106-05 | Dilution Factor: 1 |
| Lab File ID: LC20022A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : 1.6 |
| Calib. Ref.: LC20013A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.11J | 0.17 | 0.086\|0.086 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.086\|0.086 |
| BETA-BHC | 0.15J\|(ND) | 0.17 | 0.086\|0.086 |
| HEPTACHLOR | (ND)\|ND | 0.17 | 0.086\|0.086 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.086\|0.086 |
| ALDRIN | (ND)\|ND | 0.17 | 0.086\|0.086 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.086\|0.086 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.086\|0.086 |
| 4,4'-DDE | 0.18J\|(ND) | 0.35 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.35 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.35 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.35 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.35 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|0.18J | 0.35 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.35 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.35 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.35 | 0.17\|0.17 |
| METHOXYCHLOR | 1.2J\|(ND) | 1.7 | 0.86\|0.86 |
| MIREX | (ND)\|ND | 0.35 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.7 | 3.4\|3.4 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.5 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.177\|(5.430) | 5.420 | 77.1\|(100) | 50-130 |
| DECACHLOROBIPHENYL | 4.587\|(5.235) | 5.420 | 84.6\|(96.6) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/17/12 11:01 |
| Sample ID: SL-019-NBZ-SS-0.0-0.5 | Date Analyzed: 03/20/12 20:22 |
| Lab Samp ID: C106-06 | Dilution Factor: 1 |
| Lab File ID: LC20023A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : 3.1 |
| Calib. Ref.: LC20013A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.15J | 0.18 | 0.088\|0.088 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.18 | 0.088\|0.088 |
| BETA-BHC | (ND)\|ND | 0.18 | 0.088\|0.088 |
| HEPTACHLOR | (ND)\|ND | 0.18 | 0.088\|0.088 |
| DELTA-BHC | (ND)\|ND | 0.18 | 0.088\|0.088 |
| ALDRIN | (ND)\|ND | 0.18 | 0.088\|0.088 |
| HEPTACHLOR EPOXIDE | 0.49\|(ND) | 0.18 | 0.088\|0.088 |
| ENDOSULFAN I | (ND)\|ND | 0.18 | 0.088\|0.088 |
| 4,4'-DDE | (1.3)\|1.3 | 0.35 | 0.18\|0.18 |
| DIELDRIN | (ND)\|ND | 0.35 | 0.18\|0.18 |
| ENDRIN | (ND)\|ND | 0.35 | 0.18\|0.18 |
| 4,4'-DDD | (ND)\|ND | 0.35 | 0.18\|0.18 |
| ENDOSULFAN II | 0.18J\|(ND) | 0.35 | 0.18\|0.18 |
| 4,4'-DDT | 4.3\|(5.1) | 0.35 | 0.18\|0.18 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.35 | 0.18\|0.18 |
| ENDOSULFAN SULFATE | 2.8\|(0.28J) | 0.35 | 0.18\|0.18 |
| ENDRIN KETONE | (ND)\|ND | 0.35 | 0.18\|0.18 |
| METHOXYCHLOR | (ND)\|ND | 1.8 | 0.88\|0.88 |
| MIREX | (ND)\|0.20J | 0.35 | 0.18\|0.18 |
| TOXAPHENE | (ND)\|ND | 6.8 | 3.4\|3.4 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.798\|(5.159) | 5.504 | 69.0\|(93.7) | 50-130 |
| DECACHLOROBIPHENYL | 4.268\|(5.727) | 5.504 | 77.6\|(104) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/17/12 11:01 |
| Sample ID: SL-021-NBZ-SS-0.0-0.5 | Date Analyzed: 03/20/12 21:30 |
| Lab Samp ID: C106-09 | Dilution Factor: 1 |
| Lab File ID: LC20026A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : 2.7 |
| Calib. Ref.: LC20013A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.17J | 0.17 | 0.087\|0.087 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.087\|0.087 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.087\|0.087 |
| HEPTACHLOR | (ND)\|ND | 0.17 | 0.087\|0.087 |
| DELTA-BHC | (ND)\|0.23 | 0.17 | 0.087\|0.087 |
| ALDRIN | (ND)\|3.7 | 0.17 | 0.087\|0.087 |
| HEPTACHLOR EPOXIDE | 0.20\|(ND) | 0.17 | 0.087\|0.087 |
| ENDOSULFAN I | (ND)\|0.34 | 0.17 | 0.087\|0.087 |
| 4,4'-DDE | 0.41\|(ND) | 0.35 | 0.17\|0.17 |
| DIELDRIN | 0.85\|(ND) | 0.35 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.35 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.35 | 0.17\|0.17 |
| ENDOSULFAN II | 0.32J\|(ND) | 0.35 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|0.44 | 0.35 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.35 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.35 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.35 | 0.17\|0.17 |
| METHOXYCHLOR | 4.8\|(ND) | 1.7 | 0.87\|0.87 |
| MIREX | (ND)\|ND | 0.35 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.8 | 3.4\|3.4 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.5 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.288\|(6.287) | 5.481 | 78.2\|(115) | 50-130 |
| DECACHLOROBIPHENYL | 4.665\|(5.191) | 5.481 | 85.1\|(94.7) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/17/12 |
| Batch No. : 12C106 | Date Extracted: 03/17/12 11:01 |
| Sample ID: MBLK1S | Date Analyzed: 03/20/12 18:06 |
| Lab Samp ID: CPC016SB | Dilution Factor: 1 |
| Lab File ID: LC20017A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : NA |
| Calib. Ref.: LC20013A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.529\|(4.601) | 5.333 | 84.9\|(86.3) | 50-130 |
| DECACHLOROBIPHENYL | 5.343\|(5.390) | 5.333 | 100\|(101) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPC016SB CPC016SL CPC016SC
LAB FILE ID: LC20017A LC20018A LC20019A
DATE EXTRACTED: 03/17/1211:01 03/17/1211:01 03/17/1211:01 DATE COLLECTED: NA
DATE ANALYZED: 03/20/1218:06 03/20/1218:29 03/20/1218:52 DATE RECEIVED: 03/17/12
PREP. BATCH: CPC016S CPC016S CPC016S
CALIB. REF: LC20013A LC20013A LC20013A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 2.67 | 2.93\|(3.12) | 110\|(117) | 2.67 | 2.65\|(2.81) | 99\|(105) | 10\|(10) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|ND | 2.67 | 2.88\|(3.12) | 108\|(117) | 2.67 | 2.61\|(2.82) | 98\|(106) | 10\|(10) | 40-130 | 50 |
| beta-BHC | (ND)\|ND | 2.67 | 3.00\|(3.20) | 112\|(120) | 2.67 | 2.80\|(2.94) | 105\|(110) | 7\|(8) | 50-140 | 50 |
| Heptachlor | (ND)\|ND | 2.67 | 2.78\|(2.95) | 104\|(110) | 2.67 | 2.56\|(2.70) | 96\|(101) | 8\|(9) | 30-130 | 50 |
| delta-BHC | (ND)\|ND | 2.67 | 3.27\|(3.61) | 122\|(135) | 2.67 | 2.97\|(3.28) | 111\|(123) | 10\|(10) | 30-150 | 50 |
| Aldrin | (ND)\|ND | 2.67 | 2.51\|(2.70) | 94\|(101) | 2.67 | 2.34\|(2.49) | 88\|(93) | 7\|(8) | 30-130 | 50 |
| Heptachlor Epoxide | (ND)\|ND | 2.67 | 2.81\|(3.02) | 105\|(113) | 2.67 | 2.56\|(2.77) | 96\|(104) | 9\|(9) | 60-140 | 50 |
| Endosulfan I | (ND)\|ND | 2.67 | 2.65\|(2.99) | 99\|(112) | 2.67 | 2.43\|(2.75) | 91\|(103) | 9\|(8) | 50-150 | 50 |
| 4,4'-DDE | (ND)\|ND | 2.67 | 3.06\|(3.40) | 115\|(127) | 2.67 | 2.80\|(3.14) | 105\|(118) | 9\|(8) | 50-150 | 50 |
| Dieldrin | (ND)\|ND | 2.67 | 2.99\|(3.15) | 112\|(118) | 2.67 | 2.71\|(2.92) | 101\|(109) | 10\|(8) | 60-130 | 50 |
| Endrin | (ND)\|ND | 2.67 | 3.23\|(3.31) | 121\|(124) | 2.67 | 2.93\|(3.06) | 110\|(115) | 10\|(8) | 50-140 | 50 |
| 4,4'-DDD | (ND)\|ND | 2.67 | 3.52\|(3.88) | 132\|(145) | 2.67 | 3.18\|(3.67) | 119\|(137) | 10\|(6) | 50-160 | 50 |
| Endosulfan II | (ND)\|ND | 2.67 | 3.07\|(3.30) | 115\|(124) | 2.67 | 2.84\|(3.10) | 106\|(116) | 8\|(6) | 60-150 | 50 |
| 4,4'-DDT | ND\|(ND) | 2.67 | 3.74\|(3.55) | 140*\|(133) | 2.67 | 3.47\|(3.34) | 130\|(125) | 7\|(6) | 60-140 | 50 |
| Endrin aldehyde | (ND)\|ND | 2.67 | 2.98\|(3.25) | 112\|(122) | 2.67 | 2.86\|(3.15) | 107\|(118) | 4\|(3) | 50-160 | 50 |
| Endosulfan Sulfate | (ND)\|ND | 2.67 | 3.03\|(3.19) | 113\|(119) | 2.67 | 2.86\|(3.02) | 107\|(113) | 6\|(5) | 70-140 | 50 |
| Endrin Ketone | (ND)\|ND | 2.67 | 3.09\|(3.28) | 116\|(123) | 2.67 | 2.94\|(3.09) | 110\|(116) | 5\|(6) | 70-160 | 50 |
| Methoxychlor | (ND)\|ND | 26.7 | (35.3)\|40.7 | (132)\|152* | 26.7 | (33.9)\|38.9 | (127)\|146* | (4)\|5 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 4.817\|(4.863) | 90.3\|(91.2) | 5.333 | 4.585\|(4.623) | 86.0\|(86.7) | 50-130 |
| Decachlorobiphenyl | 5.333 | 5.569\|(5.721) | 104\|(107) | 5.333 | 5.534\|(5.735) | 104\|(108) | 20-120 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: 3.1

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-019-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C106-06 | C106-06M | C106-06S | | |
| LAB FILE ID: | LC20023A | LC20024A | LC20025A | | |
| DATE EXTRACTED: | 03/17/1211:01 | 03/17/1211:01 | 03/17/1211:01 | DATE COLLECTED: | 03/13/12 |
| DATE ANALYZED: | 03/20/1220:22 | 03/20/1220:45 | 03/20/1221:07 | DATE RECEIVED: | 03/13/12 |
| PREP. BATCH: | CPC016S | CPC016S | CPC016S | | |
| CALIB. REF: | LC20013A | LC20013A | LC20013A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND) \| 0.15J | 2.76 | (3.09) \| 3.40 | (112) \| 118 | 2.76 | (3.12) \| 3.17 | (113) \| 110 | (1) \| 7 | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND) \| ND | 2.76 | (2.80) \| 3.51 | (102) \| 127 | 2.76 | (2.48) \| 3.30 | (90) \| 120 | (12) \| 6 | 20-150 | 50 |
| beta-BHC | (ND) \| ND | 2.76 | (3.52) \| 3.40 | (128) \| 123 | 2.76 | (3.74) \| 3.41 | (136) \| 124 | (6) \| 0 | 50-140 | 50 |
| Heptachlor | (ND) \| ND | 2.76 | (3.05) \| 2.94 | (111) \| 107 | 2.76 | (3.20) \| 2.93 | (116) \| 106 | (5) \| 0 | 20-140 | 50 |
| delta-BHC | (ND) \| ND | 2.76 | (3.21) \| 3.93 | (116) \| 143 | 2.76 | (3.15) \| 4.16 | (114) \| 151* | (2) \| 6 | 30-150 | 50 |
| Aldrin | (ND) \| ND | 2.76 | (3.18) \| 2.73 | (115) \| 99 | 2.76 | (3.10) \| 2.60 | (113) \| 94 | (3) \| 5 | 20-160 | 50 |
| Heptachlor Epoxide | 0.49 \| (ND) | 2.76 | 3.16 \| (2.90) | 97 \| (105) | 2.76 | 3.03 \| (2.89) | 92 \| (105) | 4 \| (0) | 40-140 | 50 |
| Endosulfan I | (ND) \| ND | 2.76 | (2.15) \| 2.68 | (78) \| 97 | 2.76 | (2.08) \| 2.57 | (75) \| 93 | (3) \| 4 | 50-160 | 50 |
| 4,4'-DDE | (1.3) \| 1.3 | 2.76 | (4.08) \| 4.37 | (101) \| 111 | 2.76 | (3.95) \| 4.40 | (96) \| 113 | (3) \| 1 | 50-150 | 50 |
| Dieldrin | (ND) \| ND | 2.76 | (2.72) \| 2.99 | (99) \| 109 | 2.76 | (2.60) \| 3.00 | (94) \| 109 | (5) \| 0 | 10-160 | 50 |
| Endrin | (ND) \| ND | 2.76 | (2.75) \| 2.89 | (100) \| 105 | 2.76 | (2.59) \| 2.9 | (94) \| 107 | (6) \| 2 | 20-160 | 50 |
| 4,4'-DDD | (ND) \| ND | 2.76 | (2.79) \| 3.67 | (101) \| 133 | 2.76 | (2.62) \| 3.94 | (95) \| 143 | (6) \| 7 | 50-160 | 50 |
| Endosulfan II | 0.18J \| (ND) | 2.76 | 2.73 \| (3.10) | 93 \| (104) | 2.76 | 2.69 \| (3.01) | 91 \| (101) | 1 \| (3) | 40-160 | 50 |
| 4,4'-DDT | 4.3 \| (5.1) | 2.76 | 7.38 \| (8.51) | 112 \| (124) | 2.76 | 7.12 \| (8.16) | 102 \| (111) | 4 \| (4) | 30-160 | 50 |
| Endrin aldehyde | (ND) \| ND | 2.76 | (2.42) \| 3.18 | (88) \| 115 | 2.76 | (2.37) \| 3.10 | (86) \| 113 | (2) \| 3 | 50-140 | 50 |
| Endosulfan Sulfate | (2.8) \| 0.28J | 2.76 | (6.41) \| 2.66 | (131) \| 86 | 2.76 | (6.40) \| 2.48 | (131) \| 80 | (0) \| 7 | 40-160 | 50 |
| Endrin Ketone | (ND) \| ND | 2.76 | (3.71) \| 2.66 | (135) \| 97 | 2.76 | (3.49) \| 2.70 | (127) \| 98 | (6) \| 1 | 50-160 | 50 |
| Methoxychlor | (ND) \| ND | 27.6 | 45.5 \| (36.5) | 165* \| (129) | 27.6 | 42.7 \| (35.5) | 155* \| (126) | 6 \| (3) | 60-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.504 | 4.540 \| (5.409) | 82.5 \| (98.3) | 5.504 | 3.864 \| (5.243) | 70.2 \| (95.3) | 50-130 |
| Decachlorobiphenyl | 5.504 | 4.245 \| (5.598) | 77.1 \| (102) | 5.504 | 4.077 \| (5.684) | 74.1 \| (103) | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/19/12 15:02 |
| Sample ID: SL-005-NBZ-SB-4.0-5.0 | Date Analyzed: 03/22/12 11:17 |
| Lab Samp ID: C106-02 | Dilution Factor: 1 |
| Lab File ID: KC21043A | Matrix : SOIL |
| Ext Btch ID: CPC020S | % Moisture : 9.6 |
| Calib. Ref.: KC21038A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.884)\|4.555 | 5.899 | (99.7)\|77.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.069)\|3.994 | 5.899 | (103)\|67.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/19/12 15:02 |
| Sample ID: SL-006-NBZ-SB-3.0-4.0 | Date Analyzed: 03/22/12 12:13 |
| Lab Samp ID: C106-04 | Dilution Factor: 1 |
| Lab File ID: KC21044A | Matrix : SOIL |
| Ext Btch ID: CPC020S | % Moisture : 6.0 |
| Calib. Ref.: KC21038A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.703)\|4.399 | 5.673 | (101)\|77.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.080)\|4.000 | 5.673 | (107)\|70.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/19/12 15:02 |
| Sample ID: SL-015-NBZ-SS-0.0-0.5 | Date Analyzed: 03/22/12 13:07 |
| Lab Samp ID: C106-05 | Dilution Factor: 1 |
| Lab File ID: KC21045A | Matrix : SOIL |
| Ext Btch ID: CPC020S | % Moisture : 1.6 |
| Calib. Ref.: KC21038A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.86\|0.86 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.86\|0.86 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.86\|0.86 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.86\|0.86 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.86\|0.86 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.86\|0.86 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.86\|0.86 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.86\|0.86 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.86\|0.86 |
| AROCLOR 5432 | (ND)\|ND | 3.4 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.4 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.684)\|4.364 | 5.420 | (105)\|80.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.632)\|4.223 | 5.420 | (104)\|77.9 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/19/12 15:02 |
| Sample ID: SL-019-NBZ-SS-0.0-0.5 | Date Analyzed: 03/22/12 14:02 |
| Lab Samp ID: C106-06 | Dilution Factor: 1 |
| Lab File ID: KC21046A | Matrix : SOIL |
| Ext Btch ID: CPC020S | % Moisture : 3.1 |
| Calib. Ref.: KC21038A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 5432 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.4 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.916)\|4.496 | 5.504 | (107)\|81.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.255)\|4.343 | 5.504 | (114)\|78.9 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/19/12 15:02 |
| Sample ID: SL-019-NBZ-SB-3.0-4.0 | Date Analyzed: 03/22/12 14:58 |
| Lab Samp ID: C106-08 | Dilution Factor: 1 |
| Lab File ID: KC21047A | Matrix : SOIL |
| Ext Btch ID: CPC020S | % Moisture : 5.8 |
| Calib. Ref.: KC21038A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.089)\|4.642 | 5.661 | (108)\|82.0 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.965)\|4.242 | 5.661 | (105)\|74.9 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/19/12 15:02 |
| Sample ID: SL-021-NBZ-SS-0.0-0.5 | Date Analyzed: 03/22/12 15:53 |
| Lab Samp ID: C106-09 | Dilution Factor: 1 |
| Lab File ID: KC21048A | Matrix : SOIL |
| Ext Btch ID: CPC020S | % Moisture : 2.7 |
| Calib. Ref.: KC21038A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.87\|0.87 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.87\|0.87 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.87\|0.87 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.87\|0.87 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.87\|0.87 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.87\|0.87 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.87\|0.87 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.87\|0.87 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.87\|0.87 |
| AROCLOR 5432 | (ND)\|ND | 3.4 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.4 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.494)\|4.182 | 5.481 | (100)\|76.3 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.225)\|3.758 | 5.481 | (95.3)\|68.6 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/19/12 15:02 |
| Sample ID: SL-021-NBZ-SB-4.0-5.0 | Date Analyzed: 03/22/12 16:49 |
| Lab Samp ID: C106-11 | Dilution Factor: 1 |
| Lab File ID: KC21049A | Matrix : SOIL |
| Ext Btch ID: CPC020S | % Moisture : 3.9 |
| Calib. Ref.: KC21038A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 5432 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.4 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.688)\|4.331 | 5.549 | (103)\|78.0 | 45-120 |
| TETRACHLORO-M-XYLENE | (3.993)\|3.133 | 5.549 | (72.0)\|56.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C106 | Date Extracted: 03/19/12 15:02 |
| Sample ID: MBLK1S | Date Analyzed: 03/21/12 21:59 |
| Lab Samp ID: 60C020SB | Dilution Factor: 1 |
| Lab File ID: KC21026A | Matrix : SOIL |
| Ext Btch ID: CPC020S | % Moisture : NA |
| Calib. Ref.: KC21021A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.381)\|4.151 | 5.333 | (101)\|77.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.184)\|4.771 | 5.333 | (97.2)\|89.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: 60C020SB 60C020SL 60C020SC
LAB FILE ID: KC21026A KC21027A KC21028A
DATE EXTRACTED: 03/19/1215:02 03/19/1215:02 03/19/1215:02 DATE COLLECTED: NA
DATE ANALYZED: 03/21/1221:59 03/21/1222:55 03/21/1223:50 DATE RECEIVED: 03/19/12
PREP. BATCH: CPC020S CPC020S CPC020S
CALIB. REF: KC21021A KC21021A KC21021A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (53.8)\|48.7 | (81)\|73 | 66.7 | (55.6)\|49.4 | (83)\|74 | (3)\|1 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (65.8)\|57.6 | (99)\|86 | 66.7 | (69.0)\|58.9 | (103)\|88 | (5)\|2 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | (62.4)\|60.9 | (94)\|91 | 66.7 | (69.1)\|67.7 | (104)\|102 | (10)\|11 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | (5.407)\|4.159 | (101)\|78.0 | 5.333 | (5.630)\|4.340 | (106)\|81.4 | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (5.328)\|4.721 | (99.9)\|88.5 | 5.333 | (5.616)\|4.939 | (105)\|92.6 | 10-160 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 3.9
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-021-NBZ-SB-4.0-5.0
LAB SAMP ID: C106-11 C106-11M C106-11S
LAB FILE ID: KC21049A KC21050A KC21051A
DATE EXTRACTED: 03/19/1215:02 03/19/1215:02 03/19/1215:02 DATE COLLECTED: 03/13/12
DATE ANALYZED: 03/22/1216:49 03/22/1217:44 03/22/1218:40 DATE RECEIVED: 03/13/12
PREP. BATCH: CPC020S CPC020S CPC020S
CALIB. REF: KC21038A KC21038A KC21038A

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 69.4 | (62.9)\|47.9 | (91)\|69 | 69.4 | (63.6)\|47.9 | (92)\|69 | (1)\|0 | 20-160 | 50 |
| Aroclor 1260 | (ND)\|ND | 69.4 | (72.5)\|61.8 | (105)\|89 | 69.4 | (71.3)\|61.0 | (103)\|88 | (2)\|1 | 20-160 | 50 |
| Aroclor 5460 | (ND)\|ND | 69.4 | (68.0)\|66.4 | (98)\|96 | 69.4 | (70.0)\|67.4 | (101)\|97 | (3)\|1 | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.549 | (5.768)\|4.377 | (104)\|78.9 | 5.549 | (6.159)\|4.643 | (111)\|83.7 | 45-120 |
| Tetrachloro-m-xylene | 5.549 | (5.952)\|4.052 | (107)\|73.0 | 5.549 | (6.203)\|4.256 | (112)\|76.7 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/24/12 10:54 |
| Sample ID: SL-015-NBZ-SS-0.0-0.5 | Date Analyzed: 03/26/12 22:37 |
| Lab Samp ID: C106-05 | Dilution Factor: 1 |
| Lab File ID: WC26022A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : 1.6 |
| Calib. Ref.: WC26016A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|2.7J | 3.7 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.86\|0.86 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.086\|0.086 |
| 2,4,5-TP(SILVEX) | 0.25\|(ND) | 0.17 | 0.086\|0.086 |
| DALAPON | (ND)\|ND | 9.1 | 4.6\|4.6 |
| DICAMBA | (ND)\|ND | 1.2 | 0.61\|0.61 |
| DICHLOROPROP | (ND)\|19 | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.86\|0.86 |
| MCPA | (ND)\|ND | 250 | 130\|130 |
| MCPP | (ND)\|ND | 250 | 130\|130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (41.24)\|32.52 | 152.4 | (27.1)\|21.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/13/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/13/12 |
| Batch No. | : 12C106 | Date Extracted | : 03/24/12 10:54 |
| Sample ID | : SL-019-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/26/12 22:57 |
| Lab Samp ID | : C106-06 | Dilution Factor | : 1 |
| Lab File ID | : WC26023A | Matrix | : SOIL |
| Ext Btch ID | : HEC010S | % Moisture | : 3.1 |
| Calib. Ref. | : WC26016A | Instrument ID | : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | 14 \| (ND) | 3.7 | 1.9 \| 1.9 |
| 2,4-DB | (ND) \| ND | 1.8 | 0.88 \| 0.88 |
| 2,4,5-T | (ND) \| ND | 0.18 | 0.088 \| 0.088 |
| 2,4,5-TP(SILVEX) | 0.31 \| (ND) | 0.18 | 0.088 \| 0.088 |
| DALAPON | (ND) \| ND | 9.3 | 4.6 \| 4.6 |
| DICAMBA | (ND) \| 1.4 | 1.2 | 0.62 \| 0.62 |
| DICHLOROPROP | (ND) \| 16 | 2.5 | 1.2 \| 1.2 |
| DINOSEB | (ND) \| ND | 1.8 | 0.88 \| 0.88 |
| MCPA | (ND) \| 1300 | 260 | 130 \| 130 |
| MCPP | (ND) \| ND | 260 | 130 \| 130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (45.70) \| 34.99 | 154.8 | (29.5) \| 22.6 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/24/12 10:54 |
| Sample ID: SL-021-NBZ-SS-0.0-0.5 | Date Analyzed: 03/26/12 23:17 |
| Lab Samp ID: C106-09 | Dilution Factor: 1 |
| Lab File ID: WC26024A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : 2.7 |
| Calib. Ref.: WC26016A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (18)\|9.6 | 3.7 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.87\|0.87 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.087\|0.087 |
| 2,4,5-TP(SILVEX) | 0.53\|(ND) | 0.17 | 0.087\|0.087 |
| DALAPON | (ND)\|ND | 9.2 | 4.6\|4.6 |
| DICAMBA | (ND)\|ND | 1.2 | 0.62\|0.62 |
| DICHLOROPROP | (ND)\|8.0 | 2.5 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.87\|0.87 |
| MCPA | 1200\|(ND) | 260 | 130\|130 |
| MCPP | (ND)\|480 | 260 | 130\|130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (88.72)\|70.52 | 154.2 | (57.6)\|45.7 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/24/12 |
| Batch No. : 12C106 | Date Extracted: 03/24/12 10:54 |
| Sample ID: MBLK1S | Date Analyzed: 03/26/12 20:56 |
| Lab Samp ID: HEC010SB | Dilution Factor: 1 |
| Lab File ID: WC26017A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : NA |
| Calib. Ref.: WC26016A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (94.05)\|83.92 | 150.0 | (62.7)\|55.9 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HEC010SB | HEC010SL | HEC010SC | | |
| LAB FILE ID: | WC26017A | WC26018A | WC26019A | | |
| DATE EXTRACTED: | 03/24/1210:54 | 03/24/1210:54 | 03/24/1210:54 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/26/1220:56 | 03/26/1221:16 | 03/26/1221:36 | DATE RECEIVED: | 03/24/12 |
| PREP. BATCH: | HEC010S | HEC010S | HEC010S | | |
| CALIB. REF: | WC26016A | WC26016A | WC26016A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND) \| ND | 15.0 | (6.24) \| 5.21 | (42) \| 35 | 15.0 | (6.67) \| 6.36 | (44) \| 42 | (7) \| 20 | 20-130 | 50 |
| 2,4-DB | (ND) \| ND | 15.0 | 6.56 \| (11.2) | 44 \| (75) | 15.0 | 7.46 \| (13.4) | 50 \| (89) | 13 \| (18) | 20-160 | 50 |
| 2,4,5-T | (ND) \| ND | 15.0 | 9.58 \| (10.5) | 64 \| (70) | 15.0 | 10.6 \| (12.8) | 71 \| (85) | 10 \| (20) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND) \| ND | 15.0 | (16.2) \| 13.6 | (108) \| 91 | 15.0 | 15.5 \| (18.1) | 103 \| (121) | 4 \| (28) | 30-140 | 50 |
| Dalapon | (ND) \| ND | 15.0 | (10.4) \| 9.77 | (69) \| 65 | 15.0 | (10.7) \| 9.82 | (71) \| 65 | (3) \| 1 | 20-160 | 50 |
| Dicamba | (ND) \| ND | 15.0 | (10.6) \| 10.1 | (71) \| 67 | 15.0 | (11.3) \| 11.0 | (75) \| 73 | (6) \| 9 | 50-150 | 50 |
| Dichloroprop | (ND) \| ND | 15.0 | (13.0) \| 31.4 | (87) \| 209* | 15.0 | (13.5) \| 33.0 | (90) \| 220* | (4) \| 5 | 60-160 | 50 |
| Dinoseb | (ND) \| ND | 15.0 | (11.6) \| 10.5 | (77) \| 70 | 15.0 | (11.9) \| 10.6 | (79) \| 71 | (3) \| 1 | 20-130 | 50 |
| MCPA | (ND) \| ND | 750 | (805) \| 377 | (107) \| 50 | 750 | (989) \| 394 | (132) \| 53 | (21) \| 4 | 20-160 | 50 |
| MCPP | (ND) \| ND | 750 | 355 \| (526) | 47 \| (70) | 750 | 368 \| (562) | 49 \| (75) | 4 \| (7) | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 | (108.8) \| 99.46 | (72.5) \| 66.3 | 150.0 | (113.9) \| 103.9 | (75.9) \| 69.2 | 10-150 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/15/12 16:33 |
| Sample ID: SL-005-NBZ-SB-4.0-5.0 | Date Analyzed: 03/16/12 21:41 |
| Lab Samp ID: C106-02 | Dilution Factor: 1 |
| Lab File ID: XC16021A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: XC16014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1810 | 2000 | 90.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/15/12 16:33 |
| Sample ID: SL-006-NBZ-SB-3.0-4.0 | Date Analyzed: 03/16/12 22:15 |
| Lab Samp ID: C106-04 | Dilution Factor: .99 |
| Lab File ID: XC16022A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: XC16014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1790 | 1980 | 90.2 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/15/12 16:33 |
| Sample ID: SL-019-NBZ-SB-3.0-4.0 | Date Analyzed: 03/16/12 22:49 |
| Lab Samp ID: C106-08 | Dilution Factor: .99 |
| Lab File ID: XC16023A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: XC16014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1810 | 1980 | 91.4 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/15/12 16:33 |
| Sample ID: SL-021-NBZ-SB-4.0-5.0 | Date Analyzed: 03/16/12 23:23 |
| Lab Samp ID: C106-11 | Dilution Factor: 1 |
| Lab File ID: XC16024A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: XC16014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1790 | 2000 | 89.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/15/12 |
| Batch No. : 12C106 | Date Extracted: 03/15/12 16:33 |
| Sample ID: MBLK1S | Date Analyzed: 03/16/12 12:02 |
| Lab Samp ID: EXC008SB | Dilution Factor: 1 |
| Lab File ID: XC16004A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: XC16003A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1840 | 2000 | 91.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXC008SB | EXC008SL | EXC008SC | | |
| LAB FILE ID: | XC16004A | XC16005A | XC16006A | | |
| DATE EXTRACTED: | 03/15/1216:33 | 03/15/1216:33 | 03/15/1216:33 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/16/1212:02 | 03/16/1212:36 | 03/16/1213:10 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | EXC008S | EXC008S | EXC008S | | |
| CALIB. REF: | XC16003A | XC16003A | XC16003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 2080 | 104 | 2000 | 2120 | 106 | 2 | 70-130 | 50 |
| RDX | ND | 2000 | 2120 | 106 | 2000 | 2110 | 105 | 1 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2350 | 117 | 2000 | 2350 | 117 | 0 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2160 | 108 | 2000 | 2100 | 105 | 3 | 70-130 | 50 |
| Tetryl | ND | 2000 | 2460 | 123 | 2000 | 2440 | 122 | 1 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 1880 | 94 | 2000 | 1920 | 96 | 2 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 2190 | 110 | 2000 | 2190 | 109 | 0 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 2110 | 105 | 2000 | 2160 | 108 | 2 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 2080 | 104 | 2000 | 2090 | 105 | 0 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2330 | 116 | 2000 | 2270 | 113 | 3 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2260 | 113 | 2000 | 2210 | 111 | 2 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 2170 | 108 | 2000 | 2180 | 109 | 1 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 2140 | 107 | 2000 | 2140 | 107 | 0 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 2060 | 103 | 2000 | 2020 | 101 | 2 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1820 | 91 | 2000 | 1780 | 89 | 2 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2120 | 106 | 2000 | 2120 | 106 | 0 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1860 | 93 | 2000 | 1880 | 94 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/13/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/13/12 |
| Batch No. | : 12C106 | Date Extracted | : 03/15/12 16:33 |
| Sample ID | : SL-005-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/16/12 17:32 |
| Lab Samp ID | : C106-02 | Dilution Factor | : 1 |
| Lab File ID | : PC16025A | Matrix | : SOIL |
| Ext Btch ID | : EXC008S | % Moisture | : NA |
| Calib. Ref. | : PC16018A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2420 | 2000 | 121 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/13/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/13/12 |
| Batch No. | : 12C106 | Date Extracted | : 03/15/12 16:33 |
| Sample ID | : SL-006-NBZ-SB-3.0-4.0 | Date Analyzed | : 03/16/12 17:53 |
| Lab Samp ID | : C106-04 | Dilution Factor | : .99 |
| Lab File ID | : PC16026A | Matrix | : SOIL |
| Ext Btch ID | : EXC008S | % Moisture | : NA |
| Calib. Ref. | : PC16018A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2360 | 1980 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/13/12 |
| Batch No. : 12C106 | Date Extracted: 03/15/12 16:33 |
| Sample ID: SL-019-NBZ-SB-3.0-4.0 | Date Analyzed: 03/16/12 18:07 |
| Lab Samp ID: C106-08 | Dilution Factor: .99 |
| Lab File ID: PC16027A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: PC16018A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2310 | 1980 | 117 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/13/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/13/12 |
| Batch No. | : 12C106 | Date Extracted | : 03/15/12 16:33 |
| Sample ID | : SL-021-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/16/12 18:21 |
| Lab Samp ID | : C106-11 | Dilution Factor | : 1 |
| Lab File ID | : PC16028A | Matrix | : SOIL |
| Ext Btch ID | : EXC008S | % Moisture | : NA |
| Calib. Ref. | : PC16018A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2410 | 2000 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/15/12 |
| Batch No. : 12C106 | Date Extracted: 03/15/12 16:33 |
| Sample ID: MBLK1S | Date Analyzed: 03/16/12 13:40 |
| Lab Samp ID: EXC008SB | Dilution Factor: 1 |
| Lab File ID: PC16008A | Matrix : SOIL |
| Ext Btch ID: EXC008S | % Moisture : NA |
| Calib. Ref.: PC16007A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2410 | 2000 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXC008SB | EXC008SX | EXC008SY | | |
| LAB FILE ID: | PC16008A | PC16009A | PC16010A | | |
| DATE EXTRACTED: | 03/15/1216:33 | 03/15/1216:33 | 03/15/1216:33 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/16/1213:40 | 03/16/1213:53 | 03/16/1214:07 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | EXC008S | EXC008S | EXC008S | | |
| CALIB. REF: | PC16007A | PC16007A | PC16007A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7740 | 103 | 7500 | 7510 | 100 | 3 | 50-150 | 50 |
| PETN | ND | 7500 | 7980 | 106 | 7500 | 8000 | 107 | 0 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2400 | 120 | 2000 | 2420 | 121 | 65-135 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C106

Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CNC004SB | ND | 1 | NA | 0.500 | 0.250 | 03/15/1218:20 | 03/15/1210:30 | CNC00410 | CNC00408 | CNC004S | NA | 03/15/12 |
| LCS1S | CNC004SL | 2.57 | 1 | NA | 0.500 | 0.250 | 03/15/1218:21 | 03/15/1210:30 | CNC00411 | CNC00408 | CNC004S | NA | 03/15/12 |
| LCD1S | CNC004SC | 2.39 | 1 | NA | 0.500 | 0.250 | 03/15/1218:21 | 03/15/1210:30 | CNC00412 | CNC00408 | CNC004S | NA | 03/15/12 |
| SL-005-NBZ-SB-4.0-5.0 | C106-02 | ND | 1 | 9.6 | 0.553 | 0.277 | 03/15/1218:24 | 03/15/1210:30 | CNC00425 | CNC00420 | CNC004S | 03/13/1210:25 | 03/13/12 |
| SL-006-NBZ-SB-3.0-4.0 | C106-04 | ND | 1 | 6.0 | 0.532 | 0.266 | 03/15/1218:24 | 03/15/1210:30 | CNC00426 | CNC00420 | CNC004S | 03/13/1209:00 | 03/13/12 |
| SL-019-NBZ-SB-3.0-4.0 | C106-08 | ND | 1 | 5.8 | 0.531 | 0.265 | 03/15/1218:24 | 03/15/1210:30 | CNC00427 | CNC00420 | CNC004S | 03/13/1214:40 | 03/13/12 |
| SL-021-NBZ-SB-4.0-5.0 | C106-11 | ND | 1 | 3.9 | 0.520 | 0.260 | 03/15/1218:25 | 03/15/1210:30 | CNC00428 | CNC00420 | CNC004S | 03/13/1215:45 | 03/13/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C106
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CNC004SL/C

DATE RECEIVED: 03/15/12
DATE EXTRACTED: 03/15/12 10:30
DATE ANALYZED: 03/15/12 18:21/18:21

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.57 | 103 | 2.50 | 2.39 | 96 | 7 | 85-125 | 20 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/13/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/13/12 |
| SDG NO. | : 12C106 | Date Extracted | : 03/16/12 10:26 |
| Sample ID | : SL-005-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/19/12 14:27 |
| Lab Samp ID | : C106-02 | Dilution Factor | : 0.952 |
| Lab File ID | : 98C06036 | Matrix | : SOIL |
| Ext Btch ID | : IMC017S | % Moisture | : 9.6 |
| Calib. Ref. | : 98C06029 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 18900 | 25.3 | 12.6 |
| Antimony | 0.132J | 0.211 | 0.105 |
| Arsenic | 7.80 | 0.421 | 0.211 |
| Barium | 105 | 0.421 | 0.211 |
| Beryllium | 0.742 | 0.105 | 0.0527 |
| Boron | ND | 5.27 | 2.63 |
| Cadmium | 0.153 | 0.105 | 0.0527 |
| Calcium | 2130 | 21.1 | 10.5 |
| Chromium | 16.5 | 0.421 | 0.211 |
| Cobalt | 4.60 | 0.105 | 0.0527 |
| Copper | 7.65 | 0.421 | 0.211 |
| Iron | 19900 | 21.1 | 10.5 |
| Lead | 6.68 | 0.211 | 0.105 |
| Magnesium | 4370 | 10.5 | 5.27 |
| Manganese | 213 | 0.527 | 0.263 |
| Molybdenum | 0.686 | 0.105 | 0.0527 |
| Nickel | 11.3 | 0.421 | 0.211 |
| Potassium | 1800 | 63.2 | 31.6 |
| Selenium | ND | 0.421 | 0.211 |
| Silver | 0.0616J | 0.105 | 0.0527 |
| Sodium | 53.5J | 105 | 52.7 |
| Strontium | 16.2 | 0.527 | 0.263 |
| Thallium | 0.259 | 0.105 | 0.0527 |
| Tin | ND | 10.5 | 5.27 |
| Titanium | 862 | 1.05 | 0.527 |
| Vanadium | 32.8 | 0.105 | 0.0527 |
| Zinc | 47.4 | 3.16 | 1.58 |
| Lithium | 26.3 | 2.11 | 1.05 |
| Phosphorus | 288 | 12.6 | 6.32 |
| Zirconium | ND | 5.27 | 2.63 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/13/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/13/12 |
| SDG NO. | : 12C106 | Date Extracted | : 03/16/12 10:26 |
| Sample ID | : SL-006-NBZ-SB-3.0-4.0 | Date Analyzed | : 03/19/12 14:34 |
| Lab Samp ID | : C106-04 | Dilution Factor | : 0.985 |
| Lab File ID | : 98C06037 | Matrix | : SOIL |
| Ext Btch ID | : IMC017S | % Moisture | : 6.0 |
| Calib. Ref. | : 98C06029 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 8170 | 25.1 | 12.6 |
| Antimony | ND | 0.210 | 0.105 |
| Arsenic | 4.16 | 0.419 | 0.210 |
| Barium | 42.1 | 0.419 | 0.210 |
| Beryllium | 0.316 | 0.105 | 0.0524 |
| Boron | ND | 5.24 | 2.62 |
| Cadmium | 0.0836J | 0.105 | 0.0524 |
| Calcium | 1880 | 21.0 | 10.5 |
| Chromium | 10.1 | 0.419 | 0.210 |
| Cobalt | 3.59 | 0.105 | 0.0524 |
| Copper | 3.54 | 0.419 | 0.210 |
| Iron | 16400 | 21.0 | 10.5 |
| Lead | 3.20 | 0.210 | 0.105 |
| Magnesium | 3610 | 10.5 | 5.24 |
| Manganese | 176 | 0.524 | 0.262 |
| Molybdenum | 0.242 | 0.105 | 0.0524 |
| Nickel | 5.67 | 0.419 | 0.210 |
| Potassium | 2210 | 62.9 | 31.4 |
| Selenium | ND | 0.419 | 0.210 |
| Silver | ND | 0.105 | 0.0524 |
| Sodium | ND | 105 | 52.4 |
| Strontium | 7.53 | 0.524 | 0.262 |
| Thallium | 0.195 | 0.105 | 0.0524 |
| Tin | ND | 10.5 | 5.24 |
| Titanium | 735 | 1.05 | 0.524 |
| Vanadium | 23.9 | 0.105 | 0.0524 |
| Zinc | 42.0 | 3.14 | 1.57 |
| Lithium | 21.4 | 2.10 | 1.05 |
| Phosphorus | 441 | 12.6 | 6.29 |
| Zirconium | ND | 5.24 | 2.62 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/13/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/13/12 |
| SDG NO. | : 12C106 | Date Extracted | : 03/16/12 10:26 |
| Sample ID | : SL-015-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/19/12 14:41 |
| Lab Samp ID | : C106-05 | Dilution Factor | : 0.930 |
| Lab File ID | : 98C06038 | Matrix | : SOIL |
| Ext Btch ID | : IMC017S | % Moisture | : 1.6 |
| Calib. Ref. | : 98C06029 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10100 | 22.7 | 11.3 |
| Antimony | 0.160J | 0.189 | 0.0945 |
| Arsenic | 3.68 | 0.378 | 0.189 |
| Barium | 57.7 | 0.378 | 0.189 |
| Beryllium | 0.421 | 0.0945 | 0.0473 |
| Boron | ND | 4.73 | 2.36 |
| Cadmium | 0.151 | 0.0945 | 0.0473 |
| Calcium | 3230 | 18.9 | 9.45 |
| Chromium | 15.5 | 0.378 | 0.189 |
| Cobalt | 5.15 | 0.0945 | 0.0473 |
| Copper | 7.15 | 0.378 | 0.189 |
| Iron | 20400 | 18.9 | 9.45 |
| Lead | 6.19 | 0.189 | 0.0945 |
| Magnesium | 5710 | 9.45 | 4.73 |
| Manganese | 255 | 0.473 | 0.236 |
| Molybdenum | 0.297 | 0.0945 | 0.0473 |
| Nickel | 10.3 | 0.378 | 0.189 |
| Potassium | 2650 | 56.7 | 28.4 |
| Selenium | ND | 0.378 | 0.189 |
| Silver | ND | 0.0945 | 0.0473 |
| Sodium | ND | 94.5 | 47.3 |
| Strontium | 11.6 | 0.473 | 0.236 |
| Thallium | 0.249 | 0.0945 | 0.0473 |
| Tin | ND | 9.45 | 4.73 |
| Titanium | 974 | 0.945 | 0.473 |
| Vanadium | 37.0 | 0.0945 | 0.0473 |
| Zinc | 51.9 | 2.84 | 1.42 |
| Lithium | 26.9 | 1.89 | 0.945 |
| Phosphorus | 438 | 11.3 | 5.67 |
| Zirconium | ND | 4.73 | 2.36 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/13/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/13/12 |
| SDG NO. | : 12C106 | Date Extracted | : 03/16/12 10:26 |
| Sample ID | : SL-019-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/19/12 14:48 |
| Lab Samp ID | : C106-06 | Dilution Factor | : 0.957 |
| Lab File ID | : 98C06039 | Matrix | : SOIL |
| Ext Btch ID | : IMC017S | % Moisture | : 3.1 |
| Calib. Ref. | : 98C06029 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 8660 | 23.7 | 11.9 |
| Antimony | 0.168J | 0.198 | 0.0988 |
| Arsenic | 3.41 | 0.395 | 0.198 |
| Barium | 56.7 | 0.395 | 0.198 |
| Beryllium | 0.370 | 0.0988 | 0.0494 |
| Boron | ND | 4.94 | 2.47 |
| Cadmium | 0.153 | 0.0988 | 0.0494 |
| Calcium | 3500 | 19.8 | 9.88 |
| Chromium | 13.9 | 0.395 | 0.198 |
| Cobalt | 4.81 | 0.0988 | 0.0494 |
| Copper | 6.89 | 0.395 | 0.198 |
| Iron | 18100 | 19.8 | 9.88 |
| Lead | 8.30 | 0.198 | 0.0988 |
| Magnesium | 4900 | 9.88 | 4.94 |
| Manganese | 270 | 0.494 | 0.247 |
| Molybdenum | 0.378 | 0.0988 | 0.0494 |
| Nickel | 9.50 | 0.395 | 0.198 |
| Potassium | 2940 | 59.3 | 29.6 |
| Selenium | ND | 0.395 | 0.198 |
| Silver | ND | 0.0988 | 0.0494 |
| Sodium | ND | 98.8 | 49.4 |
| Strontium | 7.79 | 0.494 | 0.247 |
| Thallium | 0.208 | 0.0988 | 0.0494 |
| Tin | ND | 9.88 | 4.94 |
| Titanium | 841 | 0.988 | 0.494 |
| Vanadium | 29.6 | 0.0988 | 0.0494 |
| Zinc | 44.8 | 2.96 | 1.48 |
| Lithium | 21.4 | 1.98 | 0.988 |
| Phosphorus | 309 | 11.9 | 5.93 |
| Zirconium | ND | 4.94 | 2.47 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/13/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/13/12 |
| SDG NO. | : 12C106 | Date Extracted | : 03/16/12 10:26 |
| Sample ID | : SL-019-NBZ-SB-3.0-4.0 | Date Analyzed | : 03/19/12 14:55 |
| Lab Samp ID | : C106-08 | Dilution Factor | : 0.917 |
| Lab File ID | : 98C06040 | Matrix | : SOIL |
| Ext Btch ID | : IMC017S | % Moisture | : 5.8 |
| Calib. Ref. | : 98C06029 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9600 | 23.4 | 11.7 |
| Antimony | 0.143J | 0.195 | 0.0973 |
| Arsenic | 4.42 | 0.389 | 0.195 |
| Barium | 73.6 | 0.389 | 0.195 |
| Beryllium | 0.439 | 0.0973 | 0.0487 |
| Boron | ND | 4.87 | 2.43 |
| Cadmium | 0.137 | 0.0973 | 0.0487 |
| Calcium | 8610 | 19.5 | 9.73 |
| Chromium | 15.8 | 0.389 | 0.195 |
| Cobalt | 5.58 | 0.0973 | 0.0487 |
| Copper | 7.61 | 0.389 | 0.195 |
| Iron | 20100 | 19.5 | 9.73 |
| Lead | 3.81 | 0.195 | 0.0973 |
| Magnesium | 6170 | 9.73 | 4.87 |
| Manganese | 265 | 0.487 | 0.243 |
| Molybdenum | 0.366 | 0.0973 | 0.0487 |
| Nickel | 10.0 | 0.389 | 0.195 |
| Potassium | 2240 | 58.4 | 29.2 |
| Selenium | ND | 0.389 | 0.195 |
| Silver | ND | 0.0973 | 0.0487 |
| Sodium | 73.5J | 97.3 | 48.7 |
| Strontium | 15.1 | 0.487 | 0.243 |
| Thallium | 0.203 | 0.0973 | 0.0487 |
| Tin | ND | 9.73 | 4.87 |
| Titanium | 982 | 0.973 | 0.487 |
| Vanadium | 34.2 | 0.0973 | 0.0487 |
| Zinc | 55.1 | 2.92 | 1.46 |
| Lithium | 31.6 | 1.95 | 0.973 |
| Phosphorus | 463 | 11.7 | 5.84 |
| Zirconium | ND | 4.87 | 2.43 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/13/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/13/12 |
| SDG NO. | : 12C106 | Date Extracted | : 03/16/12 10:26 |
| Sample ID | : SL-021-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/19/12 15:16 |
| Lab Samp ID | : C106-09 | Dilution Factor | : 0.943 |
| Lab File ID | : 98C06043 | Matrix | : SOIL |
| Ext Btch ID | : IMC017S | % Moisture | : 2.7 |
| Calib. Ref. | : 98C06041 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10600 | 23.3 | 11.6 |
| Antimony | 0.191J | 0.194 | 0.0969 |
| Arsenic | 4.35 | 0.388 | 0.194 |
| Barium | 73.4 | 0.388 | 0.194 |
| Beryllium | 0.482 | 0.0969 | 0.0485 |
| Boron | ND | 4.85 | 2.42 |
| Cadmium | 0.200 | 0.0969 | 0.0485 |
| Calcium | 1790 | 19.4 | 9.69 |
| Chromium | 15.5 | 0.388 | 0.194 |
| Cobalt | 5.27 | 0.0969 | 0.0485 |
| Copper | 7.71 | 0.388 | 0.194 |
| Iron | 19700 | 19.4 | 9.69 |
| Lead | 5.04 | 0.194 | 0.0969 |
| Magnesium | 4120 | 9.69 | 4.85 |
| Manganese | 286 | 0.485 | 0.242 |
| Molybdenum | 0.537 | 0.0969 | 0.0485 |
| Nickel | 10.8 | 0.388 | 0.194 |
| Potassium | 3910 | 58.2 | 29.1 |
| Selenium | ND | 0.388 | 0.194 |
| Silver | ND | 0.0969 | 0.0485 |
| Sodium | 50.0J | 96.9 | 48.5 |
| Strontium | 12.7 | 0.485 | 0.242 |
| Thallium | 0.236 | 0.0969 | 0.0485 |
| Tin | ND | 9.69 | 4.85 |
| Titanium | 833 | 0.969 | 0.485 |
| Vanadium | 32.7 | 0.0969 | 0.0485 |
| Zinc | 44.8 | 2.91 | 1.45 |
| Lithium | 20.7 | 1.94 | 0.969 |
| Phosphorus | 372 | 11.6 | 5.82 |
| Zirconium | ND | 4.85 | 2.42 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/13/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/13/12 |
| SDG NO. | : 12C106 | Date Extracted | : 03/16/12 10:26 |
| Sample ID | : SL-021-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/19/12 15:23 |
| Lab Samp ID | : C106-11 | Dilution Factor | : 0.939 |
| Lab File ID | : 98C06044 | Matrix | : SOIL |
| Ext Btch ID | : IMC017S | % Moisture | : 3.9 |
| Calib. Ref. | : 98C06041 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12000 | 23.5 | 11.7 |
| Antimony | 0.164J | 0.195 | 0.0977 |
| Arsenic | 4.35 | 0.391 | 0.195 |
| Barium | 70.0 | 0.391 | 0.195 |
| Beryllium | 0.497 | 0.0977 | 0.0489 |
| Boron | ND | 4.89 | 2.44 |
| Cadmium | 0.111 | 0.0977 | 0.0489 |
| Calcium | 1600 | 19.5 | 9.77 |
| Chromium | 15.9 | 0.391 | 0.195 |
| Cobalt | 5.32 | 0.0977 | 0.0489 |
| Copper | 6.25 | 0.391 | 0.195 |
| Iron | 20100 | 19.5 | 9.77 |
| Lead | 4.13 | 0.195 | 0.0977 |
| Magnesium | 4810 | 9.77 | 4.89 |
| Manganese | 257 | 0.489 | 0.244 |
| Molybdenum | 0.460 | 0.0977 | 0.0489 |
| Nickel | 9.36 | 0.391 | 0.195 |
| Potassium | 2860 | 58.6 | 29.3 |
| Selenium | ND | 0.391 | 0.195 |
| Silver | ND | 0.0977 | 0.0489 |
| Sodium | 71.1J | 97.7 | 48.9 |
| Strontium | 13.1 | 0.489 | 0.244 |
| Thallium | 0.239 | 0.0977 | 0.0489 |
| Tin | ND | 9.77 | 4.89 |
| Titanium | 1030 | 0.977 | 0.489 |
| Vanadium | 35.5 | 0.0977 | 0.0489 |
| Zinc | 44.2 | 2.93 | 1.47 |
| Lithium | 21.7 | 1.95 | 0.977 |
| Phosphorus | 142 | 11.7 | 5.86 |
| Zirconium | ND | 4.89 | 2.44 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/16/12 |
| SDG NO. | : 12C106 | Date Extracted | : 03/16/12 10:26 |
| Sample ID | : MBLK1S | Date Analyzed | : 03/19/12 12:28 |
| Lab Samp ID | : IMC017SB | Dilution Factor | : 1 |
| Lab File ID | : 98C06019 | Matrix | : SOIL |
| Ext Btch ID | : IMC017S | % Moisture | : NA |
| Calib. Ref. | : 98C06017 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C106
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IMC017SB | IMC017SL | IMC017SC | | |
| LAB FILE ID: | 98C06019 | 98C06020 | 98C06021 | | |
| DATIME EXTRCTD: | 03/16/1210:26 | 03/16/1210:26 | 03/16/1210:26 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 03/19/1212:28 | 03/19/1212:35 | 03/19/1212:42 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | IMC017S | IMC017S | IMC017S | | |
| CALIB. REF: | 98C06017 | 98C06017 | 98C06017 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2530 | 101 | 2500 | 2570 | 103 | 2 | 80-120 | 20 |
| Antimony | ND | 25.0 | 25.5 | 102 | 25.0 | 26.2 | 105 | 3 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 24.6 | 98 | 25.0 | 25.0 | 100 | 2 | 80-120 | 20 |
| Barium | ND | 25.0 | 24.8 | 99 | 25.0 | 25.3 | 101 | 2 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 24.8 | 99 | 25.0 | 25.0 | 100 | 1 | 80-120 | 20 |
| Boron | ND | 25.0 | 24.7 | 99 | 25.0 | 25.0 | 100 | 1 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 24.5 | 98 | 25.0 | 25.1 | 100 | 2 | 80-120 | 20 |
| Calcium | ND | 2500 | 2630 | 105 | 2500 | 2680 | 107 | 2 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.4 | 98 | 25.0 | 24.5 | 98 | 1 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 24.7 | 99 | 25.0 | 24.7 | 99 | 0 | 80-120 | 20 |
| Copper | ND | 25.0 | 23.7 | 95 | 25.0 | 24.0 | 96 | 1 | 80-120 | 20 |
| Iron | ND | 2500 | 2600 | 104 | 2500 | 2610 | 105 | 1 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.3 | 101 | 25.0 | 25.9 | 104 | 2 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2510 | 100 | 2500 | 2540 | 101 | 1 | 80-120 | 20 |
| Manganese | ND | 25.0 | 24.6 | 98 | 25.0 | 24.8 | 99 | 1 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 24.7 | 99 | 25.0 | 25.4 | 102 | 3 | 80-120 | 20 |
| Nickel | ND | 25.0 | 23.9 | 95 | 25.0 | 24.2 | 97 | 1 | 80-120 | 20 |
| Potassium | ND | 2500 | 2620 | 105 | 2500 | 2650 | 106 | 1 | 80-120 | 20 |
| Selenium | ND | 25.0 | 24.1 | 96 | 25.0 | 24.4 | 97 | 1 | 80-120 | 20 |
| Silver | ND | 25.0 | 24.6 | 98 | 25.0 | 25.5 | 102 | 4 | 80-120 | 20 |
| Sodium | ND | 2500 | 2520 | 101 | 2500 | 2510 | 100 | 0 | 80-120 | 20 |
| Strontium | ND | 25.0 | 25.0 | 100 | 25.0 | 25.3 | 101 | 1 | 80-120 | 20 |
| Thallium | ND | 25.0 | 25.0 | 100 | 25.0 | 26.0 | 104 | 4 | 80-120 | 20 |
| Tin | ND | 25.0 | 27.2 | 109 | 25.0 | 27.6 | 110 | 2 | 80-120 | 20 |
| Titanium | ND | 25.0 | 25.3 | 101 | 25.0 | 25.5 | 102 | 1 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 24.5 | 98 | 25.0 | 24.8 | 99 | 1 | 80-120 | 20 |
| Zinc | ND | 50.0 | 47.1 | 94 | 50.0 | 47.7 | 95 | 1 | 80-120 | 20 |
| Lithium | ND | 25.0 | 24.9 | 100 | 25.0 | 25.3 | 101 | 2 | 80-120 | 20 |
| Phosphorus | ND | 250 | 246 | 98 | 250 | 249 | 99 | 1 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 25.5 | 102 | 25.0 | 26.1 | 104 | 2 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C106
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 4.3
DILTN FACTR: 0.943 0.943
SAMPLE ID: SL-003-NBZ-SB-0.0-0.5
CONTROL NO.: C096-15W C096-15A
LAB FILE ID: 98C10075 98C10074
DATIME EXTRCTD: 03/16/1210:26 03/16/1210:26 DATE COLLECTED: 03/12/12
DATIME ANALYZD: 03/23/1222:20 03/23/1222:13 DATE RECEIVED: 03/12/12
PREP. BATCH: IMC017S IMC017S
CALIB. REF: 98C10071 98C10071

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 15400 | 2460 | 17800 | 98 | 75-125 |
| Antimony | 0.293 | 24.6 | 24.9 | 100 | 75-125 |
| Arsenic | 8.62 | 24.6 | 31.0 | 91 | 75-125 |
| Barium | 107 | 24.6 | 132 | 102 | 75-125 |
| Beryllium | 0.823 | 24.6 | 25.2 | 99 | 75-125 |
| Boron | 4.28J | 24.6 | 28.4 | 98 | 75-125 |
| Cadmium | 0.268 | 24.6 | 23.8 | 95 | 75-125 |
| Calcium | 7780 | 2460 | 10000 | 90 | 75-125 |
| Chromium | 24.4 | 24.6 | 45.0 | 84 | 75-125 |
| Cobalt | 8.56 | 24.6 | 29.6 | 85 | 75-125 |
| Copper | 17.5 | 24.6 | 37.1 | 80 | 75-125 |
| Iron | 29000 | 2460 | 30600 | 67* | 75-125 |
| Lead | 12.9 | 24.6 | 36.4 | 95 | 75-125 |
| Magnesium | 6650 | 2460 | 8880 | 91 | 75-125 |
| Manganese | 326 | 24.6 | 346 | 84 | 75-125 |
| Molybdenum | 0.542 | 24.6 | 24.7 | 98 | 75-125 |
| Nickel | 17.8 | 24.6 | 37.7 | 81 | 75-125 |
| Potassium | 4060 | 2460 | 6260 | 89 | 75-125 |
| Selenium | 0.268J | 24.6 | 24.5 | 98 | 75-125 |
| Silver | 0.118 | 24.6 | 23.3 | 94 | 75-125 |
| Sodium | 74.4J | 2460 | 2170 | 85 | 75-125 |
| Strontium | 24.7 | 24.6 | 48.0 | 95 | 75-125 |
| Thallium | 0.404 | 24.6 | 24.7 | 99 | 75-125 |
| Tin | ND | 24.6 | 28.3 | 115 | 75-125 |
| Titanium | 903 | 24.6 | 925 | 90 | 75-125 |
| Vanadium | 44.9 | 24.6 | 65.9 | 85 | 75-125 |
| Zinc | 93.8 | 49.3 | 143 | 99 | 75-125 |
| Lithium | 44.6 | 24.6 | 70.0 | 103 | 75-125 |
| Phosphorus | 594 | 246 | 818 | 91 | 75-125 |
| Zirconium | 3.09J | 24.6 | 24.7 | 88 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 4.3
DILUTION FACTOR: 0.943 4.72
SAMPLE ID: SL-003-NBZ-SB- SL-003-NBZ-SB-
EMAX SAMP ID: C096-15W C096-15J
LAB FILE ID: 98C10075 98C10073
DATE EXTRACTED: 03/16/1210:26 03/16/1210:26 DATE COLLECTED: 03/12/12
DATE ANALYZED: 03/23/1222:20 03/23/1222:06 DATE RECEIVED: 03/12/12
PREP. BATCH: IMC017S IMC017S
CALIB. REF: 98C10071 98C10071

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 15400 | 16100 | 4 | 10 |
| Antimony | 0.293 | ND | NA | 10 |
| Arsenic | 8.62 | 8.84 | 3 | 10 |
| Barium | 107 | 96.3 | 10 | 10 |
| Beryllium | 0.823 | 0.777 | 6 | 10 |
| Boron | 4.28J | ND | NA | 10 |
| Cadmium | 0.268 | 0.247J | NA | 10 |
| Calcium | 7780 | 8240 | 6 | 10 |
| Chromium | 24.4 | 25.3 | 4 | 10 |
| Cobalt | 8.56 | 9.25 | 8 | 10 |
| Copper | 17.5 | 18.9 | 8 | 10 |
| Iron | 29000 | 31200 | 7 | 10 |
| Lead | 12.9 | 12.7 | 2 | 10 |
| Magnesium | 6650 | 6950 | 4 | 10 |
| Manganese | 326 | 353 | 8 | 10 |
| Molybdenum | 0.542 | 0.506 | 7 | 10 |
| Nickel | 17.8 | 18.8 | 6 | 10 |
| Potassium | 4060 | 4110 | 1 | 10 |
| Selenium | 0.268J | ND | NA | 10 |
| Silver | 0.118 | ND | NA | 10 |
| Sodium | 74.4J | ND | NA | 10 |
| Strontium | 24.7 | 23.1 | 6 | 10 |
| Thallium | 0.404 | 0.403J | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 903 | 923 | 2 | 10 |
| Vanadium | 44.9 | 46.3 | 3 | 10 |
| Zinc | 93.8 | 92.7 | 1 | 10 |
| Lithium | 44.6 | 41.2 | 8 | 10 |
| Phosphorus | 594 | 585 | 2 | 10 |
| Zirconium | 3.09J | ND | NA | 10 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C106
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGC013SB | ND | 1 | NA | 0.100 | 0.0500 | 03/16/1214:25 | 03/16/1211:14 | M47C011010 | M47C011008 | HGC013S | NA | 03/16/12 |
| LCS1S | HGC013SL | 0.920 | 1 | NA | 0.100 | 0.0500 | 03/16/1214:27 | 03/16/1211:14 | M47C011011 | M47C011008 | HGC013S | NA | 03/16/12 |
| LCD1S | HGC013SC | 0.913 | 1 | NA | 0.100 | 0.0500 | 03/16/1214:29 | 03/16/1211:14 | M47C011012 | M47C011008 | HGC013S | NA | 03/16/12 |
| SL-005-NBZ-SB-4.0-5.0AS | C106-02A | 0.981 | 1.00 | 9.6 | 0.111 | 0.0553 | 03/16/1214:31 | 03/16/1211:14 | M47C011013 | M47C011008 | HGC013S | 03/13/12 | 03/13/12 |
| SL-005-NBZ-SB-4.0-5.0 | C106-02 | ND | 1.00 | 9.6 | 0.111 | 0.0553 | 03/16/1214:33 | 03/16/1211:14 | M47C011014 | M47C011008 | HGC013S | 03/13/12 | 03/13/12 |
| SL-005-NBZ-SB-4.0-5.0DL | C106-02J | ND | 5.00 | 9.6 | 0.553 | 0.277 | 03/16/1214:35 | 03/16/1211:14 | M47C011015 | M47C011008 | HGC013S | 03/13/12 | 03/13/12 |
| SL-005-NBZ-SB-4.0-5.0MS | C106-02M | 1.02 | 1.00 | 9.6 | 0.111 | 0.0553 | 03/16/1214:37 | 03/16/1211:14 | M47C011016 | M47C011008 | HGC013S | 03/13/12 | 03/13/12 |
| SL-005-NBZ-SB-4.0-5.0MSD | C106-02S | 1.01 | 0.988 | 9.6 | 0.109 | 0.0546 | 03/16/1214:39 | 03/16/1211:14 | M47C011017 | M47C011008 | HGC013S | 03/13/12 | 03/13/12 |
| SL-006-NBZ-SB-3.0-4.0 | C106-04 | ND | 1.00 | 6.0 | 0.106 | 0.0532 | 03/16/1214:41 | 03/16/1211:14 | M47C011018 | M47C011008 | HGC013S | 03/13/12 | 03/13/12 |
| SL-015-NBZ-SS-0.0-0.5 | C106-05 | ND | 0.993 | 1.6 | 0.101 | 0.0505 | 03/16/1214:43 | 03/16/1211:14 | M47C011019 | M47C011008 | HGC013S | 03/13/12 | 03/13/12 |
| SL-019-NBZ-SS-0.0-0.5 | C106-06 | ND | 0.997 | 3.1 | 0.103 | 0.0514 | 03/16/1214:50 | 03/16/1211:14 | M47C011022 | M47C011020 | HGC013S | 03/13/12 | 03/13/12 |
| SL-019-NBZ-SB-3.0-4.0 | C106-08 | ND | 0.988 | 5.8 | 0.105 | 0.0524 | 03/16/1214:52 | 03/16/1211:14 | M47C011023 | M47C011020 | HGC013S | 03/13/12 | 03/13/12 |
| SL-021-NBZ-SS-0.0-0.5 | C106-09 | ND | 0.992 | 2.7 | 0.102 | 0.0510 | 03/16/1214:54 | 03/16/1211:14 | M47C011024 | M47C011020 | HGC013S | 03/13/12 | 03/13/12 |
| SL-021-NBZ-SB-4.0-5.0 | C106-11 | ND | 1.00 | 3.9 | 0.104 | 0.0520 | 03/16/1214:56 | 03/16/1211:14 | M47C011025 | M47C011020 | HGC013S | 03/13/12 | 03/13/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C106
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGC013SB | HGC013SL | HGC013SC | | |
| LAB FILE ID: | M47C011010 | M47C011011 | M47C011012 | | |
| DATIME EXTRCTD: | 03/16/1211:14 | 03/16/1211:14 | 03/16/1211:14 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 03/16/1214:25 | 03/16/1214:27 | 03/16/1214:29 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | HGC013S | HGC013S | HGC013S | | |
| CALIB. REF: | M47C011008 | M47C011008 | M47C011008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .92 | 110 | .833 | .913 | 110 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C106
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 9.6 |
| DILTN FACTR: | 1.00 | 1.00 | 0.988 | | |
| SAMPLE ID: | SL-005-NBZ-SB-4.0-5.0 | | | | |
| CONTROL NO.: | C106-02 | C106-02M | C106-02S | | |
| LAB FILE ID: | M47C011014 | M47C011016 | M47C011017 | | |
| DATIME EXTRCTD: | 03/16/1211:14 | 03/16/1211:14 | 03/16/1211:14 | DATE COLLECTED: | 03/13/12 |
| DATIME ANALYZD: | 03/16/1214:33 | 03/16/1214:37 | 03/16/1214:39 | DATE RECEIVED: | 03/13/12 |
| PREP. BATCH: | HGC013S | HGC013S | HGC013S | | |
| CALIB. REF: | M47C011008 | M47C011008 | M47C011008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .921 | 1.02 | 111 | .91 | 1.01 | 111 | 0 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C106
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 9.6 |
| DILTN FACTR: | 1.00 | 1.00 | | |
| SAMPLE ID: | SL-005-NBZ-SB-4.0-5.0 | | | |
| CONTROL NO.: | C106-02 | C106-02A | | |
| LAB FILE ID: | M47C011014 | M47C011013 | | |
| DATIME EXTRCTD: | 03/16/1211:14 | 03/16/1211:14 | DATE COLLECTED: | 03/13/12 |
| DATIME ANALYZD: | 03/16/1214:33 | 03/16/1214:31 | DATE RECEIVED: | 03/13/12 |
| PREP. BATCH: | HGC013S | HGC013S | | |
| CALIB. REF: | M47C011008 | M47C011008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .921 | .981 | 106 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 9.6 |
| DILUTION FACTOR: | 1.00 | 5.00 | | |
| SAMPLE ID: | SL-005-NBZ-SB-4.0-5 | SL-005-NBZ-SB-4.0-5 | | |
| EMAX SAMP ID: | C106-02 | C106-02J | | |
| LAB FILE ID: | M47C011014 | M47C011015 | | |
| DATE EXTRACTED: | 03/16/1211:14 | 03/16/1211:14 | DATE COLLECTED: | 03/13/12 |
| DATE ANALYZED: | 03/16/1214:33 | 03/16/1214:35 | DATE RECEIVED: | 03/13/12 |
| PREP. BATCH: | HGC013S | HGC013S | | |
| CALIB. REF: | M47C011008 | M47C011008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C106
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC002SB | ND | 1 | NA | 1.00 | 0.500 | 03/16/1200:18 | 03/15/1213:40 | AC19-53 | AC19-51 | ICC002S | NA | 03/15/12 |
| LCS1S | ICC002SL | 6.36 | 1 | NA | 1.00 | 0.500 | 03/16/1200:35 | 03/15/1213:40 | AC19-54 | AC19-51 | ICC002S | NA | 03/15/12 |
| LCD1S | ICC002SC | 6.36 | 1 | NA | 1.00 | 0.500 | 03/16/1200:51 | 03/15/1213:40 | AC19-55 | AC19-51 | ICC002S | NA | 03/15/12 |
| SL-005-NBZ-SB-4.0-5.0 | C106-02 | 1.04J | 1 | 9.6 | 1.11 | 0.553 | 03/16/1201:07 | 03/15/1213:40 | AC19-56 | AC19-51 | ICC002S | 03/13/1210:25 | 03/13/12 |
| SL-006-NBZ-SB-3.0-4.0 | C106-04 | 0.693J | 1 | 6.0 | 1.06 | 0.532 | 03/16/1201:23 | 03/15/1213:40 | AC19-57 | AC19-51 | ICC002S | 03/13/1209:00 | 03/13/12 |
| SL-015-NBZ-SS-0.0-0.5 | C106-05 | ND | 1 | 1.6 | 1.02 | 0.508 | 03/16/1201:39 | 03/15/1213:40 | AC19-58 | AC19-51 | ICC002S | 03/13/1211:30 | 03/13/12 |
| SL-019-NBZ-SS-0.0-0.5 | C106-06 | 0.599J | 1 | 3.1 | 1.03 | 0.516 | 03/16/1201:55 | 03/15/1213:40 | AC19-59 | AC19-51 | ICC002S | 03/13/1213:50 | 03/13/12 |
| SL-019-NBZ-SB-3.0-4.0 | C106-08 | 1.32 | 1 | 5.8 | 1.06 | 0.531 | 03/16/1202:12 | 03/15/1213:40 | AC19-60 | AC19-51 | ICC002S | 03/13/1214:40 | 03/13/12 |
| SL-021-NBZ-SS-0.0-0.5 | C106-09 | 0.674J | 1 | 2.7 | 1.03 | 0.514 | 03/16/1202:28 | 03/15/1213:40 | AC19-61 | AC19-51 | ICC002S | 03/13/1215:30 | 03/13/12 |
| SL-021-NBZ-SB-4.0-5.0 | C106-11 | 1.12 | 1 | 3.9 | 1.04 | 0.520 | 03/16/1202:44 | 03/15/1213:40 | AC19-62 | AC19-51 | ICC002S | 03/13/1215:45 | 03/13/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC002SB | ICC002SL | ICC002SC | | |
| LAB FILE ID: | AC19-53 | AC19-54 | AC19-55 | | |
| DATE EXTRACTED: | 03/15/1213:40 | 03/15/1213:40 | 03/15/1213:40 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/16/1200:18 | 03/16/1200:35 | 03/16/1200:51 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | ICC002S | ICC002S | ICC002S | | |
| CALIB. REF: | AC19-51 | AC19-51 | AC19-51 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 6.36 | 106 | 6.00 | 6.36 | 106 | 0 | 90-110 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C106
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC002SB | ND | 1 | NA | 1.50 | 0.750 | 03/16/1200:18 | 03/15/1213:40 | AC19-53 | AC19-51 | ICC002S | NA | 03/15/12 |
| LCS1S | ICC002SL | 27.1 | 1 | NA | 1.50 | 0.750 | 03/16/1200:35 | 03/15/1213:40 | AC19-54 | AC19-51 | ICC002S | NA | 03/15/12 |
| LCD1S | ICC002SC | 27.1 | 1 | NA | 1.50 | 0.750 | 03/16/1200:51 | 03/15/1213:40 | AC19-55 | AC19-51 | ICC002S | NA | 03/15/12 |
| SL-005-NBZ-SB-4.0-5.0 | C106-02 | 1.73 | 1 | 9.6 | 1.66 | 0.830 | 03/16/1201:07 | 03/15/1213:40 | AC19-56 | AC19-51 | ICC002S | 03/13/1210:25 | 03/13/12 |
| SL-006-NBZ-SB-3.0-4.0 | C106-04 | 1.59J | 1 | 6.0 | 1.60 | 0.798 | 03/16/1201:23 | 03/15/1213:40 | AC19-57 | AC19-51 | ICC002S | 03/13/1209:00 | 03/13/12 |
| SL-019-NBZ-SB-3.0-4.0 | C106-08 | 0.872J | 1 | 5.8 | 1.59 | 0.796 | 03/16/1202:12 | 03/15/1213:40 | AC19-60 | AC19-51 | ICC002S | 03/13/1214:40 | 03/13/12 |
| SL-021-NBZ-SB-4.0-5.0 | C106-11 | 0.894J | 1 | 3.9 | 1.56 | 0.780 | 03/16/1202:44 | 03/15/1213:40 | AC19-62 | AC19-51 | ICC002S | 03/13/1215:45 | 03/13/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC002SB | ICC002SL | ICC002SC | | |
| LAB FILE ID: | AC19-53 | AC19-54 | AC19-55 | | |
| DATE EXTRACTED: | 03/15/1213:40 | 03/15/1213:40 | 03/15/1213:40 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/16/1200:18 | 03/16/1200:35 | 03/16/1200:51 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | ICC002S | ICC002S | ICC002S | | |
| CALIB. REF: | AC19-51 | AC19-51 | AC19-51 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 27.1 | 102 | 26.6 | 27.1 | 102 | 0 | 90-110 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C106

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCC004SB | ND | 1 | NA | 20.0 | 10.0 | 03/16/1210:33 | 03/15/1215:45 | JC16002 | JC16001 | PCC004S | NA | 03/15/12 |
| LCS1S | PCC004SL | 248 | 1 | NA | 20.0 | 10.0 | 03/16/1211:15 | 03/15/1215:45 | JC16004 | JC16001 | PCC004S | NA | 03/15/12 |
| LCD1S | PCC004SC | 246 | 1 | NA | 20.0 | 10.0 | 03/16/1211:57 | 03/15/1215:45 | JC16005 | JC16001 | PCC004S | NA | 03/15/12 |
| SL-005-NBZ-SB-4.0-5.0 | C106-02 | ND | 1 | 9.6 | 22.1 | 11.1 | 03/16/1212:18 | 03/15/1215:45 | JC16006 | JC16001 | PCC004S | 03/13/1210:25 | 03/13/12 |
| SL-006-NBZ-SB-3.0-4.0 | C106-04 | ND | 1 | 6.0 | 21.3 | 10.6 | 03/16/1212:39 | 03/15/1215:45 | JC16007 | JC16001 | PCC004S | 03/13/1209:00 | 03/13/12 |
| SL-015-NBZ-SS-0.0-0.5 | C106-05 | ND | 1 | 1.6 | 20.3 | 10.2 | 03/16/1213:00 | 03/15/1215:45 | JC16008 | JC16001 | PCC004S | 03/13/1211:30 | 03/13/12 |
| SL-019-NBZ-SS-0.0-0.5 | C106-06 | ND | 1 | 3.1 | 20.6 | 10.3 | 03/16/1213:21 | 03/15/1215:45 | JC16009 | JC16001 | PCC004S | 03/13/1213:50 | 03/13/12 |
| SL-019-NBZ-SB-3.0-4.0 | C106-08 | ND | 1 | 5.8 | 21.2 | 10.6 | 03/16/1213:42 | 03/15/1215:45 | JC16010 | JC16001 | PCC004S | 03/13/1214:40 | 03/13/12 |
| SL-021-NBZ-SS-0.0-0.5 | C106-09 | ND | 1 | 2.7 | 20.6 | 10.3 | 03/16/1214:48 | 03/15/1215:45 | JC16013 | JC16012 | PCC004S | 03/13/1215:30 | 03/13/12 |
| SL-021-NBZ-SB-4.0-5.0 | C106-11 | ND | 1 | 3.9 | 20.8 | 10.4 | 03/16/1215:09 | 03/15/1215:45 | JC16014 | JC16012 | PCC004S | 03/13/1215:45 | 03/13/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCC004SB | PCC004SL | PCC004SC | | |
| LAB FILE ID: | JC16002 | JC16004 | JC16005 | | |
| DATE EXTRACTED: | 03/15/1215:45 | 03/15/1215:45 | 03/15/1215:45 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/16/1210:33 | 03/16/1211:15 | 03/16/1211:57 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | PCC004S | PCC004S | PCC004S | | |
| CALIB. REF: | JC16001 | JC16001 | JC16001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 248 | 99 | 250 | 246 | 98 | 1 | 85-115 | 15 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C106
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCC002SB | ND | 1 | NA | 1.00 | 0.500 | 03/16/1214:37 | 03/15/1216:50 | IC16015 | IC16013 | HCC002S | NA | 03/15/12 |
| MBLK1S | HCC002SQ | ND | 1 | NA | 1.00 | 0.500 | 03/16/1214:48 | 03/15/1216:50 | IC16016 | IC16013 | HCC002S | NA | 03/15/12 |
| LCS1S | CSC002SL | 8.18 | 1 | NA | 1.00 | 0.500 | 03/16/1215:20 | 03/15/1216:50 | IC16017 | IC16013 | HCC002S | NA | 03/15/12 |
| LCS1S | CSC002SX | 8.35 | 1 | NA | 1.00 | 0.500 | 03/16/1215:30 | 03/15/1216:50 | IC16018 | IC16013 | HCC002S | NA | 03/15/12 |
| LCS2S | CIC002SL | 451 | 20 | NA | 20.0 | 10.0 | 03/16/1215:40 | 03/15/1216:50 | IC16019 | IC16013 | HCC002S | NA | 03/15/12 |
| LCS2S | CIC002SX | 477 | 20 | NA | 20.0 | 10.0 | 03/16/1215:51 | 03/15/1216:50 | IC16020 | IC16013 | HCC002S | NA | 03/15/12 |
| SL-005-NBZ-SB-4.0-5.0 | C106-02 | ND | 1 | 9.6 | 1.11 | 0.553 | 03/16/1216:01 | 03/15/1216:50 | IC16021 | IC16013 | HCC002S | 03/13/1210:25 | 03/13/12 |
| SL-005-NBZ-SB-4.0-5.0 | C106-02R | ND | 1 | 9.6 | 1.11 | 0.553 | 03/16/1216:12 | 03/15/1216:50 | IC16022 | IC16013 | HCC002S | 03/13/1210:25 | 03/13/12 |
| SL-006-NBZ-SB-3.0-4.0 | C106-04 | ND | 1 | 6.0 | 1.06 | 0.532 | 03/16/1216:22 | 03/15/1216:50 | IC16023 | IC16013 | HCC002S | 03/13/1209:00 | 03/13/12 |
| SL-006-NBZ-SB-3.0-4.0 | C106-04R | ND | 1 | 6.0 | 1.06 | 0.532 | 03/16/1216:32 | 03/15/1216:50 | IC16024 | IC16013 | HCC002S | 03/13/1209:00 | 03/13/12 |
| SL-015-NBZ-SS-0.0-0.5 | C106-05 | ND | 1 | 1.6 | 1.02 | 0.508 | 03/16/1218:22 | 03/15/1216:50 | IC16027 | IC16025 | HCC002S | 03/13/1211:30 | 03/13/12 |
| SL-015-NBZ-SS-0.0-0.5 | C106-05R | ND | 1 | 1.6 | 1.02 | 0.508 | 03/16/1218:32 | 03/15/1216:50 | IC16028 | IC16025 | HCC002S | 03/13/1211:30 | 03/13/12 |
| SL-019-NBZ-SS-0.0-0.5 | C106-06 | ND | 1 | 3.1 | 1.03 | 0.516 | 03/16/1218:43 | 03/15/1216:50 | IC16029 | IC16025 | HCC002S | 03/13/1213:50 | 03/13/12 |
| SL-019-NBZ-SS-0.0-0.5 | C106-06R | ND | 1 | 3.1 | 1.03 | 0.516 | 03/16/1218:53 | 03/15/1216:50 | IC16030 | IC16025 | HCC002S | 03/13/1213:50 | 03/13/12 |
| SL-019-NBZ-SB-3.0-4.0 | C106-08 | ND | 1 | 5.8 | 1.06 | 0.531 | 03/16/1219:04 | 03/15/1216:50 | IC16031 | IC16025 | HCC002S | 03/13/1214:40 | 03/13/12 |
| SL-019-NBZ-SB-3.0-4.0 | C106-08R | ND | 1 | 5.8 | 1.06 | 0.531 | 03/16/1219:14 | 03/15/1216:50 | IC16032 | IC16025 | HCC002S | 03/13/1214:40 | 03/13/12 |
| SL-021-NBZ-SS-0.0-0.5 | C106-09 | ND | 1 | 2.7 | 1.03 | 0.514 | 03/16/1219:24 | 03/15/1216:50 | IC16033 | IC16025 | HCC002S | 03/13/1215:30 | 03/13/12 |
| SL-021-NBZ-SS-0.0-0.5 | C106-09R | ND | 1 | 2.7 | 1.03 | 0.514 | 03/16/1219:35 | 03/15/1216:50 | IC16034 | IC16025 | HCC002S | 03/13/1215:30 | 03/13/12 |
| SL-021-NBZ-SB-4.0-5.0 | C106-11 | ND | 1 | 3.9 | 1.04 | 0.520 | 03/16/1219:45 | 03/15/1216:50 | IC16035 | IC16025 | HCC002S | 03/13/1215:45 | 03/13/12 |
| SL-021-NBZ-SB-4.0-5.0 | C106-11R | ND | 1 | 3.9 | 1.04 | 0.520 | 03/16/1219:56 | 03/15/1216:50 | IC16036 | IC16025 | HCC002S | 03/13/1215:45 | 03/13/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCC002SQ CIC002SX
LAB FILE ID: IC16016 IC16020
DATE EXTRACTED: 03/15/1216:50 03/15/1216:50 DATE COLLECTED: NA
DATE ANALYZED: 03/16/1214:48 03/16/1215:51 DATE RECEIVED: 03/15/12
PREP. BATCH: HCC002S HCC002S
CALIB. REF: IC16013 IC16013

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 532 | 477 | 90 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCC002SB CIC002SL
LAB FILE ID: IC16015 IC16019
DATE EXTRACTED: 03/15/1216:50 03/15/1216:50 DATE COLLECTED: NA
DATE ANALYZED: 03/16/1214:37 03/16/1215:40 DATE RECEIVED: 03/15/12
PREP. BATCH: HCC002S HCC002S
CALIB. REF: IC16013 IC16013

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 532 | 451 | 85 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCC002SQ | CSC002SX | | |
| LAB FILE ID: | IC16016 | IC16018 | | |
| DATE EXTRACTED: | 03/15/1216:50 | 03/15/1216:50 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/16/1214:48 | 03/16/1215:30 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | HCC002S | HCC002S | | |
| CALIB. REF: | IC16013 | IC16013 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 8.35 | 83 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCC002SB | CSC002SL | | |
| LAB FILE ID: | IC16015 | IC16017 | | |
| DATE EXTRACTED: | 03/15/1216:50 | 03/15/1216:50 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/16/1214:37 | 03/16/1215:20 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | HCC002S | HCC002S | | |
| CALIB. REF: | IC16013 | IC16013 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 8.18 | 82 | 80-120 |

METHOD 6850
PERCHLORATE BY LC/MS

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C106
Matrix : SOIL
Instrument ID : G0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PLC002SB | ND | 1 | NA | 5.00 | 2.50 | 03/19/1216:58 | 03/19/1215:19 | NC19006 | NC19005 | PLC002S | NA | 03/19/12 |
| LCS1S | PLC002SL | 23.9 | 1 | NA | 5.00 | 2.50 | 03/19/1217:12 | 03/19/1215:19 | NC19007 | NC19005 | PLC002S | NA | 03/19/12 |
| LCD1S | PLC002SC | 23.8 | 1 | NA | 5.00 | 2.50 | 03/19/1217:26 | 03/19/1215:19 | NC19008 | NC19005 | PLC002S | NA | 03/19/12 |
| SL-015-NBZ-SS-0.0-0.5 | C106-05 | ND | 1 | 1.6 | 5.08 | 2.54 | 03/19/1218:23 | 03/19/1215:19 | NC19012 | NC19005 | PLC002S | 03/13/1211:30 | 03/13/12 |
| SL-019-NBZ-SS-0.0-0.5 | C106-06 | ND | 1 | 3.1 | 5.16 | 2.58 | 03/19/1218:37 | 03/19/1215:19 | NC19013 | NC19005 | PLC002S | 03/13/1213:50 | 03/13/12 |
| SL-021-NBZ-SS-0.0-0.5 | C106-09 | ND | 1 | 2.7 | 5.14 | 2.57 | 03/19/1218:51 | 03/19/1215:19 | NC19014 | NC19005 | PLC002S | 03/13/1215:30 | 03/13/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C106
METHOD: METHOD 6850

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PLC002SB | PLC002SL | PLC002SC | | |
| LAB FILE ID: | NC19006 | NC19007 | NC19008 | | |
| DATE EXTRACTED: | 03/19/1215:19 | 03/19/1215:19 | 03/19/1215:19 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/19/1216:58 | 03/19/1217:12 | 03/19/1217:26 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | PLC002S | PLC002S | PLC002S | | |
| CALIB. REF: | NC19005 | NC19005 | NC19005 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 25.0 | 23.9 | 96 | 25.0 | 23.8 | 95 | 1 | 85-115 | 15 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C106

Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-005-NBZ-SB-4.0-5.0 | C106-02 | 6.88 | 1 | 9.6 | NA | NA | 03/14/1217:02 | 03/14/1217:02 | 12PHC006S01 | PHC006S | PHC006S | 03/13/1210:25 | 03/13/12 |
| SL-005-NBZ-SB-4.0-5.0DUP | C106-02D | 6.89 | 1 | 9.6 | NA | NA | 03/14/1217:03 | 03/14/1217:02 | 12PHC006S02 | PHC006S | PHC006S | 03/13/1210:25 | 03/13/12 |
| SL-006-NBZ-SB-3.0-4.0 | C106-04 | 6.71 | 1 | 6.0 | NA | NA | 03/14/1217:06 | 03/14/1217:02 | 12PHC006S03 | PHC006S | PHC006S | 03/13/1209:00 | 03/13/12 |
| SL-015-NBZ-SS-0.0-0.5 | C106-05 | 7.33 | 1 | 1.6 | NA | NA | 03/14/1217:08 | 03/14/1217:02 | 12PHC006S04 | PHC006S | PHC006S | 03/13/1211:30 | 03/13/12 |
| SL-019-NBZ-SS-0.0-0.5 | C106-06 | 7.26 | 1 | 3.1 | NA | NA | 03/14/1217:10 | 03/14/1217:02 | 12PHC006S05 | PHC006S | PHC006S | 03/13/1213:50 | 03/13/12 |
| SL-019-NBZ-SB-3.0-4.0 | C106-08 | 8.67 | 1 | 5.8 | NA | NA | 03/14/1217:11 | 03/14/1217:02 | 12PHC006S06 | PHC006S | PHC006S | 03/13/1214:40 | 03/13/12 |
| SL-021-NBZ-SS-0.0-0.5 | C106-09 | 6.99 | 1 | 2.7 | NA | NA | 03/14/1217:12 | 03/14/1217:02 | 12PHC006S07 | PHC006S | PHC006S | 03/13/1215:30 | 03/13/12 |
| SL-021-NBZ-SB-4.0-5.0 | C106-11 | 6.71 | 1 | 3.9 | NA | NA | 03/14/1217:14 | 03/14/1217:02 | 12PHC006S08 | PHC006S | PHC006S | 03/13/1215:45 | 03/13/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C106 DATE RECEIVED: 03/13/12
SAMPLE ID: SL-005-NBZ-SB-4.0-5.0DUP DATE EXTRACTED: 03/14/12 17:02
CONTROL NO.: C106-02D DATE ANALYZED: 03/14/12 17:02

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | QC LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 6.88 | 6.89 | 0.01 | +/-0.10 |

# SAMPLE DELIVERY GROUP

# 12C121

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 12:42 |
| Sample ID: SL-022-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 00:46 |
| Lab Samp ID: C121-01 | Dilution Factor: 1 |
| Lab File ID: RCJ258 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 4.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 88 |
| 1,2-DICHLOROBENZENE | ND | 170 | 88 |
| 1,3-DICHLOROBENZENE | ND | 170 | 88 |
| 1,4-DICHLOROBENZENE | ND | 170 | 88 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 88 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 88 |
| 2,4-DICHLOROPHENOL | ND | 170 | 88 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 88 |
| 2,4-DINITROPHENOL | ND | 350 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 88 |
| 2,6-DINITROTOLUENE | ND | 170 | 88 |
| 2-CHLORONAPHTHALENE | ND | 170 | 88 |
| 2-CHLOROPHENOL | ND | 170 | 88 |
| 2-METHYLNAPHTHALENE | ND | 170 | 88 |
| 2-METHYLPHENOL | ND | 170 | 88 |
| 2-NITROANILINE | ND | 170 | 88 |
| 2-NITROPHENOL | ND | 170 | 88 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 88 |
| 3-NITROANILINE | ND | 170 | 88 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 88 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 88 |
| 4-CHLOROANILINE | ND | 170 | 88 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 88 |
| 4-METHYLPHENOL (1) | ND | 170 | 88 |
| 4-NITROANILINE | ND | 170 | 88 |
| 4-NITROPHENOL | ND | 350 | 170 |
| ACENAPHTHENE | ND | 170 | 88 |
| ACENAPHTHYLENE | ND | 170 | 88 |
| ANTHRACENE | ND | 170 | 88 |
| BENZO(A)ANTHRACENE | ND | 170 | 88 |
| BENZO(A)PYRENE | ND | 170 | 88 |
| BENZO(B)FLUORANTHENE | ND | 170 | 88 |
| BENZO(K)FLUORANTHENE | ND | 170 | 88 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 88 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 88 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 88 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 88 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 88 |
| CHRYSENE | ND | 170 | 88 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 88 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 88 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 88 |
| DIBENZOFURAN | ND | 170 | 88 |
| DIETHYLPHTHALATE | ND | 170 | 88 |
| DIMETHYLPHTHALATE | ND | 170 | 88 |
| FLUORANTHENE | ND | 170 | 88 |
| FLUORENE | ND | 170 | 88 |
| HEXACHLOROBENZENE | ND | 170 | 88 |
| HEXACHLOROBUTADIENE | ND | 170 | 88 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 88 |
| HEXACHLOROETHANE | ND | 170 | 88 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 88 |
| ISOPHORONE | ND | 170 | 88 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 88 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 88 |
| NAPHTHALENE | ND | 170 | 88 |
| NITROBENZENE | ND | 170 | 88 |
| PENTACHLOROPHENOL | ND | 350 | 170 |
| PHENANTHRENE | ND | 170 | 88 |
| PHENOL | ND | 170 | 88 |
| PYRENE | ND | 170 | 88 |
| BENZYL ALCOHOL | ND | 170 | 88 |
| 1-METHYLNAPHTHALENE | ND | 170 | 88 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 88 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 88 |
| ANILINE | ND | 350 | 170 |
| BENZIDINE | ND | 870 | 440 |
| BENZOIC ACID | ND | 700 | 350 |
| CARBAZOLE | ND | 170 | 88 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 88 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 641 | 1046 | 61.3 | 35-130 |
| 2-FLUOROBIPHENYL | 192 | 348.6 | 55.0 | 45-130 |
| 2-FLUOROPHENOL | 492 | 1046 | 47.0 | 25-130 |
| NITROBENZENE-D5 | 170 | 348.6 | 48.8 | 40-130 |
| PHENOL-D5 | 515 | 1046 | 49.3 | 25-120 |
| TERPHENYL-D14 | 234 | 348.6 | 67.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 12:42 |
| Sample ID: SL-023-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 01:05 |
| Lab Samp ID: C121-02 | Dilution Factor: 1 |
| Lab File ID: RCJ259 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 3.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 87 |
| 1,2-DICHLOROBENZENE | ND | 170 | 87 |
| 1,3-DICHLOROBENZENE | ND | 170 | 87 |
| 1,4-DICHLOROBENZENE | ND | 170 | 87 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 87 |
| 2,4-DINITROPHENOL | ND | 340 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 87 |
| 2,6-DINITROTOLUENE | ND | 170 | 87 |
| 2-CHLORONAPHTHALENE | ND | 170 | 87 |
| 2-CHLOROPHENOL | ND | 170 | 87 |
| 2-METHYLNAPHTHALENE | ND | 170 | 87 |
| 2-METHYLPHENOL | ND | 170 | 87 |
| 2-NITROANILINE | ND | 170 | 87 |
| 2-NITROPHENOL | ND | 170 | 87 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 87 |
| 3-NITROANILINE | ND | 170 | 87 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 340 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 87 |
| 4-CHLOROANILINE | ND | 170 | 87 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-METHYLPHENOL (1) | ND | 170 | 87 |
| 4-NITROANILINE | ND | 170 | 87 |
| 4-NITROPHENOL | ND | 340 | 170 |
| ACENAPHTHENE | ND | 170 | 87 |
| ACENAPHTHYLENE | ND | 170 | 87 |
| ANTHRACENE | ND | 170 | 87 |
| BENZO(A)ANTHRACENE | ND | 170 | 87 |
| BENZO(A)PYRENE | ND | 170 | 87 |
| BENZO(B)FLUORANTHENE | ND | 170 | 87 |
| BENZO(K)FLUORANTHENE | ND | 170 | 87 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 87 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 87 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 87 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 87 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 87 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 87 |
| CHRYSENE | ND | 170 | 87 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 87 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 87 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 87 |
| DIBENZOFURAN | ND | 170 | 87 |
| DIETHYLPHTHALATE | ND | 170 | 87 |
| DIMETHYLPHTHALATE | ND | 170 | 87 |
| FLUORANTHENE | ND | 170 | 87 |
| FLUORENE | ND | 170 | 87 |
| HEXACHLOROBENZENE | ND | 170 | 87 |
| HEXACHLOROBUTADIENE | ND | 170 | 87 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 87 |
| HEXACHLOROETHANE | ND | 170 | 87 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 87 |
| ISOPHORONE | ND | 170 | 87 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 87 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 87 |
| NAPHTHALENE | ND | 170 | 87 |
| NITROBENZENE | ND | 170 | 87 |
| PENTACHLOROPHENOL | ND | 340 | 170 |
| PHENANTHRENE | ND | 170 | 87 |
| PHENOL | ND | 170 | 87 |
| PYRENE | ND | 170 | 87 |
| BENZYL ALCOHOL | ND | 170 | 87 |
| 1-METHYLNAPHTHALENE | ND | 170 | 87 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 87 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 87 |
| ANILINE | ND | 340 | 170 |
| BENZIDINE | ND | 860 | 430 |
| BENZOIC ACID | ND | 690 | 350 |
| CARBAZOLE | ND | 170 | 87 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 87 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 859 | 1034 | 83.1 | 35-130 |
| 2-FLUOROBIPHENYL | 263 | 344.7 | 76.4 | 45-130 |
| 2-FLUOROPHENOL | 700 | 1034 | 67.7 | 25-130 |
| NITROBENZENE-D5 | 230 | 344.7 | 66.6 | 40-130 |
| PHENOL-D5 | 709 | 1034 | 68.6 | 25-120 |
| TERPHENYL-D14 | 313 | 344.7 | 90.8 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 12:42 |
| Sample ID: SL-024-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 01:24 |
| Lab Samp ID: C121-03 | Dilution Factor: 1 |
| Lab File ID: RCJ260 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 3.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 87 |
| 1,2-DICHLOROBENZENE | ND | 170 | 87 |
| 1,3-DICHLOROBENZENE | ND | 170 | 87 |
| 1,4-DICHLOROBENZENE | ND | 170 | 87 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 87 |
| 2,4-DINITROPHENOL | ND | 340 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 87 |
| 2,6-DINITROTOLUENE | ND | 170 | 87 |
| 2-CHLORONAPHTHALENE | ND | 170 | 87 |
| 2-CHLOROPHENOL | ND | 170 | 87 |
| 2-METHYLNAPHTHALENE | ND | 170 | 87 |
| 2-METHYLPHENOL | ND | 170 | 87 |
| 2-NITROANILINE | ND | 170 | 87 |
| 2-NITROPHENOL | ND | 170 | 87 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 87 |
| 3-NITROANILINE | ND | 170 | 87 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 340 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 87 |
| 4-CHLOROANILINE | ND | 170 | 87 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-METHYLPHENOL (1) | ND | 170 | 87 |
| 4-NITROANILINE | ND | 170 | 87 |
| 4-NITROPHENOL | ND | 340 | 170 |
| ACENAPHTHENE | ND | 170 | 87 |
| ACENAPHTHYLENE | ND | 170 | 87 |
| ANTHRACENE | ND | 170 | 87 |
| BENZO(A)ANTHRACENE | ND | 170 | 87 |
| BENZO(A)PYRENE | ND | 170 | 87 |
| BENZO(B)FLUORANTHENE | ND | 170 | 87 |
| BENZO(K)FLUORANTHENE | ND | 170 | 87 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 87 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 87 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 87 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 87 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 87 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 87 |
| CHRYSENE | ND | 170 | 87 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 87 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 87 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 87 |
| DIBENZOFURAN | ND | 170 | 87 |
| DIETHYLPHTHALATE | ND | 170 | 87 |
| DIMETHYLPHTHALATE | ND | 170 | 87 |
| FLUORANTHENE | ND | 170 | 87 |
| FLUORENE | ND | 170 | 87 |
| HEXACHLOROBENZENE | ND | 170 | 87 |
| HEXACHLOROBUTADIENE | ND | 170 | 87 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 87 |
| HEXACHLOROETHANE | ND | 170 | 87 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 87 |
| ISOPHORONE | ND | 170 | 87 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 87 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 87 |
| NAPHTHALENE | ND | 170 | 87 |
| NITROBENZENE | ND | 170 | 87 |
| PENTACHLOROPHENOL | ND | 340 | 170 |
| PHENANTHRENE | ND | 170 | 87 |
| PHENOL | ND | 170 | 87 |
| PYRENE | ND | 170 | 87 |
| BENZYL ALCOHOL | ND | 170 | 87 |
| 1-METHYLNAPHTHALENE | ND | 170 | 87 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 87 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 87 |
| ANILINE | ND | 340 | 170 |
| BENZIDINE | ND | 860 | 430 |
| BENZOIC ACID | ND | 690 | 350 |
| CARBAZOLE | ND | 170 | 87 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 87 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 827 | 1033 | 80.1 | 35-130 |
| 2-FLUOROBIPHENYL | 246 | 344.3 | 71.3 | 45-130 |
| 2-FLUOROPHENOL | 678 | 1033 | 65.6 | 25-130 |
| NITROBENZENE-D5 | 224 | 344.3 | 64.9 | 40-130 |
| PHENOL-D5 | 673 | 1033 | 65.1 | 25-120 |
| TERPHENYL-D14 | 283 | 344.3 | 82.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 12:42 |
| Sample ID: SL-030-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 01:42 |
| Lab Samp ID: C121-04 | Dilution Factor: 1 |
| Lab File ID: RCJ261 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 2.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 86 |
| 1,2-DICHLOROBENZENE | ND | 170 | 86 |
| 1,3-DICHLOROBENZENE | ND | 170 | 86 |
| 1,4-DICHLOROBENZENE | ND | 170 | 86 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 86 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 86 |
| 2,4-DICHLOROPHENOL | ND | 170 | 86 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 86 |
| 2,4-DINITROPHENOL | ND | 340 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 86 |
| 2,6-DINITROTOLUENE | ND | 170 | 86 |
| 2-CHLORONAPHTHALENE | ND | 170 | 86 |
| 2-CHLOROPHENOL | ND | 170 | 86 |
| 2-METHYLNAPHTHALENE | ND | 170 | 86 |
| 2-METHYLPHENOL | ND | 170 | 86 |
| 2-NITROANILINE | ND | 170 | 86 |
| 2-NITROPHENOL | ND | 170 | 86 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 86 |
| 3-NITROANILINE | ND | 170 | 86 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 340 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 86 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 86 |
| 4-CHLOROANILINE | ND | 170 | 86 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 86 |
| 4-METHYLPHENOL (1) | ND | 170 | 86 |
| 4-NITROANILINE | ND | 170 | 86 |
| 4-NITROPHENOL | ND | 340 | 170 |
| ACENAPHTHENE | ND | 170 | 86 |
| ACENAPHTHYLENE | ND | 170 | 86 |
| ANTHRACENE | ND | 170 | 86 |
| BENZO(A)ANTHRACENE | ND | 170 | 86 |
| BENZO(A)PYRENE | ND | 170 | 86 |
| BENZO(B)FLUORANTHENE | ND | 170 | 86 |
| BENZO(K)FLUORANTHENE | ND | 170 | 86 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 86 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 86 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 86 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 86 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 86 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 86 |
| CHRYSENE | ND | 170 | 86 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 86 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 86 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 86 |
| DIBENZOFURAN | ND | 170 | 86 |
| DIETHYLPHTHALATE | ND | 170 | 86 |
| DIMETHYLPHTHALATE | ND | 170 | 86 |
| FLUORANTHENE | ND | 170 | 86 |
| FLUORENE | ND | 170 | 86 |
| HEXACHLOROBENZENE | ND | 170 | 86 |
| HEXACHLOROBUTADIENE | ND | 170 | 86 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 86 |
| HEXACHLOROETHANE | ND | 170 | 86 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 86 |
| ISOPHORONE | ND | 170 | 86 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 86 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 86 |
| NAPHTHALENE | ND | 170 | 86 |
| NITROBENZENE | ND | 170 | 86 |
| PENTACHLOROPHENOL | ND | 340 | 170 |
| PHENANTHRENE | ND | 170 | 86 |
| PHENOL | ND | 170 | 86 |
| PYRENE | ND | 170 | 86 |
| BENZYL ALCOHOL | ND | 170 | 86 |
| 1-METHYLNAPHTHALENE | ND | 170 | 86 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 86 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 86 |
| ANILINE | ND | 340 | 170 |
| BENZIDINE | ND | 850 | 430 |
| BENZOIC ACID | ND | 680 | 340 |
| CARBAZOLE | ND | 170 | 86 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 86 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 841 | 1021 | 82.3 | 35-130 |
| 2-FLUOROBIPHENYL | 242 | 340.4 | 71.2 | 45-130 |
| 2-FLUOROPHENOL | 640 | 1021 | 62.6 | 25-130 |
| NITROBENZENE-D5 | 222 | 340.4 | 65.3 | 40-130 |
| PHENOL-D5 | 679 | 1021 | 66.5 | 25-120 |
| TERPHENYL-D14 | 302 | 340.4 | 88.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 12:42 |
| Sample ID: SL-022-NBZ-SB-4.0-5.0 | Date Analyzed: 03/21/12 02:01 |
| Lab Samp ID: C121-06 | Dilution Factor: 1 |
| Lab File ID: RCJ262 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 3.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 87 |
| 1,2-DICHLOROBENZENE | ND | 170 | 87 |
| 1,3-DICHLOROBENZENE | ND | 170 | 87 |
| 1,4-DICHLOROBENZENE | ND | 170 | 87 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 87 |
| 2,4-DINITROPHENOL | ND | 350 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 87 |
| 2,6-DINITROTOLUENE | ND | 170 | 87 |
| 2-CHLORONAPHTHALENE | ND | 170 | 87 |
| 2-CHLOROPHENOL | ND | 170 | 87 |
| 2-METHYLNAPHTHALENE | ND | 170 | 87 |
| 2-METHYLPHENOL | ND | 170 | 87 |
| 2-NITROANILINE | ND | 170 | 87 |
| 2-NITROPHENOL | ND | 170 | 87 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 87 |
| 3-NITROANILINE | ND | 170 | 87 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 87 |
| 4-CHLOROANILINE | ND | 170 | 87 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-METHYLPHENOL (1) | ND | 170 | 87 |
| 4-NITROANILINE | ND | 170 | 87 |
| 4-NITROPHENOL | ND | 350 | 170 |
| ACENAPHTHENE | ND | 170 | 87 |
| ACENAPHTHYLENE | ND | 170 | 87 |
| ANTHRACENE | ND | 170 | 87 |
| BENZO(A)ANTHRACENE | ND | 170 | 87 |
| BENZO(A)PYRENE | ND | 170 | 87 |
| BENZO(B)FLUORANTHENE | ND | 170 | 87 |
| BENZO(K)FLUORANTHENE | ND | 170 | 87 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 87 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 87 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 87 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 87 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 87 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 87 |
| CHRYSENE | ND | 170 | 87 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 87 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 87 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 87 |
| DIBENZOFURAN | ND | 170 | 87 |
| DIETHYLPHTHALATE | ND | 170 | 87 |
| DIMETHYLPHTHALATE | ND | 170 | 87 |
| FLUORANTHENE | ND | 170 | 87 |
| FLUORENE | ND | 170 | 87 |
| HEXACHLOROBENZENE | ND | 170 | 87 |
| HEXACHLOROBUTADIENE | ND | 170 | 87 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 87 |
| HEXACHLOROETHANE | ND | 170 | 87 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 87 |
| ISOPHORONE | ND | 170 | 87 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 87 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 87 |
| NAPHTHALENE | ND | 170 | 87 |
| NITROBENZENE | ND | 170 | 87 |
| PENTACHLOROPHENOL | ND | 350 | 170 |
| PHENANTHRENE | ND | 170 | 87 |
| PHENOL | ND | 170 | 87 |
| PYRENE | ND | 170 | 87 |
| BENZYL ALCOHOL | ND | 170 | 87 |
| 1-METHYLNAPHTHALENE | ND | 170 | 87 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 87 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 87 |
| ANILINE | ND | 350 | 170 |
| BENZIDINE | ND | 860 | 440 |
| BENZOIC ACID | ND | 690 | 350 |
| CARBAZOLE | ND | 170 | 87 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 87 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 752 | 1040 | 72.3 | 35-130 |
| 2-FLUOROBIPHENYL | 232 | 346.5 | 67.0 | 45-130 |
| 2-FLUOROPHENOL | 637 | 1040 | 61.3 | 25-130 |
| NITROBENZENE-D5 | 212 | 346.5 | 61.3 | 40-130 |
| PHENOL-D5 | 659 | 1040 | 63.4 | 25-120 |
| TERPHENYL-D14 | 282 | 346.5 | 81.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 12:42 |
| Sample ID: SL-022-NBZ-SB-9.0-10.0 | Date Analyzed: 03/21/12 02:20 |
| Lab Samp ID: C121-08 | Dilution Factor: 1 |
| Lab File ID: RCJ263 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 4.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 88 |
| 1,2-DICHLOROBENZENE | ND | 180 | 88 |
| 1,3-DICHLOROBENZENE | ND | 180 | 88 |
| 1,4-DICHLOROBENZENE | ND | 180 | 88 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 88 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 88 |
| 2,4-DICHLOROPHENOL | ND | 180 | 88 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 88 |
| 2,4-DINITROPHENOL | ND | 350 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 88 |
| 2,6-DINITROTOLUENE | ND | 180 | 88 |
| 2-CHLORONAPHTHALENE | ND | 180 | 88 |
| 2-CHLOROPHENOL | ND | 180 | 88 |
| 2-METHYLNAPHTHALENE | ND | 180 | 88 |
| 2-METHYLPHENOL | ND | 180 | 88 |
| 2-NITROANILINE | ND | 180 | 88 |
| 2-NITROPHENOL | ND | 180 | 88 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 88 |
| 3-NITROANILINE | ND | 180 | 88 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 88 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 88 |
| 4-CHLOROANILINE | ND | 180 | 88 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 88 |
| 4-METHYLPHENOL (1) | ND | 180 | 88 |
| 4-NITROANILINE | ND | 180 | 88 |
| 4-NITROPHENOL | ND | 350 | 180 |
| ACENAPHTHENE | ND | 180 | 88 |
| ACENAPHTHYLENE | ND | 180 | 88 |
| ANTHRACENE | ND | 180 | 88 |
| BENZO(A)ANTHRACENE | ND | 180 | 88 |
| BENZO(A)PYRENE | ND | 180 | 88 |
| BENZO(B)FLUORANTHENE | ND | 180 | 88 |
| BENZO(K)FLUORANTHENE | ND | 180 | 88 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 88 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 88 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 88 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 88 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 88 |
| CHRYSENE | ND | 180 | 88 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 88 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 88 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 88 |
| DIBENZOFURAN | ND | 180 | 88 |
| DIETHYLPHTHALATE | ND | 180 | 88 |
| DIMETHYLPHTHALATE | ND | 180 | 88 |
| FLUORANTHENE | ND | 180 | 88 |
| FLUORENE | ND | 180 | 88 |
| HEXACHLOROBENZENE | ND | 180 | 88 |
| HEXACHLOROBUTADIENE | ND | 180 | 88 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 88 |
| HEXACHLOROETHANE | ND | 180 | 88 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 88 |
| ISOPHORONE | ND | 180 | 88 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 88 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 88 |
| NAPHTHALENE | ND | 180 | 88 |
| NITROBENZENE | ND | 180 | 88 |
| PENTACHLOROPHENOL | ND | 350 | 180 |
| PHENANTHRENE | ND | 180 | 88 |
| PHENOL | ND | 180 | 88 |
| PYRENE | ND | 180 | 88 |
| BENZYL ALCOHOL | ND | 180 | 88 |
| 1-METHYLNAPHTHALENE | ND | 180 | 88 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 88 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 88 |
| ANILINE | ND | 350 | 180 |
| BENZIDINE | ND | 870 | 440 |
| BENZOIC ACID | ND | 700 | 350 |
| CARBAZOLE | ND | 180 | 88 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 88 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 847 | 1048 | 80.8 | 35-130 |
| 2-FLUOROBIPHENYL | 257 | 349.4 | 73.4 | 45-130 |
| 2-FLUOROPHENOL | 727 | 1048 | 69.4 | 25-130 |
| NITROBENZENE-D5 | 240 | 349.4 | 68.8 | 40-130 |
| PHENOL-D5 | 724 | 1048 | 69.1 | 25-120 |
| TERPHENYL-D14 | 321 | 349.4 | 91.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 12:42 |
| Sample ID: SL-023-NBZ-SB-4.0-5.0 | Date Analyzed: 03/21/12 02:39 |
| Lab Samp ID: C121-10 | Dilution Factor: 1 |
| Lab File ID: RCJ264 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 3.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 87 |
| 1,2-DICHLOROBENZENE | ND | 170 | 87 |
| 1,3-DICHLOROBENZENE | ND | 170 | 87 |
| 1,4-DICHLOROBENZENE | ND | 170 | 87 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 87 |
| 2,4-DINITROPHENOL | ND | 340 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 87 |
| 2,6-DINITROTOLUENE | ND | 170 | 87 |
| 2-CHLORONAPHTHALENE | ND | 170 | 87 |
| 2-CHLOROPHENOL | ND | 170 | 87 |
| 2-METHYLNAPHTHALENE | ND | 170 | 87 |
| 2-METHYLPHENOL | ND | 170 | 87 |
| 2-NITROANILINE | ND | 170 | 87 |
| 2-NITROPHENOL | ND | 170 | 87 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 87 |
| 3-NITROANILINE | ND | 170 | 87 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 340 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 87 |
| 4-CHLOROANILINE | ND | 170 | 87 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-METHYLPHENOL (1) | ND | 170 | 87 |
| 4-NITROANILINE | ND | 170 | 87 |
| 4-NITROPHENOL | ND | 340 | 170 |
| ACENAPHTHENE | ND | 170 | 87 |
| ACENAPHTHYLENE | ND | 170 | 87 |
| ANTHRACENE | ND | 170 | 87 |
| BENZO(A)ANTHRACENE | ND | 170 | 87 |
| BENZO(A)PYRENE | ND | 170 | 87 |
| BENZO(B)FLUORANTHENE | ND | 170 | 87 |
| BENZO(K)FLUORANTHENE | ND | 170 | 87 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 87 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 87 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 87 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 87 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 87 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 87 |
| CHRYSENE | ND | 170 | 87 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 87 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 87 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 87 |
| DIBENZOFURAN | ND | 170 | 87 |
| DIETHYLPHTHALATE | ND | 170 | 87 |
| DIMETHYLPHTHALATE | ND | 170 | 87 |
| FLUORANTHENE | ND | 170 | 87 |
| FLUORENE | ND | 170 | 87 |
| HEXACHLOROBENZENE | ND | 170 | 87 |
| HEXACHLOROBUTADIENE | ND | 170 | 87 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 87 |
| HEXACHLOROETHANE | ND | 170 | 87 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 87 |
| ISOPHORONE | ND | 170 | 87 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 87 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 87 |
| NAPHTHALENE | ND | 170 | 87 |
| NITROBENZENE | ND | 170 | 87 |
| PENTACHLOROPHENOL | ND | 340 | 170 |
| PHENANTHRENE | ND | 170 | 87 |
| PHENOL | ND | 170 | 87 |
| PYRENE | ND | 170 | 87 |
| BENZYL ALCOHOL | ND | 170 | 87 |
| 1-METHYLNAPHTHALENE | ND | 170 | 87 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 87 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 87 |
| ANILINE | ND | 340 | 170 |
| BENZIDINE | ND | 860 | 430 |
| BENZOIC ACID | ND | 690 | 350 |
| CARBAZOLE | ND | 170 | 87 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 87 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 660 | 1034 | 63.8 | 35-130 |
| 2-FLUOROBIPHENYL | 209 | 344.7 | 60.8 | 45-130 |
| 2-FLUOROPHENOL | 608 | 1034 | 58.8 | 25-130 |
| NITROBENZENE-D5 | 190 | 344.7 | 55.1 | 40-130 |
| PHENOL-D5 | 641 | 1034 | 61.9 | 25-120 |
| TERPHENYL-D14 | 249 | 344.7 | 72.4 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 12:42 |
| Sample ID: SL-023-NBZ-SB-8.5-9.5 | Date Analyzed: 03/21/12 02:58 |
| Lab Samp ID: C121-12 | Dilution Factor: 1 |
| Lab File ID: RCJ265 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 5.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 89 |
| 1,2-DICHLOROBENZENE | ND | 180 | 89 |
| 1,3-DICHLOROBENZENE | ND | 180 | 89 |
| 1,4-DICHLOROBENZENE | ND | 180 | 89 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 89 |
| 2,4-DINITROPHENOL | ND | 350 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 89 |
| 2,6-DINITROTOLUENE | ND | 180 | 89 |
| 2-CHLORONAPHTHALENE | ND | 180 | 89 |
| 2-CHLOROPHENOL | ND | 180 | 89 |
| 2-METHYLNAPHTHALENE | ND | 180 | 89 |
| 2-METHYLPHENOL | ND | 180 | 89 |
| 2-NITROANILINE | ND | 180 | 89 |
| 2-NITROPHENOL | ND | 180 | 89 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 89 |
| 3-NITROANILINE | ND | 180 | 89 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 89 |
| 4-CHLOROANILINE | ND | 180 | 89 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-METHYLPHENOL (1) | ND | 180 | 89 |
| 4-NITROANILINE | ND | 180 | 89 |
| 4-NITROPHENOL | ND | 350 | 180 |
| ACENAPHTHENE | ND | 180 | 89 |
| ACENAPHTHYLENE | ND | 180 | 89 |
| ANTHRACENE | ND | 180 | 89 |
| BENZO(A)ANTHRACENE | ND | 180 | 89 |
| BENZO(A)PYRENE | ND | 180 | 89 |
| BENZO(B)FLUORANTHENE | ND | 180 | 89 |
| BENZO(K)FLUORANTHENE | ND | 180 | 89 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 89 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 89 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 89 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 89 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 89 |
| CHRYSENE | ND | 180 | 89 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 89 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 89 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 89 |
| DIBENZOFURAN | ND | 180 | 89 |
| DIETHYLPHTHALATE | ND | 180 | 89 |
| DIMETHYLPHTHALATE | ND | 180 | 89 |
| FLUORANTHENE | ND | 180 | 89 |
| FLUORENE | ND | 180 | 89 |
| HEXACHLOROBENZENE | ND | 180 | 89 |
| HEXACHLOROBUTADIENE | ND | 180 | 89 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 89 |
| HEXACHLOROETHANE | ND | 180 | 89 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 89 |
| ISOPHORONE | ND | 180 | 89 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 89 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 89 |
| NAPHTHALENE | ND | 180 | 89 |
| NITROBENZENE | ND | 180 | 89 |
| PENTACHLOROPHENOL | ND | 350 | 180 |
| PHENANTHRENE | ND | 180 | 89 |
| PHENOL | ND | 180 | 89 |
| PYRENE | ND | 180 | 89 |
| BENZYL ALCOHOL | ND | 180 | 89 |
| 1-METHYLNAPHTHALENE | ND | 180 | 89 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 89 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 89 |
| ANILINE | ND | 350 | 180 |
| BENZIDINE | ND | 880 | 440 |
| BENZOIC ACID | ND | 700 | 350 |
| CARBAZOLE | ND | 180 | 89 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 89 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 863 | 1055 | 81.8 | 35-130 |
| 2-FLUOROBIPHENYL | 247 | 351.6 | 70.2 | 45-130 |
| 2-FLUOROPHENOL | 718 | 1055 | 68.0 | 25-130 |
| NITROBENZENE-D5 | 242 | 351.6 | 68.8 | 40-130 |
| PHENOL-D5 | 727 | 1055 | 68.9 | 25-120 |
| TERPHENYL-D14 | 311 | 351.6 | 88.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 12:42 |
| Sample ID: MBLK1S | Date Analyzed: 03/20/12 18:03 |
| Lab Samp ID: SVC024SB | Dilution Factor: 1 |
| Lab File ID: RCJ237 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 896 | 1000 | 89.6 | 35-130 |
| 2-FLUOROBIPHENYL | 286 | 333.3 | 85.9 | 45-130 |
| 2-FLUOROPHENOL | 820 | 1000 | 82.0 | 25-130 |
| NITROBENZENE-D5 | 261 | 333.3 | 78.4 | 40-130 |
| PHENOL-D5 | 836 | 1000 | 83.6 | 25-120 |
| TERPHENYL-D14 | 340 | 333.3 | 102 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVC024SB SVC024SL SVC024SC
LAB FILE ID: RCJ237 RCJ238 RCJ239
DATE EXTRACTED: 03/20/1212:42 03/20/1212:42 03/20/1212:42 DATE COLLECTED: NA
DATE ANALYZED: 03/20/1218:03 03/20/1218:30 03/20/1218:49 DATE RECEIVED: 03/20/12
PREP. BATCH: SVC024S SVC024S SVC024S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 451 | 68 | 667 | 441 | 66 | 2 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 455 | 68 | 667 | 453 | 68 | 0 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 450 | 67 | 667 | 441 | 66 | 2 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 450 | 67 | 667 | 442 | 66 | 2 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 481 | 72 | 667 | 508 | 76 | 5 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 533 | 80 | 667 | 532 | 80 | 0 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 529 | 79 | 667 | 536 | 80 | 1 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 512 | 77 | 667 | 522 | 78 | 2 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 443 | 66 | 667 | 415 | 62 | 7 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 639 | 96 | 667 | 561 | 84 | 13 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 566 | 85 | 667 | 563 | 84 | 1 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 547 | 82 | 667 | 494 | 74 | 10 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 500 | 75 | 667 | 529 | 79 | 6 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 561 | 84 | 667 | 574 | 86 | 2 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 458 | 69 | 667 | 464 | 70 | 1 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 518 | 78 | 667 | 526 | 79 | 1 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 541 | 81 | 667 | 545 | 82 | 1 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 546 | 82 | 667 | 491 | 74 | 11 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 502 | 75 | 667 | 484 | 73 | 4 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 604 | 91 | 667 | 543 | 81 | 11 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 521 | 78 | 667 | 560 | 84 | 7 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 510 | 76 | 667 | 526 | 79 | 3 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 433 | 65 | 667 | 441 | 66 | 2 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 567 | 85 | 667 | 582 | 87 | 3 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 520 | 78 | 667 | 485 | 73 | 7 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 582 | 87 | 667 | 536 | 80 | 8 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 504 | 76 | 667 | 414 | 62 | 20 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 555 | 83 | 667 | 561 | 84 | 1 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 571 | 86 | 667 | 575 | 86 | 1 | 30-130 | 50 |
| Anthracene | ND | 667 | 590 | 88 | 667 | 571 | 86 | 3 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 661 | 99 | 667 | 587 | 88 | 12 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 637 | 96 | 667 | 559 | 84 | 13 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 675 | 101 | 667 | 618 | 93 | 9 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 677 | 102 | 667 | 589 | 88 | 14 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 697 | 105 | 667 | 619 | 93 | 12 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 557 | 83 | 667 | 540 | 81 | 3 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 516 | 77 | 667 | 524 | 79 | 2 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 565 | 85 | 667 | 573 | 86 | 1 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 657 | 99 | 667 | 577 | 87 | 13 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 660 | 99 | 667 | 567 | 85 | 15 | 40-150 | 50 |
| Chrysene | ND | 667 | 686 | 103 | 667 | 611 | 92 | 12 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 623 | 93 | 667 | 553 | 83 | 12 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 637 | 96 | 667 | 570 | 85 | 11 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 697 | 105 | 667 | 612 | 92 | 13 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 536 | 80 | 667 | 544 | 82 | 1 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 576 | 86 | 667 | 536 | 80 | 7 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 542 | 81 | 667 | 533 | 80 | 2 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 678 | 102 | 667 | 600 | 90 | 12 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 569 | 85 | 667 | 575 | 86 | 1 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 554 | 83 | 667 | 539 | 81 | 3 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 488 | 73 | 667 | 480 | 72 | 2 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 336 | 50 | 667 | 323 | 48 | 4 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 460 | 69 | 667 | 440 | 66 | 4 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 697 | 105 | 667 | 620 | 93 | 12 | 30-140 | 50 |
| Isophorone | ND | 667 | 545 | 82 | 667 | 565 | 85 | 4 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 430 | 64 | 667 | 429 | 64 | 0 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 431 | 65 | 667 | 437 | 66 | 1 | 30-140 | 50 |
| Naphthalene | ND | 667 | 545 | 82 | 667 | 544 | 82 | 0 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 511 | 77 | 667 | 550 | 82 | 7 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 568 | 85 | 667 | 501 | 75 | 13 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 618 | 93 | 667 | 597 | 90 | 4 | 30-130 | 50 |
| Phenol | ND | 667 | 508 | 76 | 667 | 501 | 75 | 1 | 30-130 | 50 |
| Pyrene | ND | 667 | 649 | 97 | 667 | 583 | 87 | 11 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 467 | 70 | 667 | 487 | 73 | 4 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 564 | 85 | 667 | 574 | 86 | 2 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 480 | 72 | 667 | 525 | 79 | 9 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 497 | 75 | 667 | 542 | 81 | 9 | 20-150 | 50 |
| Aniline | ND | 667 | 358 | 54 | 667 | 351 | 53 | 2 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1230 | 46 | 2670 | 1130 | 42 | 8 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 712 | 27 | 2670 | 754 | 28 | 6 | 10-130 | 50 |
| Carbazole | ND | 667 | 605 | 91 | 667 | 538 | 81 | 12 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 541 | 81 | 667 | 530 | 80 | 2 | 30-150 | 50 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 824 | 82 | 1000 | 858 | 86 | 35-130 |
| 2-Fluorobiphenyl | 333 | 238 | 71 | 333 | 249 | 75 | 45-130 |
| 2-Fluorophenol | 1000 | 685 | 69 | 1000 | 700 | 70 | 25-130 |
| Nitrobenzene-d5 | 333 | 227 | 68 | 333 | 240 | 72 | 40-130 |
| Phenol-d5 | 1000 | 684 | 68 | 1000 | 716 | 72 | 25-120 |
| Terphenyl-d14 | 333 | 312 | 93 | 333 | 287 | 86 | 45-135 |

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/15/12 21:41 |
| Sample ID: SL-022-NBZ-SB-4.5 | Date Analyzed: 03/15/12 21:41 |
| Lab Samp ID: C121-05 | Dilution Factor: 1.08 |
| Lab File ID: EC14051A | Matrix : SOIL |
| Ext Btch ID: GMC012S | % Moisture : 4.1 |
| Calib. Ref.: EC14045A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.56 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.85 | 2.252 | 82.0 | 60-130 |

RL : Reporting Limit

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/15/12 22:23 |
| Sample ID: SL-022-NBZ-SB-9.5 | Date Analyzed: 03/15/12 22:23 |
| Lab Samp ID: C121-07 | Dilution Factor: 0.89 |
| Lab File ID: EC14052A | Matrix : SOIL |
| Ext Btch ID: GMC012S | % Moisture : 5.7 |
| Calib. Ref.: EC14045A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 0.94 | 0.47 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.50 | 1.888 | 79.5 | 60-130 |

RL : Reporting Limit

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/15/12 23:05 |
| Sample ID: SL-023-NBZ-SB-4.5 | Date Analyzed: 03/15/12 23:05 |
| Lab Samp ID: C121-09 | Dilution Factor: 1.08 |
| Lab File ID: EC14053A | Matrix : SOIL |
| Ext Btch ID: GMC012S | % Moisture : 3.4 |
| Calib. Ref.: EC14045A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.56 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.88 | 2.236 | 84.0 | 60-130 |

RL : Reporting Limit

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/14/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/14/12 |
| Batch No. | : 12C121 | Date Extracted | : 03/15/12 23:47 |
| Sample ID | : SL-023-NBZ-SB-9.0 | Date Analyzed | : 03/15/12 23:47 |
| Lab Samp ID | : C121-11 | Dilution Factor | : 0.93 |
| Lab File ID | : EC14054A | Matrix | : SOIL |
| Ext Btch ID | : GMC012S | % Moisture | : 5.1 |
| Calib. Ref. | : EC14045A | Instrument ID | : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 0.98 | 0.49 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.61 | 1.960 | 82.1 | 60-130 |

RL : Reporting Limit

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/15/12 |
| Batch No. : 12C121 | Date Extracted: 03/15/12 19:36 |
| Sample ID: MBLK1S | Date Analyzed: 03/15/12 19:36 |
| Lab Samp ID: GMC012SB | Dilution Factor: 1 |
| Lab File ID: EC14048A | Matrix : SOIL |
| Ext Btch ID: GMC012S | % Moisture : NA |
| Calib. Ref.: EC14045A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.60 | 2.000 | 80.2 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: METHOD 5035/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | GMC012SB | GMC012SL | GMC012SC | | |
| LAB FILE ID: | EC14048A | EC14049A | EC14050A | | |
| DATE EXTRACTED: | 03/15/1219:36 | 03/15/1220:18 | 03/15/1220:59 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/15/1219:36 | 03/15/1220:18 | 03/15/1220:59 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | GMC012S | GMC012S | GMC012S | | |
| CALIB. REF: | EC14045A | EC14045A | EC14045A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 25.0 | 22.8 | 91 | 25.0 | 23.1 | 92 | 1 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 2.00 | 1.87 | 94 | 2.00 | 1.87 | 94 | 60-130 |

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/16/12 20:03 |
| Sample ID: TB-031412 | Date Analyzed: 03/16/12 20:03 |
| Lab Samp ID: C121-13 | Dilution Factor: 1 |
| Lab File ID: EC16006A | Matrix : WATER |
| Ext Btch ID: VA39C09 | % Moisture : NA |
| Calib. Ref.: EC16002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 20J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 34.2 | 40.00 | 85.4 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/17/12 |
| Batch No. : 12C121 | Date Extracted: 03/17/12 01:37 |
| Sample ID: MBLK1W | Date Analyzed: 03/17/12 01:37 |
| Lab Samp ID: VA39C09Q | Dilution Factor: 1 |
| Lab File ID: EC16014A | Matrix : WATER |
| Ext Btch ID: VA39C09 | % Moisture : NA |
| Calib. Ref.: EC16013A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 33.8 | 40.00 | 84.6 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: METHOD 5030B/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VA39C09Q | VA39C09L | VA39C09C | | |
| LAB FILE ID: | EC16014A | EC16004A | EC16005A | | |
| DATE EXTRACTED: | 03/17/1201:37 | 03/16/1218:39 | 03/16/1219:21 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/17/1201:37 | 03/16/1218:39 | 03/16/1219:21 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | VA39C09 | VA39C09 | VA39C09 | | |
| CALIB. REF: | EC16013A | EC16002A | EC16002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 500 | 505 | 101 | 500 | 491 | 98 | 3 | 60-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 40.0 | 39.6 | 99 | 40.0 | 38.4 | 96 | 60-130 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-022-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 00:46 |
| Lab Samp ID: C121-01 | Dilution Factor: 1 |
| Lab File ID: RCJ258 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 4.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.89 |
| ACENAPHTHYLENE | ND | 1.8 | 0.89 |
| ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)PYRENE | ND | 1.8 | 0.89 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.89 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.89 |
| BENZO(G,H,I)PERYLENE | 1.0J | 1.8 | 0.89 |
| CHRYSENE | ND | 1.8 | 0.89 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.89 |
| FLUORANTHENE | 1.8J | 1.8 | 0.89 |
| FLUORENE | ND | 1.8 | 0.89 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.89 |
| NAPHTHALENE | ND | 1.8 | 0.89 |
| PHENANTHRENE | 1.0J | 1.8 | 0.89 |
| PYRENE | 1.6J | 1.8 | 0.89 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 10J | 17 | 8.8 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.8 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.8 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.8 |
| DIETHYLPHTHALATE | ND | 17 | 8.8 |
| DIMETHYLPHTHALATE | ND | 17 | 8.8 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.89 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 171 | 348.6 | 49.2 | 40-130 |
| 2-FLUOROBIPHENYL | 181 | 348.6 | 51.9 | 45-130 |
| TERPHENYL-D14 | 224 | 348.6 | 64.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-023-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 01:05 |
| Lab Samp ID: C121-02 | Dilution Factor: 1 |
| Lab File ID: RCJ259 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 3.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.88 |
| ACENAPHTHYLENE | ND | 1.8 | 0.88 |
| ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)ANTHRACENE | 3.0 | 1.8 | 0.88 |
| BENZO(A)PYRENE | 4.2 | 1.8 | 0.88 |
| BENZO(B)FLUORANTHENE | 6.7 | 1.8 | 0.88 |
| BENZO(K)FLUORANTHENE | 2.1 | 1.8 | 0.88 |
| BENZO(G,H,I)PERYLENE | 4.1 | 1.8 | 0.88 |
| CHRYSENE | 4.5 | 1.8 | 0.88 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.88 |
| FLUORANTHENE | 11 | 1.8 | 0.88 |
| FLUORENE | ND | 1.8 | 0.88 |
| INDENO(1,2,3-CD)PYRENE | 2.8 | 1.8 | 0.88 |
| NAPHTHALENE | ND | 1.8 | 0.88 |
| PHENANTHRENE | 5.8 | 1.8 | 0.88 |
| PYRENE | 9.5 | 1.8 | 0.88 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 12J | 17 | 8.7 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.7 |
| DIETHYLPHTHALATE | ND | 17 | 8.7 |
| DIMETHYLPHTHALATE | ND | 17 | 8.7 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.88 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 259 | 344.7 | 75.1 | 40-130 |
| 2-FLUOROBIPHENYL | 247 | 344.7 | 71.6 | 45-130 |
| TERPHENYL-D14 | 293 | 344.7 | 85.0 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-024-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 01:24 |
| Lab Samp ID: C121-03 | Dilution Factor: 1 |
| Lab File ID: RCJ260 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 3.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.88 |
| ACENAPHTHYLENE | ND | 1.8 | 0.88 |
| ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)PYRENE | ND | 1.8 | 0.88 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.88 |
| CHRYSENE | ND | 1.8 | 0.88 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.88 |
| FLUORANTHENE | ND | 1.8 | 0.88 |
| FLUORENE | ND | 1.8 | 0.88 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.88 |
| NAPHTHALENE | ND | 1.8 | 0.88 |
| PHENANTHRENE | ND | 1.8 | 0.88 |
| PYRENE | ND | 1.8 | 0.88 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 14J | 17 | 8.7 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.7 |
| DIETHYLPHTHALATE | ND | 17 | 8.7 |
| DIMETHYLPHTHALATE | ND | 17 | 8.7 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.88 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 236 | 344.3 | 68.4 | 40-130 |
| 2-FLUOROBIPHENYL | 227 | 344.3 | 65.9 | 45-130 |
| TERPHENYL-D14 | 270 | 344.3 | 78.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-030-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 01:42 |
| Lab Samp ID: C121-04 | Dilution Factor: 1 |
| Lab File ID: RCJ261 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 2.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.87 |
| ACENAPHTHYLENE | 0.98J | 1.7 | 0.87 |
| ANTHRACENE | ND | 1.7 | 0.87 |
| BENZO(A)ANTHRACENE | 3.7 | 1.7 | 0.87 |
| BENZO(A)PYRENE | 4.0 | 1.7 | 0.87 |
| BENZO(B)FLUORANTHENE | 6.3 | 1.7 | 0.87 |
| BENZO(K)FLUORANTHENE | 2.2 | 1.7 | 0.87 |
| BENZO(G,H,I)PERYLENE | 4.0 | 1.7 | 0.87 |
| CHRYSENE | 3.3 | 1.7 | 0.87 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.87 |
| FLUORANTHENE | 6.7 | 1.7 | 0.87 |
| FLUORENE | ND | 1.7 | 0.87 |
| INDENO(1,2,3-CD)PYRENE | 3.0 | 1.7 | 0.87 |
| NAPHTHALENE | ND | 1.7 | 0.87 |
| PHENANTHRENE | 1.3J | 1.7 | 0.87 |
| PYRENE | 5.3 | 1.7 | 0.87 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.87 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.87 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 25 | 17 | 8.6 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.6 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.6 |
| DI-N-OCTYLPHTHALATE | 62 | 17 | 8.6 |
| DIETHYLPHTHALATE | ND | 17 | 8.6 |
| DIMETHYLPHTHALATE | ND | 17 | 8.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.87 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 234 | 340.4 | 68.8 | 40-130 |
| 2-FLUOROBIPHENYL | 236 | 340.4 | 69.3 | 45-130 |
| TERPHENYL-D14 | 300 | 340.4 | 88.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-022-NBZ-SB-4.0-5.0 | Date Analyzed: 03/21/12 02:01 |
| Lab Samp ID: C121-06 | Dilution Factor: 1 |
| Lab File ID: RCJ262 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 3.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.88 |
| ACENAPHTHYLENE | ND | 1.8 | 0.88 |
| ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)PYRENE | ND | 1.8 | 0.88 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.88 |
| CHRYSENE | ND | 1.8 | 0.88 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.88 |
| FLUORANTHENE | ND | 1.8 | 0.88 |
| FLUORENE | ND | 1.8 | 0.88 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.88 |
| NAPHTHALENE | ND | 1.8 | 0.88 |
| PHENANTHRENE | ND | 1.8 | 0.88 |
| PYRENE | ND | 1.8 | 0.88 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.7 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.7 |
| DIETHYLPHTHALATE | ND | 17 | 8.7 |
| DIMETHYLPHTHALATE | ND | 17 | 8.7 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.88 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 225 | 346.5 | 65.0 | 40-130 |
| 2-FLUOROBIPHENYL | 220 | 346.5 | 63.4 | 45-130 |
| TERPHENYL-D14 | 281 | 346.5 | 81.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-022-NBZ-SB-9.0-10.0 | Date Analyzed: 03/21/12 02:20 |
| Lab Samp ID: C121-08 | Dilution Factor: 1 |
| Lab File ID: RCJ263 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 4.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.89 |
| ACENAPHTHYLENE | ND | 1.8 | 0.89 |
| ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)PYRENE | ND | 1.8 | 0.89 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.89 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.89 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.89 |
| CHRYSENE | ND | 1.8 | 0.89 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.89 |
| FLUORANTHENE | ND | 1.8 | 0.89 |
| FLUORENE | ND | 1.8 | 0.89 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.89 |
| NAPHTHALENE | ND | 1.8 | 0.89 |
| PHENANTHRENE | ND | 1.8 | 0.89 |
| PYRENE | ND | 1.8 | 0.89 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 8.8 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 8.8 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 8.8 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 8.8 |
| DIETHYLPHTHALATE | ND | 18 | 8.8 |
| DIMETHYLPHTHALATE | ND | 18 | 8.8 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.89 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 251 | 349.4 | 71.8 | 40-130 |
| 2-FLUOROBIPHENYL | 243 | 349.4 | 69.5 | 45-130 |
| TERPHENYL-D14 | 323 | 349.4 | 92.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-023-NBZ-SB-4.0-5.0 | Date Analyzed: 03/21/12 02:39 |
| Lab Samp ID: C121-10 | Dilution Factor: 1 |
| Lab File ID: RCJ264 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 3.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.88 |
| ACENAPHTHYLENE | ND | 1.8 | 0.88 |
| ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)PYRENE | ND | 1.8 | 0.88 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.88 |
| CHRYSENE | ND | 1.8 | 0.88 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.88 |
| FLUORANTHENE | ND | 1.8 | 0.88 |
| FLUORENE | ND | 1.8 | 0.88 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.88 |
| NAPHTHALENE | ND | 1.8 | 0.88 |
| PHENANTHRENE | ND | 1.8 | 0.88 |
| PYRENE | ND | 1.8 | 0.88 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.7 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.7 |
| DIETHYLPHTHALATE | ND | 17 | 8.7 |
| DIMETHYLPHTHALATE | ND | 17 | 8.7 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.88 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 210 | 344.7 | 61.0 | 40-130 |
| 2-FLUOROBIPHENYL | 206 | 344.7 | 59.6 | 45-130 |
| TERPHENYL-D14 | 231 | 344.7 | 67.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 14:42 |
| Sample ID: SL-023-NBZ-SB-8.5-9.5 | Date Analyzed: 03/21/12 02:58 |
| Lab Samp ID: C121-12 | Dilution Factor: 1 |
| Lab File ID: RCJ265 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : 5.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.90 |
| ACENAPHTHYLENE | ND | 1.8 | 0.90 |
| ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)PYRENE | ND | 1.8 | 0.90 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.90 |
| CHRYSENE | ND | 1.8 | 0.90 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.90 |
| FLUORANTHENE | ND | 1.8 | 0.90 |
| FLUORENE | ND | 1.8 | 0.90 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.90 |
| NAPHTHALENE | ND | 1.8 | 0.90 |
| PHENANTHRENE | ND | 1.8 | 0.90 |
| PYRENE | ND | 1.8 | 0.90 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 8.9 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 8.9 |
| DIETHYLPHTHALATE | ND | 18 | 8.9 |
| DIMETHYLPHTHALATE | ND | 18 | 8.9 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.90 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 248 | 351.6 | 70.6 | 40-130 |
| 2-FLUOROBIPHENYL | 245 | 351.6 | 69.8 | 45-130 |
| TERPHENYL-D14 | 296 | 351.6 | 84.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 14:42 |
| Sample ID: MBLK1S | Date Analyzed: 03/20/12 18:03 |
| Lab Samp ID: SVC024SB | Dilution Factor: 1 |
| Lab File ID: RCJ237 | Matrix : SOIL |
| Ext Btch ID: SVC024S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 290 | 333.3 | 87.2 | 40-130 |
| 2-FLUOROBIPHENYL | 281 | 333.3 | 84.3 | 45-130 |
| TERPHENYL-D14 | 322 | 333.3 | 96.7 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVC024SB | SVC024SX | SVC024SY | | |
| LAB FILE ID: | RCJ237 | RCJ240 | RCJ241 | | |
| DATE EXTRACTED: | 03/20/1214:42 | 03/20/1214:42 | 03/20/1214:42 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/20/1218:03 | 03/20/1219:07 | 03/20/1219:26 | DATE RECEIVED: | 03/20/12 |
| PREP. BATCH: | SVC024S | SVC024S | SVC024S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 276 | 83 | 333 | 253 | 76 | 9 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 298 | 89 | 333 | 274 | 82 | 8 | 20-130 | 50 |
| Anthracene | ND | 333 | 270 | 81 | 333 | 251 | 75 | 7 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 277 | 83 | 333 | 271 | 81 | 2 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 284 | 85 | 333 | 262 | 79 | 8 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 309 | 93 | 333 | 279 | 84 | 10 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 302 | 90 | 333 | 289 | 87 | 4 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 312 | 93 | 333 | 292 | 88 | 6 | 30-140 | 50 |
| Chrysene | ND | 333 | 268 | 80 | 333 | 266 | 80 | 1 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 320 | 96 | 333 | 299 | 90 | 7 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 286 | 86 | 333 | 278 | 83 | 3 | 30-130 | 50 |
| Fluorene | ND | 333 | 289 | 87 | 333 | 266 | 80 | 8 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 319 | 96 | 333 | 299 | 90 | 6 | 20-160 | 50 |
| Naphthalene | ND | 333 | 264 | 79 | 333 | 242 | 73 | 9 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 274 | 82 | 333 | 258 | 77 | 6 | 20-130 | 50 |
| Pyrene | ND | 333 | 274 | 82 | 333 | 266 | 80 | 3 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 283 | 85 | 333 | 261 | 78 | 8 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 282 | 85 | 333 | 260 | 78 | 8 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 257 | 77 | 333 | 254 | 76 | 1 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 241 | 72 | 333 | 237 | 71 | 2 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 251 | 75 | 333 | 240 | 72 | 4 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 243 | 73 | 333 | 223 | 67 | 8 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 276 | 83 | 333 | 247 | 74 | 11 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 271 | 81 | 333 | 245 | 74 | 10 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 252 | 76 | 333 | 229 | 69 | 10 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 261 | 78 | 333 | 242 | 73 | 40-130 |
| 2-Fluorobiphenyl | 333 | 236 | 71 | 333 | 227 | 68 | 45-130 |
| Terphenyl-d14 | 333 | 266 | 80 | 333 | 271 | 81 | 45-135 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/15/12 13:30 |
| Sample ID: SL-022-NBZ-SS-0.0-0.5 | Date Analyzed: 03/16/12 12:54 |
| Lab Samp ID: C121-01 | Dilution Factor: 1 |
| Lab File ID: BC16011A | Matrix : SOIL |
| Ext Btch ID: MEC003S | % Moisture : 4.4 |
| Calib. Ref.: BC16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/15/12 13:30 |
| Sample ID: SL-023-NBZ-SS-0.0-0.5 | Date Analyzed: 03/16/12 13:11 |
| Lab Samp ID: C121-02 | Dilution Factor: 1 |
| Lab File ID: BC16012A | Matrix : SOIL |
| Ext Btch ID: MEC003S | % Moisture : 3.3 |
| Calib. Ref.: BC16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/15/12 13:30 |
| Sample ID: SL-024-NBZ-SS-0.0-0.5 | Date Analyzed: 03/16/12 13:31 |
| Lab Samp ID: C121-03 | Dilution Factor: 1 |
| Lab File ID: BC16013A | Matrix : SOIL |
| Ext Btch ID: MEC003S | % Moisture : 3.2 |
| Calib. Ref.: BC16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/15/12 13:30 |
| Sample ID: SL-030-NBZ-SS-0.0-0.5 | Date Analyzed: 03/16/12 13:47 |
| Lab Samp ID: C121-04 | Dilution Factor: 1 |
| Lab File ID: BC16014A | Matrix : SOIL |
| Ext Btch ID: MEC003S | % Moisture : 2.1 |
| Calib. Ref.: BC16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 510 | 260 |
| ISOPROPANOL | ND | 510 | 260 |
| METHANOL | ND | 510 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/15/12 13:30 |
| Sample ID: SL-022-NBZ-SB-4.0-5.0 | Date Analyzed: 03/16/12 14:04 |
| Lab Samp ID: C121-06 | Dilution Factor: 1 |
| Lab File ID: BC16015A | Matrix : SOIL |
| Ext Btch ID: MEC003S | % Moisture : 3.8 |
| Calib. Ref.: BC16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/15/12 13:30 |
| Sample ID: SL-022-NBZ-SB-9.0-10.0 | Date Analyzed: 03/16/12 14:23 |
| Lab Samp ID: C121-08 | Dilution Factor: 1 |
| Lab File ID: BC16016A | Matrix : SOIL |
| Ext Btch ID: MEC003S | % Moisture : 4.6 |
| Calib. Ref.: BC16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/15/12 13:30 |
| Sample ID: SL-023-NBZ-SB-4.0-5.0 | Date Analyzed: 03/16/12 14:43 |
| Lab Samp ID: C121-10 | Dilution Factor: 1 |
| Lab File ID: BC16017A | Matrix : SOIL |
| Ext Btch ID: MEC003S | % Moisture : 3.3 |
| Calib. Ref.: BC16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/15/12 13:30 |
| Sample ID: SL-023-NBZ-SB-8.5-9.5 | Date Analyzed: 03/16/12 15:01 |
| Lab Samp ID: C121-12 | Dilution Factor: 1 |
| Lab File ID: BC16018A | Matrix : SOIL |
| Ext Btch ID: MEC003S | % Moisture : 5.2 |
| Calib. Ref.: BC16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 530 | 260 |
| ISOPROPANOL | ND | 530 | 260 |
| METHANOL | ND | 530 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/15/12 |
| Batch No. : 12C121 | Date Extracted: 03/15/12 13:30 |
| Sample ID: MBLK1S | Date Analyzed: 03/16/12 11:59 |
| Lab Samp ID: MEC003SB | Dilution Factor: 1 |
| Lab File ID: BC16008A | Matrix : SOIL |
| Ext Btch ID: MEC003S | % Moisture : NA |
| Calib. Ref.: BC16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 500 | 250 |
| ISOPROPANOL | ND | 500 | 250 |
| METHANOL | ND | 500 | 250 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | MEC003SB | MEC003SL | MEC003SC | | |
| LAB FILE ID: | BC16008A | BC16009A | BC16010A | | |
| DATE EXTRACTED: | 03/15/1213:30 | 03/15/1213:30 | 03/15/1213:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/16/1211:59 | 03/16/1212:19 | 03/16/1212:35 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | MEC003S | MEC003S | MEC003S | | |
| CALIB. REF: | BC16002A | BC16002A | BC16002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 10200 | 102 | 10000 | 10400 | 104 | 2 | 50-150 | 50 |
| Isopropanol | ND | 10000 | 11000 | 110 | 10000 | 12000 | 120 | 8 | 50-150 | 50 |
| Methanol | ND | 10000 | 9760 | 98 | 10000 | 9510 | 95 | 3 | 50-150 | 50 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 11:00 |
| Sample ID: SL-022-NBZ-SS-0.0-0.5 | Date Analyzed: 03/20/12 14:46 |
| Lab Samp ID: C121-01 | Dilution Factor: 1 |
| Lab File ID: TC20015A | Matrix : SOIL |
| Ext Btch ID: PEC002S | % Moisture : 4.4 |
| Calib. Ref.: TC20014A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.8 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 11:00 |
| Sample ID: SL-023-NBZ-SS-0.0-0.5 | Date Analyzed: 03/20/12 15:03 |
| Lab Samp ID: C121-02 | Dilution Factor: 1 |
| Lab File ID: TC20016A | Matrix : SOIL |
| Ext Btch ID: PEC002S | % Moisture : 3.3 |
| Calib. Ref.: TC20014A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.8 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 11:00 |
| Sample ID: SL-024-NBZ-SS-0.0-0.5 | Date Analyzed: 03/20/12 15:19 |
| Lab Samp ID: C121-03 | Dilution Factor: 1 |
| Lab File ID: TC20017A | Matrix : SOIL |
| Ext Btch ID: PEC002S | % Moisture : 3.2 |
| Calib. Ref.: TC20014A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.7 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/14/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/14/12 |
| Batch No. | : 12C121 | Date Extracted | : 03/20/12 11:00 |
| Sample ID | : SL-030-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/20/12 15:34 |
| Lab Samp ID | : C121-04 | Dilution Factor | : 1 |
| Lab File ID | : TC20018A | Matrix | : SOIL |
| Ext Btch ID | : PEC002S | % Moisture | : 2.1 |
| Calib. Ref. | : TC20014A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.7 |
| ETHYLENE GLYCOL | ND | 10 | 5.1 |
| PROPYLENE GLYCOL | ND | 10 | 5.1 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/14/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/14/12 |
| Batch No. | : 12C121 | Date Extracted | : 03/20/12 11:00 |
| Sample ID | : SL-022-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/20/12 15:47 |
| Lab Samp ID | : C121-06 | Dilution Factor | : 1 |
| Lab File ID | : TC20019A | Matrix | : SOIL |
| Ext Btch ID | : PEC002S | % Moisture | : 3.8 |
| Calib. Ref. | : TC20014A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.8 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/14/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/14/12 |
| Batch No. | : 12C121 | Date Extracted | : 03/20/12 11:00 |
| Sample ID | : SL-022-NBZ-SB-9.0-10.0 | Date Analyzed | : 03/20/12 15:59 |
| Lab Samp ID | : C121-08 | Dilution Factor | : 1 |
| Lab File ID | : TC20020A | Matrix | : SOIL |
| Ext Btch ID | : PEC002S | % Moisture | : 4.6 |
| Calib. Ref. | : TC20014A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.9 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/14/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/14/12 |
| Batch No. | : 12C121 | Date Extracted | : 03/20/12 11:00 |
| Sample ID | : SL-023-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/20/12 16:11 |
| Lab Samp ID | : C121-10 | Dilution Factor | : 1 |
| Lab File ID | : TC20021A | Matrix | : SOIL |
| Ext Btch ID | : PEC002S | % Moisture | : 3.3 |
| Calib. Ref. | : TC20014A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.8 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 11:00 |
| Sample ID: SL-023-NBZ-SB-8.5-9.5 | Date Analyzed: 03/20/12 16:24 |
| Lab Samp ID: C121-12 | Dilution Factor: 1 |
| Lab File ID: TC20022A | Matrix : SOIL |
| Ext Btch ID: PEC002S | % Moisture : 5.2 |
| Calib. Ref.: TC20014A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.9 |
| ETHYLENE GLYCOL | ND | 11 | 5.3 |
| PROPYLENE GLYCOL | ND | 11 | 5.3 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 11:00 |
| Sample ID: MBLK1S | Date Analyzed: 03/20/12 13:41 |
| Lab Samp ID: PEC002SB | Dilution Factor: 1 |
| Lab File ID: TC20011A | Matrix : SOIL |
| Ext Btch ID: PEC002S | % Moisture : NA |
| Calib. Ref.: TC20003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.5 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 5.0 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PEC002SB | PEC002SL | PEC002SC | | |
| LAB FILE ID: | TC20011A | TC20012A | TC20013A | | |
| DATE EXTRACTED: | 03/20/1211:00 | 03/20/1211:00 | 03/20/1211:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/20/1213:41 | 03/20/1213:54 | 03/20/1214:10 | DATE RECEIVED: | 03/20/12 |
| PREP. BATCH: | PEC002S | PEC002S | PEC002S | | |
| CALIB. REF: | TC20003A | TC20003A | TC20003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 38.4 | 77 | 50.0 | 42.8 | 86 | 11 | 50-150 | 50 |
| Ethylene Glycol | ND | 50.0 | 44.9 | 90 | 50.0 | 45.8 | 92 | 2 | 50-150 | 50 |
| Propylene Glycol | ND | 25.0 | 27.4 | 110 | 25.0 | 27.7 | 111 | 1 | 50-150 | 50 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 11:44 |
| Sample ID: SL-022-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 01:01 |
| Lab Samp ID: C121-01 | Dilution Factor: 1 |
| Lab File ID: LC20047A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : 4.4 |
| Calib. Ref.: LC20039A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.57J | 1.0 | 0.52 |
| EFH(C12-C14) | ND | 1.0 | 0.52 |
| EFH(C15-C20) | 1.4 | 1.0 | 0.52 |
| EFH(C21-C30) | 12 | 1.0 | 0.52 |
| EFH(C30-C40) | 23 | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | 37 | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.38 | 10.46 | 70.5 | 50-150 |
| HEXACOSANE | 2.32 | 2.615 | 88.8 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 11:44 |
| Sample ID: SL-023-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 01:35 |
| Lab Samp ID: C121-02 | Dilution Factor: 1 |
| Lab File ID: LC20049A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : 3.3 |
| Calib. Ref.: LC20039A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.52 |
| EFH(C12-C14) | ND | 1.0 | 0.52 |
| EFH(C15-C20) | 1.2 | 1.0 | 0.52 |
| EFH(C21-C30) | 12 | 1.0 | 0.52 |
| EFH(C30-C40) | 26 | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | 39 | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.07 | 10.34 | 68.4 | 50-150 |
| HEXACOSANE | 2.33 | 2.585 | 90.3 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 11:44 |
| Sample ID: SL-024-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 00:44 |
| Lab Samp ID: C121-03 | Dilution Factor: 1 |
| Lab File ID: LC20046A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : 3.2 |
| Calib. Ref.: LC20039A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.53J | 1.0 | 0.52 |
| EFH(C12-C14) | ND | 1.0 | 0.52 |
| EFH(C15-C20) | 0.97J | 1.0 | 0.52 |
| EFH(C21-C30) | 5.3 | 1.0 | 0.52 |
| EFH(C30-C40) | 10 | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | 17 | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.43 | 10.33 | 72.0 | 50-150 |
| HEXACOSANE | 2.40 | 2.583 | 92.9 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 11:44 |
| Sample ID: SL-030-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 01:18 |
| Lab Samp ID: C121-04 | Dilution Factor: 1 |
| Lab File ID: LC20048A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : 2.1 |
| Calib. Ref.: LC20039A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.89J | 1.0 | 0.51 |
| EFH(C12-C14) | 0.86J | 1.0 | 0.51 |
| EFH(C15-C20) | 0.91J | 1.0 | 0.51 |
| EFH(C21-C30) | 12 | 1.0 | 0.51 |
| EFH(C30-C40) | 22 | 1.0 | 0.51 |
| TOTAL EFH(C8-C40) | 37 | 1.0 | 0.51 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.19 | 10.21 | 70.4 | 50-150 |
| HEXACOSANE | 2.47 | 2.554 | 96.6 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 11:44 |
| Sample ID: SL-022-NBZ-SB-4.0-5.0 | Date Analyzed: 03/20/12 23:36 |
| Lab Samp ID: C121-06 | Dilution Factor: 1 |
| Lab File ID: LC20042A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : 3.8 |
| Calib. Ref.: LC20039A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.56J | 1.0 | 0.52 |
| EFH(C12-C14) | ND | 1.0 | 0.52 |
| EFH(C15-C20) | ND | 1.0 | 0.52 |
| EFH(C21-C30) | ND | 1.0 | 0.52 |
| EFH(C30-C40) | ND | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | 0.56J | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.99 | 10.40 | 67.2 | 50-150 |
| HEXACOSANE | 2.18 | 2.599 | 84.0 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 11:44 |
| Sample ID: SL-022-NBZ-SB-9.0-10.0 | Date Analyzed: 03/20/12 23:53 |
| Lab Samp ID: C121-08 | Dilution Factor: 1 |
| Lab File ID: LC20043A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : 4.6 |
| Calib. Ref.: LC20039A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.52 |
| EFH(C12-C14) | ND | 1.0 | 0.52 |
| EFH(C15-C20) | ND | 1.0 | 0.52 |
| EFH(C21-C30) | ND | 1.0 | 0.52 |
| EFH(C30-C40) | ND | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.25 | 10.48 | 69.1 | 50-150 |
| HEXACOSANE | 2.19 | 2.621 | 83.7 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 11:44 |
| Sample ID: SL-023-NBZ-SB-4.0-5.0 | Date Analyzed: 03/21/12 00:10 |
| Lab Samp ID: C121-10 | Dilution Factor: 1 |
| Lab File ID: LC20044A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : 3.3 |
| Calib. Ref.: LC20039A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.58J | 1.0 | 0.52 |
| EFH(C12-C14) | ND | 1.0 | 0.52 |
| EFH(C15-C20) | ND | 1.0 | 0.52 |
| EFH(C21-C30) | ND | 1.0 | 0.52 |
| EFH(C30-C40) | 1.8 | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | 2.4 | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.48 | 10.34 | 72.4 | 50-150 |
| HEXACOSANE | 2.24 | 2.585 | 86.8 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 11:44 |
| Sample ID: SL-023-NBZ-SB-8.5-9.5 | Date Analyzed: 03/21/12 00:27 |
| Lab Samp ID: C121-12 | Dilution Factor: 1 |
| Lab File ID: LC20045A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : 5.2 |
| Calib. Ref.: LC20039A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.57J | 1.1 | 0.53 |
| EFH(C12-C14) | ND | 1.1 | 0.53 |
| EFH(C15-C20) | ND | 1.1 | 0.53 |
| EFH(C21-C30) | ND | 1.1 | 0.53 |
| EFH(C30-C40) | 0.77J | 1.1 | 0.53 |
| TOTAL EFH(C8-C40) | 1.3 | 1.1 | 0.53 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.63 | 10.55 | 72.4 | 50-150 |
| HEXACOSANE | 2.24 | 2.637 | 85.0 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C121 | Date Extracted: 03/20/12 11:44 |
| Sample ID: MBLK1S | Date Analyzed: 03/20/12 18:15 |
| Lab Samp ID: DSC021SB | Dilution Factor: 1 |
| Lab File ID: LC20023A | Matrix : SOIL |
| Ext Btch ID: DSC021S | % Moisture : NA |
| Calib. Ref.: LC20015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 5.94 | 10.00 | 59.4 | 50-150 |
| HEXACOSANE | 1.95 | 2.500 | 78.0 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSC021SB | DSC021SL | DSC021SC | | |
| LAB FILE ID: | LC20023A | LC20021A | LC20022A | | |
| DATE EXTRACTED: | 03/20/1211:44 | 03/20/1211:44 | 03/20/1211:44 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/20/1218:15 | 03/20/1217:41 | 03/20/1217:58 | DATE RECEIVED: | 03/20/12 |
| PREP. BATCH: | DSC021S | DSC021S | DSC021S | | |
| CALIB. REF: | LC20015A | LC20015A | LC20015A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 42.5 | 85 | 50.0 | 36.4 | 73 | 15 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 6.44 | 64 | 10.0 | 6.45 | 65 | 50-150 |
| Hexacosane | 2.50 | 2.19 | 88 | 2.50 | 2.16 | 86 | 50-150 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/17/12 11:01 |
| Sample ID: SL-022-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 00:05 |
| Lab Samp ID: C121-01 | Dilution Factor: 1 |
| Lab File ID: LC20033A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : 4.4 |
| Calib. Ref.: LC20028A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.38 | 0.18 | 0.089 \| 0.089 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.18 | 0.089 \| 0.089 |
| BETA-BHC | 0.32 \| (ND) | 0.18 | 0.089 \| 0.089 |
| HEPTACHLOR | 0.10J \| (ND) | 0.18 | 0.089 \| 0.089 |
| DELTA-BHC | (ND) \| 0.26 | 0.18 | 0.089 \| 0.089 |
| ALDRIN | (ND) \| ND | 0.18 | 0.089 \| 0.089 |
| HEPTACHLOR EPOXIDE | 1.7 \| (ND) | 0.18 | 0.089 \| 0.089 |
| ENDOSULFAN I | 0.90 \| (0.16J) | 0.18 | 0.089 \| 0.089 |
| 4,4'-DDE | (0.83) \| 0.67 | 0.36 | 0.18 \| 0.18 |
| DIELDRIN | 1.1 \| (0.60) | 0.36 | 0.18 \| 0.18 |
| ENDRIN | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| 4,4'-DDD | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| ENDOSULFAN II | (ND) \| 0.20J | 0.36 | 0.18 \| 0.18 |
| 4,4'-DDT | (ND) \| 1.9 | 0.36 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| ENDRIN KETONE | (1.4) \| 0.81 | 0.36 | 0.18 \| 0.18 |
| METHOXYCHLOR | (ND) \| 8.7 | 1.8 | 0.89 \| 0.89 |
| MIREX | (0.66) \| 0.40 | 0.36 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 6.9 | 3.5 \| 3.5 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.6 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.538 \| (6.249) | 5.578 | 81.3 \| (112) | 50-130 |
| DECACHLOROBIPHENYL | 5.299 \| (6.258) | 5.578 | 95.0 \| (112) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/17/12 11:01 |
| Sample ID: SL-022-NBZ-SS-0.0-0.5DL | Date Analyzed: 03/21/12 13:17 |
| Lab Samp ID: C121-01T | Dilution Factor: 4 |
| Lab File ID: LC20053A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : 4.4 |
| Calib. Ref.: LC20049A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.71 | 0.36 \| 0.36 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.71 | 0.36 \| 0.36 |
| BETA-BHC | 1.0 \| (ND) | 0.71 | 0.36 \| 0.36 |
| HEPTACHLOR | (ND) \| ND | 0.71 | 0.36 \| 0.36 |
| DELTA-BHC | (ND) \| ND | 0.71 | 0.36 \| 0.36 |
| ALDRIN | (ND) \| ND | 0.71 | 0.36 \| 0.36 |
| HEPTACHLOR EPOXIDE | 2.0 \| (ND) | 0.71 | 0.36 \| 0.36 |
| ENDOSULFAN I | 1.1 \| (ND) | 0.71 | 0.36 \| 0.36 |
| 4,4'-DDE | (0.86J) \| 0.72J | 1.4 | 0.71 \| 0.71 |
| DIELDRIN | 1.4J \| (ND) | 1.4 | 0.71 \| 0.71 |
| ENDRIN | (ND) \| ND | 1.4 | 0.71 \| 0.71 |
| 4,4'-DDD | (ND) \| ND | 1.4 | 0.71 \| 0.71 |
| ENDOSULFAN II | (ND) \| 0.89J | 1.4 | 0.71 \| 0.71 |
| 4,4'-DDT | (ND) \| 1.2J | 1.4 | 0.71 \| 0.71 |
| ENDRIN ALDEHYDE | (ND) \| ND | 1.4 | 0.71 \| 0.71 |
| ENDOSULFAN SULFATE | (ND) \| ND | 1.4 | 0.71 \| 0.71 |
| ENDRIN KETONE | (2.4) \| 0.96J | 1.4 | 0.71 \| 0.71 |
| METHOXYCHLOR | (ND) \| 18 | 7.1 | 3.6 \| 3.6 |
| MIREX | 0.77J \| (ND) | 1.4 | 0.71 \| 0.71 |
| TOXAPHENE | (ND) \| ND | 28 | 14 \| 14 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 14 | 7.1 \| 7.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.549 \| (6.799) | 5.578 | 81.5 \| (122) | 50-130 |
| DECACHLOROBIPHENYL | (6.529) \| 5.433 | 5.578 | (117) \| 97.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/17/12 11:01 |
| Sample ID: SL-023-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 00:27 |
| Lab Samp ID: C121-02 | Dilution Factor: 1 |
| Lab File ID: LC20034A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : 3.3 |
| Calib. Ref.: LC20028A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.19 | 0.18 | 0.088\|0.088 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.18 | 0.088\|0.088 |
| BETA-BHC | 0.56\|(ND) | 0.18 | 0.088\|0.088 |
| HEPTACHLOR | (ND)\|0.55 | 0.18 | 0.088\|0.088 |
| DELTA-BHC | (ND)\|ND | 0.18 | 0.088\|0.088 |
| ALDRIN | (ND)\|ND | 0.18 | 0.088\|0.088 |
| HEPTACHLOR EPOXIDE | 0.55\|(ND) | 0.18 | 0.088\|0.088 |
| ENDOSULFAN I | 0.33\|(0.18) | 0.18 | 0.088\|0.088 |
| 4,4'-DDE | (ND)\|0.62 | 0.35 | 0.18\|0.18 |
| DIELDRIN | 1.5\|(ND) | 0.35 | 0.18\|0.18 |
| ENDRIN | (ND)\|0.59 | 0.35 | 0.18\|0.18 |
| 4,4'-DDD | (ND)\|ND | 0.35 | 0.18\|0.18 |
| ENDOSULFAN II | 0.96\|(0.33J) | 0.35 | 0.18\|0.18 |
| 4,4'-DDT | 0.94\|(1.9) | 0.35 | 0.18\|0.18 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.35 | 0.18\|0.18 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.35 | 0.18\|0.18 |
| ENDRIN KETONE | (ND)\|ND | 0.35 | 0.18\|0.18 |
| METHOXYCHLOR | 1.3J\|(ND) | 1.8 | 0.88\|0.88 |
| MIREX | (4.2)\|0.74 | 0.35 | 0.18\|0.18 |
| TOXAPHENE | (ND)\|ND | 6.8 | 3.4\|3.4 |
| CHLORDANE (TECHNICAL) | (ND)\|2.6J | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.925\|(5.986) | 5.515 | 89.3\|(109) | 50-130 |
| DECACHLOROBIPHENYL | 4.786\|(4.987) | 5.515 | 86.8\|(90.4) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/17/12 11:01 |
| Sample ID: SL-023-NBZ-SS-0.0-0.5DL | Date Analyzed: 03/21/12 13:39 |
| Lab Samp ID: C121-02T | Dilution Factor: 4 |
| Lab File ID: LC20054A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : 3.3 |
| Calib. Ref.: LC20049A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.70 | 0.35 \| 0.35 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.70 | 0.35 \| 0.35 |
| BETA-BHC | 0.65J \| (ND) | 0.70 | 0.35 \| 0.35 |
| HEPTACHLOR | (ND) \| 0.44J | 0.70 | 0.35 \| 0.35 |
| DELTA-BHC | (ND) \| ND | 0.70 | 0.35 \| 0.35 |
| ALDRIN | (ND) \| ND | 0.70 | 0.35 \| 0.35 |
| HEPTACHLOR EPOXIDE | 0.60J \| (ND) | 0.70 | 0.35 \| 0.35 |
| ENDOSULFAN I | 0.45J \| (ND) | 0.70 | 0.35 \| 0.35 |
| 4,4'-DDE | (ND) \| ND | 1.4 | 0.70 \| 0.70 |
| DIELDRIN | 2.3 \| (ND) | 1.4 | 0.70 \| 0.70 |
| ENDRIN | (ND) \| ND | 1.4 | 0.70 \| 0.70 |
| 4,4'-DDD | (ND) \| ND | 1.4 | 0.70 \| 0.70 |
| ENDOSULFAN II | 1.2J \| (ND) | 1.4 | 0.70 \| 0.70 |
| 4,4'-DDT | 1.2J \| (2.3) | 1.4 | 0.70 \| 0.70 |
| ENDRIN ALDEHYDE | (ND) \| ND | 1.4 | 0.70 \| 0.70 |
| ENDOSULFAN SULFATE | (ND) \| ND | 1.4 | 0.70 \| 0.70 |
| ENDRIN KETONE | (ND) \| ND | 1.4 | 0.70 \| 0.70 |
| METHOXYCHLOR | (ND) \| ND | 7.0 | 3.5 \| 3.5 |
| MIREX | (ND) \| ND | 1.4 | 0.70 \| 0.70 |
| TOXAPHENE | (ND) \| ND | 27 | 14 \| 14 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 14 | 7.0 \| 7.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.973 \| (6.041) | 5.515 | 90.2 \| (110) | 50-130 |
| DECACHLOROBIPHENYL | (6.110) \| 6.853 | 5.515 | (111) \| 124* | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/17/12 11:01 |
| Sample ID: SL-024-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 00:50 |
| Lab Samp ID: C121-03 | Dilution Factor: 1 |
| Lab File ID: LC20035A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : 3.2 |
| Calib. Ref.: LC20028A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.12J | 0.18 | 0.088\|0.088 |
| GAMMA-BHC (LINDANE) | (ND)\|0.19 | 0.18 | 0.088\|0.088 |
| BETA-BHC | (ND)\|ND | 0.18 | 0.088\|0.088 |
| HEPTACHLOR | (ND)\|0.49 | 0.18 | 0.088\|0.088 |
| DELTA-BHC | (ND)\|ND | 0.18 | 0.088\|0.088 |
| ALDRIN | (ND)\|ND | 0.18 | 0.088\|0.088 |
| HEPTACHLOR EPOXIDE | 0.35\|(ND) | 0.18 | 0.088\|0.088 |
| ENDOSULFAN I | 0.15J\|(ND) | 0.18 | 0.088\|0.088 |
| 4,4'-DDE | 0.29J\|(ND) | 0.35 | 0.18\|0.18 |
| DIELDRIN | 0.34J\|(ND) | 0.35 | 0.18\|0.18 |
| ENDRIN | (ND)\|ND | 0.35 | 0.18\|0.18 |
| 4,4'-DDD | (ND)\|ND | 0.35 | 0.18\|0.18 |
| ENDOSULFAN II | (ND)\|ND | 0.35 | 0.18\|0.18 |
| 4,4'-DDT | (ND)\|ND | 0.35 | 0.18\|0.18 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.35 | 0.18\|0.18 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.35 | 0.18\|0.18 |
| ENDRIN KETONE | (ND)\|ND | 0.35 | 0.18\|0.18 |
| METHOXYCHLOR | (ND)\|ND | 1.8 | 0.88\|0.88 |
| MIREX | (ND)\|ND | 0.35 | 0.18\|0.18 |
| TOXAPHENE | (ND)\|ND | 6.8 | 3.4\|3.4 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.214\|(4.257) | 5.509 | 76.5\|(77.3) | 50-130 |
| DECACHLOROBIPHENYL | 4.381\|(5.669) | 5.509 | 79.5\|(103) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/17/12 11:01 |
| Sample ID: SL-024-NBZ-SS-0.0-0.5RE | Date Analyzed: 03/21/12 14:01 |
| Lab Samp ID: C121-03W | Dilution Factor: 1 |
| Lab File ID: LC20055A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : 3.2 |
| Calib. Ref.: LC20049A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.11J | 0.18 | 0.088\|0.088 |
| GAMMA-BHC (LINDANE) | (ND)\|0.28 | 0.18 | 0.088\|0.088 |
| BETA-BHC | (ND)\|ND | 0.18 | 0.088\|0.088 |
| HEPTACHLOR | 0.32\|(ND) | 0.18 | 0.088\|0.088 |
| DELTA-BHC | (ND)\|ND | 0.18 | 0.088\|0.088 |
| ALDRIN | (ND)\|ND | 0.18 | 0.088\|0.088 |
| HEPTACHLOR EPOXIDE | 0.52\|(ND) | 0.18 | 0.088\|0.088 |
| ENDOSULFAN I | 0.37\|(ND) | 0.18 | 0.088\|0.088 |
| 4,4'-DDE | 0.25J\|(ND) | 0.35 | 0.18\|0.18 |
| DIELDRIN | (ND)\|ND | 0.35 | 0.18\|0.18 |
| ENDRIN | (ND)\|ND | 0.35 | 0.18\|0.18 |
| 4,4'-DDD | (ND)\|ND | 0.35 | 0.18\|0.18 |
| ENDOSULFAN II | (ND)\|ND | 0.35 | 0.18\|0.18 |
| 4,4'-DDT | (ND)\|0.28J | 0.35 | 0.18\|0.18 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.35 | 0.18\|0.18 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.35 | 0.18\|0.18 |
| ENDRIN KETONE | 0.20J\|(ND) | 0.35 | 0.18\|0.18 |
| METHOXYCHLOR | (ND)\|1.2J | 1.8 | 0.88\|0.88 |
| MIREX | (ND)\|ND | 0.35 | 0.18\|0.18 |
| TOXAPHENE | (ND)\|ND | 6.8 | 3.4\|3.4 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.737\|(3.811) | 5.509 | 67.8\|(69.2) | 50-130 |
| DECACHLOROBIPHENYL | 4.801\|(5.963) | 5.509 | 87.1\|(108) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/17/12 11:01 |
| Sample ID: SL-030-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 01:13 |
| Lab Samp ID: C121-04 | Dilution Factor: 1 |
| Lab File ID: LC20036A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : 2.1 |
| Calib. Ref.: LC20028A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.21 | 0.17 | 0.087 \| 0.087 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.66 | 0.17 | 0.087 \| 0.087 |
| BETA-BHC | (ND) \| ND | 0.17 | 0.087 \| 0.087 |
| HEPTACHLOR | (ND) \| 0.45 | 0.17 | 0.087 \| 0.087 |
| DELTA-BHC | (ND) \| ND | 0.17 | 0.087 \| 0.087 |
| ALDRIN | (ND) \| ND | 0.17 | 0.087 \| 0.087 |
| HEPTACHLOR EPOXIDE | (ND) \| 0.61 | 0.17 | 0.087 \| 0.087 |
| ENDOSULFAN I | (ND) \| ND | 0.17 | 0.087 \| 0.087 |
| 4,4'-DDE | 0.84 \| (ND) | 0.35 | 0.17 \| 0.17 |
| DIELDRIN | 0.98 \| (ND) | 0.35 | 0.17 \| 0.17 |
| ENDRIN | (ND) \| ND | 0.35 | 0.17 \| 0.17 |
| 4,4'-DDD | (ND) \| ND | 0.35 | 0.17 \| 0.17 |
| ENDOSULFAN II | (ND) \| ND | 0.35 | 0.17 \| 0.17 |
| 4,4'-DDT | (ND) \| 4.5 | 0.35 | 0.17 \| 0.17 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.35 | 0.17 \| 0.17 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.35 | 0.17 \| 0.17 |
| ENDRIN KETONE | 0.31J \| (ND) | 0.35 | 0.17 \| 0.17 |
| METHOXYCHLOR | 3.8 \| (ND) | 1.7 | 0.87 \| 0.87 |
| MIREX | 0.47 \| (0.26J) | 0.35 | 0.17 \| 0.17 |
| TOXAPHENE | (ND) \| ND | 6.7 | 3.4 \| 3.4 |
| CHLORDANE (TECHNICAL) | (ND) \| 8.6 | 3.5 | 1.7 \| 1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.288 \| (5.981) | 5.447 | 97.1 \| (110) | 50-130 |
| DECACHLOROBIPHENYL | 4.496 \| (4.511) | 5.447 | 82.5 \| (82.8) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/17/12 11:01 |
| Sample ID: SL-030-NBZ-SS-0.0-0.5DL | Date Analyzed: 03/21/12 14:24 |
| Lab Samp ID: C121-04T | Dilution Factor: 2 |
| Lab File ID: LC20056A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : 2.1 |
| Calib. Ref.: LC20049A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.18J | 0.35 | 0.17 \| 0.17 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.35 | 0.17 \| 0.17 |
| BETA-BHC | (ND) \| ND | 0.35 | 0.17 \| 0.17 |
| HEPTACHLOR | (ND) \| 0.41 | 0.35 | 0.17 \| 0.17 |
| DELTA-BHC | (ND) \| ND | 0.35 | 0.17 \| 0.17 |
| ALDRIN | (ND) \| ND | 0.35 | 0.17 \| 0.17 |
| HEPTACHLOR EPOXIDE | (ND) \| 0.67 | 0.35 | 0.17 \| 0.17 |
| ENDOSULFAN I | (ND) \| ND | 0.35 | 0.17 \| 0.17 |
| 4,4'-DDE | 0.91 \| (ND) | 0.69 | 0.35 \| 0.35 |
| DIELDRIN | 1.1 \| (ND) | 0.69 | 0.35 \| 0.35 |
| ENDRIN | (ND) \| ND | 0.69 | 0.35 \| 0.35 |
| 4,4'-DDD | (ND) \| ND | 0.69 | 0.35 \| 0.35 |
| ENDOSULFAN II | (ND) \| ND | 0.69 | 0.35 \| 0.35 |
| 4,4'-DDT | (ND) \| 4.7 | 0.69 | 0.35 \| 0.35 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.69 | 0.35 \| 0.35 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.69 | 0.35 \| 0.35 |
| ENDRIN KETONE | 0.38J \| (ND) | 0.69 | 0.35 \| 0.35 |
| METHOXYCHLOR | 4.1 \| (ND) | 3.5 | 1.7 \| 1.7 |
| MIREX | 0.49J \| (ND) | 0.69 | 0.35 \| 0.35 |
| TOXAPHENE | (ND) \| ND | 13 | 6.7 \| 6.7 |
| CHLORDANE (TECHNICAL) | (ND) \| 8.8 | 6.9 | 3.5 \| 3.5 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (5.421) \| 5.055 | 5.447 | (99.5) \| 92.8 | 50-130 |
| DECACHLOROBIPHENYL | (5.199) \| 4.636 | 5.447 | (95.4) \| 85.1 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/17/12 |
| Batch No. : 12C121 | Date Extracted: 03/17/12 11:01 |
| Sample ID: MBLK1S | Date Analyzed: 03/20/12 18:06 |
| Lab Samp ID: CPC016SB | Dilution Factor: 1 |
| Lab File ID: LC20017A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : NA |
| Calib. Ref.: LC20013A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.529\|(4.601) | 5.333 | 84.9\|(86.3) | 50-130 |
| DECACHLOROBIPHENYL | 5.343\|(5.390) | 5.333 | 100\|(101) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPC016SB CPC016SL CPC016SC
LAB FILE ID: LC20017A LC20018A LC20019A
DATE EXTRACTED: 03/17/1211:01 03/17/1211:01 03/17/1211:01 DATE COLLECTED: NA
DATE ANALYZED: 03/20/1218:06 03/20/1218:29 03/20/1218:52 DATE RECEIVED: 03/17/12
PREP. BATCH: CPC016S CPC016S CPC016S
CALIB. REF: LC20013A LC20013A LC20013A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 2.67 | 2.93\|(3.12) | 110\|(117) | 2.67 | 2.65\|(2.81) | 99\|(105) | 10\|(10) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|ND | 2.67 | 2.88\|(3.12) | 108\|(117) | 2.67 | 2.61\|(2.82) | 98\|(106) | 10\|(10) | 40-130 | 50 |
| beta-BHC | (ND)\|ND | 2.67 | 3.00\|(3.20) | 112\|(120) | 2.67 | 2.80\|(2.94) | 105\|(110) | 7\|(8) | 50-140 | 50 |
| Heptachlor | (ND)\|ND | 2.67 | 2.78\|(2.95) | 104\|(110) | 2.67 | 2.56\|(2.70) | 96\|(101) | 8\|(9) | 30-130 | 50 |
| delta-BHC | (ND)\|ND | 2.67 | 3.27\|(3.61) | 122\|(135) | 2.67 | 2.97\|(3.28) | 111\|(123) | 10\|(10) | 30-150 | 50 |
| Aldrin | (ND)\|ND | 2.67 | 2.51\|(2.70) | 94\|(101) | 2.67 | 2.34\|(2.49) | 88\|(93) | 7\|(8) | 30-130 | 50 |
| Heptachlor Epoxide | (ND)\|ND | 2.67 | 2.81\|(3.02) | 105\|(113) | 2.67 | 2.56\|(2.77) | 96\|(104) | 9\|(9) | 60-140 | 50 |
| Endosulfan I | (ND)\|ND | 2.67 | 2.65\|(2.99) | 99\|(112) | 2.67 | 2.43\|(2.75) | 91\|(103) | 9\|(8) | 50-150 | 50 |
| 4,4'-DDE | (ND)\|ND | 2.67 | 3.06\|(3.40) | 115\|(127) | 2.67 | 2.80\|(3.14) | 105\|(118) | 9\|(8) | 50-150 | 50 |
| Dieldrin | (ND)\|ND | 2.67 | 2.99\|(3.15) | 112\|(118) | 2.67 | 2.71\|(2.92) | 101\|(109) | 10\|(8) | 60-130 | 50 |
| Endrin | (ND)\|ND | 2.67 | 3.23\|(3.31) | 121\|(124) | 2.67 | 2.93\|(3.06) | 110\|(115) | 10\|(8) | 50-140 | 50 |
| 4,4'-DDD | (ND)\|ND | 2.67 | 3.52\|(3.88) | 132\|(145) | 2.67 | 3.18\|(3.67) | 119\|(137) | 10\|(6) | 50-160 | 50 |
| Endosulfan II | (ND)\|ND | 2.67 | 3.07\|(3.30) | 115\|(124) | 2.67 | 2.84\|(3.10) | 106\|(116) | 8\|(6) | 60-150 | 50 |
| 4,4'-DDT | (ND)\|ND | 2.67 | 3.74\|(3.55) | 140*\|(133) | 2.67 | 3.47\|(3.34) | 130\|(125) | 7\|(6) | 60-140 | 50 |
| Endrin aldehyde | (ND)\|ND | 2.67 | 2.98\|(3.25) | 112\|(122) | 2.67 | 2.86\|(3.15) | 107\|(118) | 4\|(3) | 50-160 | 50 |
| Endosulfan Sulfate | (ND)\|ND | 2.67 | 3.03\|(3.19) | 113\|(119) | 2.67 | 2.86\|(3.02) | 107\|(113) | 6\|(5) | 70-140 | 50 |
| Endrin Ketone | (ND)\|ND | 2.67 | 3.09\|(3.28) | 116\|(123) | 2.67 | 2.94\|(3.09) | 110\|(116) | 5\|(6) | 70-160 | 50 |
| Methoxychlor | (ND)\|ND | 26.7 | 35.3\|(40.7) | 132\|(152*) | 26.7 | 33.9\|(38.9) | 127\|(146*) | 4\|(5) | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 4.817\|(4.863) | 90.3\|(91.2) | 5.333 | 4.585\|(4.623) | 86.0\|(86.7) | 50-130 |
| Decachlorobiphenyl | 5.333 | 5.569\|(5.721) | 104\|(107) | 5.333 | 5.534\|(5.735) | 104\|(108) | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 12:50 |
| Sample ID: SL-022-NBZ-SS-0.0-0.5 | Date Analyzed: 03/23/12 06:39 |
| Lab Samp ID: C121-01 | Dilution Factor: 1 |
| Lab File ID: KC21064A | Matrix : SOIL |
| Ext Btch ID: CPC021S | % Moisture : 4.4 |
| Calib. Ref.: KC21056A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1260 | (1.4J)\|2.3 | 1.8 | 0.89\|0.89 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.506)\|3.947 | 5.578 | (98.7)\|70.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.138)\|4.212 | 5.578 | (110)\|75.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 12:50 |
| Sample ID: SL-023-NBZ-SS-0.0-0.5 | Date Analyzed: 03/23/12 07:34 |
| Lab Samp ID: C121-02 | Dilution Factor: 1 |
| Lab File ID: KC21065A | Matrix : SOIL |
| Ext Btch ID: CPC021S | % Moisture : 3.3 |
| Calib. Ref.: KC21056A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1254 | 3.8\|(2.7) | 1.8 | 0.88\|0.88 |
| AROCLOR 1260 | (2.5)\|3.7 | 1.8 | 0.88\|0.88 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 5432 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.4 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.952)\|4.221 | 5.515 | (108)\|76.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.455)\|4.302 | 5.515 | (117)\|78.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 12:50 |
| Sample ID: SL-024-NBZ-SS-0.0-0.5 | Date Analyzed: 03/23/12 09:48 |
| Lab Samp ID: C121-03 | Dilution Factor: 1 |
| Lab File ID: KC21070A | Matrix : SOIL |
| Ext Btch ID: CPC021S | % Moisture : 3.2 |
| Calib. Ref.: KC21056A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 5432 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.4 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.990)\|4.329 | 5.509 | (109)\|78.6 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.614)\|4.109 | 5.509 | (120)\|74.6 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 12:50 |
| Sample ID: SL-030-NBZ-SS-0.0-0.5 | Date Analyzed: 03/23/12 10:43 |
| Lab Samp ID: C121-04 | Dilution Factor: 1 |
| Lab File ID: KC21071A | Matrix : SOIL |
| Ext Btch ID: CPC021S | % Moisture : 2.1 |
| Calib. Ref.: KC21056A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1221 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1232 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1242 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1248 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1254 | 33 \| (27) | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1260 | (17) \| 22 | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1262 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1268 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 5432 | (ND) \| ND | 3.4 | 1.7 \| 1.7 |
| AROCLOR 5442 | (ND) \| ND | 3.4 | 1.7 \| 1.7 |
| AROCLOR 5460 | (14) \| 13 | 3.4 | 1.7 \| 1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.816) \| 4.163 | 5.447 | (107) \| 76.4 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.244) \| 4.007 | 5.447 | (115) \| 73.6 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 12:50 |
| Sample ID: SL-022-NBZ-SB-4.0-5.0 | Date Analyzed: 03/23/12 11:38 |
| Lab Samp ID: C121-06 | Dilution Factor: 1 |
| Lab File ID: KC21072A | Matrix : SOIL |
| Ext Btch ID: CPC021S | % Moisture : 3.8 |
| Calib. Ref.: KC21056A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 5432 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.4 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.908)\|4.457 | 5.544 | (107)\|80.4 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.924)\|4.402 | 5.544 | (107)\|79.4 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 12:50 |
| Sample ID: SL-022-NBZ-SB-9.0-10.0 | Date Analyzed: 03/23/12 12:33 |
| Lab Samp ID: C121-08 | Dilution Factor: 1 |
| Lab File ID: KC21073A | Matrix : SOIL |
| Ext Btch ID: CPC021S | % Moisture : 4.6 |
| Calib. Ref.: KC21056A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.203)\|4.646 | 5.590 | (111)\|83.1 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.464)\|3.970 | 5.590 | (116)\|71.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 12:50 |
| Sample ID: SL-023-NBZ-SB-4.0-5.0 | Date Analyzed: 03/23/12 13:28 |
| Lab Samp ID: C121-10 | Dilution Factor: 1 |
| Lab File ID: KC21074A | Matrix : SOIL |
| Ext Btch ID: CPC021S | % Moisture : 3.3 |
| Calib. Ref.: KC21056A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 5432 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.4 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.178)\|4.609 | 5.515 | (112)\|83.6 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.740)\|4.116 | 5.515 | (122)\|74.6 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 12:50 |
| Sample ID: SL-023-NBZ-SB-8.5-9.5 | Date Analyzed: 03/22/12 19:35 |
| Lab Samp ID: C121-12 | Dilution Factor: 1 |
| Lab File ID: KC21052A | Matrix : SOIL |
| Ext Btch ID: CPC021S | % Moisture : 5.2 |
| Calib. Ref.: KC21038A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.273)\|4.764 | 5.626 | (112)\|84.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.556)\|4.604 | 5.626 | (117)\|81.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 12:50 |
| Sample ID: MBLK1S | Date Analyzed: 03/23/12 03:53 |
| Lab Samp ID: 60C021SB | Dilution Factor: 1 |
| Lab File ID: KC21061A | Matrix : SOIL |
| Ext Btch ID: CPC021S | % Moisture : NA |
| Calib. Ref.: KC21056A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.302)\|4.762 | 5.333 | (118)\|89.3 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.160)\|5.564 | 5.333 | (115)\|104 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60C021SB | 60C021SL | 60C021SC | | |
| LAB FILE ID: | KC21061A | KC21062A | KC21063A | | |
| DATE EXTRACTED: | 03/19/1212:50 | 03/19/1212:50 | 03/19/1212:50 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1203:53 | 03/23/1204:48 | 03/23/1205:43 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | CPC021S | CPC021S | CPC021S | | |
| CALIB. REF: | KC21056A | KC21056A | KC21056A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (64.9)\|54.7 | (97)\|82 | 66.7 | (60.4)\|51.2 | (91)\|77 | (7)\|7 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (75.8)\|64.0 | (114)\|96 | 66.7 | (71.0)\|60.1 | (106)\|90 | (7)\|6 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | (70.7)\|67.3 | (106)\|101 | 66.7 | (73.6)\|69.4 | (110)\|104 | (4)\|3 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | (6.116)\|4.621 | (115)\|86.6 | 5.333 | (5.990)\|4.548 | (112)\|85.3 | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (5.988)\|5.034 | (112)\|94.4 | 5.333 | (5.801)\|4.911 | (109)\|92.1 | 10-160 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 5.2

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-023-NBZ-SB-8.5-9.5 | | | | |
| LAB SAMP ID: | C121-12 | C121-12M | C121-12S | | |
| LAB FILE ID: | KC21052A | KC21053A | KC21054A | | |
| DATE EXTRACTED: | 03/19/1212:50 | 03/19/1212:50 | 03/19/1212:50 | DATE COLLECTED: | 03/14/12 |
| DATE ANALYZED: | 03/22/1219:35 | 03/22/1220:30 | 03/22/1221:26 | DATE RECEIVED: | 03/14/12 |
| PREP. BATCH: | CPC021S | CPC021S | CPC021S | | |
| CALIB. REF: | KC21038A | KC21038A | KC21038A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 70.3 | (70.1)\|51.0 | (100)\|73 | 70.3 | (67.1)\|50.2 | (95)\|71 | (4)\|2 | 20-160 | 50 |
| Aroclor 1260 | (ND)\|ND | 70.3 | (77.2)\|65.2 | (110)\|93 | 70.3 | (75.6)\|63.8 | (107)\|91 | (2)\|2 | 20-160 | 50 |
| Aroclor 5460 | (ND)\|ND | 70.3 | (75.5)\|72.6 | (107)\|103 | 70.3 | (74.3)\|71.8 | (106)\|102 | (2)\|1 | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.626 | (6.220)\|4.706 | (111)\|83.6 | 5.626 | (6.314)\|4.775 | (112)\|84.9 | 45-120 |
| Tetrachloro-m-xylene | 5.626 | (6.581)\|4.242 | (117)\|75.4 | 5.626 | (6.686)\|4.579 | (119)\|81.4 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/24/12 10:54 |
| Sample ID: SL-022-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 12:08 |
| Lab Samp ID: C121-01 | Dilution Factor: 1 |
| Lab File ID: WC26045A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : 4.4 |
| Calib. Ref.: WC26040A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 3.8 | 1.9 \| 1.9 |
| 2,4-DB | (ND) \| ND | 1.8 | 0.89 \| 0.89 |
| 2,4,5-T | 0.33 \| (ND) | 0.18 | 0.089 \| 0.089 |
| 2,4,5-TP(SILVEX) | 1.5 \| (ND) | 0.18 | 0.089 \| 0.089 |
| DALAPON | (ND) \| ND | 9.4 | 4.7 \| 4.7 |
| DICAMBA | (ND) \| 2.4 | 1.3 | 0.63 \| 0.63 |
| DICHLOROPROP | (ND) \| 8.0 | 2.5 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| 2.0 | 1.8 | 0.89 \| 0.89 |
| MCPA | (ND) \| ND | 260 | 130 \| 130 |
| MCPP | (ND) \| ND | 260 | 130 \| 130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (53.79) \| 35.65 | 156.9 | (34.3) \| 22.7 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/24/12 10:54 |
| Sample ID: SL-023-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 12:28 |
| Lab Samp ID: C121-02 | Dilution Factor: 1 |
| Lab File ID: WC26046A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : 3.3 |
| Calib. Ref.: WC26040A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.7 | 1.9\|1.9 |
| 2,4-DB | 1.2J\|(ND) | 1.8 | 0.88\|0.88 |
| 2,4,5-T | (ND)\|ND | 0.18 | 0.088\|0.088 |
| 2,4,5-TP(SILVEX) | (ND)\|1.5 | 0.18 | 0.088\|0.088 |
| DALAPON | (ND)\|ND | 9.3 | 4.7\|4.7 |
| DICAMBA | (ND)\|3.4 | 1.2 | 0.62\|0.62 |
| DICHLOROPROP | 2.6\|(ND) | 2.5 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.8 | 0.88\|0.88 |
| MCPA | (ND)\|ND | 260 | 130\|130 |
| MCPP | (ND)\|ND | 260 | 130\|130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (99.94)\|68.73 | 155.1 | (64.4)\|44.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/24/12 10:54 |
| Sample ID: SL-024-NBZ-SS-0.0-0.5 | Date Analyzed: 03/26/12 23:37 |
| Lab Samp ID: C121-03 | Dilution Factor: 1 |
| Lab File ID: WC26025A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : 3.2 |
| Calib. Ref.: WC26016A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.7 | 1.9\|1.9 |
| 2,4-DB | (ND)\|ND | 1.8 | 0.88\|0.88 |
| 2,4,5-T | (ND)\|ND | 0.18 | 0.088\|0.088 |
| 2,4,5-TP(SILVEX) | 0.54\|(ND) | 0.18 | 0.088\|0.088 |
| DALAPON | (ND)\|ND | 9.3 | 4.6\|4.6 |
| DICAMBA | (ND)\|ND | 1.2 | 0.62\|0.62 |
| DICHLOROPROP | (ND)\|ND | 2.5 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.8 | 0.88\|0.88 |
| MCPA | (ND)\|ND | 260 | 130\|130 |
| MCPP | (ND)\|ND | 260 | 130\|130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (87.16)\|73.92 | 155.0 | (56.2)\|47.7 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/24/12 10:54 |
| Sample ID: SL-030-NBZ-SS-0.0-0.5 | Date Analyzed: 03/26/12 23:58 |
| Lab Samp ID: C121-04 | Dilution Factor: 1 |
| Lab File ID: WC26026A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : 2.1 |
| Calib. Ref.: WC26016A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | 33 \| (ND) | 3.7 | 1.8 \| 1.8 |
| 2,4-DB | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| 2,4,5-T | (ND) \| ND | 0.17 | 0.087 \| 0.087 |
| 2,4,5-TP(SILVEX) | (ND) \| 0.39 | 0.17 | 0.087 \| 0.087 |
| DALAPON | (ND) \| ND | 9.2 | 4.6 \| 4.6 |
| DICAMBA | (ND) \| ND | 1.2 | 0.61 \| 0.61 |
| DICHLOROPROP | 1.4J \| (ND) | 2.5 | 1.2 \| 1.2 |
| DINOSEB | (ND) \| 3.1 | 1.7 | 0.87 \| 0.87 |
| MCPA | (ND) \| ND | 260 | 130 \| 130 |
| MCPP | (ND) \| ND | 260 | 130 \| 130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (68.29) \| 48.73 | 153.2 | (44.6) \| 31.8 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/24/12 |
| Batch No. : 12C121 | Date Extracted: 03/24/12 10:54 |
| Sample ID: MBLK1S | Date Analyzed: 03/26/12 20:56 |
| Lab Samp ID: HEC010SB | Dilution Factor: 1 |
| Lab File ID: WC26017A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : NA |
| Calib. Ref.: WC26016A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (94.05)\|83.92 | 150.0 | (62.7)\|55.9 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HEC010SB | HEC010SL | HEC010SC | | |
| LAB FILE ID: | WC26017A | WC26018A | WC26019A | | |
| DATE EXTRACTED: | 03/24/1210:54 | 03/24/1210:54 | 03/24/1210:54 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/26/1220:56 | 03/26/1221:16 | 03/26/1221:36 | DATE RECEIVED: | 03/24/12 |
| PREP. BATCH: | HEC010S | HEC010S | HEC010S | | |
| CALIB. REF: | WC26016A | WC26016A | WC26016A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | (6.24)\|5.21 | (42)\|35 | 15.0 | (6.67)\|6.36 | (44)\|42 | (7)\|20 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 6.56\|(11.2) | 44\|(75) | 15.0 | 7.46\|(13.4) | 50\|(89) | 13\|(18) | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | 9.58\|(10.5) | 64\|(70) | 15.0 | 10.6\|(12.8) | 71\|(85) | 10\|(20) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 15.0 | (16.2)\|13.6 | (108)\|91 | 15.0 | 15.5\|(18.1) | 103\|(121) | 4\|(28) | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | (10.4)\|9.77 | (69)\|65 | 15.0 | (10.7)\|9.82 | (71)\|65 | (3)\|1 | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (10.6)\|10.1 | (71)\|67 | 15.0 | (11.4)\|11.0 | (76)\|73 | (7)\|9 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | (13.0)\|31.4 | (87)\|209* | 15.0 | (13.5)\|33.0 | (90)\|220* | (4)\|5 | 60-160 | 50 |
| Dinoseb | (ND)\|ND | 15.0 | (11.6)\|10.5 | (77)\|70 | 15.0 | (11.9)\|10.6 | (79)\|71 | (3)\|1 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (805)\|377 | (107)\|50 | 750 | (989)\|394 | (132)\|53 | (21)\|4 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | 355\|(526) | 47\|(70) | 750 | 368\|(562) | 49\|(75) | 4\|(7) | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 (108.8)\|99.46 | (72.5)\|66.3 | 150.0 | (113.9)\|103.9 | (75.9)\|69.2 | 10-150 | |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 19:43 |
| Sample ID: SL-022-NBZ-SS-0.0-0.5 | Date Analyzed: 03/20/12 15:44 |
| Lab Samp ID: C121-01 | Dilution Factor: 1 |
| Lab File ID: XC19035A | Matrix : SOIL |
| Ext Btch ID: EXC012S | % Moisture : NA |
| Calib. Ref.: XC19030A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1850 | 2000 | 92.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 19:43 |
| Sample ID: SL-023-NBZ-SS-0.0-0.5 | Date Analyzed: 03/20/12 16:16 |
| Lab Samp ID: C121-02 | Dilution Factor: .99 |
| Lab File ID: XC19036A | Matrix : SOIL |
| Ext Btch ID: EXC012S | % Moisture : NA |
| Calib. Ref.: XC19030A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1830 | 1980 | 92.4 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 19:43 |
| Sample ID: SL-024-NBZ-SS-0.0-0.5 | Date Analyzed: 03/20/12 16:48 |
| Lab Samp ID: C121-03 | Dilution Factor: 1 |
| Lab File ID: XC19037A | Matrix : SOIL |
| Ext Btch ID: EXC012S | % Moisture : NA |
| Calib. Ref.: XC19030A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1930 | 2000 | 96.3 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 19:43 |
| Sample ID: SL-030-NBZ-SS-0.0-0.5 | Date Analyzed: 03/20/12 17:21 |
| Lab Samp ID: C121-04 | Dilution Factor: 1 |
| Lab File ID: XC19038A | Matrix : SOIL |
| Ext Btch ID: EXC012S | % Moisture : NA |
| Calib. Ref.: XC19030A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1850 | 2000 | 92.4 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 19:43 |
| Sample ID: SL-022-NBZ-SB-4.0-5.0 | Date Analyzed: 03/20/12 17:53 |
| Lab Samp ID: C121-06 | Dilution Factor: .99 |
| Lab File ID: XC19039A | Matrix : SOIL |
| Ext Btch ID: EXC012S | % Moisture : NA |
| Calib. Ref.: XC19030A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1810 | 1980 | 91.4 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 19:43 |
| Sample ID: SL-022-NBZ-SB-9.0-10.0 | Date Analyzed: 03/20/12 18:25 |
| Lab Samp ID: C121-08 | Dilution Factor: .99 |
| Lab File ID: XC19040A | Matrix : SOIL |
| Ext Btch ID: EXC012S | % Moisture : NA |
| Calib. Ref.: XC19030A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1860 | 1980 | 93.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 19:43 |
| Sample ID: SL-023-NBZ-SB-4.0-5.0 | Date Analyzed: 03/20/12 18:57 |
| Lab Samp ID: C121-10 | Dilution Factor: .99 |
| Lab File ID: XC19041A | Matrix : SOIL |
| Ext Btch ID: EXC012S | % Moisture : NA |
| Calib. Ref.: XC19030A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1840 | 1980 | 93.2 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 19:43 |
| Sample ID: SL-023-NBZ-SB-8.5-9.5 | Date Analyzed: 03/20/12 19:29 |
| Lab Samp ID: C121-12 | Dilution Factor: 1 |
| Lab File ID: XC19042A | Matrix : SOIL |
| Ext Btch ID: EXC012S | % Moisture : NA |
| Calib. Ref.: XC19030A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1840 | 2000 | 91.8 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 19:43 |
| Sample ID: MBLK1S | Date Analyzed: 03/20/12 14:08 |
| Lab Samp ID: EXC012SB | Dilution Factor: 1 |
| Lab File ID: XC19032A | Matrix : SOIL |
| Ext Btch ID: EXC012S | % Moisture : NA |
| Calib. Ref.: XC19030A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1890 | 2000 | 94.7 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXC012SB | EXC012SL | EXC012SC | | |
| LAB FILE ID: | XC19032A | XC19033A | XC19034A | | |
| DATE EXTRACTED: | 03/19/1219:43 | 03/19/1219:43 | 03/19/1219:43 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/20/1214:08 | 03/20/1214:40 | 03/20/1215:12 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | EXC012S | EXC012S | EXC012S | | |
| CALIB. REF: | XC19030A | XC19030A | XC19030A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 2270 | 113 | 2000 | 2260 | 113 | 0 | 70-130 | 50 |
| RDX | ND | 2000 | 2170 | 109 | 2000 | 2140 | 107 | 1 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2390 | 120 | 2000 | 2380 | 119 | 1 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2210 | 111 | 2000 | 2130 | 106 | 4 | 70-130 | 50 |
| Tetryl | ND | 2000 | 2470 | 123 | 2000 | 2450 | 123 | 1 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 1900 | 95 | 2000 | 1890 | 95 | 1 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 2180 | 109 | 2000 | 2180 | 109 | 0 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 2180 | 109 | 2000 | 2220 | 111 | 2 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 2140 | 107 | 2000 | 2150 | 107 | 0 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2240 | 112 | 2000 | 2230 | 112 | 1 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2380 | 119 | 2000 | 2270 | 114 | 5 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 2360 | 118 | 2000 | 2320 | 116 | 2 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 2030 | 101 | 2000 | 2040 | 102 | 0 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 2150 | 107 | 2000 | 2250 | 112 | 5 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1740 | 87 | 2000 | 1750 | 88 | 1 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2050 | 103 | 2000 | 2070 | 104 | 1 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1910 | 96 | 2000 | 1840 | 92 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/14/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/14/12 |
| Batch No. | : 12C121 | Date Extracted | : 03/19/12 19:43 |
| Sample ID | : SL-022-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/20/12 17:14 |
| Lab Samp ID | : C121-01 | Dilution Factor | : 1 |
| Lab File ID | : PC20011A | Matrix | : SOIL |
| Ext Btch ID | : EXC012S | % Moisture | : NA |
| Calib. Ref. | : PC20007A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2630 | 2000 | 132 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/14/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/14/12 |
| Batch No. | : 12C121 | Date Extracted | : 03/19/12 19:43 |
| Sample ID | : SL-023-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/20/12 17:42 |
| Lab Samp ID | : C121-02 | Dilution Factor | : .99 |
| Lab File ID | : PC20013A | Matrix | : SOIL |
| Ext Btch ID | : EXC012S | % Moisture | : NA |
| Calib. Ref. | : PC20007A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2430 | 1980 | 123 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/14/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/14/12 |
| Batch No. | : 12C121 | Date Extracted | : 03/19/12 19:43 |
| Sample ID | : SL-024-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/20/12 17:56 |
| Lab Samp ID | : C121-03 | Dilution Factor | : 1 |
| Lab File ID | : PC20014A | Matrix | : SOIL |
| Ext Btch ID | : EXC012S | % Moisture | : NA |
| Calib. Ref. | : PC20007A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2490 | 2000 | 124 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 19:43 |
| Sample ID: SL-030-NBZ-SS-0.0-0.5 | Date Analyzed: 03/20/12 18:09 |
| Lab Samp ID: C121-04 | Dilution Factor: 1 |
| Lab File ID: PC20015A | Matrix : SOIL |
| Ext Btch ID: EXC012S | % Moisture : NA |
| Calib. Ref.: PC20007A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2400 | 2000 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/14/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/14/12 |
| Batch No. | : 12C121 | Date Extracted | : 03/19/12 19:43 |
| Sample ID | : SL-022-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/20/12 18:23 |
| Lab Samp ID | : C121-06 | Dilution Factor | : .99 |
| Lab File ID | : PC20016A | Matrix | : SOIL |
| Ext Btch ID | : EXC012S | % Moisture | : NA |
| Calib. Ref. | : PC20007A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2340 | 1980 | 118 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/14/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/14/12 |
| Batch No. | : 12C121 | Date Extracted | : 03/19/12 19:43 |
| Sample ID | : SL-022-NBZ-SB-9.0-10.0 | Date Analyzed | : 03/20/12 18:37 |
| Lab Samp ID | : C121-08 | Dilution Factor | : .99 |
| Lab File ID | : PC20017A | Matrix | : SOIL |
| Ext Btch ID | : EXC012S | % Moisture | : NA |
| Calib. Ref. | : PC20007A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2430 | 1980 | 123 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 19:43 |
| Sample ID: SL-023-NBZ-SB-4.0-5.0 | Date Analyzed: 03/20/12 18:51 |
| Lab Samp ID: C121-10 | Dilution Factor: .99 |
| Lab File ID: PC20018A | Matrix : SOIL |
| Ext Btch ID: EXC012S | % Moisture : NA |
| Calib. Ref.: PC20007A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2380 | 1980 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/14/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/14/12 |
| Batch No. | : 12C121 | Date Extracted | : 03/19/12 19:43 |
| Sample ID | : SL-023-NBZ-SB-8.5-9.5 | Date Analyzed | : 03/20/12 19:19 |
| Lab Samp ID | : C121-12 | Dilution Factor | : 1 |
| Lab File ID | : PC20020A | Matrix | : SOIL |
| Ext Btch ID | : EXC012S | % Moisture | : NA |
| Calib. Ref. | : PC20019A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2390 | 2000 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C121 | Date Extracted: 03/19/12 19:43 |
| Sample ID: MBLK1S | Date Analyzed: 03/20/12 16:32 |
| Lab Samp ID: EXC012SB | Dilution Factor: 1 |
| Lab File ID: PC20008A | Matrix : SOIL |
| Ext Btch ID: EXC012S | % Moisture : NA |
| Calib. Ref.: PC20007A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2550 | 2000 | 127 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXC012SB | EXC012SX | EXC012SY | | |
| LAB FILE ID: | PC20008A | PC20009A | PC20010A | | |
| DATE EXTRACTED: | 03/19/1219:43 | 03/19/1219:43 | 03/19/1219:43 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/20/1216:32 | 03/20/1216:46 | 03/20/1217:00 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | EXC012S | EXC012S | EXC012S | | |
| CALIB. REF: | PC20007A | PC20007A | PC20007A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7320 | 98 | 7500 | 7990 | 107 | 9 | 50-150 | 50 |
| PETN | ND | 7500 | 7870 | 105 | 7500 | 8050 | 107 | 2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2400 | 120 | 2000 | 2460 | 123 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| SDG NO. : 12C121 | Date Extracted: 03/20/12 14:43 |
| Sample ID: SL-022-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 18:14 # 03/22/12 19:52 |
| Lab Samp ID: C121-01 #C121-01W | Dilution Factor: 0.940 |
| Lab File ID: 98C08032 #98C09034 | Matrix : SOIL |
| Ext Btch ID: IMC021S | % Moisture : 4.4 |
| Calib. Ref.: 98C08028 #98C09030 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| # Aluminum | 8650 | 23.6 | 11.8 |
| # Antimony | 0.180J | 0.197 | 0.0983 |
| # Arsenic | 3.17 | 0.393 | 0.197 |
| # Barium | 81.1 | 0.393 | 0.197 |
| # Beryllium | 0.368 | 0.0983 | 0.0492 |
| Boron | 3.12J | 4.92 | 2.46 |
| # Cadmium | 0.142 | 0.0983 | 0.0492 |
| # Calcium | 4030 | 19.7 | 9.83 |
| # Chromium | 13.4 | 0.393 | 0.197 |
| # Cobalt | 4.21 | 0.0983 | 0.0492 |
| # Copper | 7.58 | 0.393 | 0.197 |
| # Iron | 16500 | 19.7 | 9.83 |
| # Lead | 5.96 | 0.197 | 0.0983 |
| # Magnesium | 4250 | 9.83 | 4.92 |
| # Manganese | 225 | 0.492 | 0.246 |
| # Molybdenum | 0.324 | 0.0983 | 0.0492 |
| # Nickel | 8.35 | 0.393 | 0.197 |
| # Potassium | 3370 | 59.0 | 29.5 |
| # Selenium | ND | 0.393 | 0.197 |
| # Silver | ND | 0.0983 | 0.0492 |
| # Sodium | 58.6J | 98.3 | 49.2 |
| # Strontium | 15.6 | 0.492 | 0.246 |
| # Thallium | 0.219 | 0.0983 | 0.0492 |
| # Tin | ND | 9.83 | 4.92 |
| # Titanium | 827 | 0.983 | 0.492 |
| # Vanadium | 26.2 | 0.0983 | 0.0492 |
| # Zinc | 52.6 | 2.95 | 1.47 |
| # Lithium | 22.7 | 1.97 | 0.983 |
| # Phosphorus | 416 | 11.8 | 5.90 |
| # Zirconium | ND | 4.92 | 2.46 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
SDG NO. : 12C121
Sample ID: SL-023-NBZ-SS-0.0-0.5
Lab Samp ID: C121-02 #C121-02W
Lab File ID: 98C08033 #98C09035
Ext Btch ID: IMC021S
Calib. Ref.: 98C08028 #98C09030

Date Collected: 03/14/12
Date Received: 03/14/12
Date Extracted: 03/20/12 14:43
Date Analyzed: 03/21/12 18:21 # 03/22/12 19:59
Dilution Factor: 0.978
Matrix : SOIL
% Moisture : 3.3
Instrument ID : T-I98

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| # Aluminum | 9860 | 24.3 | 12.1 |
| # Antimony | 0.179J | 0.202 | 0.101 |
| # Arsenic | 3.00 | 0.405 | 0.202 |
| # Barium | 90.5 | 0.405 | 0.202 |
| # Beryllium | 0.433 | 0.101 | 0.0506 |
| Boron | ND | 5.06 | 2.53 |
| # Cadmium | 0.214 | 0.101 | 0.0506 |
| # Calcium | 2730 | 20.2 | 10.1 |
| # Chromium | 12.8 | 0.405 | 0.202 |
| # Cobalt | 4.80 | 0.101 | 0.0506 |
| # Copper | 6.78 | 0.405 | 0.202 |
| # Iron | 18600 | 20.2 | 10.1 |
| # Lead | 8.64 | 0.202 | 0.101 |
| # Magnesium | 4440 | 10.1 | 5.06 |
| # Manganese | 264 | 0.506 | 0.253 |
| # Molybdenum | 0.361 | 0.101 | 0.0506 |
| # Nickel | 8.39 | 0.405 | 0.202 |
| # Potassium | 4140 | 60.7 | 30.3 |
| # Selenium | ND | 0.405 | 0.202 |
| # Silver | 0.0593J | 0.101 | 0.0506 |
| # Sodium | 68.8J | 101 | 50.6 |
| # Strontium | 12.1 | 0.506 | 0.253 |
| # Thallium | 0.281 | 0.101 | 0.0506 |
| # Tin | ND | 10.1 | 5.06 |
| # Titanium | 1070 | 1.01 | 0.506 |
| # Vanadium | 27.4 | 0.101 | 0.0506 |
| # Zinc | 74.4 | 3.03 | 1.52 |
| # Lithium | 25.5 | 2.02 | 1.01 |
| # Phosphorus | 404 | 12.1 | 6.07 |
| # Zirconium | ND | 5.06 | 2.53 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| SDG NO. : 12C121 | Date Extracted: 03/20/12 14:43 |
| Sample ID: SL-024-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 18:28 # 03/22/12 20:06 |
| Lab Samp ID: C121-03 #C121-03W | Dilution Factor: 0.935 |
| Lab File ID: 98C08034 #98C09036 | Matrix : SOIL |
| Ext Btch ID: IMC021S | % Moisture : 3.2 |
| Calib. Ref.: 98C08028 #98C09030 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| # Aluminum | 8400 | 23.2 | 11.6 |
| # Antimony | 0.218 | 0.193 | 0.0966 |
| # Arsenic | 3.31 | 0.386 | 0.193 |
| # Barium | 60.9 | 0.386 | 0.193 |
| # Beryllium | 0.402 | 0.0966 | 0.0483 |
| Boron | ND | 4.83 | 2.41 |
| # Cadmium | 0.0991 | 0.0966 | 0.0483 |
| # Calcium | 2720 | 19.3 | 9.66 |
| # Chromium | 15.8 | 0.386 | 0.193 |
| # Cobalt | 5.56 | 0.0966 | 0.0483 |
| # Copper | 6.77 | 0.386 | 0.193 |
| # Iron | 18500 | 19.3 | 9.66 |
| # Lead | 3.95 | 0.193 | 0.0966 |
| # Magnesium | 4600 | 9.66 | 4.83 |
| # Manganese | 257 | 0.483 | 0.241 |
| # Molybdenum | 0.434 | 0.0966 | 0.0483 |
| # Nickel | 8.38 | 0.386 | 0.193 |
| # Potassium | 1910 | 58.0 | 29.0 |
| # Selenium | 0.481 | 0.386 | 0.193 |
| # Silver | ND | 0.0966 | 0.0483 |
| # Sodium | 149 | 96.6 | 48.3 |
| # Strontium | 14.3 | 0.483 | 0.241 |
| # Thallium | 0.208 | 0.0966 | 0.0483 |
| # Tin | ND | 9.66 | 4.83 |
| # Titanium | 866 | 0.966 | 0.483 |
| # Vanadium | 31.3 | 0.0966 | 0.0483 |
| # Zinc | 44.7 | 2.90 | 1.45 |
| # Lithium | 13.5 | 1.93 | 0.966 |
| # Phosphorus | 311 | 11.6 | 5.80 |
| # Zirconium | ND | 4.83 | 2.41 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| SDG NO. : 12C121 | Date Extracted: 03/20/12 14:43 |
| Sample ID: SL-030-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 18:35 # 03/22/12 20:13 |
| Lab Samp ID: C121-04 #C121-04W | Dilution Factor: 0.962 |
| Lab File ID: 98C08035 #98C09037 | Matrix : SOIL |
| Ext Btch ID: IMC021S | % Moisture : 2.1 |
| Calib. Ref.: 98C08028 #98C09030 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| # Aluminum | 9910 | 23.6 | 11.8 |
| # Antimony | 0.548 | 0.197 | 0.0983 |
| # Arsenic | 11.9 | 0.393 | 0.197 |
| # Barium | 77.6 | 0.393 | 0.197 |
| # Beryllium | 0.477 | 0.0983 | 0.0491 |
| Boron | ND | 4.91 | 2.46 |
| # Cadmium | 0.348 | 0.0983 | 0.0491 |
| # Calcium | 4020 | 19.7 | 9.83 |
| # Chromium | 18.1 | 0.393 | 0.197 |
| # Cobalt | 10.3 | 0.0983 | 0.0491 |
| # Copper | 19.2 | 0.393 | 0.197 |
| # Iron | 31900 | 19.7 | 9.83 |
| # Lead | 14.7 | 0.197 | 0.0983 |
| # Magnesium | 4450 | 9.83 | 4.91 |
| # Manganese | 256 | 0.491 | 0.246 |
| # Molybdenum | 0.911 | 0.0983 | 0.0491 |
| # Nickel | 13.1 | 0.393 | 0.197 |
| # Potassium | 2940 | 59.0 | 29.5 |
| # Selenium | ND | 0.393 | 0.197 |
| # Silver | 0.0616J | 0.0983 | 0.0491 |
| # Sodium | 107 | 98.3 | 49.1 |
| # Strontium | 13.8 | 0.491 | 0.246 |
| # Thallium | 0.217 | 0.0983 | 0.0491 |
| # Tin | ND | 9.83 | 4.91 |
| # Titanium | 790 | 0.983 | 0.491 |
| # Vanadium | 42.5 | 0.0983 | 0.0491 |
| # Zinc | 66.3 | 2.95 | 1.47 |
| # Lithium | 21.2 | 1.97 | 0.983 |
| # Phosphorus | 695 | 11.8 | 5.90 |
| # Zirconium | ND | 4.91 | 2.46 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| SDG NO. : 12C121 | Date Extracted: 03/20/12 14:43 |
| Sample ID: SL-022-NBZ-SB-4.0-5.0 | Date Analyzed: 03/21/12 18:42 # 03/22/12 20:20 |
| Lab Samp ID: C121-06 #C121-06W | Dilution Factor: 0.988 |
| Lab File ID: 98C08036 #98C09038 | Matrix : SOIL |
| Ext Btch ID: IMC021S | % Moisture : 3.8 |
| Calib. Ref.: 98C08028 #98C09030 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| # Aluminum | 8740 | 24.6 | 12.3 |
| # Antimony | 0.121J | 0.205 | 0.103 |
| # Arsenic | 2.32 | 0.411 | 0.205 |
| # Barium | 73.1 | 0.411 | 0.205 |
| # Beryllium | 0.369 | 0.103 | 0.0514 |
| Boron | ND | 5.14 | 2.57 |
| # Cadmium | 0.112 | 0.103 | 0.0514 |
| # Calcium | 2400 | 20.5 | 10.3 |
| # Chromium | 10.2 | 0.411 | 0.205 |
| # Cobalt | 3.92 | 0.103 | 0.0514 |
| # Copper | 4.62 | 0.411 | 0.205 |
| # Iron | 17700 | 20.5 | 10.3 |
| # Lead | 3.17 | 0.205 | 0.103 |
| # Magnesium | 3770 | 10.3 | 5.14 |
| # Manganese | 251 | 0.514 | 0.257 |
| # Molybdenum | 0.306 | 0.103 | 0.0514 |
| # Nickel | 6.17 | 0.411 | 0.205 |
| # Potassium | 3010 | 61.6 | 30.8 |
| # Selenium | ND | 0.411 | 0.205 |
| # Silver | ND | 0.103 | 0.0514 |
| # Sodium | 78.4J | 103 | 51.4 |
| # Strontium | 11.6 | 0.514 | 0.257 |
| # Thallium | 0.225 | 0.103 | 0.0514 |
| # Tin | ND | 10.3 | 5.14 |
| # Titanium | 948 | 1.03 | 0.514 |
| # Vanadium | 23.5 | 0.103 | 0.0514 |
| # Zinc | 56.2 | 3.08 | 1.54 |
| # Lithium | 27.1 | 2.05 | 1.03 |
| # Phosphorus | 309 | 12.3 | 6.16 |
| # Zirconium | ND | 5.14 | 2.57 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| SDG NO. : 12C121 | Date Extracted: 03/20/12 14:43 |
| Sample ID: SL-022-NBZ-SB-9.0-10.0 | Date Analyzed: 03/21/12 18:49 # 03/22/12 20:27 |
| Lab Samp ID: C121-08 #C121-08W | Dilution Factor: 0.985 |
| Lab File ID: 98C08037 #98C09039 | Matrix : SOIL |
| Ext Btch ID: IMC021S | % Moisture : 4.6 |
| Calib. Ref.: 98C08028 #98C09030 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| # Aluminum | 11600 | 24.8 | 12.4 |
| # Antimony | 0.184J | 0.206 | 0.103 |
| # Arsenic | 3.93 | 0.413 | 0.206 |
| # Barium | 62.8 | 0.413 | 0.206 |
| # Beryllium | 0.526 | 0.103 | 0.0516 |
| Boron | ND | 5.16 | 2.58 |
| # Cadmium | 0.110 | 0.103 | 0.0516 |
| # Calcium | 1700 | 20.6 | 10.3 |
| # Chromium | 14.4 | 0.413 | 0.206 |
| # Cobalt | 5.21 | 0.103 | 0.0516 |
| # Copper | 5.44 | 0.413 | 0.206 |
| # Iron | 18500 | 20.6 | 10.3 |
| # Lead | 4.24 | 0.206 | 0.103 |
| # Magnesium | 4210 | 10.3 | 5.16 |
| # Manganese | 282 | 0.516 | 0.258 |
| # Molybdenum | 0.459 | 0.103 | 0.0516 |
| # Nickel | 8.38 | 0.413 | 0.206 |
| # Potassium | 2990 | 61.9 | 31.0 |
| # Selenium | ND | 0.413 | 0.206 |
| # Silver | ND | 0.103 | 0.0516 |
| # Sodium | 82.9J | 103 | 51.6 |
| # Strontium | 11.9 | 0.516 | 0.258 |
| # Thallium | 0.231 | 0.103 | 0.0516 |
| # Tin | ND | 10.3 | 5.16 |
| # Titanium | 948 | 1.03 | 0.516 |
| # Vanadium | 30.4 | 0.103 | 0.0516 |
| # Zinc | 42.5 | 3.10 | 1.55 |
| # Lithium | 19.3 | 2.06 | 1.03 |
| # Phosphorus | 186 | 12.4 | 6.19 |
| # Zirconium | ND | 5.16 | 2.58 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/14/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/14/12 |
| SDG NO. : 12C121 | Date Extracted: 03/20/12 14:43 |
| Sample ID: SL-023-NBZ-SB-4.0-5.0 | Date Analyzed: 03/21/12 18:55 # 03/22/12 20:34 |
| Lab Samp ID: C121-10 #C121-10W | Dilution Factor: 0.930 |
| Lab File ID: 98C08038 #98C09040 | Matrix : SOIL |
| Ext Btch ID: IMC021S | % Moisture : 3.3 |
| Calib. Ref.: 98C08028 #98C09030 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| # Aluminum | 8910 | 23.1 | 11.5 |
| # Antimony | 0.137J | 0.192 | 0.0962 |
| # Arsenic | 2.71 | 0.385 | 0.192 |
| # Barium | 73.7 | 0.385 | 0.192 |
| # Beryllium | 0.388 | 0.0962 | 0.0481 |
| Boron | ND | 4.81 | 2.40 |
| # Cadmium | 0.103 | 0.0962 | 0.0481 |
| # Calcium | 3000 | 19.2 | 9.62 |
| # Chromium | 11.4 | 0.385 | 0.192 |
| # Cobalt | 4.19 | 0.0962 | 0.0481 |
| # Copper | 4.81 | 0.385 | 0.192 |
| # Iron | 17600 | 19.2 | 9.62 |
| # Lead | 3.21 | 0.192 | 0.0962 |
| # Magnesium | 4090 | 9.62 | 4.81 |
| # Manganese | 240 | 0.481 | 0.240 |
| # Molybdenum | 0.296 | 0.0962 | 0.0481 |
| # Nickel | 7.26 | 0.385 | 0.192 |
| # Potassium | 2790 | 57.7 | 28.9 |
| # Selenium | ND | 0.385 | 0.192 |
| # Silver | ND | 0.0962 | 0.0481 |
| # Sodium | 70.3J | 96.2 | 48.1 |
| # Strontium | 11.2 | 0.481 | 0.240 |
| # Thallium | 0.231 | 0.0962 | 0.0481 |
| # Tin | ND | 9.62 | 4.81 |
| # Titanium | 940 | 0.962 | 0.481 |
| # Vanadium | 25.6 | 0.0962 | 0.0481 |
| # Zinc | 51.4 | 2.89 | 1.44 |
| # Lithium | 25.8 | 1.92 | 0.962 |
| # Phosphorus | 310 | 11.5 | 5.77 |
| # Zirconium | ND | 4.81 | 2.40 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
SDG NO. : 12C121
Sample ID: SL-023-NBZ-SB-8.5-9.5
Lab Samp ID: C121-12 #C121-12W
Lab File ID: 98C08039 #98C09045
Ext Btch ID: IMC021S
Calib. Ref.: 98C08028 #98C09042

Date Collected: 03/14/12
Date Received: 03/14/12
Date Extracted: 03/20/12 14:43
Date Analyzed: 03/21/12 19:02 # 03/22/12 21:08
Dilution Factor: 0.985
Matrix : SOIL
% Moisture : 5.2
Instrument ID : T-I98

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| # Aluminum | 11100 | 24.9 | 12.5 |
| # Antimony | 0.162J | 0.208 | 0.104 |
| # Arsenic | 4.08 | 0.416 | 0.208 |
| # Barium | 69.0 | 0.416 | 0.208 |
| # Beryllium | 0.566 | 0.104 | 0.0520 |
| Boron | ND | 5.20 | 2.60 |
| # Cadmium | 0.0979J | 0.104 | 0.0520 |
| # Calcium | 2520 | 20.8 | 10.4 |
| # Chromium | 16.6 | 0.416 | 0.208 |
| # Cobalt | 5.29 | 0.104 | 0.0520 |
| # Copper | 5.37 | 0.416 | 0.208 |
| # Iron | 20500 | 20.8 | 10.4 |
| # Lead | 4.62 | 0.208 | 0.104 |
| # Magnesium | 4450 | 10.4 | 5.20 |
| # Manganese | 230 | 0.520 | 0.260 |
| # Molybdenum | 0.649 | 0.104 | 0.0520 |
| # Nickel | 8.26 | 0.416 | 0.208 |
| # Potassium | 1490 | 62.3 | 31.2 |
| # Selenium | ND | 0.416 | 0.208 |
| # Silver | ND | 0.104 | 0.0520 |
| # Sodium | 72.3J | 104 | 52.0 |
| # Strontium | 18.4 | 0.520 | 0.260 |
| # Thallium | 0.253 | 0.104 | 0.0520 |
| # Tin | ND | 10.4 | 5.20 |
| # Titanium | 1010 | 1.04 | 0.520 |
| # Vanadium | 33.4 | 0.104 | 0.0520 |
| # Zinc | 43.8 | 3.12 | 1.56 |
| # Lithium | 21.8 | 2.08 | 1.04 |
| # Phosphorus | 108 | 12.5 | 6.23 |
| # Zirconium | ND | 5.20 | 2.60 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| SDG NO. : 12C121 | Date Extracted: 03/20/12 14:43 |
| Sample ID: MBLK1S | Date Analyzed: 03/22/12 18:16 |
| Lab Samp ID: IMC021SQ | Dilution Factor: 1 |
| Lab File ID: 98C09020 | Matrix : SOIL |
| Ext Btch ID: IMC021S | % Moisture : NA |
| Calib. Ref.: 98C09018 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron^ | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

^ : Analyzed at DF 1 on 03/21/12 16:45 | File ID 98C08019

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C121
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IMC021SQ | IMC021SX | IMC021SY | | |
| LAB FILE ID: | 98C09020 | 98C09021 | 98C09022 | | |
| DATIME EXTRCTD: | 03/20/1214:43 | 03/20/1214:43 | 03/20/1214:43 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 03/22/1218:16 | 03/22/1218:23 | 03/22/1218:30 | DATE RECEIVED: | 03/20/12 |
| PREP. BATCH: | IMC021S | IMC021S | IMC021S | | |
| CALIB. REF: | 98C09018 | 98C09018 | 98C09018 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2390 | 96 | 2500 | 2410 | 97 | 1 | 80-120 | 20 |
| Antimony | ND | 25.0 | 25.4 | 102 | 25.0 | 25.8 | 103 | 2 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 24.2 | 97 | 25.0 | 24.7 | 99 | 2 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.0 | 100 | 25.0 | 25.5 | 102 | 2 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 26.3 | 105 | 25.0 | 26.5 | 106 | 1 | 80-120 | 20 |
| Boron^ | ND | 25.0 | 24.8 | 99 | 25.0 | 25.6 | 102 | 3 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 24.4 | 97 | 25.0 | 24.8 | 99 | 2 | 80-120 | 20 |
| Calcium | ND | 2500 | 2610 | 104 | 2500 | 2650 | 106 | 2 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.5 | 98 | 25.0 | 24.8 | 99 | 1 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 25.1 | 100 | 25.0 | 24.8 | 99 | 1 | 80-120 | 20 |
| Copper | ND | 25.0 | 24.4 | 97 | 25.0 | 24.7 | 99 | 1 | 80-120 | 20 |
| Iron | ND | 2500 | 2580 | 103 | 2500 | 2600 | 104 | 1 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.4 | 102 | 25.0 | 25.7 | 103 | 1 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2380 | 95 | 2500 | 2410 | 96 | 1 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.6 | 102 | 25.0 | 25.5 | 102 | 0 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 24.3 | 97 | 25.0 | 24.6 | 99 | 1 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.2 | 97 | 25.0 | 24.5 | 98 | 1 | 80-120 | 20 |
| Potassium | ND | 2500 | 2530 | 101 | 2500 | 2580 | 103 | 2 | 80-120 | 20 |
| Selenium | ND | 25.0 | 23.9 | 96 | 25.0 | 24.5 | 98 | 2 | 80-120 | 20 |
| Silver | ND | 25.0 | 24.6 | 98 | 25.0 | 25.2 | 101 | 2 | 80-120 | 20 |
| Sodium | ND | 2500 | 2460 | 98 | 2500 | 2510 | 100 | 2 | 80-120 | 20 |
| Strontium | ND | 25.0 | 25.4 | 102 | 25.0 | 25.7 | 103 | 1 | 80-120 | 20 |
| Thallium | ND | 25.0 | 25.3 | 101 | 25.0 | 25.2 | 101 | 0 | 80-120 | 20 |
| Tin | ND | 25.0 | 27.1 | 108 | 25.0 | 27.4 | 109 | 1 | 80-120 | 20 |
| Titanium | ND | 25.0 | 25.2 | 101 | 25.0 | 25.1 | 100 | 1 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 24.5 | 98 | 25.0 | 24.8 | 99 | 1 | 80-120 | 20 |
| Zinc | ND | 50.0 | 47.0 | 94 | 50.0 | 47.9 | 96 | 2 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.7 | 103 | 25.0 | 25.8 | 103 | 0 | 80-120 | 20 |
| Phosphorus | ND | 250 | 232 | 93 | 250 | 234 | 94 | 1 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 25.3 | 101 | 25.0 | 25.4 | 102 | 1 | 80-120 | 20 |

^ IMC021SX/SY: Analyzed at DF 1 on 03/21/12 16:52/16:59 | File ID 98C08020/21

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C121
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 8.9
DILTN FACTR: 0.988 0.988
SAMPLE ID: SL-068-NBZ-SB-2.5-3.5RE
CONTROL NO.: C156-04W C156-04A
LAB FILE ID: 98C09026 98C09025
DATIME EXTRCTD: 03/20/1214:43 03/20/1214:43 DATE COLLECTED: 03/16/12
DATIME ANALYZD: 03/22/1218:57 03/22/1218:50 DATE RECEIVED: 03/16/12
PREP. BATCH: IMC021S IMC021S
CALIB. REF: 98C09018 98C09018

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 11900 | 2710 | 14500 | 96 | 75-125 |
| Antimony | 0.145J | 27.1 | 27.7 | 102 | 75-125 |
| Arsenic | 5.87 | 27.1 | 30.9 | 92 | 75-125 |
| Barium | 53.8 | 27.1 | 81.6 | 103 | 75-125 |
| Beryllium | 0.647 | 27.1 | 27.9 | 101 | 75-125 |
| Boron^ | ND | 27.1 | 25.7 | 95 | 75-125 |
| Cadmium | 0.0747J | 27.1 | 26.3 | 97 | 75-125 |
| Calcium | 1530 | 2710 | 4170 | 97 | 75-125 |
| Chromium | 12.4 | 27.1 | 36.7 | 90 | 75-125 |
| Cobalt | 4.42 | 27.1 | 28.9 | 90 | 75-125 |
| Copper | 3.85 | 27.1 | 27.5 | 87 | 75-125 |
| Iron | 20000 | 2710 | 22600 | 95 | 75-125 |
| Lead | 4.58 | 27.1 | 31.2 | 98 | 75-125 |
| Magnesium | 3570 | 2710 | 6000 | 90 | 75-125 |
| Manganese | 163 | 27.1 | 184 | 81 | 75-125 |
| Molybdenum | 0.434 | 27.1 | 26.8 | 97 | 75-125 |
| Nickel | 5.10 | 27.1 | 28.9 | 88 | 75-125 |
| Potassium | 1590 | 2710 | 4250 | 98 | 75-125 |
| Selenium | ND | 27.1 | 25.8 | 95 | 75-125 |
| Silver | ND | 27.1 | 26.1 | 96 | 75-125 |
| Sodium | 105J | 2710 | 2610 | 92 | 75-125 |
| Strontium | 13.7 | 27.1 | 40.4 | 99 | 75-125 |
| Thallium | 0.348 | 27.1 | 27.0 | 98 | 75-125 |
| Tin | ND | 27.1 | 30.2 | 112 | 75-125 |
| Titanium | 832 | 27.1 | 852 | 76 | 75-125 |
| Vanadium | 30.5 | 27.1 | 54.6 | 89 | 75-125 |
| Zinc | 38.8 | 54.2 | 87.7 | 90 | 75-125 |
| Lithium | 16.8 | 27.1 | 45.3 | 105 | 75-125 |
| Phosphorus | 130 | 271 | 367 | 88 | 75-125 |
| Zirconium | ND | 27.1 | 23.4 | 86 | 75-125 |

^ C156-04A: Analyzed at DF 0.988 on 03/21/12 17:19 | File ID 98C08024

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 8.9

| | | |
|---|---|---|
| DILUTION FACTOR: | 0.988 | 4.94 |
| SAMPLE ID: | SL-068-NBZ-SB- | SL-068-NBZ-SB- |
| EMAX SAMP ID: | C156-04W | C156-04J |
| LAB FILE ID: | 98C09026 | 98C09027 |
| DATE EXTRACTED: | 03/20/1214:43 | 03/20/1214:43 |
| DATE ANALYZED: | 03/22/1218:57 | 03/22/1219:04 |
| PREP. BATCH: | IMC021S | IMC021S |
| CALIB. REF: | 98C09018 | 98C09018 |

DATE COLLECTED: 03/16/12
DATE RECEIVED: 03/16/12

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 11900 | 12500 | 5 | 10 |
| Antimony | 0.145J | ND | NA | 10 |
| Arsenic | 5.87 | 6.34 | 8 | 10 |
| Barium | 53.8 | 54.0 | 0 | 10 |
| Beryllium | 0.647 | 0.638 | 1 | 10 |
| Boron^ | ND | ND | 0 | 10 |
| Cadmium | 0.0747J | ND | NA | 10 |
| Calcium | 1530 | 1680 | 10 | 10 |
| Chromium | 12.4 | 12.9 | 4 | 10 |
| Cobalt | 4.42 | 4.79 | 8 | 10 |
| Copper | 3.85 | 4.21 | 9 | 10 |
| Iron | 20000 | 21400 | 7 | 10 |
| Lead | 4.58 | 4.65 | 2 | 10 |
| Magnesium | 3570 | 3700 | 4 | 10 |
| Manganese | 163 | 178 | 9 | 10 |
| Molybdenum | 0.434 | 0.462J | NA | 10 |
| Nickel | 5.10 | 5.44 | 7 | 10 |
| Potassium | 1590 | 1670 | 5 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | 105J | ND | NA | 10 |
| Strontium | 13.7 | 13.8 | 1 | 10 |
| Thallium | 0.348 | 0.516J | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 832 | 839 | 1 | 10 |
| Vanadium | 30.5 | 31.5 | 3 | 10 |
| Zinc | 38.8 | 40.8 | 5 | 10 |
| Lithium | 16.8 | 16.7 | 1 | 10 |
| Phosphorus | 130 | 139 | 7 | 10 |
| Zirconium | ND | ND | 0 | 10 |

^ C156-04W/J : Analyzed at DF 0.988/4.94 on 03/21/12 17:26/17:33 | File ID 98C08025/26

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C121

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGC016SB | ND | 1 | NA | 0.100 | 0.0500 | 03/20/1217:26 | 03/20/1212:10 | M47C014010 | M47C014008 | HGC016S | NA | 03/20/12 |
| LCS1S | HGC016SL | 0.850 | 1 | NA | 0.100 | 0.0500 | 03/20/1217:28 | 03/20/1212:10 | M47C014011 | M47C014008 | HGC016S | NA | 03/20/12 |
| LCD1S | HGC016SC | 0.847 | 1 | NA | 0.100 | 0.0500 | 03/20/1217:30 | 03/20/1212:10 | M47C014012 | M47C014008 | HGC016S | NA | 03/20/12 |
| SL-022-NBZ-SS-0.0-0.5 | C121-01 | ND | 0.995 | 4.4 | 0.104 | 0.0520 | 03/20/1217:56 | 03/20/1212:10 | M47C014024 | M47C014020 | HGC016S | 03/14/12 | 03/14/12 |
| SL-023-NBZ-SS-0.0-0.5 | C121-02 | ND | 0.988 | 3.3 | 0.102 | 0.0511 | 03/20/1217:58 | 03/20/1212:10 | M47C014025 | M47C014020 | HGC016S | 03/14/12 | 03/14/12 |
| SL-024-NBZ-SS-0.0-0.5 | C121-03 | ND | 0.988 | 3.2 | 0.102 | 0.0510 | 03/20/1218:00 | 03/20/1212:10 | M47C014026 | M47C014020 | HGC016S | 03/14/12 | 03/14/12 |
| SL-030-NBZ-SS-0.0-0.5 | C121-04 | ND | 0.987 | 2.1 | 0.101 | 0.0504 | 03/20/1218:02 | 03/20/1212:10 | M47C014027 | M47C014020 | HGC016S | 03/14/12 | 03/14/12 |
| SL-022-NBZ-SB-4.0-5.0 | C121-06 | ND | 1.00 | 3.8 | 0.104 | 0.0520 | 03/20/1218:04 | 03/20/1212:10 | M47C014028 | M47C014020 | HGC016S | 03/14/12 | 03/14/12 |
| SL-022-NBZ-SB-9.0-10.0 | C121-08 | ND | 0.997 | 4.6 | 0.105 | 0.0523 | 03/20/1218:06 | 03/20/1212:10 | M47C014029 | M47C014020 | HGC016S | 03/14/12 | 03/14/12 |
| SL-023-NBZ-SB-4.0-5.0 | C121-10 | ND | 0.993 | 3.3 | 0.103 | 0.0513 | 03/20/1218:08 | 03/20/1212:10 | M47C014030 | M47C014020 | HGC016S | 03/14/12 | 03/14/12 |
| SL-023-NBZ-SB-8.5-9.5 | C121-12 | ND | 0.990 | 5.2 | 0.104 | 0.0522 | 03/20/1218:10 | 03/20/1212:10 | M47C014031 | M47C014020 | HGC016S | 03/14/12 | 03/14/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C121
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGC016SB | HGC016SL | HGC016SC | | |
| LAB FILE ID: | M47C014010 | M47C014011 | M47C014012 | | |
| DATIME EXTRCTD: | 03/20/1212:10 | 03/20/1212:10 | 03/20/1212:10 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 03/20/1217:26 | 03/20/1217:28 | 03/20/1217:30 | DATE RECEIVED: | 03/20/12 |
| PREP. BATCH: | HGC016S | HGC016S | HGC016S | | |
| CALIB. REF: | M47C014008 | M47C014008 | M47C014008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .85 | 102 | .833 | .847 | 102 | 0 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C121
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 8.6 |
| DILTN FACTR: | 1.00 | 1.00 | | |
| SAMPLE ID: | I-417-HB01-SS10.0 | | | |
| CONTROL NO.: | C126-05 | C126-05A | | |
| LAB FILE ID: | M47C014014 | M47C014013 | | |
| DATIME EXTRCTD: | 03/20/1212:10 | 03/20/1212:10 | DATE COLLECTED: | 03/14/12 |
| DATIME ANALYZD: | 03/20/1217:35 | 03/20/1217:32 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | HGC016S | HGC016S | | |
| CALIB. REF: | M47C014008 | M47C014008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .911 | .921 | 101 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 8.6

| | | | | |
|---|---|---|---|---|
| DILUTION FACTOR: | 1.00 | 5.02 | | |
| SAMPLE ID: | I-417-HB01-SS10.0 | I-417-HB01-SS10.0DL | | |
| EMAX SAMP ID: | C126-05 | C126-05J | | |
| LAB FILE ID: | M47C014014 | M47C014015 | | |
| DATE EXTRACTED: | 03/20/1212:10 | 03/20/1212:10 | DATE COLLECTED: | 03/14/12 |
| DATE ANALYZED: | 03/20/1217:35 | 03/20/1217:37 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | HGC016S | HGC016S | | |
| CALIB. REF: | M47C014008 | M47C014008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C121
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC003SB | ND | 1 | NA | 1.00 | 0.500 | 03/21/1206:52 | 03/19/1215:07 | AC25-74 | AC25-72 | ICC003S | NA | 03/19/12 |
| LCS1S | ICC003SL | 5.91 | 1 | NA | 1.00 | 0.500 | 03/21/1207:08 | 03/19/1215:07 | AC25-75 | AC25-72 | ICC003S | NA | 03/19/12 |
| LCD1S | ICC003SC | 5.92 | 1 | NA | 1.00 | 0.500 | 03/21/1207:25 | 03/19/1215:07 | AC25-76 | AC25-72 | ICC003S | NA | 03/19/12 |
| SL-022-NBZ-SS-0.0-0.5 | C121-01 | ND | 1 | 4.4 | 1.05 | 0.523 | 03/21/1207:41 | 03/19/1215:07 | AC25-77 | AC25-72 | ICC003S | 03/14/1209:03 | 03/14/12 |
| SL-023-NBZ-SS-0.0-0.5 | C121-02 | ND | 1 | 3.3 | 1.03 | 0.517 | 03/21/1207:57 | 03/19/1215:07 | AC25-78 | AC25-72 | ICC003S | 03/14/1211:38 | 03/14/12 |
| SL-024-NBZ-SS-0.0-0.5 | C121-03 | ND | 1 | 3.2 | 1.03 | 0.517 | 03/21/1208:13 | 03/19/1215:07 | AC25-79 | AC25-72 | ICC003S | 03/14/1210:50 | 03/14/12 |
| SL-030-NBZ-SS-0.0-0.5 | C121-04 | ND | 1 | 2.1 | 1.02 | 0.511 | 03/21/1208:29 | 03/19/1215:07 | AC25-80 | AC25-72 | ICC003S | 03/14/1215:00 | 03/14/12 |
| SL-022-NBZ-SB-4.0-5.0 | C121-06 | 1.11 | 1 | 3.8 | 1.04 | 0.520 | 03/21/1208:45 | 03/19/1215:07 | AC25-81 | AC25-72 | ICC003S | 03/14/1210:10 | 03/14/12 |
| SL-022-NBZ-SB-9.0-10.0 | C121-08 | 2.09 | 1 | 4.6 | 1.05 | 0.524 | 03/21/1209:02 | 03/19/1215:07 | AC25-82 | AC25-72 | ICC003S | 03/14/1210:20 | 03/14/12 |
| SL-023-NBZ-SB-4.0-5.0 | C121-10 | 1.22 | 1 | 3.3 | 1.03 | 0.517 | 03/21/1209:18 | 03/19/1215:07 | AC25-83 | AC25-72 | ICC003S | 03/14/1212:45 | 03/14/12 |
| SL-023-NBZ-SB-8.5-9.5 | C121-12 | 1.22 | 1 | 5.2 | 1.05 | 0.527 | 03/21/1210:06 | 03/19/1215:07 | AC25-86 | AC25-84 | ICC003S | 03/14/1212:55 | 03/14/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC003SB | ICC003SL | ICC003SC | | |
| LAB FILE ID: | AC25-74 | AC25-75 | AC25-76 | | |
| DATE EXTRACTED: | 03/19/1215:07 | 03/19/1215:07 | 03/19/1215:07 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/21/1206:52 | 03/21/1207:08 | 03/21/1207:25 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | ICC003S | ICC003S | ICC003S | | |
| CALIB. REF: | AC25-72 | AC25-72 | AC25-72 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 5.91 | 99 | 6.00 | 5.92 | 99 | 0 | 90-110 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C121
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC003SB | ND | 1 | NA | 1.50 | 0.750 | 03/21/1206:52 | 03/19/1215:07 | AC25-74 | AC25-72 | ICC003S | NA | 03/19/12 |
| LCS1S | ICC003SL | 25.6 | 1 | NA | 1.50 | 0.750 | 03/21/1207:08 | 03/19/1215:07 | AC25-75 | AC25-72 | ICC003S | NA | 03/19/12 |
| LCD1S | ICC003SC | 25.5 | 1 | NA | 1.50 | 0.750 | 03/21/1207:25 | 03/19/1215:07 | AC25-76 | AC25-72 | ICC003S | NA | 03/19/12 |
| SL-022-NBZ-SS-0.0-0.5 | C121-01 | 3.30 | 1 | 4.4 | 1.57 | 0.785 | 03/21/1207:41 | 03/19/1215:07 | AC25-77 | AC25-72 | ICC003S | 03/14/1209:03 | 03/14/12 |
| SL-023-NBZ-SS-0.0-0.5 | C121-02 | 2.24 | 1 | 3.3 | 1.55 | 0.776 | 03/21/1207:57 | 03/19/1215:07 | AC25-78 | AC25-72 | ICC003S | 03/14/1211:38 | 03/14/12 |
| SL-024-NBZ-SS-0.0-0.5 | C121-03 | 0.812J | 1 | 3.2 | 1.55 | 0.775 | 03/21/1208:13 | 03/19/1215:07 | AC25-79 | AC25-72 | ICC003S | 03/14/1210:50 | 03/14/12 |
| SL-030-NBZ-SS-0.0-0.5 | C121-04 | 11.6 | 1 | 2.1 | 1.53 | 0.766 | 03/21/1208:29 | 03/19/1215:07 | AC25-80 | AC25-72 | ICC003S | 03/14/1215:00 | 03/14/12 |
| SL-022-NBZ-SB-4.0-5.0 | C121-06 | ND | 1 | 3.8 | 1.56 | 0.780 | 03/21/1208:45 | 03/19/1215:07 | AC25-81 | AC25-72 | ICC003S | 03/14/1210:10 | 03/14/12 |
| SL-022-NBZ-SB-9.0-10.0 | C121-08 | ND | 1 | 4.6 | 1.57 | 0.786 | 03/21/1209:02 | 03/19/1215:07 | AC25-82 | AC25-72 | ICC003S | 03/14/1210:20 | 03/14/12 |
| SL-023-NBZ-SB-4.0-5.0 | C121-10 | ND | 1 | 3.3 | 1.55 | 0.776 | 03/21/1209:18 | 03/19/1215:07 | AC25-83 | AC25-72 | ICC003S | 03/14/1212:45 | 03/14/12 |
| SL-023-NBZ-SB-8.5-9.5 | C121-12 | 0.852J | 1 | 5.2 | 1.58 | 0.791 | 03/21/1210:06 | 03/19/1215:07 | AC25-86 | AC25-84 | ICC003S | 03/14/1212:55 | 03/14/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC003SB | ICC003SL | ICC003SC | | |
| LAB FILE ID: | AC25-74 | AC25-75 | AC25-76 | | |
| DATE EXTRACTED: | 03/19/1215:07 | 03/19/1215:07 | 03/19/1215:07 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/21/1206:52 | 03/21/1207:08 | 03/21/1207:25 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | ICC003S | ICC003S | ICC003S | | |
| CALIB. REF: | AC25-72 | AC25-72 | AC25-72 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 25.6 | 96 | 26.6 | 25.5 | 96 | 0 | 90-110 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C121

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCC005SB | ND | 1 | NA | 20.0 | 10.0 | 03/20/1210:55 | 03/19/1214:30 | JC20002 | JC20001 | PCC005S | NA | 03/19/12 |
| LCS1S | PCC005SL | 244 | 1 | NA | 20.0 | 10.0 | 03/20/1212:06 | 03/19/1214:30 | JC20004 | JC20001 | PCC005S | NA | 03/19/12 |
| LCD1S | PCC005SC | 256 | 1 | NA | 20.0 | 10.0 | 03/20/1212:28 | 03/19/1214:30 | JC20005 | JC20001 | PCC005S | NA | 03/19/12 |
| SL-022-NBZ-SB-4.0-5.0 | C121-06 | ND | 1 | 3.8 | 20.8 | 10.4 | 03/20/1215:51 | 03/19/1214:30 | JC20014 | JC20012 | PCC005S | 03/14/1210:10 | 03/14/12 |
| SL-022-NBZ-SB-9.0-10.0 | C121-08 | ND | 1 | 4.6 | 21.0 | 10.5 | 03/20/1216:12 | 03/19/1214:30 | JC20015 | JC20012 | PCC005S | 03/14/1210:20 | 03/14/12 |
| SL-023-NBZ-SB-4.0-5.0 | C121-10 | ND | 1 | 3.3 | 20.7 | 10.3 | 03/20/1216:33 | 03/19/1214:30 | JC20016 | JC20012 | PCC005S | 03/14/1212:45 | 03/14/12 |
| SL-023-NBZ-SB-8.5-9.5 | C121-12 | ND | 1 | 5.2 | 21.1 | 10.5 | 03/20/1217:40 | 03/19/1214:30 | JC20017 | JC20012 | PCC005S | 03/14/1212:55 | 03/14/12 |
| SL-022-NBZ-SS-0.0-0.5 | C121-01 | ND | 4 | 4.4 | 83.7 | 41.8 | 03/21/1211:02 | 03/19/1214:30 | JC20057 | JC20056 | PCC005S | 03/14/1209:03 | 03/14/12 |
| SL-023-NBZ-SS-0.0-0.5 | C121-02 | ND | 2 | 3.3 | 41.4 | 20.7 | 03/21/1211:23 | 03/19/1214:30 | JC20058 | JC20056 | PCC005S | 03/14/1211:38 | 03/14/12 |
| SL-024-NBZ-SS-0.0-0.5 | C121-03 | ND | 2 | 3.2 | 41.3 | 20.7 | 03/21/1211:44 | 03/19/1214:30 | JC20059 | JC20056 | PCC005S | 03/14/1210:50 | 03/14/12 |
| SL-030-NBZ-SS-0.0-0.5 | C121-04 | ND | 4 | 2.1 | 81.7 | 40.9 | 03/21/1212:05 | 03/19/1214:30 | JC20060 | JC20056 | PCC005S | 03/14/1215:00 | 03/14/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCC005SB | PCC005SL | PCC005SC | | |
| LAB FILE ID: | JC20002 | JC20004 | JC20005 | | |
| DATE EXTRACTED: | 03/19/1214:30 | 03/19/1214:30 | 03/19/1214:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/20/1210:55 | 03/20/1212:06 | 03/20/1212:28 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | PCC005S | PCC005S | PCC005S | | |
| CALIB. REF: | JC20001 | JC20001 | JC20001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 244 | 98 | 250 | 256 | 102 | 5 | 85-115 | 15 |

METHOD 6850
PERCHLORATE BY LC/MS

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C121
Matrix : SOIL
Instrument ID : G0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PLC002SB | ND | 1 | NA | 5.00 | 2.50 | 03/19/1216:58 | 03/19/1215:19 | NC19006 | NC19005 | PLC002S | NA | 03/19/12 |
| LCS1S | PLC002SL | 23.9 | 1 | NA | 5.00 | 2.50 | 03/19/1217:12 | 03/19/1215:19 | NC19007 | NC19005 | PLC002S | NA | 03/19/12 |
| LCD1S | PLC002SC | 23.8 | 1 | NA | 5.00 | 2.50 | 03/19/1217:26 | 03/19/1215:19 | NC19008 | NC19005 | PLC002S | NA | 03/19/12 |
| SL-022-NBZ-SB-4.0-5.0 | C121-06 | ND | 1 | 3.8 | 5.20 | 2.60 | 03/19/1219:05 | 03/19/1215:19 | NC19015 | NC19005 | PLC002S | 03/14/1210:10 | 03/14/12 |
| SL-022-NBZ-SB-9.0-10.0 | C121-08 | ND | 1 | 4.6 | 5.24 | 2.62 | 03/19/1219:34 | 03/19/1215:19 | NC19017 | NC19016 | PLC002S | 03/14/1210:20 | 03/14/12 |
| SL-023-NBZ-SB-4.0-5.0 | C121-10 | ND | 1 | 3.3 | 5.17 | 2.59 | 03/19/1219:48 | 03/19/1215:19 | NC19018 | NC19016 | PLC002S | 03/14/1212:45 | 03/14/12 |
| SL-023-NBZ-SB-8.5-9.5 | C121-12 | ND | 1 | 5.2 | 5.27 | 2.64 | 03/19/1220:02 | 03/19/1215:19 | NC19019 | NC19016 | PLC002S | 03/14/1212:55 | 03/14/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: METHOD 6850

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PLC002SB | PLC002SL | PLC002SC | | |
| LAB FILE ID: | NC19006 | NC19007 | NC19008 | | |
| DATE EXTRACTED: | 03/19/1215:19 | 03/19/1215:19 | 03/19/1215:19 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/19/1216:58 | 03/19/1217:12 | 03/19/1217:26 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | PLC002S | PLC002S | PLC002S | | |
| CALIB. REF: | NC19005 | NC19005 | NC19005 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 25.0 | 23.9 | 96 | 25.0 | 23.8 | 95 | 1 | 85-115 | 15 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C121
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCC003SB | ND | 1 | NA | 1.00 | 0.500 | 03/20/1216:11 | 03/19/1214:15 | IC20003 | IC20001 | HCC003S | NA | 03/19/12 |
| MBLK1S | HCC003SQ | ND | 1 | NA | 1.00 | 0.500 | 03/20/1216:21 | 03/19/1214:15 | IC20004 | IC20001 | HCC003S | NA | 03/19/12 |
| LCS1S | CSC003SL | 9.95 | 1 | NA | 1.00 | 0.500 | 03/20/1216:59 | 03/19/1214:15 | IC20005 | IC20001 | HCC003S | NA | 03/19/12 |
| LCS1S | CSC003SX | 10.0 | 1 | NA | 1.00 | 0.500 | 03/20/1217:09 | 03/19/1214:15 | IC20006 | IC20001 | HCC003S | NA | 03/19/12 |
| LCS2S | CIC003SL | 252 | 10 | NA | 10.0 | 5.00 | 03/20/1217:20 | 03/19/1214:15 | IC20007 | IC20001 | HCC003S | NA | 03/19/12 |
| LCS2S | CIC003SX | 240 | 10 | NA | 10.0 | 5.00 | 03/20/1217:30 | 03/19/1214:15 | IC20008 | IC20001 | HCC003S | NA | 03/19/12 |
| SL-022-NBZ-SS-0.0-0.5 | C121-01 | ND | 1 | 4.4 | 1.05 | 0.523 | 03/20/1217:40 | 03/19/1214:15 | IC20009 | IC20001 | HCC003S | 03/14/1209:03 | 03/14/12 |
| SL-022-NBZ-SS-0.0-0.5 | C121-01R | ND | 1 | 4.4 | 1.05 | 0.523 | 03/20/1217:51 | 03/19/1214:15 | IC20010 | IC20001 | HCC003S | 03/14/1209:03 | 03/14/12 |
| SL-023-NBZ-SS-0.0-0.5 | C121-02 | ND | 1 | 3.3 | 1.03 | 0.517 | 03/20/1218:02 | 03/19/1214:15 | IC20011 | IC20001 | HCC003S | 03/14/1211:38 | 03/14/12 |
| SL-023-NBZ-SS-0.0-0.5 | C121-02R | ND | 1 | 3.3 | 1.03 | 0.517 | 03/20/1218:12 | 03/19/1214:15 | IC20012 | IC20001 | HCC003S | 03/14/1211:38 | 03/14/12 |
| SL-024-NBZ-SS-0.0-0.5 | C121-03 | ND | 1 | 3.2 | 1.03 | 0.517 | 03/20/1219:01 | 03/19/1214:15 | IC20015 | IC20013 | HCC003S | 03/14/1210:50 | 03/14/12 |
| SL-024-NBZ-SS-0.0-0.5 | C121-03R | ND | 1 | 3.2 | 1.03 | 0.517 | 03/20/1219:12 | 03/19/1214:15 | IC20016 | IC20013 | HCC003S | 03/14/1210:50 | 03/14/12 |
| SL-030-NBZ-SS-0.0-0.5 | C121-04 | ND | 1 | 2.1 | 1.02 | 0.511 | 03/20/1219:22 | 03/19/1214:15 | IC20017 | IC20013 | HCC003S | 03/14/1215:00 | 03/14/12 |
| SL-030-NBZ-SS-0.0-0.5 | C121-04R | ND | 1 | 2.1 | 1.02 | 0.511 | 03/20/1219:33 | 03/19/1214:15 | IC20018 | IC20013 | HCC003S | 03/14/1215:00 | 03/14/12 |
| SL-022-NBZ-SB-4.0-5.0 | C121-06 | ND | 1 | 3.8 | 1.04 | 0.520 | 03/20/1219:43 | 03/19/1214:15 | IC20019 | IC20013 | HCC003S | 03/14/1210:10 | 03/14/12 |
| SL-022-NBZ-SB-4.0-5.0 | C121-06R | ND | 1 | 3.8 | 1.04 | 0.520 | 03/20/1219:53 | 03/19/1214:15 | IC20020 | IC20013 | HCC003S | 03/14/1210:10 | 03/14/12 |
| SL-022-NBZ-SB-9.0-10.0 | C121-08 | ND | 1 | 4.6 | 1.05 | 0.524 | 03/20/1220:04 | 03/19/1214:15 | IC20021 | IC20013 | HCC003S | 03/14/1210:20 | 03/14/12 |
| SL-022-NBZ-SB-9.0-10.0 | C121-08R | ND | 1 | 4.6 | 1.05 | 0.524 | 03/20/1220:14 | 03/19/1214:15 | IC20022 | IC20013 | HCC003S | 03/14/1210:20 | 03/14/12 |
| SL-023-NBZ-SB-4.0-5.0 | C121-10 | ND | 1 | 3.3 | 1.03 | 0.517 | 03/20/1220:25 | 03/19/1214:15 | IC20023 | IC20013 | HCC003S | 03/14/1212:45 | 03/14/12 |
| SL-023-NBZ-SB-4.0-5.0 | C121-10R | ND | 1 | 3.3 | 1.03 | 0.517 | 03/20/1220:35 | 03/19/1214:15 | IC20024 | IC20013 | HCC003S | 03/14/1212:45 | 03/14/12 |
| SL-023-NBZ-SB-8.5-9.5 | C121-12 | ND | 1 | 5.2 | 1.05 | 0.527 | 03/22/1213:42 | 03/19/1214:15 | IC23011 | IC23001 | HCC003S | 03/14/1212:55 | 03/14/12 |
| SL-023-NBZ-SB-8.5-9.5 | C121-12R | ND | 1 | 5.2 | 1.05 | 0.527 | 03/22/1213:52 | 03/19/1214:15 | IC23012 | IC23001 | HCC003S | 03/14/1212:55 | 03/14/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 10 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCC003SQ | CIC003SX | | |
| LAB FILE ID: | IC20004 | IC20008 | | |
| DATE EXTRACTED: | 03/19/1214:15 | 03/19/1214:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/20/1216:21 | 03/20/1217:30 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | HCC003S | HCC003S | | |
| CALIB. REF: | IC20001 | IC20001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 295 | 240 | 81 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 10
SAMPLE ID: MBLK1S
LAB SAMP ID: HCC003SB CIC003SL
LAB FILE ID: IC20003 IC20007
DATE EXTRACTED: 03/19/1214:15 03/19/1214:15 DATE COLLECTED: NA
DATE ANALYZED: 03/20/1216:11 03/20/1217:20 DATE RECEIVED: 03/19/12
PREP. BATCH: HCC003S HCC003S
CALIB. REF: IC20001 IC20001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 295 | 252 | 85 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCC003SQ | CSC003SX | | |
| LAB FILE ID: | IC20004 | IC20006 | | |
| DATE EXTRACTED: | 03/19/1214:15 | 03/19/1214:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/20/1216:21 | 03/20/1217:09 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | HCC003S | HCC003S | | |
| CALIB. REF: | IC20001 | IC20001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 10.0 | 100 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C121
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCC003SB | CSC003SL | | |
| LAB FILE ID: | IC20003 | IC20005 | | |
| DATE EXTRACTED: | 03/19/1214:15 | 03/19/1214:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/20/1216:11 | 03/20/1216:59 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | HCC003S | HCC003S | | |
| CALIB. REF: | IC20001 | IC20001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 9.95 | 99 | 80-120 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C121
Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CNC004SB | ND | 1 | NA | 0.500 | 0.250 | 03/15/1218:20 | 03/15/1210:30 | CNC00410 | CNC00408 | CNC004S | NA | 03/15/12 |
| LCS1S | CNC004SL | 2.57 | 1 | NA | 0.500 | 0.250 | 03/15/1218:21 | 03/15/1210:30 | CNC00411 | CNC00408 | CNC004S | NA | 03/15/12 |
| LCD1S | CNC004SC | 2.39 | 1 | NA | 0.500 | 0.250 | 03/15/1218:21 | 03/15/1210:30 | CNC00412 | CNC00408 | CNC004S | NA | 03/15/12 |
| SL-022-NBZ-SS-0.0-0.5 | C121-01 | ND | 1 | 4.4 | 0.523 | 0.262 | 03/15/1218:26 | 03/15/1210:30 | CNC00431 | CNC00429 | CNC004S | 03/14/1209:03 | 03/14/12 |
| SL-023-NBZ-SS-0.0-0.5 | C121-02 | ND | 1 | 3.3 | 0.517 | 0.259 | 03/15/1218:26 | 03/15/1210:30 | CNC00432 | CNC00429 | CNC004S | 03/14/1211:38 | 03/14/12 |
| SL-024-NBZ-SS-0.0-0.5 | C121-03 | ND | 1 | 3.2 | 0.517 | 0.258 | 03/15/1218:26 | 03/15/1210:30 | CNC00433 | CNC00429 | CNC004S | 03/14/1210:50 | 03/14/12 |
| SL-030-NBZ-SS-0.0-0.5 | C121-04 | ND | 1 | 2.1 | 0.511 | 0.255 | 03/15/1218:26 | 03/15/1210:30 | CNC00434 | CNC00429 | CNC004S | 03/14/1215:00 | 03/14/12 |
| MBLK2S | CNC005SB | ND | 1 | NA | 0.500 | 0.250 | 03/16/1217:48 | 03/16/1211:40 | CNC00510 | CNC00508 | CNC005S | NA | 03/16/12 |
| LCS2S | CNC005SL | 2.35 | 1 | NA | 0.500 | 0.250 | 03/16/1217:48 | 03/16/1211:40 | CNC00511 | CNC00508 | CNC005S | NA | 03/16/12 |
| LCD2S | CNC005SC | 2.57 | 1 | NA | 0.500 | 0.250 | 03/16/1217:49 | 03/16/1211:40 | CNC00512 | CNC00508 | CNC005S | NA | 03/16/12 |
| SL-022-NBZ-SB-4.0-5.0 | C121-06 | ND | 1 | 3.8 | 0.520 | 0.260 | 03/16/1217:49 | 03/16/1211:40 | CNC00513 | CNC00508 | CNC005S | 03/14/1210:10 | 03/14/12 |
| SL-022-NBZ-SB-4.0-5.0DUP | C121-06D | ND | 1 | 3.8 | 0.520 | 0.260 | 03/16/1217:49 | 03/16/1211:40 | CNC00514 | CNC00508 | CNC005S | 03/14/1210:10 | 03/14/12 |
| SL-022-NBZ-SB-4.0-5.0MS | C121-06M | 2.59 | 1 | 3.8 | 0.520 | 0.260 | 03/16/1217:49 | 03/16/1211:40 | CNC00515 | CNC00508 | CNC005S | 03/14/1210:10 | 03/14/12 |
| SL-022-NBZ-SB-9.0-10.0 | C121-08 | ND | 1 | 4.6 | 0.524 | 0.262 | 03/16/1217:50 | 03/16/1211:40 | CNC00516 | CNC00508 | CNC005S | 03/14/1210:20 | 03/14/12 |
| SL-023-NBZ-SB-4.0-5.0 | C121-10 | ND | 1 | 3.3 | 0.517 | 0.259 | 03/16/1217:51 | 03/16/1211:40 | CNC00517 | CNC00508 | CNC005S | 03/14/1212:45 | 03/14/12 |
| SL-023-NBZ-SB-8.5-9.5 | C121-12 | ND | 1 | 5.2 | 0.527 | 0.264 | 03/16/1217:51 | 03/16/1211:40 | CNC00518 | CNC00508 | CNC005S | 03/14/1212:55 | 03/14/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C121
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CNC004SL/C

DATE RECEIVED: 03/15/12
DATE EXTRACTED: 03/15/1210:30
DATE ANALYZED: 03/15/1218:21/18:21

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.57 | 103 | 2.50 | 2.39 | 96 | 7 | 85-125 | 20 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C121
SAMPLE ID: LCS2S/LCD2S
CONTROL NO.: CNC005SL/C

DATE RECEIVED: 03/16/12
DATE EXTRACTED: 03/16/1211:40
DATE ANALYZED: 03/16/1217:48/17:49

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.35 | 94 | 2.50 | 2.57 | 103 | 9 | 85-125 | 20 |

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: 3.8

BATCH NO.: 12C121 DATE RECEIVED: 03/14/12
SAMPLE ID: SL-022-NBZ-SB-4.0-5.0MS DATE EXTRACTED: 03/16/1211:40
CONTROL NO.: C121-06M DATE ANALYZED: 03/16/1217:49

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Cyanide | ND | 2.60 | 2.59 | 100 | 75-125 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: 3.8

BATCH NO.: 12C121 DATE RECEIVED: 03/14/12
SAMPLE ID: SL-022-NBZ-SB-4.0-5.0DUP DATE EXTRACTED: 03/16/1211:40
CONTROL NO.: C121-06D DATE ANALYZED: 03/16/1217:49

ACCESSION:

| PARAMETER | SAMPLE (mg/kg) | DUP. SAMPLE (mg/kg) | RPD ( % ) | RPD LIMIT ( % ) |
|---|---|---|---|---|
| Cyanide | ND | ND | 0 | 20 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C121
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-022-NBZ-SS-0.0-0.5 | C121-01 | 8.06 | 1 | 4.4 | NA | NA | 03/15/1217:17 | 03/15/1217:17 | 12PHC007S01 | PHC007S | PHC007S | 03/14/1209:03 | 03/14/12 |
| SL-022-NBZ-SS-0.0-0.5DUP | C121-01D | 8.15 | 1 | 4.4 | NA | NA | 03/15/1217:19 | 03/15/1217:17 | 12PHC007S02 | PHC007S | PHC007S | 03/14/1209:03 | 03/14/12 |
| SL-023-NBZ-SS-0.0-0.5 | C121-02 | 7.43 | 1 | 3.3 | NA | NA | 03/15/1217:21 | 03/15/1217:17 | 12PHC007S03 | PHC007S | PHC007S | 03/14/1211:38 | 03/14/12 |
| SL-024-NBZ-SS-0.0-0.5 | C121-03 | 7.22 | 1 | 3.2 | NA | NA | 03/15/1217:23 | 03/15/1217:17 | 12PHC007S04 | PHC007S | PHC007S | 03/14/1210:50 | 03/14/12 |
| SL-030-NBZ-SS-0.0-0.5 | C121-04 | 7.36 | 1 | 2.1 | NA | NA | 03/15/1217:24 | 03/15/1217:17 | 12PHC007S05 | PHC007S | PHC007S | 03/14/1215:00 | 03/14/12 |
| SL-022-NBZ-SB-4.0-5.0 | C121-06 | 8.05 | 1 | 3.8 | NA | NA | 03/15/1217:25 | 03/15/1217:17 | 12PHC007S06 | PHC007S | PHC007S | 03/14/1210:10 | 03/14/12 |
| SL-022-NBZ-SB-9.0-10.0 | C121-08 | 7.94 | 1 | 4.6 | NA | NA | 03/15/1217:27 | 03/15/1217:17 | 12PHC007S07 | PHC007S | PHC007S | 03/14/1210:20 | 03/14/12 |
| SL-023-NBZ-SB-4.0-5.0 | C121-10 | 8.23 | 1 | 3.3 | NA | NA | 03/15/1217:29 | 03/15/1217:17 | 12PHC007S08 | PHC007S | PHC007S | 03/14/1212:45 | 03/14/12 |
| SL-023-NBZ-SB-8.5-9.5 | C121-12 | 7.97 | 1 | 5.2 | NA | NA | 03/15/1217:30 | 03/15/1217:17 | 12PHC007S09 | PHC007S | PHC007S | 03/14/1212:55 | 03/14/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C121 DATE RECEIVED: 03/14/12
SAMPLE ID: SL-022-NBZ-SS-0.0-0.5DUP DATE EXTRACTED: 03/15/12 17:17
CONTROL NO.: C121-01D DATE ANALYZED: 03/15/12 17:19

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | QC LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 8.06 | 8.15 | 0.090 | 0.10 |

# SAMPLE DELIVERY GROUP

# 12C135

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/19/12 12:00 |
| Sample ID: EB-NBZ-SB-031512 | Date Analyzed: 03/21/12 15:41 |
| Lab Samp ID: C135-01 | Dilution Factor: .96 |
| Lab File ID: RCJ281 | Matrix : WATER |
| Ext Btch ID: SVC022W | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 9.6 | 4.8 |
| 1,2-DICHLOROBENZENE | ND | 9.6 | 4.8 |
| 1,3-DICHLOROBENZENE | ND | 9.6 | 4.8 |
| 1,4-DICHLOROBENZENE | ND | 9.6 | 4.8 |
| 2,4,5-TRICHLOROPHENOL | ND | 9.6 | 4.8 |
| 2,4,6-TRICHLOROPHENOL | ND | 9.6 | 4.8 |
| 2,4-DICHLOROPHENOL | ND | 9.6 | 4.8 |
| 2,4-DIMETHYLPHENOL | ND | 9.6 | 4.8 |
| 2,4-DINITROPHENOL | ND | 19 | 4.8 |
| 2,4-DINITROTOLUENE | ND | 9.6 | 4.8 |
| 2,6-DINITROTOLUENE | ND | 9.6 | 4.8 |
| 2-CHLORONAPHTHALENE | ND | 9.6 | 4.8 |
| 2-CHLOROPHENOL | ND | 9.6 | 4.8 |
| 2-METHYLNAPHTHALENE | ND | 9.6 | 4.8 |
| 2-METHYLPHENOL | ND | 9.6 | 4.8 |
| 2-NITROANILINE | ND | 9.6 | 4.8 |
| 2-NITROPHENOL | ND | 9.6 | 4.8 |
| 3,3'-DICHLOROBENZIDINE | ND | 9.6 | 4.8 |
| 3-NITROANILINE | ND | 9.6 | 4.8 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 19 | 4.8 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 9.6 | 4.8 |
| 4-CHLORO-3-METHYLPHENOL | ND | 9.6 | 4.8 |
| 4-CHLOROANILINE | ND | 9.6 | 4.8 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 9.6 | 4.8 |
| 4-METHYLPHENOL (1) | ND | 9.6 | 4.8 |
| 4-NITROANILINE | ND | 9.6 | 4.8 |
| 4-NITROPHENOL | ND | 19 | 4.8 |
| ACENAPHTHENE | ND | 9.6 | 4.8 |
| ACENAPHTHYLENE | ND | 9.6 | 4.8 |
| ANTHRACENE | ND | 9.6 | 4.8 |
| BENZO(A)ANTHRACENE | ND | 9.6 | 4.8 |
| BENZO(A)PYRENE | ND | 9.6 | 4.8 |
| BENZO(B)FLUORANTHENE | ND | 9.6 | 4.8 |
| BENZO(K)FLUORANTHENE | ND | 9.6 | 4.8 |
| BENZO(G,H,I)PERYLENE | ND | 9.6 | 4.8 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 9.6 | 4.8 |
| BIS(2-CHLOROETHYL)ETHER | ND | 9.6 | 4.8 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 9.6 | 4.8 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 19 | 4.8 |
| BUTYLBENZYLPHTHALATE | ND | 9.6 | 4.8 |
| CHRYSENE | ND | 9.6 | 4.8 |
| DI-N-BUTYLPHTHALATE | ND | 9.6 | 4.8 |
| DI-N-OCTYLPHTHALATE | ND | 9.6 | 4.8 |
| DIBENZO(A,H)ANTHRACENE | ND | 9.6 | 4.8 |
| DIBENZOFURAN | ND | 9.6 | 4.8 |
| DIETHYLPHTHALATE | ND | 9.6 | 4.8 |
| DIMETHYLPHTHALATE | ND | 9.6 | 4.8 |
| FLUORANTHENE | ND | 9.6 | 4.8 |
| FLUORENE | ND | 9.6 | 4.8 |
| HEXACHLOROBENZENE | ND | 9.6 | 4.8 |
| HEXACHLOROBUTADIENE | ND | 9.6 | 4.8 |
| HEXACHLOROCYCLOPENTADIENE | ND | 19 | 4.8 |
| HEXACHLOROETHANE | ND | 9.6 | 4.8 |
| INDENO(1,2,3-CD)PYRENE | ND | 9.6 | 4.8 |
| ISOPHORONE | ND | 9.6 | 4.8 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 9.6 | 4.8 |
| N-NITROSODIPHENYLAMINE (2) | ND | 9.6 | 4.8 |
| NAPHTHALENE | ND | 9.6 | 4.8 |
| NITROBENZENE | ND | 9.6 | 4.8 |
| PENTACHLOROPHENOL | ND | 19 | 4.8 |
| PHENANTHRENE | ND | 9.6 | 4.8 |
| PHENOL | ND | 9.6 | 4.8 |
| PYRENE | ND | 9.6 | 4.8 |
| BENZYL ALCOHOL | ND | 9.6 | 4.8 |
| 1-METHYLNAPHTHALENE | ND | 9.6 | 4.8 |
| 1,2-DIPHENYLHYDRAZINE | ND | 9.6 | 4.8 |
| 3,5-DIMETHYLPHENOL | ND | 19 | 4.8 |
| ANILINE | ND | 19 | 9.6 |
| BENZIDINE | ND | 48 | 19 |
| BENZOIC ACID | ND | 38 | 19 |
| CARBAZOLE | ND | 9.6 | 4.8 |
| N-NITROSODIMETHYLAMINE | ND | 9.6 | 4.8 |
| TETRALIN | ND | 9.6 | 9.6 |
| 2-BUTOXYETHANOL | ND | 9.6 | 9.6 |
| 2-PHENOXYETHANOL | ND | 9.6 | 9.6 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 42.5 | 57.60 | 73.8 | 30-130 |
| 2-FLUOROBIPHENYL | 12.7 | 19.20 | 66.0 | 45-130 |
| 2-FLUOROPHENOL | 31.1 | 57.60 | 54.0 | 20-130 |
| NITROBENZENE-D5 | 13.1 | 19.20 | 68.4 | 40-130 |
| PHENOL-D5 | 34.4 | 57.60 | 59.7 | 20-120 |
| TERPHENYL-D14 | 16.0 | 19.20 | 83.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/19/12 12:00 |
| Sample ID: EB-NBZ-SS-031512 | Date Analyzed: 03/21/12 16:00 |
| Lab Samp ID: C135-02 | Dilution Factor: 1.11 |
| Lab File ID: RCJ282 | Matrix : WATER |
| Ext Btch ID: SVC022W | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 11 | 5.6 |
| 1,2-DICHLOROBENZENE | ND | 11 | 5.6 |
| 1,3-DICHLOROBENZENE | ND | 11 | 5.6 |
| 1,4-DICHLOROBENZENE | ND | 11 | 5.6 |
| 2,4,5-TRICHLOROPHENOL | ND | 11 | 5.6 |
| 2,4,6-TRICHLOROPHENOL | ND | 11 | 5.6 |
| 2,4-DICHLOROPHENOL | ND | 11 | 5.6 |
| 2,4-DIMETHYLPHENOL | ND | 11 | 5.6 |
| 2,4-DINITROPHENOL | ND | 22 | 5.6 |
| 2,4-DINITROTOLUENE | ND | 11 | 5.6 |
| 2,6-DINITROTOLUENE | ND | 11 | 5.6 |
| 2-CHLORONAPHTHALENE | ND | 11 | 5.6 |
| 2-CHLOROPHENOL | ND | 11 | 5.6 |
| 2-METHYLNAPHTHALENE | ND | 11 | 5.6 |
| 2-METHYLPHENOL | ND | 11 | 5.6 |
| 2-NITROANILINE | ND | 11 | 5.6 |
| 2-NITROPHENOL | ND | 11 | 5.6 |
| 3,3'-DICHLOROBENZIDINE | ND | 11 | 5.6 |
| 3-NITROANILINE | ND | 11 | 5.6 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 22 | 5.6 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 11 | 5.6 |
| 4-CHLORO-3-METHYLPHENOL | ND | 11 | 5.6 |
| 4-CHLOROANILINE | ND | 11 | 5.6 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 11 | 5.6 |
| 4-METHYLPHENOL (1) | ND | 11 | 5.6 |
| 4-NITROANILINE | ND | 11 | 5.6 |
| 4-NITROPHENOL | ND | 22 | 5.6 |
| ACENAPHTHENE | ND | 11 | 5.6 |
| ACENAPHTHYLENE | ND | 11 | 5.6 |
| ANTHRACENE | ND | 11 | 5.6 |
| BENZO(A)ANTHRACENE | ND | 11 | 5.6 |
| BENZO(A)PYRENE | ND | 11 | 5.6 |
| BENZO(B)FLUORANTHENE | ND | 11 | 5.6 |
| BENZO(K)FLUORANTHENE | ND | 11 | 5.6 |
| BENZO(G,H,I)PERYLENE | ND | 11 | 5.6 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 11 | 5.6 |
| BIS(2-CHLOROETHYL)ETHER | ND | 11 | 5.6 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 11 | 5.6 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 22 | 5.6 |
| BUTYLBENZYLPHTHALATE | ND | 11 | 5.6 |
| CHRYSENE | ND | 11 | 5.6 |
| DI-N-BUTYLPHTHALATE | ND | 11 | 5.6 |
| DI-N-OCTYLPHTHALATE | ND | 11 | 5.6 |
| DIBENZO(A,H)ANTHRACENE | ND | 11 | 5.6 |
| DIBENZOFURAN | ND | 11 | 5.6 |
| DIETHYLPHTHALATE | ND | 11 | 5.6 |
| DIMETHYLPHTHALATE | ND | 11 | 5.6 |
| FLUORANTHENE | ND | 11 | 5.6 |
| FLUORENE | ND | 11 | 5.6 |
| HEXACHLOROBENZENE | ND | 11 | 5.6 |
| HEXACHLOROBUTADIENE | ND | 11 | 5.6 |
| HEXACHLOROCYCLOPENTADIENE | ND | 22 | 5.6 |
| HEXACHLOROETHANE | ND | 11 | 5.6 |
| INDENO(1,2,3-CD)PYRENE | ND | 11 | 5.6 |
| ISOPHORONE | ND | 11 | 5.6 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 11 | 5.6 |
| N-NITROSODIPHENYLAMINE (2) | ND | 11 | 5.6 |
| NAPHTHALENE | ND | 11 | 5.6 |
| NITROBENZENE | ND | 11 | 5.6 |
| PENTACHLOROPHENOL | ND | 22 | 5.6 |
| PHENANTHRENE | ND | 11 | 5.6 |
| PHENOL | ND | 11 | 5.6 |
| PYRENE | ND | 11 | 5.6 |
| BENZYL ALCOHOL | ND | 11 | 5.6 |
| 1-METHYLNAPHTHALENE | ND | 11 | 5.6 |
| 1,2-DIPHENYLHYDRAZINE | ND | 11 | 5.6 |
| 3,5-DIMETHYLPHENOL | ND | 22 | 5.6 |
| ANILINE | ND | 22 | 11 |
| BENZIDINE | ND | 56 | 22 |
| BENZOIC ACID | ND | 44 | 22 |
| CARBAZOLE | ND | 11 | 5.6 |
| N-NITROSODIMETHYLAMINE | ND | 11 | 5.6 |
| TETRALIN | ND | 11 | 11 |
| 2-BUTOXYETHANOL | ND | 11 | 11 |
| 2-PHENOXYETHANOL | ND | 11 | 11 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 40.3 | 66.60 | 60.5 | 30-130 |
| 2-FLUOROBIPHENYL | 13.0 | 22.20 | 58.6 | 45-130 |
| 2-FLUOROPHENOL | 34.3 | 66.60 | 51.6 | 20-130 |
| NITROBENZENE-D5 | 13.3 | 22.20 | 60.0 | 40-130 |
| PHENOL-D5 | 37.4 | 66.60 | 56.2 | 20-120 |
| TERPHENYL-D14 | 18.4 | 22.20 | 82.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C135 | Date Extracted: 03/19/12 12:00 |
| Sample ID: MBLK1W | Date Analyzed: 03/21/12 12:34 |
| Lab Samp ID: SVC022WB | Dilution Factor: 1 |
| Lab File ID: RCJ271 | Matrix : WATER |
| Ext Btch ID: SVC022W | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 10 | 5.0 |
| 1,2-DICHLOROBENZENE | ND | 10 | 5.0 |
| 1,3-DICHLOROBENZENE | ND | 10 | 5.0 |
| 1,4-DICHLOROBENZENE | ND | 10 | 5.0 |
| 2,4,5-TRICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4,6-TRICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4-DICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4-DIMETHYLPHENOL | ND | 10 | 5.0 |
| 2,4-DINITROPHENOL | ND | 20 | 5.0 |
| 2,4-DINITROTOLUENE | ND | 10 | 5.0 |
| 2,6-DINITROTOLUENE | ND | 10 | 5.0 |
| 2-CHLORONAPHTHALENE | ND | 10 | 5.0 |
| 2-CHLOROPHENOL | ND | 10 | 5.0 |
| 2-METHYLNAPHTHALENE | ND | 10 | 5.0 |
| 2-METHYLPHENOL | ND | 10 | 5.0 |
| 2-NITROANILINE | ND | 10 | 5.0 |
| 2-NITROPHENOL | ND | 10 | 5.0 |
| 3,3'-DICHLOROBENZIDINE | ND | 10 | 5.0 |
| 3-NITROANILINE | ND | 10 | 5.0 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 20 | 5.0 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 10 | 5.0 |
| 4-CHLORO-3-METHYLPHENOL | ND | 10 | 5.0 |
| 4-CHLOROANILINE | ND | 10 | 5.0 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 10 | 5.0 |
| 4-METHYLPHENOL (1) | ND | 10 | 5.0 |
| 4-NITROANILINE | ND | 10 | 5.0 |
| 4-NITROPHENOL | ND | 20 | 5.0 |
| ACENAPHTHENE | ND | 10 | 5.0 |
| ACENAPHTHYLENE | ND | 10 | 5.0 |
| ANTHRACENE | ND | 10 | 5.0 |
| BENZO(A)ANTHRACENE | ND | 10 | 5.0 |
| BENZO(A)PYRENE | ND | 10 | 5.0 |
| BENZO(B)FLUORANTHENE | ND | 10 | 5.0 |
| BENZO(K)FLUORANTHENE | ND | 10 | 5.0 |
| BENZO(G,H,I)PERYLENE | ND | 10 | 5.0 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 10 | 5.0 |
| BIS(2-CHLOROETHYL)ETHER | ND | 10 | 5.0 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 10 | 5.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 20 | 5.0 |
| BUTYLBENZYLPHTHALATE | ND | 10 | 5.0 |
| CHRYSENE | ND | 10 | 5.0 |
| DI-N-BUTYLPHTHALATE | ND | 10 | 5.0 |
| DI-N-OCTYLPHTHALATE | ND | 10 | 5.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 10 | 5.0 |
| DIBENZOFURAN | ND | 10 | 5.0 |
| DIETHYLPHTHALATE | ND | 10 | 5.0 |
| DIMETHYLPHTHALATE | ND | 10 | 5.0 |
| FLUORANTHENE | ND | 10 | 5.0 |
| FLUORENE | ND | 10 | 5.0 |
| HEXACHLOROBENZENE | ND | 10 | 5.0 |
| HEXACHLOROBUTADIENE | ND | 10 | 5.0 |
| HEXACHLOROCYCLOPENTADIENE | ND | 20 | 5.0 |
| HEXACHLOROETHANE | ND | 10 | 5.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 10 | 5.0 |
| ISOPHORONE | ND | 10 | 5.0 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 10 | 5.0 |
| N-NITROSODIPHENYLAMINE (2) | ND | 10 | 5.0 |
| NAPHTHALENE | ND | 10 | 5.0 |
| NITROBENZENE | ND | 10 | 5.0 |
| PENTACHLOROPHENOL | ND | 20 | 5.0 |
| PHENANTHRENE | ND | 10 | 5.0 |
| PHENOL | ND | 10 | 5.0 |
| PYRENE | ND | 10 | 5.0 |
| BENZYL ALCOHOL | ND | 10 | 5.0 |
| 1-METHYLNAPHTHALENE | ND | 10 | 5.0 |
| 1,2-DIPHENYLHYDRAZINE | ND | 10 | 5.0 |
| 3,5-DIMETHYLPHENOL | ND | 20 | 5.0 |
| ANILINE | ND | 20 | 10 |
| BENZIDINE | ND | 50 | 20 |
| BENZOIC ACID | ND | 40 | 20 |
| CARBAZOLE | ND | 10 | 5.0 |
| N-NITROSODIMETHYLAMINE | ND | 10 | 5.0 |
| TETRALIN | ND | 10 | 10 |
| 2-BUTOXYETHANOL | ND | 10 | 10 |
| 2-PHENOXYETHANOL | ND | 10 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 40.4 | 60.00 | 67.3 | 30-130 |
| 2-FLUOROBIPHENYL | 12.4 | 20.00 | 61.9 | 45-130 |
| 2-FLUOROPHENOL | 32.0 | 60.00 | 53.3 | 20-130 |
| NITROBENZENE-D5 | 12.7 | 20.00 | 63.3 | 40-130 |
| PHENOL-D5 | 35.3 | 60.00 | 58.8 | 20-120 |
| TERPHENYL-D14 | 18.9 | 20.00 | 94.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 3520C/8270C

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: SVC022WB SVC022WL SVC022WC
LAB FILE ID: RCJ271 RCJ272 RCJ273
DATE EXTRACTED: 03/19/1212:00 03/19/1212:00 03/19/1212:00 DATE COLLECTED: NA
DATE ANALYZED: 03/21/1212:34 03/21/1212:53 03/21/1213:11 DATE RECEIVED: 03/19/12
PREP. BATCH: SVC022W SVC022W SVC022W
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 40.0 | 25.3 | 63 | 40.0 | 25.3 | 63 | 0 | 30-130 | 30 |
| 1,2-Dichlorobenzene | ND | 40.0 | 25.3 | 63 | 40.0 | 25.2 | 63 | 0 | 30-130 | 30 |
| 1,3-Dichlorobenzene | ND | 40.0 | 25.0 | 63 | 40.0 | 24.9 | 62 | 1 | 30-130 | 30 |
| 1,4-Dichlorobenzene | ND | 40.0 | 25.0 | 63 | 40.0 | 25.0 | 62 | 0 | 30-130 | 30 |
| 2,4,5-Trichlorophenol | ND | 40.0 | 30.5 | 76 | 40.0 | 29.6 | 74 | 3 | 30-130 | 30 |
| 2,4,6-Trichlorophenol | ND | 40.0 | 30.5 | 76 | 40.0 | 29.9 | 75 | 2 | 30-130 | 30 |
| 2,4-Dichlorophenol | ND | 40.0 | 28.8 | 72 | 40.0 | 28.9 | 72 | 0 | 40-130 | 30 |
| 2,4-Dimethylphenol | ND | 40.0 | 27.5 | 69 | 40.0 | 27.3 | 68 | 1 | 30-130 | 30 |
| 2,4-Dinitrophenol | ND | 40.0 | 28.1 | 70 | 40.0 | 26.6 | 67 | 5 | 30-130 | 30 |
| 2,4-Dinitrotoluene | ND | 40.0 | 34.9 | 87 | 40.0 | 33.1 | 83 | 5 | 40-130 | 30 |
| 2,6-Dinitrotoluene | ND | 40.0 | 33.4 | 84 | 40.0 | 31.9 | 80 | 5 | 40-130 | 30 |
| 2-Chloronaphthalene | ND | 40.0 | 30.9 | 77 | 40.0 | 28.3 | 71 | 9 | 40-130 | 30 |
| 2-Chlorophenol | ND | 40.0 | 26.7 | 67 | 40.0 | 26.8 | 67 | 0 | 30-130 | 30 |
| 2-Methylnaphthalene | ND | 40.0 | 31.9 | 80 | 40.0 | 31.9 | 80 | 0 | 40-130 | 30 |
| 2-Methylphenol | ND | 40.0 | 25.4 | 64 | 40.0 | 25.1 | 63 | 1 | 30-130 | 30 |
| 2-Nitroaniline | ND | 40.0 | 30.9 | 77 | 40.0 | 28.9 | 72 | 7 | 40-130 | 30 |
| 2-Nitrophenol | ND | 40.0 | 29.7 | 74 | 40.0 | 30.0 | 75 | 1 | 40-130 | 30 |
| 3,3'-Dichlorobenzidine | ND | 40.0 | 30.8 | 77 | 40.0 | 28.7 | 72 | 7 | 20-140 | 30 |
| 3-Nitroaniline | ND | 40.0 | 30.0 | 75 | 40.0 | 27.4 | 68 | 9 | 30-130 | 30 |
| 4,6-Dinitro-2-Methylphenol | ND | 40.0 | 34.6 | 86 | 40.0 | 32.1 | 80 | 7 | 40-130 | 30 |
| 4-Bromophenyl-phenylether | ND | 40.0 | 33.1 | 83 | 40.0 | 29.8 | 75 | 10 | 50-130 | 30 |
| 4-Chloro-3-Methylphenol | ND | 40.0 | 29.2 | 73 | 40.0 | 28.9 | 72 | 1 | 30-130 | 30 |
| 4-Chloroaniline | ND | 40.0 | 26.6 | 66 | 40.0 | 26.4 | 66 | 1 | 30-130 | 30 |
| 4-Chlorophenyl-phenylether | ND | 40.0 | 34.4 | 86 | 40.0 | 32.2 | 81 | 6 | 50-130 | 30 |
| 4-Methylphenol | ND | 40.0 | 26.4 | 66 | 40.0 | 26.0 | 65 | 1 | 30-130 | 30 |
| 4-Nitroaniline | ND | 40.0 | 31.9 | 80 | 40.0 | 28.7 | 72 | 11 | 30-130 | 30 |
| 4-Nitrophenol | ND | 40.0 | 24.8 | 62 | 40.0 | 24.0 | 60 | 3 | 30-130 | 30 |
| Acenaphthene | ND | 40.0 | 32.2 | 80 | 40.0 | 31.4 | 78 | 3 | 40-130 | 30 |
| Acenaphthylene | ND | 40.0 | 32.8 | 82 | 40.0 | 32.4 | 81 | 1 | 40-130 | 30 |
| Anthracene | ND | 40.0 | 33.9 | 85 | 40.0 | 31.7 | 79 | 7 | 50-130 | 30 |
| Benzo(a)anthracene | ND | 40.0 | 35.3 | 88 | 40.0 | 32.3 | 81 | 9 | 50-130 | 30 |
| Benzo(a)pyrene | ND | 40.0 | 34.0 | 85 | 40.0 | 31.3 | 78 | 8 | 50-130 | 30 |
| Benzo(b)fluoranthene | ND | 40.0 | 36.8 | 92 | 40.0 | 32.8 | 82 | 12 | 40-140 | 30 |
| Benzo(k)fluoranthene | ND | 40.0 | 35.8 | 90 | 40.0 | 33.6 | 84 | 6 | 40-130 | 30 |
| Benzo(g,h,i)perylene | ND | 40.0 | 36.0 | 90 | 40.0 | 33.3 | 83 | 8 | 40-130 | 30 |
| bis(2-Chloroethoxy)methane | ND | 40.0 | 30.0 | 75 | 40.0 | 30.4 | 76 | 1 | 40-130 | 30 |
| bis(2-Chloroethyl)ether | ND | 40.0 | 29.8 | 75 | 40.0 | 28.7 | 72 | 4 | 30-130 | 30 |
| bis(2-Chloroisopropyl)ether | ND | 40.0 | 31.0 | 77 | 40.0 | 31.6 | 79 | 2 | 20-130 | 30 |
| bis(2-Ethylhexyl)phthalate | ND | 40.0 | 34.2 | 86 | 40.0 | 31.1 | 78 | 9 | 20-140 | 30 |
| Butylbenzylphthalate | ND | 40.0 | 34.7 | 87 | 40.0 | 31.2 | 78 | 11 | 40-130 | 30 |
| Chrysene | ND | 40.0 | 35.9 | 90 | 40.0 | 33.6 | 84 | 7 | 40-130 | 30 |
| Di-n-butylphthalate | ND | 40.0 | 32.9 | 82 | 40.0 | 31.6 | 79 | 4 | 30-160 | 30 |
| Di-n-octylphthalate | ND | 40.0 | 33.9 | 85 | 40.0 | 30.3 | 76 | 11 | 20-150 | 30 |
| Dibenzo(a,h)anthracene | ND | 40.0 | 35.4 | 89 | 40.0 | 33.5 | 84 | 5 | 40-130 | 30 |
| Dibenzofuran | ND | 40.0 | 31.4 | 78 | 40.0 | 30.2 | 75 | 4 | 40-130 | 30 |
| Diethylphthalate | ND | 40.0 | 33.4 | 83 | 40.0 | 30.6 | 76 | 9 | 30-140 | 30 |
| Dimethylphthalate | ND | 40.0 | 32.6 | 81 | 40.0 | 30.2 | 75 | 8 | 30-130 | 30 |
| Fluoranthene | ND | 40.0 | 35.5 | 89 | 40.0 | 34.1 | 85 | 4 | 40-130 | 30 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 40.0 | 34.3 | 86 | 40.0 | 32.2 | 81 | 6 | 40-130 | 30 |
| Hexachlorobenzene | ND | 40.0 | 32.1 | 80 | 40.0 | 29.9 | 75 | 7 | 30-130 | 30 |
| Hexachlorobutadiene | ND | 40.0 | 26.7 | 67 | 40.0 | 27.4 | 69 | 2 | 10-130 | 30 |
| Hexachlorocyclopentadiene | ND | 40.0 | 16.8J | 42 | 40.0 | 17.7J | 44 | 5 | 10-130 | 30 |
| Hexachloroethane | ND | 40.0 | 25.3 | 63 | 40.0 | 25.1 | 63 | 1 | 20-130 | 30 |
| Indeno(1,2,3-cd)pyrene | ND | 40.0 | 36.2 | 91 | 40.0 | 33.5 | 84 | 8 | 50-130 | 30 |
| Isophorone | ND | 40.0 | 31.1 | 78 | 40.0 | 31.1 | 78 | 0 | 40-130 | 30 |
| n-Nitroso-di-n-propylamine | ND | 40.0 | 23.6 | 59 | 40.0 | 23.2 | 58 | 2 | 30-130 | 30 |
| n-Nitrosodiphenylamine | ND | 40.0 | 26.5 | 66 | 40.0 | 23.7 | 59 | 11 | 10-150 | 30 |
| Naphthalene | ND | 40.0 | 30.9 | 77 | 40.0 | 31.0 | 77 | 0 | 20-130 | 30 |
| Nitrobenzene | ND | 40.0 | 31.9 | 80 | 40.0 | 31.6 | 79 | 1 | 30-130 | 30 |
| Pentachlorophenol | ND | 40.0 | 30.0 | 75 | 40.0 | 28.7 | 72 | 5 | 30-130 | 30 |
| Phenanthrene | ND | 40.0 | 36.3 | 91 | 40.0 | 33.3 | 83 | 9 | 40-130 | 30 |
| Phenol | ND | 40.0 | 26.4 | 66 | 40.0 | 26.1 | 65 | 1 | 20-130 | 30 |
| Pyrene | ND | 40.0 | 35.7 | 89 | 40.0 | 31.9 | 80 | 11 | 40-130 | 30 |
| Benzyl Alcohol | ND | 40.0 | 25.8 | 65 | 40.0 | 25.5 | 64 | 1 | 30-130 | 30 |
| 1-Methylnaphthalene | ND | 40.0 | 31.7 | 79 | 40.0 | 31.8 | 79 | 0 | 40-130 | 30 |
| 1,2-Diphenylhydrazine | ND | 40.0 | 30.8 | 77 | 40.0 | 27.9 | 70 | 10 | 30-130 | 30 |
| 3,5-Dimethylphenol | ND | 40.0 | 28.4 | 71 | 40.0 | 28.7 | 72 | 1 | 20-150 | 30 |
| Aniline | ND | 40.0 | 22.2 | 56 | 40.0 | 21.2 | 53 | 5 | 10-130 | 30 |
| Benzidine | ND | 80.0 | 26.8J | 34 | 80.0 | 25.9J | 32 | 3 | 20-130 | 30 |
| Benzoic Acid | ND | 80.0 | 31.5J | 39 | 80.0 | 31.1J | 39 | 1 | 10-130 | 30 |
| Carbazole | ND | 40.0 | 32.1 | 80 | 40.0 | 30.6 | 77 | 5 | 50-130 | 30 |
| N-Nitrosodimethylamine | ND | 40.0 | 29.5 | 74 | 40.0 | 28.5 | 71 | 3 | 30-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 60.0 | 49.4 | 82 | 60.0 | 49.0 | 82 | 30-130 |
| 2-Fluorobiphenyl | 20.0 | 13.5 | 68 | 20.0 | 14.5 | 72 | 45-130 |
| 2-Fluorophenol | 60.0 | 32.5 | 54 | 60.0 | 36.3 | 61 | 20-130 |
| Nitrobenzene-d5 | 20.0 | 13.0 | 65 | 20.0 | 13.8 | 69 | 40-130 |
| Phenol-d5 | 60.0 | 36.4 | 61 | 60.0 | 38.0 | 63 | 20-120 |
| Terphenyl-d14 | 20.0 | 17.4 | 87 | 20.0 | 16.3 | 82 | 45-135 |

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 16:14 |
| Sample ID: SL-029-NBZ-SS-0.0-0.5 | Date Analyzed: 03/23/12 15:39 |
| Lab Samp ID: C135-03 | Dilution Factor: 1 |
| Lab File ID: RCJ356 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : 3.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 87 |
| 1,2-DICHLOROBENZENE | ND | 170 | 87 |
| 1,3-DICHLOROBENZENE | ND | 170 | 87 |
| 1,4-DICHLOROBENZENE | ND | 170 | 87 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 87 |
| 2,4-DINITROPHENOL | ND | 340 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 87 |
| 2,6-DINITROTOLUENE | ND | 170 | 87 |
| 2-CHLORONAPHTHALENE | ND | 170 | 87 |
| 2-CHLOROPHENOL | ND | 170 | 87 |
| 2-METHYLNAPHTHALENE | ND | 170 | 87 |
| 2-METHYLPHENOL | ND | 170 | 87 |
| 2-NITROANILINE | ND | 170 | 87 |
| 2-NITROPHENOL | ND | 170 | 87 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 87 |
| 3-NITROANILINE | ND | 170 | 87 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 340 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 87 |
| 4-CHLOROANILINE | ND | 170 | 87 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-METHYLPHENOL (1) | ND | 170 | 87 |
| 4-NITROANILINE | ND | 170 | 87 |
| 4-NITROPHENOL | ND | 340 | 170 |
| ACENAPHTHENE | ND | 170 | 87 |
| ACENAPHTHYLENE | ND | 170 | 87 |
| ANTHRACENE | ND | 170 | 87 |
| BENZO(A)ANTHRACENE | ND | 170 | 87 |
| BENZO(A)PYRENE | ND | 170 | 87 |
| BENZO(B)FLUORANTHENE | ND | 170 | 87 |
| BENZO(K)FLUORANTHENE | ND | 170 | 87 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 87 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 87 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 87 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 87 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 87 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 87 |
| CHRYSENE | ND | 170 | 87 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 87 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 87 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 87 |
| DIBENZOFURAN | ND | 170 | 87 |
| DIETHYLPHTHALATE | ND | 170 | 87 |
| DIMETHYLPHTHALATE | ND | 170 | 87 |
| FLUORANTHENE | ND | 170 | 87 |
| FLUORENE | ND | 170 | 87 |
| HEXACHLOROBENZENE | ND | 170 | 87 |
| HEXACHLOROBUTADIENE | ND | 170 | 87 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 87 |
| HEXACHLOROETHANE | ND | 170 | 87 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 87 |
| ISOPHORONE | ND | 170 | 87 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 87 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 87 |
| NAPHTHALENE | ND | 170 | 87 |
| NITROBENZENE | ND | 170 | 87 |
| PENTACHLOROPHENOL | ND | 340 | 170 |
| PHENANTHRENE | ND | 170 | 87 |
| PHENOL | ND | 170 | 87 |
| PYRENE | ND | 170 | 87 |
| BENZYL ALCOHOL | ND | 170 | 87 |
| 1-METHYLNAPHTHALENE | ND | 170 | 87 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 87 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 87 |
| ANILINE | ND | 340 | 170 |
| BENZIDINE | ND | 860 | 430 |
| BENZOIC ACID | ND | 690 | 340 |
| CARBAZOLE | ND | 170 | 87 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 87 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 857 | 1031 | 83.1 | 35-130 |
| 2-FLUOROBIPHENYL | 263 | 343.6 | 76.6 | 45-130 |
| 2-FLUOROPHENOL | 685 | 1031 | 66.5 | 25-130 |
| NITROBENZENE-D5 | 223 | 343.6 | 64.8 | 40-130 |
| PHENOL-D5 | 721 | 1031 | 70.0 | 25-120 |
| TERPHENYL-D14 | 315 | 343.6 | 91.8 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 16:14 |
| Sample ID: SL-052-NBZ-SS-0.0-0.5 | Date Analyzed: 03/23/12 15:57 |
| Lab Samp ID: C135-04 | Dilution Factor: 1 |
| Lab File ID: RCJ357 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : 2.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 86 |
| 1,2-DICHLOROBENZENE | ND | 170 | 86 |
| 1,3-DICHLOROBENZENE | ND | 170 | 86 |
| 1,4-DICHLOROBENZENE | ND | 170 | 86 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 86 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 86 |
| 2,4-DICHLOROPHENOL | ND | 170 | 86 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 86 |
| 2,4-DINITROPHENOL | ND | 340 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 86 |
| 2,6-DINITROTOLUENE | ND | 170 | 86 |
| 2-CHLORONAPHTHALENE | ND | 170 | 86 |
| 2-CHLOROPHENOL | ND | 170 | 86 |
| 2-METHYLNAPHTHALENE | ND | 170 | 86 |
| 2-METHYLPHENOL | ND | 170 | 86 |
| 2-NITROANILINE | ND | 170 | 86 |
| 2-NITROPHENOL | ND | 170 | 86 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 86 |
| 3-NITROANILINE | ND | 170 | 86 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 340 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 86 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 86 |
| 4-CHLOROANILINE | ND | 170 | 86 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 86 |
| 4-METHYLPHENOL (1) | ND | 170 | 86 |
| 4-NITROANILINE | ND | 170 | 86 |
| 4-NITROPHENOL | ND | 340 | 170 |
| ACENAPHTHENE | ND | 170 | 86 |
| ACENAPHTHYLENE | ND | 170 | 86 |
| ANTHRACENE | ND | 170 | 86 |
| BENZO(A)ANTHRACENE | ND | 170 | 86 |
| BENZO(A)PYRENE | ND | 170 | 86 |
| BENZO(B)FLUORANTHENE | ND | 170 | 86 |
| BENZO(K)FLUORANTHENE | ND | 170 | 86 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 86 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 86 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 86 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 86 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 86 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 86 |
| CHRYSENE | ND | 170 | 86 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 86 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 86 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 86 |
| DIBENZOFURAN | ND | 170 | 86 |
| DIETHYLPHTHALATE | ND | 170 | 86 |
| DIMETHYLPHTHALATE | ND | 170 | 86 |
| FLUORANTHENE | ND | 170 | 86 |
| FLUORENE | ND | 170 | 86 |
| HEXACHLOROBENZENE | ND | 170 | 86 |
| HEXACHLOROBUTADIENE | ND | 170 | 86 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 86 |
| HEXACHLOROETHANE | ND | 170 | 86 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 86 |
| ISOPHORONE | ND | 170 | 86 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 86 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 86 |
| NAPHTHALENE | ND | 170 | 86 |
| NITROBENZENE | ND | 170 | 86 |
| PENTACHLOROPHENOL | ND | 340 | 170 |
| PHENANTHRENE | ND | 170 | 86 |
| PHENOL | ND | 170 | 86 |
| PYRENE | ND | 170 | 86 |
| BENZYL ALCOHOL | ND | 170 | 86 |
| 1-METHYLNAPHTHALENE | ND | 170 | 86 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 86 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 86 |
| ANILINE | ND | 340 | 170 |
| BENZIDINE | ND | 850 | 430 |
| BENZOIC ACID | ND | 680 | 340 |
| CARBAZOLE | ND | 170 | 86 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 86 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 859 | 1024 | 83.9 | 35-130 |
| 2-FLUOROBIPHENYL | 265 | 341.1 | 77.8 | 45-130 |
| 2-FLUOROPHENOL | 631 | 1024 | 61.6 | 25-130 |
| NITROBENZENE-D5 | 222 | 341.1 | 65.0 | 40-130 |
| PHENOL-D5 | 680 | 1024 | 66.5 | 25-120 |
| TERPHENYL-D14 | 313 | 341.1 | 91.8 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 16:14 |
| Sample ID: SL-053-NBZ-SS-0.0-0.5 | Date Analyzed: 03/23/12 16:16 |
| Lab Samp ID: C135-05 | Dilution Factor: 1 |
| Lab File ID: RCJ358 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : 1.9 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 86 |
| 1,2-DICHLOROBENZENE | ND | 170 | 86 |
| 1,3-DICHLOROBENZENE | ND | 170 | 86 |
| 1,4-DICHLOROBENZENE | ND | 170 | 86 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 86 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 86 |
| 2,4-DICHLOROPHENOL | ND | 170 | 86 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 86 |
| 2,4-DINITROPHENOL | ND | 340 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 86 |
| 2,6-DINITROTOLUENE | ND | 170 | 86 |
| 2-CHLORONAPHTHALENE | ND | 170 | 86 |
| 2-CHLOROPHENOL | ND | 170 | 86 |
| 2-METHYLNAPHTHALENE | ND | 170 | 86 |
| 2-METHYLPHENOL | ND | 170 | 86 |
| 2-NITROANILINE | ND | 170 | 86 |
| 2-NITROPHENOL | ND | 170 | 86 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 86 |
| 3-NITROANILINE | ND | 170 | 86 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 340 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 86 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 86 |
| 4-CHLOROANILINE | ND | 170 | 86 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 86 |
| 4-METHYLPHENOL (1) | ND | 170 | 86 |
| 4-NITROANILINE | ND | 170 | 86 |
| 4-NITROPHENOL | ND | 340 | 170 |
| ACENAPHTHENE | ND | 170 | 86 |
| ACENAPHTHYLENE | ND | 170 | 86 |
| ANTHRACENE | ND | 170 | 86 |
| BENZO(A)ANTHRACENE | ND | 170 | 86 |
| BENZO(A)PYRENE | ND | 170 | 86 |
| BENZO(B)FLUORANTHENE | ND | 170 | 86 |
| BENZO(K)FLUORANTHENE | ND | 170 | 86 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 86 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 86 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 86 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 86 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 86 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 86 |
| CHRYSENE | ND | 170 | 86 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 86 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 86 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 86 |
| DIBENZOFURAN | ND | 170 | 86 |
| DIETHYLPHTHALATE | ND | 170 | 86 |
| DIMETHYLPHTHALATE | ND | 170 | 86 |
| FLUORANTHENE | ND | 170 | 86 |
| FLUORENE | ND | 170 | 86 |
| HEXACHLOROBENZENE | ND | 170 | 86 |
| HEXACHLOROBUTADIENE | ND | 170 | 86 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 86 |
| HEXACHLOROETHANE | ND | 170 | 86 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 86 |
| ISOPHORONE | ND | 170 | 86 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 86 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 86 |
| NAPHTHALENE | ND | 170 | 86 |
| NITROBENZENE | ND | 170 | 86 |
| PENTACHLOROPHENOL | ND | 340 | 170 |
| PHENANTHRENE | ND | 170 | 86 |
| PHENOL | ND | 170 | 86 |
| PYRENE | ND | 170 | 86 |
| BENZYL ALCOHOL | ND | 170 | 86 |
| 1-METHYLNAPHTHALENE | ND | 170 | 86 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 86 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 86 |
| ANILINE | ND | 340 | 170 |
| BENZIDINE | ND | 850 | 430 |
| BENZOIC ACID | ND | 680 | 340 |
| CARBAZOLE | ND | 170 | 86 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 86 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 766 | 1019 | 75.1 | 35-130 |
| 2-FLUOROBIPHENYL | 193 | 339.8 | 56.9 | 45-130 |
| 2-FLUOROPHENOL | 458 | 1019 | 44.9 | 25-130 |
| NITROBENZENE-D5 | 160 | 339.8 | 47.2 | 40-130 |
| PHENOL-D5 | 487 | 1019 | 47.7 | 25-120 |
| TERPHENYL-D14 | 289 | 339.8 | 85.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 16:14 |
| Sample ID: SL-056-NBZ-SS-0.0-0.5 | Date Analyzed: 03/23/12 16:35 |
| Lab Samp ID: C135-06 | Dilution Factor: 1 |
| Lab File ID: RCJ359 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : 2.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 86 |
| 1,2-DICHLOROBENZENE | ND | 170 | 86 |
| 1,3-DICHLOROBENZENE | ND | 170 | 86 |
| 1,4-DICHLOROBENZENE | ND | 170 | 86 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 86 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 86 |
| 2,4-DICHLOROPHENOL | ND | 170 | 86 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 86 |
| 2,4-DINITROPHENOL | ND | 340 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 86 |
| 2,6-DINITROTOLUENE | ND | 170 | 86 |
| 2-CHLORONAPHTHALENE | ND | 170 | 86 |
| 2-CHLOROPHENOL | ND | 170 | 86 |
| 2-METHYLNAPHTHALENE | ND | 170 | 86 |
| 2-METHYLPHENOL | ND | 170 | 86 |
| 2-NITROANILINE | ND | 170 | 86 |
| 2-NITROPHENOL | ND | 170 | 86 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 86 |
| 3-NITROANILINE | ND | 170 | 86 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 340 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 86 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 86 |
| 4-CHLOROANILINE | ND | 170 | 86 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 86 |
| 4-METHYLPHENOL (1) | ND | 170 | 86 |
| 4-NITROANILINE | ND | 170 | 86 |
| 4-NITROPHENOL | ND | 340 | 170 |
| ACENAPHTHENE | ND | 170 | 86 |
| ACENAPHTHYLENE | ND | 170 | 86 |
| ANTHRACENE | ND | 170 | 86 |
| BENZO(A)ANTHRACENE | ND | 170 | 86 |
| BENZO(A)PYRENE | ND | 170 | 86 |
| BENZO(B)FLUORANTHENE | ND | 170 | 86 |
| BENZO(K)FLUORANTHENE | ND | 170 | 86 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 86 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 86 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 86 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 86 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 86 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 86 |
| CHRYSENE | ND | 170 | 86 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 86 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 86 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 86 |
| DIBENZOFURAN | ND | 170 | 86 |
| DIETHYLPHTHALATE | ND | 170 | 86 |
| DIMETHYLPHTHALATE | ND | 170 | 86 |
| FLUORANTHENE | ND | 170 | 86 |
| FLUORENE | ND | 170 | 86 |
| HEXACHLOROBENZENE | ND | 170 | 86 |
| HEXACHLOROBUTADIENE | ND | 170 | 86 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 86 |
| HEXACHLOROETHANE | ND | 170 | 86 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 86 |
| ISOPHORONE | ND | 170 | 86 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 86 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 86 |
| NAPHTHALENE | ND | 170 | 86 |
| NITROBENZENE | ND | 170 | 86 |
| PENTACHLOROPHENOL | ND | 340 | 170 |
| PHENANTHRENE | ND | 170 | 86 |
| PHENOL | ND | 170 | 86 |
| PYRENE | ND | 170 | 86 |
| BENZYL ALCOHOL | ND | 170 | 86 |
| 1-METHYLNAPHTHALENE | ND | 170 | 86 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 86 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 86 |
| ANILINE | ND | 340 | 170 |
| BENZIDINE | ND | 850 | 430 |
| BENZOIC ACID | ND | 690 | 340 |
| CARBAZOLE | ND | 170 | 86 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 86 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 784 | 1028 | 76.3 | 35-130 |
| 2-FLUOROBIPHENYL | 218 | 342.5 | 63.5 | 45-130 |
| 2-FLUOROPHENOL | 558 | 1028 | 54.3 | 25-130 |
| NITROBENZENE-D5 | 184 | 342.5 | 53.7 | 40-130 |
| PHENOL-D5 | 602 | 1028 | 58.5 | 25-120 |
| TERPHENYL-D14 | 292 | 342.5 | 85.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 16:14 |
| Sample ID: SL-058-NBZ-SB-4.0-5.0 | Date Analyzed: 03/23/12 16:54 |
| Lab Samp ID: C135-08 | Dilution Factor: 1 |
| Lab File ID: RCJ360 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : 5.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 89 |
| 1,2-DICHLOROBENZENE | ND | 180 | 89 |
| 1,3-DICHLOROBENZENE | ND | 180 | 89 |
| 1,4-DICHLOROBENZENE | ND | 180 | 89 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 89 |
| 2,4-DINITROPHENOL | ND | 350 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 89 |
| 2,6-DINITROTOLUENE | ND | 180 | 89 |
| 2-CHLORONAPHTHALENE | ND | 180 | 89 |
| 2-CHLOROPHENOL | ND | 180 | 89 |
| 2-METHYLNAPHTHALENE | ND | 180 | 89 |
| 2-METHYLPHENOL | ND | 180 | 89 |
| 2-NITROANILINE | ND | 180 | 89 |
| 2-NITROPHENOL | ND | 180 | 89 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 89 |
| 3-NITROANILINE | ND | 180 | 89 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 89 |
| 4-CHLOROANILINE | ND | 180 | 89 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-METHYLPHENOL (1) | ND | 180 | 89 |
| 4-NITROANILINE | ND | 180 | 89 |
| 4-NITROPHENOL | ND | 350 | 180 |
| ACENAPHTHENE | ND | 180 | 89 |
| ACENAPHTHYLENE | ND | 180 | 89 |
| ANTHRACENE | ND | 180 | 89 |
| BENZO(A)ANTHRACENE | ND | 180 | 89 |
| BENZO(A)PYRENE | ND | 180 | 89 |
| BENZO(B)FLUORANTHENE | ND | 180 | 89 |
| BENZO(K)FLUORANTHENE | ND | 180 | 89 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 89 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 89 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 89 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 89 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 89 |
| CHRYSENE | ND | 180 | 89 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 89 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 89 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 89 |
| DIBENZOFURAN | ND | 180 | 89 |
| DIETHYLPHTHALATE | ND | 180 | 89 |
| DIMETHYLPHTHALATE | ND | 180 | 89 |
| FLUORANTHENE | ND | 180 | 89 |
| FLUORENE | ND | 180 | 89 |
| HEXACHLOROBENZENE | ND | 180 | 89 |
| HEXACHLOROBUTADIENE | ND | 180 | 89 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 89 |
| HEXACHLOROETHANE | ND | 180 | 89 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 89 |
| ISOPHORONE | ND | 180 | 89 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 89 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 89 |
| NAPHTHALENE | ND | 180 | 89 |
| NITROBENZENE | ND | 180 | 89 |
| PENTACHLOROPHENOL | ND | 350 | 180 |
| PHENANTHRENE | ND | 180 | 89 |
| PHENOL | ND | 180 | 89 |
| PYRENE | ND | 180 | 89 |
| BENZYL ALCOHOL | ND | 180 | 89 |
| 1-METHYLNAPHTHALENE | ND | 180 | 89 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 89 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 89 |
| ANILINE | ND | 350 | 180 |
| BENZIDINE | ND | 880 | 440 |
| BENZOIC ACID | ND | 700 | 350 |
| CARBAZOLE | ND | 180 | 89 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 89 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 828 | 1055 | 78.5 | 35-130 |
| 2-FLUOROBIPHENYL | 206 | 351.6 | 58.7 | 45-130 |
| 2-FLUOROPHENOL | 627 | 1055 | 59.4 | 25-130 |
| NITROBENZENE-D5 | 197 | 351.6 | 56.0 | 40-130 |
| PHENOL-D5 | 647 | 1055 | 61.3 | 25-120 |
| TERPHENYL-D14 | 322 | 351.6 | 91.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 16:14 |
| Sample ID: SL-053-NBZ-SB-3.5-4.5 | Date Analyzed: 03/23/12 17:12 |
| Lab Samp ID: C135-10 | Dilution Factor: 1 |
| Lab File ID: RCJ361 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : 3.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 87 |
| 1,2-DICHLOROBENZENE | ND | 170 | 87 |
| 1,3-DICHLOROBENZENE | ND | 170 | 87 |
| 1,4-DICHLOROBENZENE | ND | 170 | 87 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 87 |
| 2,4-DINITROPHENOL | ND | 350 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 87 |
| 2,6-DINITROTOLUENE | ND | 170 | 87 |
| 2-CHLORONAPHTHALENE | ND | 170 | 87 |
| 2-CHLOROPHENOL | ND | 170 | 87 |
| 2-METHYLNAPHTHALENE | ND | 170 | 87 |
| 2-METHYLPHENOL | ND | 170 | 87 |
| 2-NITROANILINE | ND | 170 | 87 |
| 2-NITROPHENOL | ND | 170 | 87 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 87 |
| 3-NITROANILINE | ND | 170 | 87 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 87 |
| 4-CHLOROANILINE | ND | 170 | 87 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-METHYLPHENOL (1) | ND | 170 | 87 |
| 4-NITROANILINE | ND | 170 | 87 |
| 4-NITROPHENOL | ND | 350 | 170 |
| ACENAPHTHENE | ND | 170 | 87 |
| ACENAPHTHYLENE | ND | 170 | 87 |
| ANTHRACENE | ND | 170 | 87 |
| BENZO(A)ANTHRACENE | ND | 170 | 87 |
| BENZO(A)PYRENE | ND | 170 | 87 |
| BENZO(B)FLUORANTHENE | ND | 170 | 87 |
| BENZO(K)FLUORANTHENE | ND | 170 | 87 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 87 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 87 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 87 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 87 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 87 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 87 |
| CHRYSENE | ND | 170 | 87 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 87 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 87 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 87 |
| DIBENZOFURAN | ND | 170 | 87 |
| DIETHYLPHTHALATE | ND | 170 | 87 |
| DIMETHYLPHTHALATE | ND | 170 | 87 |
| FLUORANTHENE | ND | 170 | 87 |
| FLUORENE | ND | 170 | 87 |
| HEXACHLOROBENZENE | ND | 170 | 87 |
| HEXACHLOROBUTADIENE | ND | 170 | 87 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 87 |
| HEXACHLOROETHANE | ND | 170 | 87 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 87 |
| ISOPHORONE | ND | 170 | 87 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 87 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 87 |
| NAPHTHALENE | ND | 170 | 87 |
| NITROBENZENE | ND | 170 | 87 |
| PENTACHLOROPHENOL | ND | 350 | 170 |
| PHENANTHRENE | ND | 170 | 87 |
| PHENOL | ND | 170 | 87 |
| PYRENE | ND | 170 | 87 |
| BENZYL ALCOHOL | ND | 170 | 87 |
| 1-METHYLNAPHTHALENE | ND | 170 | 87 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 87 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 87 |
| ANILINE | ND | 350 | 170 |
| BENZIDINE | ND | 860 | 440 |
| BENZOIC ACID | ND | 690 | 350 |
| CARBAZOLE | ND | 170 | 87 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 87 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 670 | 1040 | 64.5 | 35-130 |
| 2-FLUOROBIPHENYL | 166 | 346.5 | 47.9 | 45-130 |
| 2-FLUOROPHENOL | 503 | 1040 | 48.4 | 25-130 |
| NITROBENZENE-D5 | 153 | 346.5 | 44.2 | 40-130 |
| PHENOL-D5 | 523 | 1040 | 50.3 | 25-120 |
| TERPHENYL-D14 | 303 | 346.5 | 87.4 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 16:14 |
| Sample ID: SL-056-NBZ-SB-3.0-4.0 | Date Analyzed: 03/23/12 17:31 |
| Lab Samp ID: C135-12 | Dilution Factor: 1 |
| Lab File ID: RCJ362 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : 4.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 88 |
| 1,2-DICHLOROBENZENE | ND | 170 | 88 |
| 1,3-DICHLOROBENZENE | ND | 170 | 88 |
| 1,4-DICHLOROBENZENE | ND | 170 | 88 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 88 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 88 |
| 2,4-DICHLOROPHENOL | ND | 170 | 88 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 88 |
| 2,4-DINITROPHENOL | ND | 350 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 88 |
| 2,6-DINITROTOLUENE | ND | 170 | 88 |
| 2-CHLORONAPHTHALENE | ND | 170 | 88 |
| 2-CHLOROPHENOL | ND | 170 | 88 |
| 2-METHYLNAPHTHALENE | ND | 170 | 88 |
| 2-METHYLPHENOL | ND | 170 | 88 |
| 2-NITROANILINE | ND | 170 | 88 |
| 2-NITROPHENOL | ND | 170 | 88 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 88 |
| 3-NITROANILINE | ND | 170 | 88 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 88 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 88 |
| 4-CHLOROANILINE | ND | 170 | 88 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 88 |
| 4-METHYLPHENOL (1) | ND | 170 | 88 |
| 4-NITROANILINE | ND | 170 | 88 |
| 4-NITROPHENOL | ND | 350 | 170 |
| ACENAPHTHENE | ND | 170 | 88 |
| ACENAPHTHYLENE | ND | 170 | 88 |
| ANTHRACENE | ND | 170 | 88 |
| BENZO(A)ANTHRACENE | ND | 170 | 88 |
| BENZO(A)PYRENE | ND | 170 | 88 |
| BENZO(B)FLUORANTHENE | ND | 170 | 88 |
| BENZO(K)FLUORANTHENE | ND | 170 | 88 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 88 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 88 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 88 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 88 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 88 |
| CHRYSENE | ND | 170 | 88 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 88 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 88 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 88 |
| DIBENZOFURAN | ND | 170 | 88 |
| DIETHYLPHTHALATE | ND | 170 | 88 |
| DIMETHYLPHTHALATE | ND | 170 | 88 |
| FLUORANTHENE | ND | 170 | 88 |
| FLUORENE | ND | 170 | 88 |
| HEXACHLOROBENZENE | ND | 170 | 88 |
| HEXACHLOROBUTADIENE | ND | 170 | 88 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 88 |
| HEXACHLOROETHANE | ND | 170 | 88 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 88 |
| ISOPHORONE | ND | 170 | 88 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 88 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 88 |
| NAPHTHALENE | ND | 170 | 88 |
| NITROBENZENE | ND | 170 | 88 |
| PENTACHLOROPHENOL | ND | 350 | 170 |
| PHENANTHRENE | ND | 170 | 88 |
| PHENOL | ND | 170 | 88 |
| PYRENE | ND | 170 | 88 |
| BENZYL ALCOHOL | ND | 170 | 88 |
| 1-METHYLNAPHTHALENE | ND | 170 | 88 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 88 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 88 |
| ANILINE | ND | 350 | 170 |
| BENZIDINE | ND | 870 | 440 |
| BENZOIC ACID | ND | 700 | 350 |
| CARBAZOLE | ND | 170 | 88 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 88 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 710 | 1044 | 68.0 | 35-130 |
| 2-FLUOROBIPHENYL | 194 | 347.9 | 55.9 | 45-130 |
| 2-FLUOROPHENOL | 541 | 1044 | 51.9 | 25-130 |
| NITROBENZENE-D5 | 178 | 347.9 | 51.2 | 40-130 |
| PHENOL-D5 | 555 | 1044 | 53.2 | 25-120 |
| TERPHENYL-D14 | 289 | 347.9 | 83.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 16:14 |
| Sample ID: MBLK1S | Date Analyzed: 03/23/12 11:35 |
| Lab Samp ID: SVC030SB | Dilution Factor: 1 |
| Lab File ID: RCJ343 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 820 | 1000 | 82.0 | 35-130 |
| 2-FLUOROBIPHENYL | 271 | 333.3 | 81.4 | 45-130 |
| 2-FLUOROPHENOL | 785 | 1000 | 78.5 | 25-130 |
| NITROBENZENE-D5 | 245 | 333.3 | 73.6 | 40-130 |
| PHENOL-D5 | 777 | 1000 | 77.7 | 25-120 |
| TERPHENYL-D14 | 335 | 333.3 | 101 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVC030SB SVC030SL SVC030SC
LAB FILE ID: RCJ343 RCJ344 RCJ345
DATE EXTRACTED: 03/22/1216:14 03/22/1216:14 03/22/1216:14 DATE COLLECTED: NA
DATE ANALYZED: 03/23/1211:35 03/23/1211:54 03/23/1212:13 DATE RECEIVED: 03/22/12
PREP. BATCH: SVC030S SVC030S SVC030S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 457 | 68 | 667 | 390 | 59 | 16 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 465 | 70 | 667 | 390 | 59 | 17 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 466 | 70 | 667 | 382 | 57 | 20 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 463 | 69 | 667 | 393 | 59 | 16 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 483 | 72 | 667 | 423 | 63 | 13 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 536 | 80 | 667 | 471 | 71 | 13 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 537 | 81 | 667 | 461 | 69 | 15 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 515 | 77 | 667 | 459 | 69 | 12 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 415 | 62 | 667 | 378 | 57 | 9 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 590 | 88 | 667 | 574 | 86 | 3 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 574 | 86 | 667 | 524 | 79 | 9 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 551 | 83 | 667 | 483 | 72 | 13 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 556 | 83 | 667 | 467 | 70 | 17 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 579 | 87 | 667 | 496 | 74 | 15 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 490 | 73 | 667 | 402 | 60 | 20 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 525 | 79 | 667 | 472 | 71 | 11 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 549 | 82 | 667 | 454 | 68 | 19 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 507 | 76 | 667 | 502 | 75 | 1 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 480 | 72 | 667 | 472 | 71 | 2 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 545 | 82 | 667 | 544 | 82 | 0 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 539 | 81 | 667 | 501 | 75 | 7 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 505 | 76 | 667 | 460 | 69 | 9 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 458 | 69 | 667 | 386 | 58 | 17 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 583 | 87 | 667 | 533 | 80 | 9 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 481 | 72 | 667 | 413 | 62 | 15 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 489 | 73 | 667 | 464 | 70 | 5 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 390 | 59 | 667 | 421 | 63 | 8 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 570 | 86 | 667 | 509 | 76 | 11 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 577 | 87 | 667 | 550 | 82 | 5 | 30-130 | 50 |
| Anthracene | ND | 667 | 567 | 85 | 667 | 545 | 82 | 4 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 589 | 88 | 667 | 602 | 90 | 2 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 561 | 84 | 667 | 572 | 86 | 2 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 613 | 92 | 667 | 614 | 92 | 0 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 592 | 89 | 667 | 640 | 96 | 8 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 609 | 91 | 667 | 627 | 94 | 3 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 560 | 84 | 667 | 466 | 70 | 18 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 538 | 81 | 667 | 448 | 67 | 18 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 587 | 88 | 667 | 481 | 72 | 20 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 589 | 88 | 667 | 608 | 91 | 3 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 588 | 88 | 667 | 598 | 90 | 2 | 40-150 | 50 |
| Chrysene | ND | 667 | 615 | 92 | 667 | 626 | 94 | 2 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 558 | 84 | 667 | 569 | 85 | 2 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 567 | 85 | 667 | 590 | 88 | 4 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 607 | 91 | 667 | 629 | 94 | 4 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 540 | 81 | 667 | 490 | 73 | 10 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 554 | 83 | 667 | 534 | 80 | 4 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 543 | 81 | 667 | 510 | 76 | 6 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 600 | 90 | 667 | 605 | 91 | 1 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 578 | 87 | 667 | 533 | 80 | 8 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 541 | 81 | 667 | 524 | 79 | 3 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 495 | 74 | 667 | 418 | 63 | 17 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 321 | 48 | 667 | 271 | 41 | 17 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 479 | 72 | 667 | 376 | 56 | 24 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 604 | 91 | 667 | 626 | 94 | 4 | 30-140 | 50 |
| Isophorone | ND | 667 | 551 | 83 | 667 | 488 | 73 | 12 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 432 | 65 | 667 | 366 | 55 | 17 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 436 | 65 | 667 | 407 | 61 | 7 | 30-140 | 50 |
| Naphthalene | ND | 667 | 557 | 84 | 667 | 477 | 72 | 15 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 574 | 86 | 667 | 484 | 73 | 17 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 445 | 67 | 667 | 477 | 72 | 7 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 595 | 89 | 667 | 584 | 88 | 2 | 30-130 | 50 |
| Phenol | ND | 667 | 509 | 76 | 667 | 428 | 64 | 17 | 30-130 | 50 |
| Pyrene | ND | 667 | 592 | 89 | 667 | 608 | 91 | 3 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 493 | 74 | 667 | 420 | 63 | 16 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 572 | 86 | 667 | 502 | 75 | 13 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 505 | 76 | 667 | 455 | 68 | 11 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 492 | 74 | 667 | 465 | 70 | 6 | 20-150 | 50 |
| Aniline | ND | 667 | 346 | 52 | 667 | 286J | 43 | 19 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1090 | 41 | 2670 | 1080 | 40 | 1 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 657J | 25 | 2670 | 670 | 25 | 2 | 10-130 | 50 |
| Carbazole | ND | 667 | 534 | 80 | 667 | 533 | 80 | 0 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 551 | 83 | 667 | 455 | 68 | 19 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 838 | 84 | 1000 | 822 | 82 | 35-130 |
| 2-Fluorobiphenyl | 333 | 248 | 74 | 333 | 229 | 69 | 45-130 |
| 2-Fluorophenol | 1000 | 716 | 72 | 1000 | 611 | 61 | 25-130 |
| Nitrobenzene-d5 | 333 | 228 | 68 | 333 | 211 | 63 | 40-130 |
| Phenol-d5 | 1000 | 732 | 73 | 1000 | 643 | 64 | 25-120 |
| Terphenyl-d14 | 333 | 295 | 88 | 333 | 317 | 95 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 16:14 |
| Sample ID: SL-029-NBZ-SS-0.0-0.5 | Date Analyzed: 03/23/12 15:39 |
| Lab Samp ID: C135-03 | Dilution Factor: 1 |
| Lab File ID: RCJ356 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : 3.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.88 |
| ACENAPHTHYLENE | 2.4 | 1.8 | 0.88 |
| ANTHRACENE | 1.2J | 1.8 | 0.88 |
| BENZO(A)ANTHRACENE | 9.8 | 1.8 | 0.88 |
| BENZO(A)PYRENE | 11 | 1.8 | 0.88 |
| BENZO(B)FLUORANTHENE | 17 | 1.8 | 0.88 |
| BENZO(K)FLUORANTHENE | 4.8 | 1.8 | 0.88 |
| BENZO(G,H,I)PERYLENE | 8.7 | 1.8 | 0.88 |
| CHRYSENE | 9.5 | 1.8 | 0.88 |
| DIBENZO(A,H)ANTHRACENE | 1.9 | 1.8 | 0.88 |
| FLUORANTHENE | 18 | 1.8 | 0.88 |
| FLUORENE | ND | 1.8 | 0.88 |
| INDENO(1,2,3-CD)PYRENE | 7.2 | 1.8 | 0.88 |
| NAPHTHALENE | ND | 1.8 | 0.88 |
| PHENANTHRENE | 2.5 | 1.8 | 0.88 |
| PYRENE | 14 | 1.8 | 0.88 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.7 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.7 |
| DIETHYLPHTHALATE | ND | 17 | 8.7 |
| DIMETHYLPHTHALATE | ND | 17 | 8.7 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.88 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 248 | 343.6 | 72.1 | 40-130 |
| 2-FLUOROBIPHENYL | 247 | 343.6 | 71.8 | 45-130 |
| TERPHENYL-D14 | 308 | 343.6 | 89.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 16:14 |
| Sample ID: SL-052-NBZ-SS-0.0-0.5 | Date Analyzed: 03/23/12 15:57 |
| Lab Samp ID: C135-04 | Dilution Factor: 1 |
| Lab File ID: RCJ357 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : 2.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.87 |
| ACENAPHTHYLENE | ND | 1.7 | 0.87 |
| ANTHRACENE | ND | 1.7 | 0.87 |
| BENZO(A)ANTHRACENE | 4.9 | 1.7 | 0.87 |
| BENZO(A)PYRENE | 6.9 | 1.7 | 0.87 |
| BENZO(B)FLUORANTHENE | 9.1 | 1.7 | 0.87 |
| BENZO(K)FLUORANTHENE | 2.8 | 1.7 | 0.87 |
| BENZO(G,H,I)PERYLENE | 4.9 | 1.7 | 0.87 |
| CHRYSENE | 6.2 | 1.7 | 0.87 |
| DIBENZO(A,H)ANTHRACENE | 0.98J | 1.7 | 0.87 |
| FLUORANTHENE | 6.8 | 1.7 | 0.87 |
| FLUORENE | ND | 1.7 | 0.87 |
| INDENO(1,2,3-CD)PYRENE | 4.2 | 1.7 | 0.87 |
| NAPHTHALENE | ND | 1.7 | 0.87 |
| PHENANTHRENE | ND | 1.7 | 0.87 |
| PYRENE | 7.3 | 1.7 | 0.87 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.87 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.87 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 53 | 17 | 8.6 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.6 |
| DI-N-BUTYLPHTHALATE | 33 | 17 | 8.6 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.6 |
| DIETHYLPHTHALATE | ND | 17 | 8.6 |
| DIMETHYLPHTHALATE | ND | 17 | 8.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.87 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 242 | 341.1 | 71.0 | 40-130 |
| 2-FLUOROBIPHENYL | 244 | 341.1 | 71.4 | 45-130 |
| TERPHENYL-D14 | 295 | 341.1 | 86.4 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 16:14 |
| Sample ID: SL-053-NBZ-SS-0.0-0.5 | Date Analyzed: 03/23/12 16:16 |
| Lab Samp ID: C135-05 | Dilution Factor: 1 |
| Lab File ID: RCJ358 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : 1.9 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.87 |
| ACENAPHTHYLENE | ND | 1.7 | 0.87 |
| ANTHRACENE | 1.3J | 1.7 | 0.87 |
| BENZO(A)ANTHRACENE | 9.2 | 1.7 | 0.87 |
| BENZO(A)PYRENE | 11 | 1.7 | 0.87 |
| BENZO(B)FLUORANTHENE | 13 | 1.7 | 0.87 |
| BENZO(K)FLUORANTHENE | 5.4 | 1.7 | 0.87 |
| BENZO(G,H,I)PERYLENE | 7.6 | 1.7 | 0.87 |
| CHRYSENE | 12 | 1.7 | 0.87 |
| DIBENZO(A,H)ANTHRACENE | 1.7J | 1.7 | 0.87 |
| FLUORANTHENE | 15 | 1.7 | 0.87 |
| FLUORENE | ND | 1.7 | 0.87 |
| INDENO(1,2,3-CD)PYRENE | 6.6 | 1.7 | 0.87 |
| NAPHTHALENE | ND | 1.7 | 0.87 |
| PHENANTHRENE | 3.9 | 1.7 | 0.87 |
| PYRENE | 16 | 1.7 | 0.87 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.87 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.87 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 19 | 17 | 8.6 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.6 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.6 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.6 |
| DIETHYLPHTHALATE | ND | 17 | 8.6 |
| DIMETHYLPHTHALATE | ND | 17 | 8.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.87 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 160 | 339.8 | 47.2 | 40-130 |
| 2-FLUOROBIPHENYL | 171 | 339.8 | 50.4 | 45-130 |
| TERPHENYL-D14 | 297 | 339.8 | 87.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 16:14 |
| Sample ID: SL-056-NBZ-SS-0.0-0.5 | Date Analyzed: 03/23/12 16:35 |
| Lab Samp ID: C135-06 | Dilution Factor: 1 |
| Lab File ID: RCJ359 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : 2.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.87 |
| ACENAPHTHYLENE | ND | 1.7 | 0.87 |
| ANTHRACENE | ND | 1.7 | 0.87 |
| BENZO(A)ANTHRACENE | 5.3 | 1.7 | 0.87 |
| BENZO(A)PYRENE | 8.9 | 1.7 | 0.87 |
| BENZO(B)FLUORANTHENE | 10 | 1.7 | 0.87 |
| BENZO(K)FLUORANTHENE | 5.5 | 1.7 | 0.87 |
| BENZO(G,H,I)PERYLENE | 7.1 | 1.7 | 0.87 |
| CHRYSENE | 6.6 | 1.7 | 0.87 |
| DIBENZO(A,H)ANTHRACENE | 1.5J | 1.7 | 0.87 |
| FLUORANTHENE | 7.2 | 1.7 | 0.87 |
| FLUORENE | ND | 1.7 | 0.87 |
| INDENO(1,2,3-CD)PYRENE | 6.4 | 1.7 | 0.87 |
| NAPHTHALENE | ND | 1.7 | 0.87 |
| PHENANTHRENE | 1.8 | 1.7 | 0.87 |
| PYRENE | 8.0 | 1.7 | 0.87 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.87 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.87 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 16J | 17 | 8.6 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.6 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.6 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.6 |
| DIETHYLPHTHALATE | ND | 17 | 8.6 |
| DIMETHYLPHTHALATE | ND | 17 | 8.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.87 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 190 | 342.5 | 55.5 | 40-130 |
| 2-FLUOROBIPHENYL | 203 | 342.5 | 59.3 | 45-130 |
| TERPHENYL-D14 | 278 | 342.5 | 81.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 16:14 |
| Sample ID: SL-058-NBZ-SB-4.0-5.0 | Date Analyzed: 03/23/12 16:54 |
| Lab Samp ID: C135-08 | Dilution Factor: 1 |
| Lab File ID: RCJ360 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : 5.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.90 |
| ACENAPHTHYLENE | ND | 1.8 | 0.90 |
| ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)PYRENE | ND | 1.8 | 0.90 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.90 |
| CHRYSENE | ND | 1.8 | 0.90 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.90 |
| FLUORANTHENE | ND | 1.8 | 0.90 |
| FLUORENE | ND | 1.8 | 0.90 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.90 |
| NAPHTHALENE | ND | 1.8 | 0.90 |
| PHENANTHRENE | ND | 1.8 | 0.90 |
| PYRENE | ND | 1.8 | 0.90 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 8.9 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 8.9 |
| DIETHYLPHTHALATE | ND | 18 | 8.9 |
| DIMETHYLPHTHALATE | ND | 18 | 8.9 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.90 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 202 | 351.6 | 57.4 | 40-130 |
| 2-FLUOROBIPHENYL | 204 | 351.6 | 57.9 | 45-130 |
| TERPHENYL-D14 | 321 | 351.6 | 91.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 16:14 |
| Sample ID: SL-053-NBZ-SB-3.5-4.5 | Date Analyzed: 03/23/12 17:12 |
| Lab Samp ID: C135-10 | Dilution Factor: 1 |
| Lab File ID: RCJ361 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : 3.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.88 |
| ACENAPHTHYLENE | ND | 1.8 | 0.88 |
| ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)PYRENE | ND | 1.8 | 0.88 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.88 |
| CHRYSENE | ND | 1.8 | 0.88 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.88 |
| FLUORANTHENE | ND | 1.8 | 0.88 |
| FLUORENE | ND | 1.8 | 0.88 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.88 |
| NAPHTHALENE | ND | 1.8 | 0.88 |
| PHENANTHRENE | ND | 1.8 | 0.88 |
| PYRENE | ND | 1.8 | 0.88 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.7 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.7 |
| DIETHYLPHTHALATE | ND | 17 | 8.7 |
| DIMETHYLPHTHALATE | ND | 17 | 8.7 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.88 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 175 | 346.5 | 50.5 | 40-130 |
| 2-FLUOROBIPHENYL | 163 | 346.5 | 47.0 | 45-130 |
| TERPHENYL-D14 | 288 | 346.5 | 83.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 16:14 |
| Sample ID: SL-056-NBZ-SB-3.0-4.0 | Date Analyzed: 03/23/12 17:31 |
| Lab Samp ID: C135-12 | Dilution Factor: 1 |
| Lab File ID: RCJ362 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : 4.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.89 |
| ACENAPHTHYLENE | ND | 1.8 | 0.89 |
| ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)PYRENE | ND | 1.8 | 0.89 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.89 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.89 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.89 |
| CHRYSENE | ND | 1.8 | 0.89 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.89 |
| FLUORANTHENE | ND | 1.8 | 0.89 |
| FLUORENE | ND | 1.8 | 0.89 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.89 |
| NAPHTHALENE | ND | 1.8 | 0.89 |
| PHENANTHRENE | ND | 1.8 | 0.89 |
| PYRENE | ND | 1.8 | 0.89 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.8 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.8 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.8 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.8 |
| DIETHYLPHTHALATE | ND | 17 | 8.8 |
| DIMETHYLPHTHALATE | ND | 17 | 8.8 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.89 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 193 | 347.9 | 55.6 | 40-130 |
| 2-FLUOROBIPHENYL | 185 | 347.9 | 53.1 | 45-130 |
| TERPHENYL-D14 | 284 | 347.9 | 81.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 16:14 |
| Sample ID: MBLK1S | Date Analyzed: 03/23/12 11:35 |
| Lab Samp ID: SVC030SB | Dilution Factor: 1 |
| Lab File ID: RCJ343 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 269 | 333.3 | 80.8 | 40-130 |
| 2-FLUOROBIPHENYL | 259 | 333.3 | 77.8 | 45-130 |
| TERPHENYL-D14 | 329 | 333.3 | 98.6 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVC030SB | SVC030SX | SVC030SY | | |
| LAB FILE ID: | RCJ343 | RCJ346 | RCJ347 | | |
| DATE EXTRACTED: | 03/22/1216:14 | 03/22/1216:14 | 03/22/1216:14 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1211:35 | 03/23/1212:31 | 03/23/1212:50 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | SVC030S | SVC030S | SVC030S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 263 | 79 | 333 | 255 | 76 | 3 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 284 | 85 | 333 | 273 | 82 | 4 | 20-130 | 50 |
| Anthracene | ND | 333 | 270 | 81 | 333 | 278 | 83 | 3 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 291 | 87 | 333 | 331 | 99 | 13 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 313 | 94 | 333 | 325 | 97 | 4 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 323 | 97 | 333 | 354 | 106 | 9 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 345 | 104 | 333 | 338 | 101 | 2 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 341 | 102 | 333 | 353 | 106 | 3 | 30-140 | 50 |
| Chrysene | ND | 333 | 282 | 85 | 333 | 323 | 97 | 13 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 350 | 105 | 333 | 362 | 109 | 3 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 301 | 90 | 333 | 327 | 98 | 8 | 30-130 | 50 |
| Fluorene | ND | 333 | 286 | 86 | 333 | 274 | 82 | 4 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 349 | 105 | 333 | 362 | 109 | 4 | 20-160 | 50 |
| Naphthalene | ND | 333 | 242 | 73 | 333 | 244 | 73 | 1 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 274 | 82 | 333 | 283 | 85 | 3 | 20-130 | 50 |
| Pyrene | ND | 333 | 287 | 86 | 333 | 316 | 95 | 9 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 261 | 78 | 333 | 259 | 78 | 1 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 263 | 79 | 333 | 260 | 78 | 1 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 276 | 83 | 333 | 313 | 94 | 12 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 257 | 77 | 333 | 293 | 88 | 13 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 272 | 81 | 333 | 288 | 86 | 6 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 262 | 79 | 333 | 275 | 82 | 5 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 283 | 85 | 333 | 280 | 84 | 1 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 272 | 82 | 333 | 262 | 79 | 4 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 230 | 69 | 333 | 235 | 70 | 2 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 235 | 71 | 333 | 223 | 67 | 40-130 |
| 2-Fluorobiphenyl | 333 | 227 | 68 | 333 | 209 | 63 | 45-130 |
| Terphenyl-d14 | 333 | 292 | 88 | 333 | 309 | 93 | 45-135 |

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/16/12 22:08 |
| Sample ID: EB-NBZ-SB-031512 | Date Analyzed: 03/16/12 22:08 |
| Lab Samp ID: C135-01 | Dilution Factor: 1 |
| Lab File ID: EC16009A | Matrix : WATER |
| Ext Btch ID: VA39C09 | % Moisture : NA |
| Calib. Ref.: EC16002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 30J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 33.5 | 40.00 | 83.8 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/21/12 17:54 |
| Sample ID: EB-NBZ-SS-031512 | Date Analyzed: 03/21/12 17:54 |
| Lab Samp ID: C135-02 | Dilution Factor: 1 |
| Lab File ID: EC20036A | Matrix : WATER |
| Ext Btch ID: VA39C11 | % Moisture : NA |
| Calib. Ref.: EC20035A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 26J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 36.0 | 40.00 | 89.9 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/16/12 22:50 |
| Sample ID: TB-031512 | Date Analyzed: 03/16/12 22:50 |
| Lab Samp ID: C135-13 | Dilution Factor: 1 |
| Lab File ID: EC16010A | Matrix : WATER |
| Ext Btch ID: VA39C09 | % Moisture : NA |
| Calib. Ref.: EC16002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 34J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 33.3 | 40.00 | 83.1 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/21/12 |
| Batch No. : 12C135 | Date Extracted: 03/21/12 15:07 |
| Sample ID: MBLK2W | Date Analyzed: 03/21/12 15:07 |
| Lab Samp ID: VA39C11B | Dilution Factor: 1 |
| Lab File ID: EC20032A | Matrix : WATER |
| Ext Btch ID: VA39C11 | % Moisture : NA |
| Calib. Ref.: EC20024A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 32.7 | 40.00 | 81.9 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 5030B/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VA39C09Q | VA39C09L | VA39C09C | | |
| LAB FILE ID: | EC16014A | EC16004A | EC16005A | | |
| DATE EXTRACTED: | 03/17/1201:37 | 03/16/1218:39 | 03/16/1219:21 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/17/1201:37 | 03/16/1218:39 | 03/16/1219:21 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | VA39C09 | VA39C09 | VA39C09 | | |
| CALIB. REF: | EC16013A | EC16002A | EC16002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 500 | 505 | 101 | 500 | 491 | 98 | 3 | 60-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 40.0 | 39.6 | 99 | 40.0 | 38.4 | 96 | 60-130 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 5030B/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK2W | | | | |
| LAB SAMP ID: | VA39C11B | VA39C11L | VA39C11C | | |
| LAB FILE ID: | EC20032A | EC20033A | EC20034A | | |
| DATE EXTRACTED: | 03/21/1215:07 | 03/21/1215:49 | 03/21/1216:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/21/1215:07 | 03/21/1215:49 | 03/21/1216:30 | DATE RECEIVED: | 03/21/12 |
| PREP. BATCH: | VA39C11 | VA39C11 | VA39C11 | | |
| CALIB. REF: | EC20024A | EC20024A | EC20024A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 500 | 535 | 107 | 500 | 530 | 106 | 1 | 60-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 40.0 | 40.6 | 102 | 40.0 | 39.9 | 100 | 60-130 |

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/17/12 |
| Batch No. : 12C135 | Date Extracted: 03/17/12 01:37 |
| Sample ID: MBLK1W | Date Analyzed: 03/17/12 01:37 |
| Lab Samp ID: VA39C09Q | Dilution Factor: 1 |
| Lab File ID: EC16014A | Matrix : WATER |
| Ext Btch ID: VA39C09 | % Moisture : NA |
| Calib. Ref.: EC16013A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 33.8 | 40.00 | 84.6 | 60-130 |

RL : Reporting Limit

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/17/12 14:13 |
| Sample ID: SL-058-NBZ-SB-4.5 | Date Analyzed: 03/17/12 14:13 |
| Lab Samp ID: C135-07 | Dilution Factor: 1.07 |
| Lab File ID: EC16032A | Matrix : SOIL |
| Ext Btch ID: GMC013S | % Moisture : 5.3 |
| Calib. Ref.: EC16024A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.56 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.83 | 2.260 | 81.2 | 60-130 |

RL : Reporting Limit

METHANOL EXTRACTION: 03/16/12 12:41

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/17/12 14:55 |
| Sample ID: SL-053-NBZ-SB-4.0 | Date Analyzed: 03/17/12 14:55 |
| Lab Samp ID: C135-09 | Dilution Factor: 1.07 |
| Lab File ID: EC16033A | Matrix : SOIL |
| Ext Btch ID: GMC013S | % Moisture : 4.2 |
| Calib. Ref.: EC16024A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.56 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.86 | 2.234 | 83.4 | 60-130 |

RL : Reporting Limit

METHANOL EXTRACTION: 03/16/12 12:41

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/17/12 15:37 |
| Sample ID: SL-056-NBZ-SB-3.5 | Date Analyzed: 03/17/12 15:37 |
| Lab Samp ID: C135-11 | Dilution Factor: 0.99 |
| Lab File ID: EC16034A | Matrix : SOIL |
| Ext Btch ID: GMC013S | % Moisture : 2.9 |
| Calib. Ref.: EC16024A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.51 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.55 | 2.039 | 76.0 | 60-130 |

RL : Reporting Limit

METHANOL EXTRACTION: 03/16/12 12:41

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/17/12 |
| Batch No. : 12C135 | Date Extracted: 03/17/12 12:07 |
| Sample ID: MBLK1S | Date Analyzed: 03/17/12 12:07 |
| Lab Samp ID: GMC013SB | Dilution Factor: 1 |
| Lab File ID: EC16029A | Matrix : SOIL |
| Ext Btch ID: GMC013S | % Moisture : NA |
| Calib. Ref.: EC16024A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.70 | 2.000 | 85.2 | 60-130 |

RL : Reporting Limit

METHANOL EXTRACTION: 03/16/12 12:41

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 5035/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | GMC013SB | GMC013SL | GMC013SC | | |
| LAB FILE ID: | EC16029A | EC16030A | EC16031A | | |
| DATE EXTRACTED: | 03/17/1212:07 | 03/17/1212:49 | 03/17/1213:31 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/17/1212:07 | 03/17/1212:49 | 03/17/1213:31 | DATE RECEIVED: | 03/17/12 |
| PREP. BATCH: | GMC013S | GMC013S | GMC013S | | |
| CALIB. REF: | EC16024A | EC16024A | EC16024A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 25.0 | 24.6 | 98 | 25.0 | 23.1 | 92 | 6 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 2.00 | 2.06 | 103 | 2.00 | 1.93 | 97 | 60-130 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/16/12 11:23 |
| Sample ID: EB-NBZ-SB-031512 | Date Analyzed: 03/16/12 11:23 |
| Lab Samp ID: C135-01 | Dilution Factor: 1 |
| Lab File ID: BC16006A | Matrix : WATER |
| Ext Btch ID: MEC002W | % Moisture : NA |
| Calib. Ref.: BC16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/16/12 11:39 |
| Sample ID: EB-NBZ-SS-031512 | Date Analyzed: 03/16/12 11:39 |
| Lab Samp ID: C135-02 | Dilution Factor: 1 |
| Lab File ID: BC16007A | Matrix : WATER |
| Ext Btch ID: MEC002W | % Moisture : NA |
| Calib. Ref.: BC16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/16/12 10:30 |
| Sample ID: MBLK1W | Date Analyzed: 03/16/12 10:30 |
| Lab Samp ID: MEC002WB | Dilution Factor: 1 |
| Lab File ID: BC16003A | Matrix : WATER |
| Ext Btch ID: MEC002W | % Moisture : NA |
| Calib. Ref.: BC16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | MEC002WB | MEC002WL | MEC002WC | | |
| LAB FILE ID: | BC16003A | BC16004A | BC16005A | | |
| DATE EXTRACTED: | 03/16/1210:30 | 03/16/1210:49 | 03/16/1211:06 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/16/1210:30 | 03/16/1210:49 | 03/16/1211:06 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | MEC002W | MEC002W | MEC002W | | |
| CALIB. REF: | BC16002A | BC16002A | BC16002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 9790 | 98 | 10000 | 10400 | 104 | 6 | 50-150 | 30 |
| Isopropanol | ND | 10000 | 12100 | 121 | 10000 | 11200 | 112 | 8 | 50-150 | 30 |
| Methanol | ND | 10000 | 8790 | 88 | 10000 | 9020 | 90 | 3 | 50-150 | 30 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/16/12 11:40 |
| Sample ID: SL-029-NBZ-SS-0.0-0.5 | Date Analyzed: 03/16/12 16:02 |
| Lab Samp ID: C135-03 | Dilution Factor: 1 |
| Lab File ID: BC16022A | Matrix : SOIL |
| Ext Btch ID: MEC004S | % Moisture : 3.0 |
| Calib. Ref.: BC16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/16/12 11:40 |
| Sample ID: SL-052-NBZ-SS-0.0-0.5 | Date Analyzed: 03/16/12 16:17 |
| Lab Samp ID: C135-04 | Dilution Factor: 1 |
| Lab File ID: BC16023A | Matrix : SOIL |
| Ext Btch ID: MEC004S | % Moisture : 2.3 |
| Calib. Ref.: BC16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 510 | 260 |
| ISOPROPANOL | ND | 510 | 260 |
| METHANOL | ND | 510 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/16/12 11:40 |
| Sample ID: SL-053-NBZ-SS-0.0-0.5 | Date Analyzed: 03/16/12 16:32 |
| Lab Samp ID: C135-05 | Dilution Factor: 1 |
| Lab File ID: BC16024A | Matrix : SOIL |
| Ext Btch ID: MEC004S | % Moisture : 1.9 |
| Calib. Ref.: BC16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 510 | 250 |
| ISOPROPANOL | ND | 510 | 250 |
| METHANOL | ND | 510 | 250 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/16/12 11:40 |
| Sample ID: SL-056-NBZ-SS-0.0-0.5 | Date Analyzed: 03/16/12 16:47 |
| Lab Samp ID: C135-06 | Dilution Factor: 1 |
| Lab File ID: BC16025A | Matrix : SOIL |
| Ext Btch ID: MEC004S | % Moisture : 2.7 |
| Calib. Ref.: BC16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 510 | 260 |
| ISOPROPANOL | ND | 510 | 260 |
| METHANOL | ND | 510 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/16/12 11:40 |
| Sample ID: SL-058-NBZ-SB-4.0-5.0 | Date Analyzed: 03/16/12 17:01 |
| Lab Samp ID: C135-08 | Dilution Factor: 1 |
| Lab File ID: BC16026A | Matrix : SOIL |
| Ext Btch ID: MEC004S | % Moisture : 5.2 |
| Calib. Ref.: BC16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 530 | 260 |
| ISOPROPANOL | ND | 530 | 260 |
| METHANOL | ND | 530 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/16/12 11:40 |
| Sample ID: SL-053-NBZ-SB-3.5-4.5 | Date Analyzed: 03/16/12 17:18 |
| Lab Samp ID: C135-10 | Dilution Factor: 1 |
| Lab File ID: BC16027A | Matrix : SOIL |
| Ext Btch ID: MEC004S | % Moisture : 3.8 |
| Calib. Ref.: BC16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/16/12 11:40 |
| Sample ID: SL-056-NBZ-SB-3.0-4.0 | Date Analyzed: 03/16/12 17:32 |
| Lab Samp ID: C135-12 | Dilution Factor: 1 |
| Lab File ID: BC16028A | Matrix : SOIL |
| Ext Btch ID: MEC004S | % Moisture : 4.2 |
| Calib. Ref.: BC16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/16/12 11:40 |
| Sample ID: MBLK1S | Date Analyzed: 03/16/12 15:18 |
| Lab Samp ID: MEC004SB | Dilution Factor: 1 |
| Lab File ID: BC16019A | Matrix : SOIL |
| Ext Btch ID: MEC004S | % Moisture : NA |
| Calib. Ref.: BC16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 500 | 250 |
| ISOPROPANOL | ND | 500 | 250 |
| METHANOL | ND | 500 | 250 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | MEC004SB | MEC004SL | MEC004SC | | |
| LAB FILE ID: | BC16019A | BC16020A | BC16021A | | |
| DATE EXTRACTED: | 03/16/1211:40 | 03/16/1211:40 | 03/16/1211:40 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/16/1215:18 | 03/16/1215:34 | 03/16/1215:49 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | MEC004S | MEC004S | MEC004S | | |
| CALIB. REF: | BC16002A | BC16002A | BC16002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 9780 | 98 | 10000 | 10100 | 101 | 3 | 50-150 | 50 |
| Isopropanol | ND | 10000 | 12000 | 120 | 10000 | 11300 | 113 | 7 | 50-150 | 50 |
| Methanol | ND | 10000 | 10500 | 105 | 10000 | 9470 | 95 | 10 | 50-150 | 50 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/16/12 16:43 |
| Sample ID: EB-NBZ-SB-031512 | Date Analyzed: 03/16/12 16:43 |
| Lab Samp ID: C135-01 | Dilution Factor: 1 |
| Lab File ID: TC16009A | Matrix : WATER |
| Ext Btch ID: PEC001W | % Moisture : NA |
| Calib. Ref.: TC16003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/15/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/16/12 |
| Batch No. | : 12C135 | Date Extracted | : 03/16/12 16:56 |
| Sample ID | : EB-NBZ-SS-031512 | Date Analyzed | : 03/16/12 16:56 |
| Lab Samp ID | : C135-02 | Dilution Factor | : 1 |
| Lab File ID | : TC16010A | Matrix | : WATER |
| Ext Btch ID | : PEC001W | % Moisture | : NA |
| Calib. Ref. | : TC16003A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/16/12 16:03 |
| Sample ID: MBLK1W | Date Analyzed: 03/16/12 16:03 |
| Lab Samp ID: PEC001WB | Dilution Factor: 1 |
| Lab File ID: TC16006A | Matrix : WATER |
| Ext Btch ID: PEC001W | % Moisture : NA |
| Calib. Ref.: TC16003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | PEC001WB | PEC001WX | PEC001WC | | |
| LAB FILE ID: | TC16006A | TC16011A | TC16005A | | |
| DATE EXTRACTED: | 03/16/1216:03 | 03/16/1217:08 | 03/16/1215:40 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/16/1216:03 | 03/16/1217:08 | 03/16/1215:40 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | PEC001W | PEC001W | PEC001W | | |
| CALIB. REF: | TC16003A | TC16003A | TC16003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 41.3 | 83 | 50.0 | 46.9 | 94 | 13 | 50-150 | 30 |
| Ethylene Glycol | ND | 50.0 | 45.5 | 91 | 50.0 | 48.0 | 96 | 5 | 50-150 | 30 |
| Propylene Glycol | ND | 25.0 | 28.1 | 112 | 25.0 | 29.1 | 117 | 4 | 50-150 | 30 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/20/12 12:15 |
| Sample ID: SL-029-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 09:47 |
| Lab Samp ID: C135-03 | Dilution Factor: 1 |
| Lab File ID: TC21007A | Matrix : SOIL |
| Ext Btch ID: PEC003S | % Moisture : 3.0 |
| Calib. Ref.: TC21002A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.7 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/20/12 12:15 |
| Sample ID: SL-052-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 09:59 |
| Lab Samp ID: C135-04 | Dilution Factor: 1 |
| Lab File ID: TC21008A | Matrix : SOIL |
| Ext Btch ID: PEC003S | % Moisture : 2.3 |
| Calib. Ref.: TC21002A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.7 |
| ETHYLENE GLYCOL | ND | 10 | 5.1 |
| PROPYLENE GLYCOL | ND | 10 | 5.1 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/20/12 12:15 |
| Sample ID: SL-053-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 10:11 |
| Lab Samp ID: C135-05 | Dilution Factor: 1 |
| Lab File ID: TC21009A | Matrix : SOIL |
| Ext Btch ID: PEC003S | % Moisture : 1.9 |
| Calib. Ref.: TC21002A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.6 |
| ETHYLENE GLYCOL | ND | 10 | 5.1 |
| PROPYLENE GLYCOL | ND | 10 | 5.1 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/20/12 12:15 |
| Sample ID: SL-056-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 10:25 |
| Lab Samp ID: C135-06 | Dilution Factor: 1 |
| Lab File ID: TC21010A | Matrix : SOIL |
| Ext Btch ID: PEC003S | % Moisture : 2.7 |
| Calib. Ref.: TC21002A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.7 |
| ETHYLENE GLYCOL | ND | 10 | 5.1 |
| PROPYLENE GLYCOL | ND | 10 | 5.1 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/15/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/16/12 |
| Batch No. | : 12C135 | Date Extracted | : 03/20/12 12:15 |
| Sample ID | : SL-058-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/21/12 10:40 |
| Lab Samp ID | : C135-08 | Dilution Factor | : 1 |
| Lab File ID | : TC21011A | Matrix | : SOIL |
| Ext Btch ID | : PEC003S | % Moisture | : 5.2 |
| Calib. Ref. | : TC21002A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.9 |
| ETHYLENE GLYCOL | ND | 11 | 5.3 |
| PROPYLENE GLYCOL | ND | 11 | 5.3 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/15/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/16/12 |
| Batch No. | : 12C135 | Date Extracted | : 03/20/12 12:15 |
| Sample ID | : SL-053-NBZ-SB-3.5-4.5 | Date Analyzed | : 03/21/12 10:52 |
| Lab Samp ID | : C135-10 | Dilution Factor | : 1 |
| Lab File ID | : TC21012A | Matrix | : SOIL |
| Ext Btch ID | : PEC003S | % Moisture | : 3.8 |
| Calib. Ref. | : TC21002A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.8 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/15/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/16/12 |
| Batch No. | : 12C135 | Date Extracted | : 03/20/12 12:15 |
| Sample ID | : SL-056-NBZ-SB-3.0-4.0 | Date Analyzed | : 03/21/12 11:54 |
| Lab Samp ID | : C135-12 | Dilution Factor | : 1 |
| Lab File ID | : TC21015A | Matrix | : SOIL |
| Ext Btch ID | : PEC003S | % Moisture | : 4.2 |
| Calib. Ref. | : TC21013A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.8 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/20/12 |
| Batch No. | : 12C135 | Date Extracted | : 03/20/12 12:15 |
| Sample ID | : MBLK1S | Date Analyzed | : 03/21/12 08:29 |
| Lab Samp ID | : PEC003SB | Dilution Factor | : 1 |
| Lab File ID | : TC21003A | Matrix | : SOIL |
| Ext Btch ID | : PEC003S | % Moisture | : NA |
| Calib. Ref. | : TC21002A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.5 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 5.0 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PEC003SB | PEC003SL | PEC003SC | | |
| LAB FILE ID: | TC21003A | TC21005A | TC21006A | | |
| DATE EXTRACTED: | 03/20/1212:15 | 03/20/1212:15 | 03/20/1212:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/21/1208:29 | 03/21/1209:04 | 03/21/1209:16 | DATE RECEIVED: | 03/20/12 |
| PREP. BATCH: | PEC003S | PEC003S | PEC003S | | |
| CALIB. REF: | TC21002A | TC21002A | TC21002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 43.7 | 87 | 50.0 | 52.5 | 105 | 18 | 50-150 | 50 |
| Ethylene Glycol | ND | 50.0 | 49.1 | 98 | 50.0 | 54.8 | 110 | 11 | 50-150 | 50 |
| Propylene Glycol | ND | 25.0 | 26.0 | 104 | 25.0 | 28.4 | 113 | 9 | 50-150 | 50 |

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/19/12 15:45 |
| Sample ID: EB-NBZ-SB-031512 | Date Analyzed: 03/20/12 16:50 |
| Lab Samp ID: C135-01 | Dilution Factor: 1 |
| Lab File ID: LC20018A | Matrix : WATER |
| Ext Btch ID: DSC020W | % Moisture : NA |
| Calib. Ref.: LC20015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.50 | 0.10 |
| EFH(C12-C14) | ND | 0.50 | 0.10 |
| EFH(C15-C20) | ND | 0.50 | 0.10 |
| EFH(C21-C30) | ND | 0.50 | 0.10 |
| EFH(C30-C40) | ND | 0.50 | 0.10 |
| TOTAL EFH(C8-C40) | ND | 0.50 | 0.10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.850 | 1.000 | 85.0 | 40-130 |
| HEXACOSANE | 0.233 | 0.2500 | 93.1 | 40-150 |

RL : Reporting Limit

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/19/12 15:45 |
| Sample ID: EB-NBZ-SS-031512 | Date Analyzed: 03/20/12 17:07 |
| Lab Samp ID: C135-02 | Dilution Factor: 1 |
| Lab File ID: LC20019A | Matrix : WATER |
| Ext Btch ID: DSC020W | % Moisture : NA |
| Calib. Ref.: LC20015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.50 | 0.10 |
| EFH(C12-C14) | ND | 0.50 | 0.10 |
| EFH(C15-C20) | ND | 0.50 | 0.10 |
| EFH(C21-C30) | ND | 0.50 | 0.10 |
| EFH(C30-C40) | ND | 0.50 | 0.10 |
| TOTAL EFH(C8-C40) | ND | 0.50 | 0.10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.885 | 1.000 | 88.5 | 40-130 |
| HEXACOSANE | 0.243 | 0.2500 | 97.1 | 40-150 |

RL : Reporting Limit

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C135 | Date Extracted: 03/19/12 15:45 |
| Sample ID: MBLK1W | Date Analyzed: 03/20/12 15:08 |
| Lab Samp ID: DSC020WB | Dilution Factor: 1 |
| Lab File ID: LC20012A | Matrix : WATER |
| Ext Btch ID: DSC020W | % Moisture : NA |
| Calib. Ref.: LC20003A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.50 | 0.10 |
| EFH(C12-C14) | ND | 0.50 | 0.10 |
| EFH(C15-C20) | ND | 0.50 | 0.10 |
| EFH(C21-C30) | ND | 0.50 | 0.10 |
| EFH(C30-C40) | ND | 0.50 | 0.10 |
| TOTAL EFH(C8-C40) | ND | 0.50 | 0.10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.823 | 1.000 | 82.3 | 40-130 |
| HEXACOSANE | 0.229 | 0.2500 | 91.6 | 40-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 3520C/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | DSC020WB | DSC020WX | DSC020WC | | |
| LAB FILE ID: | LC20012A | LC20011A | LC20010A | | |
| DATE EXTRACTED: | 03/19/1215:45 | 03/19/1215:45 | 03/19/1215:45 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/20/1215:08 | 03/20/1214:52 | 03/20/1214:35 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | DSC020W | DSC020W | DSC020W | | |
| CALIB. REF: | LC20003A | LC20003A | LC20003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 5.00 | 4.93 | 99 | 5.00 | 4.78 | 96 | 3 | 20-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 1.00 | 0.878 | 88 | 1.00 | 0.877 | 88 | 40-130 |
| Hexacosane | 0.250 | 0.233 | 93 | 0.250 | 0.234 | 93 | 40-150 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/23/12 10:45 |
| Sample ID: SL-029-NBZ-SS-0.0-0.5 | Date Analyzed: 03/23/12 19:59 |
| Lab Samp ID: C135-03 | Dilution Factor: 1 |
| Lab File ID: LC23011A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : 3.0 |
| Calib. Ref.: LC23003A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 1.1 | 1.0 | 0.52 |
| EFH(C12-C14) | 1.1 | 1.0 | 0.52 |
| EFH(C15-C20) | 0.96J | 1.0 | 0.52 |
| EFH(C21-C30) | 12 | 1.0 | 0.52 |
| EFH(C30-C40) | 31 | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | 46 | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.70 | 10.31 | 74.6 | 50-150 |
| HEXACOSANE | 3.48 | 2.577 | 135 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/23/12 10:45 |
| Sample ID: SL-052-NBZ-SS-0.0-0.5 | Date Analyzed: 03/23/12 20:16 |
| Lab Samp ID: C135-04 | Dilution Factor: 1 |
| Lab File ID: LC23012A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : 2.3 |
| Calib. Ref.: LC23003A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.51 |
| EFH(C12-C14) | ND | 1.0 | 0.51 |
| EFH(C15-C20) | ND | 1.0 | 0.51 |
| EFH(C21-C30) | 2.5 | 1.0 | 0.51 |
| EFH(C30-C40) | 7.7 | 1.0 | 0.51 |
| TOTAL EFH(C8-C40) | 10 | 1.0 | 0.51 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.21 | 10.24 | 70.5 | 50-150 |
| HEXACOSANE | 2.28 | 2.559 | 89.2 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/23/12 10:45 |
| Sample ID: SL-053-NBZ-SS-0.0-0.5 | Date Analyzed: 03/23/12 20:49 |
| Lab Samp ID: C135-05 | Dilution Factor: 1 |
| Lab File ID: LC23014A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : 1.9 |
| Calib. Ref.: LC23003A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.51 |
| EFH(C12-C14) | ND | 1.0 | 0.51 |
| EFH(C15-C20) | 1.3 | 1.0 | 0.51 |
| EFH(C21-C30) | 22 | 1.0 | 0.51 |
| EFH(C30-C40) | 37 | 1.0 | 0.51 |
| TOTAL EFH(C8-C40) | 60 | 1.0 | 0.51 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.64 | 10.19 | 65.1 | 50-150 |
| HEXACOSANE | 2.39 | 2.548 | 93.9 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/23/12 10:45 |
| Sample ID: SL-056-NBZ-SS-0.0-0.5 | Date Analyzed: 03/23/12 20:33 |
| Lab Samp ID: C135-06 | Dilution Factor: 1 |
| Lab File ID: LC23013A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : 2.7 |
| Calib. Ref.: LC23003A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.51 |
| EFH(C12-C14) | ND | 1.0 | 0.51 |
| EFH(C15-C20) | 1.8 | 1.0 | 0.51 |
| EFH(C21-C30) | 18 | 1.0 | 0.51 |
| EFH(C30-C40) | 37 | 1.0 | 0.51 |
| TOTAL EFH(C8-C40) | 57 | 1.0 | 0.51 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.21 | 10.28 | 70.1 | 50-150 |
| HEXACOSANE | 2.90 | 2.569 | 113 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/23/12 10:45 |
| Sample ID: SL-058-NBZ-SB-4.0-5.0 | Date Analyzed: 03/23/12 19:08 |
| Lab Samp ID: C135-08 | Dilution Factor: 1 |
| Lab File ID: LC23008A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : 5.2 |
| Calib. Ref.: LC23003A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.54J | 1.1 | 0.53 |
| EFH(C12-C14) | ND | 1.1 | 0.53 |
| EFH(C15-C20) | ND | 1.1 | 0.53 |
| EFH(C21-C30) | 0.67J | 1.1 | 0.53 |
| EFH(C30-C40) | 1.7 | 1.1 | 0.53 |
| TOTAL EFH(C8-C40) | 2.9 | 1.1 | 0.53 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 5.99 | 10.55 | 56.8 | 50-150 |
| HEXACOSANE | 1.78 | 2.637 | 67.5 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/23/12 10:45 |
| Sample ID: SL-053-NBZ-SB-3.5-4.5 | Date Analyzed: 03/23/12 19:25 |
| Lab Samp ID: C135-10 | Dilution Factor: 1 |
| Lab File ID: LC23009A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : 3.8 |
| Calib. Ref.: LC23003A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.52 |
| EFH(C12-C14) | ND | 1.0 | 0.52 |
| EFH(C15-C20) | ND | 1.0 | 0.52 |
| EFH(C21-C30) | 0.65J | 1.0 | 0.52 |
| EFH(C30-C40) | 1.3 | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | 2.0 | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.37 | 10.40 | 61.3 | 50-150 |
| HEXACOSANE | 2.17 | 2.599 | 83.6 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/23/12 10:45 |
| Sample ID: SL-056-NBZ-SB-3.0-4.0 | Date Analyzed: 03/23/12 19:42 |
| Lab Samp ID: C135-12 | Dilution Factor: 1 |
| Lab File ID: LC23010A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : 4.2 |
| Calib. Ref.: LC23003A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.52 |
| EFH(C12-C14) | ND | 1.0 | 0.52 |
| EFH(C15-C20) | ND | 1.0 | 0.52 |
| EFH(C21-C30) | 1.4 | 1.0 | 0.52 |
| EFH(C30-C40) | 2.5 | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | 3.9 | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.72 | 10.44 | 64.4 | 50-150 |
| HEXACOSANE | 2.15 | 2.610 | 82.5 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C135 | Date Extracted: 03/23/12 10:45 |
| Sample ID: MBLK1S | Date Analyzed: 03/23/12 18:18 |
| Lab Samp ID: DSC026SB | Dilution Factor: 1 |
| Lab File ID: LC23005A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : NA |
| Calib. Ref.: LC23003A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.51 | 10.00 | 75.1 | 50-150 |
| HEXACOSANE | 2.04 | 2.500 | 81.6 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 3520C/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSC026SB | DSC026SL | DSC026SC | | |
| LAB FILE ID: | LC23005A | LC23006A | LC23007A | | |
| DATE EXTRACTED: | 03/23/1210:45 | 03/23/1210:45 | 03/23/1210:45 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1218:18 | 03/23/1218:35 | 03/23/1218:51 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | DSC026S | DSC026S | DSC026S | | |
| CALIB. REF: | LC23003A | LC23003A | LC23003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 5.00 | 4.18 | 84 | 5.00 | 4.56 | 91 | 9 | 20-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 1.00 | 0.772 | 77 | 1.00 | 0.749 | 75 | 40-130 |
| Hexacosane | 0.250 | 0.198 | 79 | 0.250 | 0.202 | 81 | 40-150 |

METHOD 3520C/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/20/12 13:15 |
| Sample ID: EB-NBZ-SS-031512 | Date Analyzed: 04/05/12 19:14 |
| Lab Samp ID: C135-02 | Dilution Factor: 0.95 |
| Lab File ID: LD05012A | Matrix : WATER |
| Ext Btch ID: CPC024W | % Moisture : NA |
| Calib. Ref.: LD05005A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.095 | 0.0095\|0.0095 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.095 | 0.0095\|0.0095 |
| BETA-BHC | (ND)\|ND | 0.095 | 0.0095\|0.0095 |
| HEPTACHLOR | (ND)\|ND | 0.095 | 0.0095\|0.0095 |
| DELTA-BHC | (ND)\|ND | 0.095 | 0.0095\|0.0095 |
| ALDRIN | (ND)\|ND | 0.095 | 0.0095\|0.0095 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.095 | 0.0095\|0.0095 |
| ENDOSULFAN I | (ND)\|ND | 0.095 | 0.0095\|0.0095 |
| 4,4'-DDE | (ND)\|ND | 0.095 | 0.0095\|0.0095 |
| DIELDRIN | (ND)\|ND | 0.095 | 0.0095\|0.0095 |
| ENDRIN | (ND)\|ND | 0.095 | 0.0095\|0.0095 |
| 4,4'-DDD | (ND)\|ND | 0.095 | 0.0095\|0.0095 |
| ENDOSULFAN II | (ND)\|ND | 0.095 | 0.0095\|0.0095 |
| 4,4'-DDT | (ND)\|ND | 0.095 | 0.0095\|0.0095 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.095 | 0.0095\|0.0095 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.095 | 0.0095\|0.0095 |
| ENDRIN KETONE | (ND)\|ND | 0.095 | 0.0095\|0.0095 |
| METHOXYCHLOR | (ND)\|ND | 0.95 | 0.095\|0.095 |
| MIREX | (ND)\|ND | 0.095 | 0.0095\|0.0095 |
| TOXAPHENE | (ND)\|ND | 1.9 | 0.48\|0.48 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 0.95 | 0.24\|0.24 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 0.3253\|(0.3463) | 0.3800 | 85.6\|(91.1) | 60-140 |
| DECACHLOROBIPHENYL | 0.3100\|(0.3350) | 0.3800 | 81.6\|(88.2) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3520C/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C135 | Date Extracted: 03/20/12 13:15 |
| Sample ID: MBLK1W | Date Analyzed: 04/05/12 17:46 |
| Lab Samp ID: CPC024WB | Dilution Factor: 1 |
| Lab File ID: LD05008A | Matrix : WATER |
| Ext Btch ID: CPC024W | % Moisture : NA |
| Calib. Ref.: LD05005A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.10 | 0.010\|0.010 |
| BETA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| HEPTACHLOR | (ND)\|ND | 0.10 | 0.010\|0.010 |
| DELTA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ALDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN I | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| DIELDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDD | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN II | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDT | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN KETONE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| METHOXYCHLOR | (ND)\|ND | 1.0 | 0.10\|0.10 |
| MIREX | (ND)\|ND | 0.10 | 0.010\|0.010 |
| TOXAPHENE | (ND)\|ND | 2.0 | 0.50\|0.50 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 1.0 | 0.25\|0.25 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 0.3772\|(0.3973) | 0.4000 | 94.3\|(99.3) | 60-140 |
| DECACHLOROBIPHENYL | 0.3391\|(0.3676) | 0.4000 | 84.8\|(91.9) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 3520C/8081A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | CPC024WB | CPC024WL | CPC024WC | | |
| LAB FILE ID: | LD05008A | LD05009A | LD05010A | | |
| DATE EXTRACTED: | 03/20/1213:15 | 03/20/1213:15 | 03/20/1213:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/05/1217:46 | 04/05/1218:08 | 04/05/1218:30 | DATE RECEIVED: | 03/20/12 |
| PREP. BATCH: | CPC024W | CPC024W | CPC024W | | |
| CALIB. REF: | LD05005A | LD05005A | LD05005A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 0.200 | 0.229\|(0.238) | 114\|(119) | 0.200 | 0.228\|(0.233) | 114\|(116) | 0\|(2) | 30-150 | 30 |
| gamma-BHC (Lindane) | (ND)\|ND | 0.200 | 0.234\|(0.245) | 117\|(122) | 0.200 | 0.236\|(0.246) | 118\|(123) | 1\|(0) | 40-130 | 30 |
| beta-BHC | (ND)\|ND | 0.200 | (0.216)\|0.243 | (108)\|122 | 0.200 | (0.227)\|0.272 | (114)\|136* | (5)\|11 | 60-130 | 30 |
| Heptachlor | (ND)\|ND | 0.200 | 0.223\|(0.236) | 112\|(118) | 0.200 | 0.224\|(0.233) | 112\|(116) | 0\|(1) | 30-140 | 30 |
| delta-BHC | (ND)\|ND | 0.200 | 0.250\|(0.253) | 125\|(126) | 0.200 | 0.265\|(0.270) | 132\|(135) | 6\|(7) | 30-150 | 30 |
| Aldrin | (ND)\|ND | 0.200 | 0.240\|(0.256) | 120\|(128) | 0.200 | 0.239\|(0.259) | 119\|(130) | 0\|(1) | 40-130 | 30 |
| Heptachlor Epoxide | (ND)\|ND | 0.200 | 0.233\|(0.244) | 116\|(122) | 0.200 | 0.244\|(0.253) | 122\|(126) | 5\|(4) | 50-140 | 30 |
| Endosulfan I | (ND)\|ND | 0.200 | 0.222\|(0.243) | 111\|(122) | 0.200 | 0.233\|(0.253) | 116\|(126) | 5\|(4) | 60-140 | 30 |
| 4,4'-DDE | (ND)\|ND | 0.200 | 0.211\|(0.221) | 105\|(110) | 0.200 | 0.226\|(0.234) | 113\|(117) | 7\|(6) | 50-140 | 30 |
| Dieldrin | (ND)\|ND | 0.200 | 0.231\|(0.237) | 116\|(118) | 0.200 | 0.247\|(0.248) | 123\|(124) | 7\|(5) | 60-140 | 30 |
| Endrin | (ND)\|ND | 0.200 | 0.212\|(0.219) | 106\|(110) | 0.200 | 0.224\|(0.231) | 112\|(116) | 6\|(5) | 50-140 | 30 |
| 4,4'-DDD | (ND)\|ND | 0.200 | 0.186\|(0.195) | 93\|(97) | 0.200 | 0.200\|(0.207) | 100\|(104) | 7\|(6) | 50-160 | 30 |
| Endosulfan II | (ND)\|ND | 0.200 | 0.220\|(0.226) | 110\|(113) | 0.200 | 0.231\|(0.238) | 116\|(119) | 5\|(5) | 60-150 | 30 |
| 4,4'-DDT | (ND)\|ND | 0.200 | (0.214)\|0.202 | (107)\|101 | 0.200 | (0.230)\|0.216 | (115)\|108 | (7)\|7 | 60-140 | 30 |
| Endrin aldehyde | (ND)\|ND | 0.200 | 0.210\|(0.212) | 105\|(106) | 0.200 | 0.224\|(0.228) | 112\|(114) | 6\|(7) | 60-160 | 30 |
| Endosulfan Sulfate | (ND)\|ND | 0.200 | 0.214\|(0.228) | 107\|(114) | 0.200 | 0.226\|(0.239) | 113\|(119) | 5\|(5) | 70-140 | 30 |
| Endrin Ketone | (ND)\|ND | 0.200 | 0.190\|(0.204) | 95\|(102) | 0.200 | 0.200\|(0.214) | 100\|(107) | 5\|(5) | 30-150 | 30 |
| Methoxychlor | (ND)\|ND | 2.00 | 1.61\|(1.79) | 80\|(90) | 2.00 | 1.72\|(1.91) | 86\|(96) | 7\|(6) | 70-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 0.4000 | 0.3833\|(0.4053) | 95.8\|(101) | 0.4000 | 0.3808\|(0.4028) | 95.2\|(101) | 60-140 |
| Decachlorobiphenyl | 0.4000 | 0.3263\|(0.3533) | 81.6\|(88.3) | 0.4000 | 0.3463\|(0.3737) | 86.6\|(93.4) | 20-120 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/17/12 11:01 |
| Sample ID: SL-029-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 01:35 |
| Lab Samp ID: C135-03 | Dilution Factor: 1 |
| Lab File ID: LC20037A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : 3.0 |
| Calib. Ref.: LC20028A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|5.8 | 0.18 | 0.088\|0.088 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.18 | 0.088\|0.088 |
| BETA-BHC | (ND)\|0.15J | 0.18 | 0.088\|0.088 |
| HEPTACHLOR | 0.67\|(ND) | 0.18 | 0.088\|0.088 |
| DELTA-BHC | (ND)\|0.36 | 0.18 | 0.088\|0.088 |
| ALDRIN | (ND)\|0.098J | 0.18 | 0.088\|0.088 |
| HEPTACHLOR EPOXIDE | (2.7)\|1.9 | 0.18 | 0.088\|0.088 |
| ENDOSULFAN I | (ND)\|0.12J | 0.18 | 0.088\|0.088 |
| 4,4'-DDE | (ND)\|ND | 0.35 | 0.18\|0.18 |
| DIELDRIN | (2.2)\|0.73 | 0.35 | 0.18\|0.18 |
| ENDRIN | 0.53\|(ND) | 0.35 | 0.18\|0.18 |
| 4,4'-DDD | (ND)\|0.61 | 0.35 | 0.18\|0.18 |
| ENDOSULFAN II | 0.49\|(ND) | 0.35 | 0.18\|0.18 |
| 4,4'-DDT | (ND)\|9.3 | 0.35 | 0.18\|0.18 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.35 | 0.18\|0.18 |
| ENDOSULFAN SULFATE | 0.41\|(0.51) | 0.35 | 0.18\|0.18 |
| ENDRIN KETONE | (ND)\|ND | 0.35 | 0.18\|0.18 |
| METHOXYCHLOR | 8.7\|(ND) | 1.8 | 0.88\|0.88 |
| MIREX | (0.99)\|0.26J | 0.35 | 0.18\|0.18 |
| TOXAPHENE | (ND)\|ND | 6.8 | 3.4\|3.4 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.325\|(5.113) | 5.498 | 78.7\|(93.0) | 50-130 |
| DECACHLOROBIPHENYL | 4.199\|(6.114) | 5.498 | 76.4\|(111) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/17/12 11:01 |
| Sample ID: SL-052-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 01:58 |
| Lab Samp ID: C135-04 | Dilution Factor: 1 |
| Lab File ID: LC20038A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : 2.3 |
| Calib. Ref.: LC20028A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.38 | 0.17 | 0.087 \| 0.087 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.17 | 0.087 \| 0.087 |
| BETA-BHC | (ND) \| 0.75 | 0.17 | 0.087 \| 0.087 |
| HEPTACHLOR | (ND) \| 0.98 | 0.17 | 0.087 \| 0.087 |
| DELTA-BHC | (ND) \| 0.49 | 0.17 | 0.087 \| 0.087 |
| ALDRIN | (ND) \| ND | 0.17 | 0.087 \| 0.087 |
| HEPTACHLOR EPOXIDE | (ND) \| 1.6 | 0.17 | 0.087 \| 0.087 |
| ENDOSULFAN I | (ND) \| ND | 0.17 | 0.087 \| 0.087 |
| 4,4'-DDE | (ND) \| 0.27J | 0.35 | 0.17 \| 0.17 |
| DIELDRIN | (0.40) \| 0.22J | 0.35 | 0.17 \| 0.17 |
| ENDRIN | (ND) \| ND | 0.35 | 0.17 \| 0.17 |
| 4,4'-DDD | (ND) \| ND | 0.35 | 0.17 \| 0.17 |
| ENDOSULFAN II | (ND) \| ND | 0.35 | 0.17 \| 0.17 |
| 4,4'-DDT | (ND) \| 5.1 | 0.35 | 0.17 \| 0.17 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.35 | 0.17 \| 0.17 |
| ENDOSULFAN SULFATE | (ND) \| 1.3 | 0.35 | 0.17 \| 0.17 |
| ENDRIN KETONE | (ND) \| ND | 0.35 | 0.17 \| 0.17 |
| METHOXYCHLOR | (ND) \| 5.1 | 1.7 | 0.87 \| 0.87 |
| MIREX | 0.81 \| (ND) | 0.35 | 0.17 \| 0.17 |
| TOXAPHENE | (ND) \| ND | 6.8 | 3.4 \| 3.4 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.5 | 1.7 \| 1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (5.426) \| 5.125 | 5.459 | (99.4) \| 93.9 | 50-130 |
| DECACHLOROBIPHENYL | (4.579) \| 4.487 | 5.459 | (83.9) \| 82.2 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/17/12 11:01 |
| Sample ID: SL-053-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 02:21 |
| Lab Samp ID: C135-05 | Dilution Factor: 1 |
| Lab File ID: LC20039A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : 1.9 |
| Calib. Ref.: LC20028A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.81 | 0.17 | 0.087 \| 0.087 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.17 | 0.087 \| 0.087 |
| BETA-BHC | (ND) \| ND | 0.17 | 0.087 \| 0.087 |
| HEPTACHLOR | (ND) \| 0.49 | 0.17 | 0.087 \| 0.087 |
| DELTA-BHC | (ND) \| 0.19 | 0.17 | 0.087 \| 0.087 |
| ALDRIN | (ND) \| ND | 0.17 | 0.087 \| 0.087 |
| HEPTACHLOR EPOXIDE | (ND) \| 9.3 | 0.17 | 0.087 \| 0.087 |
| ENDOSULFAN I | (ND) \| 0.52 | 0.17 | 0.087 \| 0.087 |
| 4,4'-DDE | 8.7 \| (ND) | 0.35 | 0.17 \| 0.17 |
| DIELDRIN | 3.1 \| (ND) | 0.35 | 0.17 \| 0.17 |
| ENDRIN | 0.98 \| (ND) | 0.35 | 0.17 \| 0.17 |
| 4,4'-DDD | (ND) \| ND | 0.35 | 0.17 \| 0.17 |
| ENDOSULFAN II | 0.44 \| (ND) | 0.35 | 0.17 \| 0.17 |
| 4,4'-DDT | 2.9 \| (12) | 0.35 | 0.17 \| 0.17 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.35 | 0.17 \| 0.17 |
| ENDOSULFAN SULFATE | (ND) \| 0.95 | 0.35 | 0.17 \| 0.17 |
| ENDRIN KETONE | 0.67 \| (ND) | 0.35 | 0.17 \| 0.17 |
| METHOXYCHLOR | 5.8 \| (ND) | 1.7 | 0.87 \| 0.87 |
| MIREX | 1.8 \| (ND) | 0.35 | 0.17 \| 0.17 |
| TOXAPHENE | (ND) \| ND | 6.7 | 3.4 \| 3.4 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.5 | 1.7 \| 1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (6.830) \| 6.228 | 5.436 | (126) \| 115 | 50-130 |
| DECACHLOROBIPHENYL | 4.406 \| (4.789) | 5.436 | 81.1 \| (88.1) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/17/12 11:01 |
| Sample ID: SL-053-NBZ-SS-0.0-0.5DL | Date Analyzed: 03/21/12 15:32 |
| Lab Samp ID: C135-05T | Dilution Factor: 5 |
| Lab File ID: LC20059A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : 1.9 |
| Calib. Ref.: LC20049A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.77J | 0.87 | 0.43 \| 0.43 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.87 | 0.43 \| 0.43 |
| BETA-BHC | (ND) \| ND | 0.87 | 0.43 \| 0.43 |
| HEPTACHLOR | (ND) \| ND | 0.87 | 0.43 \| 0.43 |
| DELTA-BHC | (ND) \| ND | 0.87 | 0.43 \| 0.43 |
| ALDRIN | (ND) \| ND | 0.87 | 0.43 \| 0.43 |
| HEPTACHLOR EPOXIDE | (ND) \| 12 | 0.87 | 0.43 \| 0.43 |
| ENDOSULFAN I | (ND) \| 0.62J | 0.87 | 0.43 \| 0.43 |
| 4,4'-DDE | 10 \| (ND) | 1.7 | 0.87 \| 0.87 |
| DIELDRIN | 2.2 \| (ND) | 1.7 | 0.87 \| 0.87 |
| ENDRIN | 0.96J \| (ND) | 1.7 | 0.87 \| 0.87 |
| 4,4'-DDD | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| ENDOSULFAN II | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| 4,4'-DDT | 3.6 \| (14) | 1.7 | 0.87 \| 0.87 |
| ENDRIN ALDEHYDE | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| ENDOSULFAN SULFATE | (ND) \| 0.97J | 1.7 | 0.87 \| 0.87 |
| ENDRIN KETONE | 0.93J \| (ND) | 1.7 | 0.87 \| 0.87 |
| METHOXYCHLOR | 6.7J \| (ND) | 8.7 | 4.3 \| 4.3 |
| MIREX | 2.3 \| (ND) | 1.7 | 0.87 \| 0.87 |
| TOXAPHENE | (ND) \| ND | 34 | 17 \| 17 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 17 | 8.7 \| 8.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 8.006 \| (5.592) | 5.436 | 147* \| (103) | 50-130 |
| DECACHLOROBIPHENYL | (5.316) \| 5.203 | 5.436 | (97.8) \| 95.7 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/17/12 11:01 |
| Sample ID: SL-056-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 02:43 |
| Lab Samp ID: C135-06 | Dilution Factor: 1 |
| Lab File ID: LC20040A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : 2.7 |
| Calib. Ref.: LC20028A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 2.8 | 0.17 | 0.087 \| 0.087 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.17 | 0.087 \| 0.087 |
| BETA-BHC | (ND) \| ND | 0.17 | 0.087 \| 0.087 |
| HEPTACHLOR | (0.10J) \| 0.87 | 0.17 | 0.087 \| 0.087 |
| DELTA-BHC | 0.65 \| (0.19) | 0.17 | 0.087 \| 0.087 |
| ALDRIN | (ND) \| ND | 0.17 | 0.087 \| 0.087 |
| HEPTACHLOR EPOXIDE | (ND) \| 7.5 | 0.17 | 0.087 \| 0.087 |
| ENDOSULFAN I | (ND) \| 0.50 | 0.17 | 0.087 \| 0.087 |
| 4,4'-DDE | 6.2 \| (2.1) | 0.35 | 0.17 \| 0.17 |
| DIELDRIN | 0.83 \| (ND) | 0.35 | 0.17 \| 0.17 |
| ENDRIN | 0.47 \| (ND) | 0.35 | 0.17 \| 0.17 |
| 4,4'-DDD | (ND) \| ND | 0.35 | 0.17 \| 0.17 |
| ENDOSULFAN II | 0.28J \| (ND) | 0.35 | 0.17 \| 0.17 |
| 4,4'-DDT | (ND) \| 7.7 | 0.35 | 0.17 \| 0.17 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.35 | 0.17 \| 0.17 |
| ENDOSULFAN SULFATE | (ND) \| 1.1 | 0.35 | 0.17 \| 0.17 |
| ENDRIN KETONE | 1.5 \| (ND) | 0.35 | 0.17 \| 0.17 |
| METHOXYCHLOR | 5.7 \| (ND) | 1.7 | 0.87 \| 0.87 |
| MIREX | 1.7 \| (ND) | 0.35 | 0.17 \| 0.17 |
| TOXAPHENE | (ND) \| ND | 6.8 | 3.4 \| 3.4 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.5 | 1.7 \| 1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (6.480) \| 6.255 | 5.481 | (118) \| 114 | 50-130 |
| DECACHLOROBIPHENYL | 3.996 \| (5.491) | 5.481 | 72.9 \| (100) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/17/12 |
| Batch No. : 12C135 | Date Extracted: 03/17/12 11:01 |
| Sample ID: MBLK1S | Date Analyzed: 03/20/12 18:06 |
| Lab Samp ID: CPC016SB | Dilution Factor: 1 |
| Lab File ID: LC20017A | Matrix : SOIL |
| Ext Btch ID: CPC016S | % Moisture : NA |
| Calib. Ref.: LC20013A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.529\|(4.601) | 5.333 | 84.9\|(86.3) | 50-130 |
| DECACHLOROBIPHENYL | 5.343\|(5.390) | 5.333 | 100\|(101) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPC016SB CPC016SL CPC016SC
LAB FILE ID: LC20017A LC20018A LC20019A
DATE EXTRACTED: 03/17/1211:01 03/17/1211:01 03/17/1211:01 DATE COLLECTED: NA
DATE ANALYZED: 03/20/1218:06 03/20/1218:29 03/20/1218:52 DATE RECEIVED: 03/17/12
PREP. BATCH: CPC016S CPC016S CPC016S
CALIB. REF: LC20013A LC20013A LC20013A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 2.67 | 2.93\|(3.12) | 110\|(117) | 2.67 | 2.65\|(2.81) | 99\|(105) | 10\|(10) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|ND | 2.67 | 2.88\|(3.12) | 108\|(117) | 2.67 | 2.61\|(2.82) | 98\|(106) | 10\|(10) | 40-130 | 50 |
| beta-BHC | (ND)\|ND | 2.67 | 3.00\|(3.20) | 112\|(120) | 2.67 | 2.80\|(2.94) | 105\|(110) | 7\|(8) | 50-140 | 50 |
| Heptachlor | (ND)\|ND | 2.67 | 2.78\|(2.95) | 104\|(110) | 2.67 | 2.56\|(2.70) | 96\|(101) | 8\|(9) | 30-130 | 50 |
| delta-BHC | (ND)\|ND | 2.67 | 3.27\|(3.61) | 122\|(135) | 2.67 | 2.97\|(3.28) | 111\|(123) | 10\|(10) | 30-150 | 50 |
| Aldrin | (ND)\|ND | 2.67 | 2.51\|(2.70) | 94\|(101) | 2.67 | 2.34\|(2.49) | 88\|(93) | 7\|(8) | 30-130 | 50 |
| Heptachlor Epoxide | (ND)\|ND | 2.67 | 2.81\|(3.02) | 105\|(113) | 2.67 | 2.56\|(2.77) | 96\|(104) | 9\|(9) | 60-140 | 50 |
| Endosulfan I | (ND)\|ND | 2.67 | 2.65\|(2.99) | 99\|(112) | 2.67 | 2.43\|(2.75) | 91\|(103) | 9\|(8) | 50-150 | 50 |
| 4,4'-DDE | (ND)\|ND | 2.67 | 3.06\|(3.40) | 115\|(127) | 2.67 | 2.80\|(3.14) | 105\|(118) | 9\|(8) | 50-150 | 50 |
| Dieldrin | (ND)\|ND | 2.67 | 2.99\|(3.15) | 112\|(118) | 2.67 | 2.71\|(2.92) | 101\|(109) | 10\|(8) | 60-130 | 50 |
| Endrin | (ND)\|ND | 2.67 | 3.23\|(3.31) | 121\|(124) | 2.67 | 2.93\|(3.06) | 110\|(115) | 10\|(8) | 50-140 | 50 |
| 4,4'-DDD | (ND)\|ND | 2.67 | 3.52\|(3.88) | 132\|(145) | 2.67 | 3.18\|(3.67) | 119\|(137) | 10\|(6) | 50-160 | 50 |
| Endosulfan II | (ND)\|ND | 2.67 | 3.07\|(3.30) | 115\|(124) | 2.67 | 2.84\|(3.10) | 106\|(116) | 8\|(6) | 60-150 | 50 |
| 4,4'-DDT | (ND)\|ND | 2.67 | 3.74\|(3.55) | 140*\|(133) | 2.67 | 3.47\|(3.34) | 130\|(125) | 7\|(6) | 60-140 | 50 |
| Endrin aldehyde | (ND)\|ND | 2.67 | 2.98\|(3.25) | 112\|(122) | 2.67 | 2.86\|(3.15) | 107\|(118) | 4\|(3) | 50-160 | 50 |
| Endosulfan Sulfate | (ND)\|ND | 2.67 | 3.03\|(3.19) | 113\|(119) | 2.67 | 2.86\|(3.02) | 107\|(113) | 6\|(5) | 70-140 | 50 |
| Endrin Ketone | (ND)\|ND | 2.67 | 3.09\|(3.28) | 116\|(123) | 2.67 | 2.94\|(3.09) | 110\|(116) | 5\|(6) | 70-160 | 50 |
| Methoxychlor | (ND)\|ND | 26.7 | (35.3)\|40.7 | (132)\|152* | 26.7 | (33.9)\|38.9 | (127)\|146* | (4)\|5 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 4.817\|(4.863) | 90.3\|(91.2) | 5.333 | 4.585\|(4.623) | 86.0\|(86.7) | 50-130 |
| Decachlorobiphenyl | 5.333 | 5.569\|(5.721) | 104\|(107) | 5.333 | 5.534\|(5.735) | 104\|(108) | 20-120 |

METHOD 3520C/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/20/12 13:15 |
| Sample ID: EB-NBZ-SB-031512 | Date Analyzed: 03/24/12 00:08 |
| Lab Samp ID: C135-01 | Dilution Factor: 1.18 |
| Lab File ID: KC23010A | Matrix : WATER |
| Ext Btch ID: CPC024W | % Moisture : NA |
| Calib. Ref.: KC23002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.2 | 0.59\|0.59 |
| AROCLOR 1221 | (ND)\|ND | 1.2 | 0.59\|0.59 |
| AROCLOR 1232 | (ND)\|ND | 1.2 | 0.59\|0.59 |
| AROCLOR 1242 | (ND)\|ND | 1.2 | 0.59\|0.59 |
| AROCLOR 1248 | (ND)\|ND | 1.2 | 0.59\|0.59 |
| AROCLOR 1254 | (ND)\|ND | 1.2 | 0.59\|0.59 |
| AROCLOR 1260 | (ND)\|ND | 1.2 | 0.59\|0.59 |
| AROCLOR 1262 | (ND)\|ND | 1.2 | 0.59\|0.59 |
| AROCLOR 1268 | (ND)\|ND | 1.2 | 0.59\|0.59 |
| AROCLOR 5432 | (ND)\|ND | 2.4 | 1.2\|1.2 |
| AROCLOR 5442 | (ND)\|ND | 2.4 | 1.2\|1.2 |
| AROCLOR 5460 | (ND)\|ND | 2.4 | 1.2\|1.2 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (0.4841)\|0.3643 | 0.4720 | (103)\|77.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (0.4329)\|0.3683 | 0.4720 | (91.7)\|78.0 | 30-140 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3520C/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/20/12 13:15 |
| Sample ID: EB-NBZ-SS-031512 | Date Analyzed: 03/24/12 01:03 |
| Lab Samp ID: C135-02 | Dilution Factor: 0.95 |
| Lab File ID: KC23011A | Matrix : WATER |
| Ext Btch ID: CPC024W | % Moisture : NA |
| Calib. Ref.: KC23002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 0.95 | 0.48\|0.48 |
| AROCLOR 1221 | (ND)\|ND | 0.95 | 0.48\|0.48 |
| AROCLOR 1232 | (ND)\|ND | 0.95 | 0.48\|0.48 |
| AROCLOR 1242 | (ND)\|ND | 0.95 | 0.48\|0.48 |
| AROCLOR 1248 | (ND)\|ND | 0.95 | 0.48\|0.48 |
| AROCLOR 1254 | (ND)\|ND | 0.95 | 0.48\|0.48 |
| AROCLOR 1260 | (ND)\|ND | 0.95 | 0.48\|0.48 |
| AROCLOR 1262 | (ND)\|ND | 0.95 | 0.48\|0.48 |
| AROCLOR 1268 | (ND)\|ND | 0.95 | 0.48\|0.48 |
| AROCLOR 5432 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 5442 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 5460 | (ND)\|ND | 1.9 | 0.95\|0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (0.3717)\|0.2802 | 0.3800 | (97.8)\|73.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (0.3127)\|0.2784 | 0.3800 | (82.3)\|73.3 | 30-140 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3520C/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C135 | Date Extracted: 03/20/12 13:15 |
| Sample ID: MBLK1W | Date Analyzed: 03/23/12 19:31 |
| Lab Samp ID: CPC024WB | Dilution Factor: 1 |
| Lab File ID: KC23005A | Matrix : WATER |
| Ext Btch ID: CPC024W | % Moisture : NA |
| Calib. Ref.: KC23002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1221 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1232 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1242 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1248 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1254 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1260 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1262 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1268 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 5432 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5442 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5460 | (ND)\|ND | 2.0 | 1.0\|1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (0.4201)\|0.3169 | 0.4000 | (105)\|79.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (0.3643)\|0.3165 | 0.4000 | (91.1)\|79.1 | 30-140 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 3520C/8082

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | CPC024WB | 60C024WX | 60C024WY | | |
| LAB FILE ID: | KC23005A | KC23008A | KC23009A | | |
| DATE EXTRACTED: | 03/20/1213:15 | 03/20/1213:15 | 03/20/1213:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1219:31 | 03/23/1222:17 | 03/23/1223:12 | DATE RECEIVED: | 03/20/12 |
| PREP. BATCH: | CPC024W | CPC024W | CPC024W | | |
| CALIB. REF: | KC23002A | KC23002A | KC23002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 5.00 | (4.44)\|3.68 | (89)\|74 | 5.00 | (4.48)\|3.81 | (90)\|76 | (1)\|3 | 50-130 | 30 |
| Aroclor 1260 | (ND)\|ND | 5.00 | (5.01)\|4.18 | (100)\|84 | 5.00 | (5.20)\|4.22 | (104)\|84 | (4)\|1 | 60-150 | 30 |
| Aroclor 5460 | (ND)\|ND | 5.00 | (4.71)\|4.43 | (94)\|89 | 5.00 | (4.65)\|4.38 | (93)\|88 | (1)\|1 | 50-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 0.4000 | (0.4055)\|0.3041 | (101)\|76.0 | 0.4000 | (0.4055)\|0.3030 | (101)\|75.7 | 45-120 |
| Tetrachloro-m-xylene | 0.4000 | (0.3373)\|0.2753 | (84.3)\|68.8 | 0.4000 | (0.3869)\|0.3132 | (96.7)\|78.3 | 30-140 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 17:23 |
| Sample ID: SL-029-NBZ-SS-0.0-0.5 | Date Analyzed: 03/24/12 09:20 |
| Lab Samp ID: C135-03 | Dilution Factor: 1 |
| Lab File ID: KC23020A | Matrix : SOIL |
| Ext Btch ID: CPC029S | % Moisture : 3.0 |
| Calib. Ref.: KC23014A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1254 | 64\|(49) | 1.8 | 0.88\|0.88 |
| AROCLOR 1260 | (23)\|32 | 1.8 | 0.88\|0.88 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 5432 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5460 | (17)\|16 | 3.4 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.063)\|4.435 | 5.498 | (110)\|80.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.239)\|4.391 | 5.498 | (113)\|79.9 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 17:23 |
| Sample ID: SL-052-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 08:42 |
| Lab Samp ID: C135-04W | Dilution Factor: 1 |
| Lab File ID: KC26039A | Matrix : SOIL |
| Ext Btch ID: CPC029S | % Moisture : 2.3 |
| Calib. Ref.: KC26025A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.87\|0.87 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.87\|0.87 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.87\|0.87 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.87\|0.87 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.87\|0.87 |
| AROCLOR 1254 | 39\|(31) | 1.7 | 0.87\|0.87 |
| AROCLOR 1260 | (13)\|19 | 1.7 | 0.87\|0.87 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.87\|0.87 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.87\|0.87 |
| AROCLOR 5432 | (ND)\|ND | 3.4 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.4 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.142\|(5.126) | 5.459 | 131*\|(93.9) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.606)\|4.930 | 5.459 | (139)\|90.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 17:23 |
| Sample ID: SL-053-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 09:37 |
| Lab Samp ID: C135-05W | Dilution Factor: 1 |
| Lab File ID: KC26040A | Matrix : SOIL |
| Ext Btch ID: CPC029S | % Moisture : 1.9 |
| Calib. Ref.: KC26025A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1221 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1232 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1242 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1248 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1254^ | (230) \| 210 | 8.7 | 4.3 \| 4.3 |
| AROCLOR 1260 | 41 \| (42) | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1262 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1268 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 5432 | (ND) \| ND | 3.4 | 1.7 \| 1.7 |
| AROCLOR 5442 | (ND) \| ND | 3.4 | 1.7 \| 1.7 |
| AROCLOR 5460 | (8.1) \| 7.0 | 3.4 | 1.7 \| 1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.040) \| 3.795 | 5.436 | (111) \| 69.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.355) \| 4.634 | 5.436 | (135) \| 85.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

^ Analyzed at DF 5 on 03/28/12 08:24; Data file ID KC26077 with calibration reference file ID KC26072.

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 17:23 |
| Sample ID: SL-056-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 10:32 |
| Lab Samp ID: C135-06W | Dilution Factor: 1 |
| Lab File ID: KC26041A | Matrix : SOIL |
| Ext Btch ID: CPC029S | % Moisture : 2.7 |
| Calib. Ref.: KC26025A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1221 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1232 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1242 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1248 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1254 | (140) \| 97 | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1260 | (33) \| 32 | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1262 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 1268 | (ND) \| ND | 1.7 | 0.87 \| 0.87 |
| AROCLOR 5432 | (ND) \| ND | 3.4 | 1.7 \| 1.7 |
| AROCLOR 5442 | (ND) \| ND | 3.4 | 1.7 \| 1.7 |
| AROCLOR 5460 | (7.8) \| 6.9 | 3.4 | 1.7 \| 1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 6.675 \| (4.631) | 5.481 | 122* \| (84.5) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.235) \| 4.941 | 5.481 | (132) \| 90.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 17:23 |
| Sample ID: SL-058-NBZ-SB-4.0-5.0 | Date Analyzed: 03/24/12 13:02 |
| Lab Samp ID: C135-08 | Dilution Factor: 1 |
| Lab File ID: KC23024A | Matrix : SOIL |
| Ext Btch ID: CPC029S | % Moisture : 5.2 |
| Calib. Ref.: KC23014A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.593)\|4.830 | 5.626 | (117)\|85.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.355)\|4.939 | 5.626 | (113)\|87.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 17:23 |
| Sample ID: SL-053-NBZ-SB-3.5-4.5 | Date Analyzed: 03/24/12 13:57 |
| Lab Samp ID: C135-10 | Dilution Factor: 1 |
| Lab File ID: KC23025A | Matrix : SOIL |
| Ext Btch ID: CPC029S | % Moisture : 3.8 |
| Calib. Ref.: KC23014A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 5432 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.4 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.612)\|4.879 | 5.544 | (119)\|88.0 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.131)\|4.017 | 5.544 | (111)\|72.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 17:23 |
| Sample ID: SL-056-NBZ-SB-3.0-4.0 | Date Analyzed: 03/24/12 14:52 |
| Lab Samp ID: C135-12 | Dilution Factor: 1 |
| Lab File ID: KC23026A | Matrix : SOIL |
| Ext Btch ID: CPC029S | % Moisture : 4.2 |
| Calib. Ref.: KC23014A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 5432 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.4 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.915)\|4.467 | 5.567 | (106)\|80.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.282)\|3.842 | 5.567 | (113)\|69.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 17:23 |
| Sample ID: MBLK1S | Date Analyzed: 03/24/12 06:35 |
| Lab Samp ID: 60C029SB | Dilution Factor: 1 |
| Lab File ID: KC23017A | Matrix : SOIL |
| Ext Btch ID: CPC029S | % Moisture : NA |
| Calib. Ref.: KC23014A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.797)\|4.413 | 5.333 | (109)\|82.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.834)\|5.064 | 5.333 | (109)\|95.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60C029SB | 60C029SL | 60C029SC | | |
| LAB FILE ID: | KC23017A | KC23018A | KC23019A | | |
| DATE EXTRACTED: | 03/22/1217:23 | 03/22/1217:23 | 03/22/1217:23 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/24/1206:35 | 03/24/1207:30 | 03/24/1208:25 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | CPC029S | CPC029S | CPC029S | | |
| CALIB. REF: | KC23014A | KC23014A | KC23014A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (62.4)\|51.7 | (94)\|78 | 66.7 | (55.6)\|49.4 | (83)\|74 | (12)\|5 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (73.7)\|61.4 | (111)\|92 | 66.7 | (74.4)\|61.9 | (112)\|93 | (1)\|1 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | (70.0)\|66.7 | (105)\|100 | 66.7 | (72.3)\|68.5 | (108)\|103 | (3)\|3 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | (5.991)\|4.529 | (112)\|84.9 | 5.333 | (5.949)\|4.511 | (112)\|84.6 | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (5.836)\|4.964 | (109)\|93.1 | 5.333 | (4.990)\|4.302 | (93.6)\|80.7 | 10-160 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/17/12 16:45 |
| Sample ID: EB-NBZ-SB-031512 | Date Analyzed: 03/20/12 10:55 |
| Lab Samp ID: C135-01 | Dilution Factor: 1 |
| Lab File ID: XC19026A | Matrix : WATER |
| Ext Btch ID: EXC010W | % Moisture : NA |
| Calib. Ref.: XC19024A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | 0.37J | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 3.55 | 4.000 | 88.7 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/17/12 16:45 |
| Sample ID: EB-NBZ-SS-031512 | Date Analyzed: 03/20/12 11:27 |
| Lab Samp ID: C135-02 | Dilution Factor: 1 |
| Lab File ID: XC19027A | Matrix : WATER |
| Ext Btch ID: EXC010W | % Moisture : NA |
| Calib. Ref.: XC19024A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | ND | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 3.69 | 4.000 | 92.2 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/17/12 |
| Batch No. : 12C135 | Date Extracted: 03/17/12 16:45 |
| Sample ID: MBLK1W | Date Analyzed: 03/19/12 11:17 |
| Lab Samp ID: EXC010WB | Dilution Factor: 1 |
| Lab File ID: XC19003A | Matrix : WATER |
| Ext Btch ID: EXC010W | % Moisture : NA |
| Calib. Ref.: XC19002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | ND | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 3.55 | 4.000 | 88.7 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 8330A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | EXC010WB | EXC010WL | EXC010WC | | |
| LAB FILE ID: | XC19003A | XC19004A | XC19005A | | |
| DATE EXTRACTED: | 03/17/1216:45 | 03/17/1216:45 | 03/17/1216:45 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/19/1211:17 | 03/19/1211:49 | 03/19/1212:21 | DATE RECEIVED: | 03/17/12 |
| PREP. BATCH: | EXC010W | EXC010W | EXC010W | | |
| CALIB. REF: | XC19002A | XC19002A | XC19002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 4.00 | 4.02 | 101 | 4.00 | 4.06 | 101 | 1 | 70-130 | 30 |
| RDX | ND | 4.00 | 3.29 | 82 | 4.00 | 3.44 | 86 | 5 | 60-130 | 30 |
| 1,3,5-Trinitrobenzene | ND | 4.00 | 4.31 | 108 | 4.00 | 4.43 | 111 | 3 | 70-130 | 30 |
| 1,3-Dinitrobenzene | ND | 4.00 | 3.55 | 89 | 4.00 | 3.75 | 94 | 5 | 70-130 | 30 |
| Tetryl | ND | 4.00 | 3.88 | 97 | 4.00 | 4.09 | 102 | 5 | 70-130 | 30 |
| Nitrobenzene | ND | 4.00 | 3.89 | 97 | 4.00 | 4.18 | 105 | 7 | 70-130 | 30 |
| 2,4,6-Trinitrotoluene | ND | 4.00 | 4.30 | 108 | 4.00 | 4.52 | 113 | 5 | 70-130 | 30 |
| 4-Amino-2,6-Dinitrotoluene | ND | 4.00 | 3.85 | 96 | 4.00 | 4.27 | 107 | 11 | 70-130 | 30 |
| 2-Amino-4,6-Dinitrotoluene | ND | 4.00 | 3.85 | 96 | 4.00 | 4.09 | 102 | 6 | 70-130 | 30 |
| 2,6-Dinitrotoluene | ND | 4.00 | 4.38 | 109 | 4.00 | 4.53 | 113 | 4 | 70-130 | 30 |
| 2,4-Dinitrotoluene | ND | 4.00 | 4.37 | 109 | 4.00 | 4.40 | 110 | 1 | 70-130 | 30 |
| 2-Nitrotoluene | ND | 4.00 | 4.17 | 104 | 4.00 | 4.47 | 112 | 7 | 70-130 | 30 |
| 3-Nitrotoluene | ND | 4.00 | 3.65 | 91 | 4.00 | 3.86 | 97 | 6 | 70-130 | 30 |
| 4-Nitrotoluene | ND | 4.00 | 4.01 | 100 | 4.00 | 4.01 | 100 | 0 | 70-130 | 30 |
| 2,4-Diamino-6-nitrotoluene | ND | 4.00 | 1.24J | 31 | 4.00 | 1.25J | 31 | 1 | 20-130 | 30 |
| 2,6-Diamino-4-nitrotoluene | ND | 4.00 | 1.27J | 32 | 4.00 | 1.30J | 33 | 3 | 20-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 4.00 | 3.42 | 86 | 4.00 | 3.74 | 94 | 65-135 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 20:10 |
| Sample ID: SL-029-NBZ-SS-0.0-0.5 | Date Analyzed: 03/23/12 21:15 |
| Lab Samp ID: C135-03 | Dilution Factor: 1 |
| Lab File ID: XC22066A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: XC22062A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1890 | 2000 | 94.5 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 20:10 |
| Sample ID: SL-052-NBZ-SS-0.0-0.5 | Date Analyzed: 03/23/12 21:48 |
| Lab Samp ID: C135-04 | Dilution Factor: 1 |
| Lab File ID: XC22067A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: XC22062A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1770 | 2000 | 88.5 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 20:10 |
| Sample ID: SL-053-NBZ-SS-0.0-0.5 | Date Analyzed: 03/23/12 22:21 |
| Lab Samp ID: C135-05 | Dilution Factor: 1 |
| Lab File ID: XC22068A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: XC22062A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1810 | 2000 | 90.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 20:10 |
| Sample ID: SL-056-NBZ-SS-0.0-0.5 | Date Analyzed: 03/23/12 22:55 |
| Lab Samp ID: C135-06 | Dilution Factor: .99 |
| Lab File ID: XC22069A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: XC22062A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1790 | 1980 | 90.4 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 20:10 |
| Sample ID: SL-058-NBZ-SB-4.0-5.0 | Date Analyzed: 03/23/12 23:28 |
| Lab Samp ID: C135-08 | Dilution Factor: 1 |
| Lab File ID: XC22070A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: XC22062A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1820 | 2000 | 91.0 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 20:10 |
| Sample ID: SL-053-NBZ-SB-3.5-4.5 | Date Analyzed: 03/24/12 00:01 |
| Lab Samp ID: C135-10 | Dilution Factor: 1 |
| Lab File ID: XC22071A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: XC22062A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1820 | 2000 | 91.2 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 20:10 |
| Sample ID: SL-056-NBZ-SB-3.0-4.0 | Date Analyzed: 03/24/12 00:34 |
| Lab Samp ID: C135-12 | Dilution Factor: 1 |
| Lab File ID: XC22072A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: XC22062A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1800 | 2000 | 90.0 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 20:10 |
| Sample ID: MBLK1S | Date Analyzed: 03/23/12 19:35 |
| Lab Samp ID: EXC017SB | Dilution Factor: 1 |
| Lab File ID: XC22063A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: XC22062A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1850 | 2000 | 92.7 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXC017SB | EXC017SL | EXC017SC | | |
| LAB FILE ID: | XC22063A | XC22064A | XC22065A | | |
| DATE EXTRACTED: | 03/22/1220:10 | 03/22/1220:10 | 03/22/1220:10 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1219:35 | 03/23/1220:08 | 03/23/1220:42 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | EXC017S | EXC017S | EXC017S | | |
| CALIB. REF: | XC22062A | XC22062A | XC22062A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 1930 | 96 | 2000 | 1940 | 97 | 0 | 70-130 | 50 |
| RDX | ND | 2000 | 1980 | 99 | 2000 | 1940 | 97 | 2 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2150 | 107 | 2000 | 2150 | 107 | 0 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 1960 | 98 | 2000 | 1980 | 99 | 1 | 70-130 | 50 |
| Tetryl | ND | 2000 | 2200 | 110 | 2000 | 2260 | 113 | 3 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 1670 | 83 | 2000 | 1800 | 90 | 7 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 1980 | 99 | 2000 | 1920 | 96 | 3 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 1920 | 96 | 2000 | 1910 | 95 | 1 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 1920 | 96 | 2000 | 1940 | 97 | 1 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2110 | 105 | 2000 | 2090 | 104 | 1 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 1980 | 99 | 2000 | 2120 | 106 | 7 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 1980 | 99 | 2000 | 1940 | 97 | 2 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1830 | 91 | 2000 | 1890 | 94 | 3 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 1960 | 98 | 2000 | 1740 | 87 | 12 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1770 | 88 | 2000 | 1760 | 88 | 1 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2130 | 106 | 2000 | 2140 | 107 | 1 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1850 | 92 | 2000 | 1800 | 90 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/15/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/16/12 |
| Batch No. | : 12C135 | Date Extracted | : 03/17/12 14:41 |
| Sample ID | : EB-NBZ-SB-031512 | Date Analyzed | : 03/19/12 12:08 |
| Lab Samp ID | : C135-01 | Dilution Factor | : 1 |
| Lab File ID | : PC19009A | Matrix | : WATER |
| Ext Btch ID | : EXC009W | % Moisture | : NA |
| Calib. Ref. | : PC19002A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 594 | 500.0 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/15/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/16/12 |
| Batch No. | : 12C135 | Date Extracted | : 03/17/12 14:41 |
| Sample ID | : EB-NBZ-SS-031512 | Date Analyzed | : 03/19/12 12:22 |
| Lab Samp ID | : C135-02 | Dilution Factor | : 1 |
| Lab File ID | : PC19010A | Matrix | : WATER |
| Ext Btch ID | : EXC009W | % Moisture | : NA |
| Calib. Ref. | : PC19002A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 573 | 500.0 | 115 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/17/12 |
| Batch No. | : 12C135 | Date Extracted | : 03/17/12 14:41 |
| Sample ID | : MBLK1W | Date Analyzed | : 03/19/12 10:45 |
| Lab Samp ID | : EXC009WB | Dilution Factor | : 1 |
| Lab File ID | : PC19003A | Matrix | : WATER |
| Ext Btch ID | : EXC009W | % Moisture | : NA |
| Calib. Ref. | : PC19002A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 597 | 500.0 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: Method 8332

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | EXC009WB | EXC009WL | EXC009WC | | |
| LAB FILE ID: | PC19003A | PC19004A | PC19005A | | |
| DATE EXTRACTED: | 03/17/1214:41 | 03/17/1214:41 | 03/17/1214:41 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/19/1210:45 | 03/19/1210:59 | 03/19/1211:13 | DATE RECEIVED: | 03/17/12 |
| PREP. BATCH: | EXC009W | EXC009W | EXC009W | | |
| CALIB. REF: | PC19002A | PC19002A | PC19002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 1870 | 1800 | 96 | 1870 | 1960 | 105 | 9 | 50-150 | 30 |
| PETN | ND | 1870 | 1890 | 101 | 1870 | 1890 | 101 | 0 | 50-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 500 | 576 | 115 | 500 | 563 | 113 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/15/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/16/12 |
| Batch No. | : 12C135 | Date Extracted | : 03/22/12 20:10 |
| Sample ID | : SL-029-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/26/12 10:22 |
| Lab Samp ID | : C135-03 | Dilution Factor | : 1 |
| Lab File ID | : PC26006A | Matrix | : SOIL |
| Ext Btch ID | : EXC017S | % Moisture | : NA |
| Calib. Ref. | : PC26002A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2460 | 2000 | 123 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 20:10 |
| Sample ID: SL-052-NBZ-SS-0.0-0.5 | Date Analyzed: 03/26/12 10:35 |
| Lab Samp ID: C135-04 | Dilution Factor: 1 |
| Lab File ID: PC26007A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: PC26002A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2400 | 2000 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/15/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/16/12 |
| Batch No. | : 12C135 | Date Extracted | : 03/22/12 20:10 |
| Sample ID | : SL-053-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/26/12 10:49 |
| Lab Samp ID | : C135-05 | Dilution Factor | : 1 |
| Lab File ID | : PC26008A | Matrix | : SOIL |
| Ext Btch ID | : EXC017S | % Moisture | : NA |
| Calib. Ref. | : PC26002A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2580 | 2000 | 129 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/15/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/16/12 |
| Batch No. | : 12C135 | Date Extracted | : 03/22/12 20:10 |
| Sample ID | : SL-056-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/26/12 11:03 |
| Lab Samp ID | : C135-06 | Dilution Factor | : .99 |
| Lab File ID | : PC26009A | Matrix | : SOIL |
| Ext Btch ID | : EXC017S | % Moisture | : NA |
| Calib. Ref. | : PC26002A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2480 | 1980 | 125 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/15/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/16/12 |
| Batch No. | : 12C135 | Date Extracted | : 03/22/12 20:10 |
| Sample ID | : SL-058-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/26/12 11:17 |
| Lab Samp ID | : C135-08 | Dilution Factor | : 1 |
| Lab File ID | : PC26010A | Matrix | : SOIL |
| Ext Btch ID | : EXC017S | % Moisture | : NA |
| Calib. Ref. | : PC26002A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2380 | 2000 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/15/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/16/12 |
| Batch No. | : 12C135 | Date Extracted | : 03/22/12 20:10 |
| Sample ID | : SL-053-NBZ-SB-3.5-4.5 | Date Analyzed | : 03/26/12 11:31 |
| Lab Samp ID | : C135-10 | Dilution Factor | : 1 |
| Lab File ID | : PC26011A | Matrix | : SOIL |
| Ext Btch ID | : EXC017S | % Moisture | : NA |
| Calib. Ref. | : PC26002A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2400 | 2000 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 20:10 |
| Sample ID: SL-056-NBZ-SB-3.0-4.0 | Date Analyzed: 03/26/12 11:45 |
| Lab Samp ID: C135-12 | Dilution Factor: 1 |
| Lab File ID: PC26012A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: PC26002A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2420 | 2000 | 121 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C135 | Date Extracted: 03/22/12 20:10 |
| Sample ID: MBLK1S | Date Analyzed: 03/26/12 09:40 |
| Lab Samp ID: EXC017SB | Dilution Factor: 1 |
| Lab File ID: PC26003A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: PC26002A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2530 | 2000 | 126 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXC017SB | EXC017SX | EXC017SY | | |
| LAB FILE ID: | PC26003A | PC26004A | PC26005A | | |
| DATE EXTRACTED: | 03/22/1220:10 | 03/22/1220:10 | 03/22/1220:10 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/26/1209:40 | 03/26/1209:54 | 03/26/1210:08 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | EXC017S | EXC017S | EXC017S | | |
| CALIB. REF: | PC26002A | PC26002A | PC26002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7710 | 103 | 7500 | 7280 | 97 | 6 | 50-150 | 50 |
| PETN | ND | 7500 | 7790 | 104 | 7500 | 7650 | 102 | 2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2320 | 116 | 2000 | 2340 | 117 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/15/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/16/12 |
| SDG NO. | : 12C135 | Date Extracted | : 03/20/12 10:34 |
| Sample ID | : EB-NBZ-SB-031512 | Date Analyzed | : 03/20/12 18:11 |
| Lab Samp ID | : C135-01 | Dilution Factor | : 1 |
| Lab File ID | : 98C07039 | Matrix | : WATER |
| Ext Btch ID | : IMC020W | % Moisture | : NA |
| Calib. Ref. | : 98C07037 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Aluminum | 0.0225J | 0.100 | 0.0200 |
| Antimony | ND | 0.00100 | 0.000500 |
| Arsenic | ND | 0.00100 | 0.000200 |
| Barium | ND | 0.00100 | 0.000500 |
| Beryllium | ND | 0.00100 | 0.000100 |
| Boron | ND | 0.0100 | 0.00500 |
| Cadmium | ND | 0.00100 | 0.000200 |
| Calcium | ND | 0.100 | 0.0250 |
| Chromium | ND | 0.00100 | 0.000200 |
| Cobalt | ND | 0.00100 | 0.000200 |
| Copper | 0.000785J | 0.00100 | 0.000500 |
| Iron | ND | 0.100 | 0.0100 |
| Lead | ND | 0.00100 | 0.000100 |
| Magnesium | ND | 0.100 | 0.0100 |
| Manganese | ND | 0.00100 | 0.000200 |
| Molybdenum | ND | 0.00200 | 0.000500 |
| Nickel | ND | 0.00100 | 0.000200 |
| Potassium | ND | 0.100 | 0.0200 |
| Selenium | ND | 0.00100 | 0.000300 |
| Silver | ND | 0.00100 | 0.000200 |
| Sodium | ND | 0.100 | 0.0500 |
| Strontium | ND | 0.00200 | 0.00100 |
| Thallium | ND | 0.00100 | 0.000200 |
| Tin | ND | 0.00100 | 0.000200 |
| Titanium | ND | 0.00200 | 0.000500 |
| Vanadium | ND | 0.00100 | 0.000500 |
| Zinc | ND | 0.0200 | 0.0100 |
| Lithium | ND | 0.00200 | 0.000500 |
| Phosphorus | ND | 0.0500 | 0.0250 |
| Zirconium | ND | 0.00500 | 0.00200 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/15/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/16/12 |
| SDG NO. | : 12C135 | Date Extracted | : 03/20/12 10:34 |
| Sample ID | : EB-NBZ-SS-031512 | Date Analyzed | : 03/20/12 18:17 |
| Lab Samp ID | : C135-02 | Dilution Factor | : 1 |
| Lab File ID | : 98C07040 | Matrix | : WATER |
| Ext Btch ID | : IMC020W | % Moisture | : NA |
| Calib. Ref. | : 98C07037 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Aluminum | 0.0277J | 0.100 | 0.0200 |
| Antimony | ND | 0.00100 | 0.000500 |
| Arsenic | ND | 0.00100 | 0.000200 |
| Barium | ND | 0.00100 | 0.000500 |
| Beryllium | ND | 0.00100 | 0.000100 |
| Boron | ND | 0.0100 | 0.00500 |
| Cadmium | ND | 0.00100 | 0.000200 |
| Calcium | ND | 0.100 | 0.0250 |
| Chromium | ND | 0.00100 | 0.000200 |
| Cobalt | ND | 0.00100 | 0.000200 |
| Copper | 0.00115 | 0.00100 | 0.000500 |
| Iron | ND | 0.100 | 0.0100 |
| Lead | ND | 0.00100 | 0.000100 |
| Magnesium | ND | 0.100 | 0.0100 |
| Manganese | ND | 0.00100 | 0.000200 |
| Molybdenum | ND | 0.00200 | 0.000500 |
| Nickel | ND | 0.00100 | 0.000200 |
| Potassium | ND | 0.100 | 0.0200 |
| Selenium | ND | 0.00100 | 0.000300 |
| Silver | ND | 0.00100 | 0.000200 |
| Sodium | ND | 0.100 | 0.0500 |
| Strontium | ND | 0.00200 | 0.00100 |
| Thallium | ND | 0.00100 | 0.000200 |
| Tin | ND | 0.00100 | 0.000200 |
| Titanium | ND | 0.00200 | 0.000500 |
| Vanadium | ND | 0.00100 | 0.000500 |
| Zinc | ND | 0.0200 | 0.0100 |
| Lithium | ND | 0.00200 | 0.000500 |
| Phosphorus | ND | 0.0500 | 0.0250 |
| Zirconium | ND | 0.00500 | 0.00200 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| SDG NO. : 12C135 | Date Extracted: 03/20/12 10:34 |
| Sample ID: MBLK1W | Date Analyzed: 03/20/12 18:24 |
| Lab Samp ID: IMC020WB | Dilution Factor: 1 |
| Lab File ID: 98C07041 | Matrix : WATER |
| Ext Btch ID: IMC020W | % Moisture : NA |
| Calib. Ref.: 98C07037 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Aluminum | ND | 0.100 | 0.0200 |
| Antimony | ND | 0.00100 | 0.000500 |
| Arsenic | ND | 0.00100 | 0.000200 |
| Barium | ND | 0.00100 | 0.000500 |
| Beryllium | ND | 0.00100 | 0.000100 |
| Boron | ND | 0.0100 | 0.00500 |
| Cadmium | ND | 0.00100 | 0.000200 |
| Calcium | ND | 0.100 | 0.0250 |
| Chromium | ND | 0.00100 | 0.000200 |
| Cobalt | ND | 0.00100 | 0.000200 |
| Copper | ND | 0.00100 | 0.000500 |
| Iron | ND | 0.100 | 0.0100 |
| Lead | ND | 0.00100 | 0.000100 |
| Magnesium | ND | 0.100 | 0.0100 |
| Manganese | ND | 0.00100 | 0.000200 |
| Molybdenum | ND | 0.00200 | 0.000500 |
| Nickel | ND | 0.00100 | 0.000200 |
| Potassium | ND | 0.100 | 0.0200 |
| Selenium | ND | 0.00100 | 0.000300 |
| Silver | ND | 0.00100 | 0.000200 |
| Sodium | ND | 0.100 | 0.0500 |
| Strontium | ND | 0.00200 | 0.00100 |
| Thallium | ND | 0.00100 | 0.000200 |
| Tin | ND | 0.00100 | 0.000200 |
| Titanium | ND | 0.00200 | 0.000500 |
| Vanadium | ND | 0.00100 | 0.000500 |
| Zinc | ND | 0.0200 | 0.0100 |
| Lithium | ND | 0.00200 | 0.000500 |
| Phosphorus | ND | 0.0500 | 0.0250 |
| Zirconium | ND | 0.00500 | 0.00200 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C135
METHOD: METHOD 6020

MATRIX: WATER % MOISTURE: NA
DILTN FACTR: 1 1 1
SAMPLE ID: MBLK1W
CONTROL NO.: IMC020WB IMC020WL IMC020WC
LAB FILE ID: 98C07041 98C07042 98C07043
DATIME EXTRCTD: 03/20/1210:34 03/20/1210:34 03/20/1210:34 DATE COLLECTED: NA
DATIME ANALYZD: 03/20/1218:24 03/20/1218:31 03/20/1218:38 DATE RECEIVED: 03/20/12
PREP. BATCH: IMC020W IMC020W IMC020W
CALIB. REF: 98C07037 98C07037 98C07037

ACCESSION:

| PARAMETER | BLNK RSLT mg/L | SPIKE AMT mg/L | BS RSLT mg/L | BS % REC | SPIKE AMT mg/L | BSD RSLT mg/L | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2.50 | 2.47 | 99 | 2.50 | 2.54 | 102 | 3 | 80-120 | 20 |
| Antimony | ND | 0.0250 | 0.0250 | 100 | 0.0250 | 0.0253 | 101 | 1 | 80-120 | 20 |
| Arsenic | ND | 0.0250 | 0.0257 | 103 | 0.0250 | 0.0257 | 103 | 0 | 80-120 | 20 |
| Barium | ND | 0.0250 | 0.0251 | 100 | 0.0250 | 0.0253 | 101 | 1 | 80-120 | 20 |
| Beryllium | ND | 0.0250 | 0.0243 | 97 | 0.0250 | 0.0247 | 99 | 2 | 80-120 | 20 |
| Boron | ND | 0.0250 | 0.0241 | 97 | 0.0250 | 0.0246 | 98 | 2 | 80-120 | 20 |
| Cadmium | ND | 0.0250 | 0.0247 | 99 | 0.0250 | 0.0254 | 101 | 3 | 80-120 | 20 |
| Calcium | ND | 2.50 | 2.60 | 104 | 2.50 | 2.65 | 106 | 2 | 80-120 | 20 |
| Chromium | ND | 0.0250 | 0.0253 | 101 | 0.0250 | 0.0254 | 101 | 0 | 80-120 | 20 |
| Cobalt | ND | 0.0250 | 0.0242 | 97 | 0.0250 | 0.0248 | 99 | 2 | 80-120 | 20 |
| Copper | ND | 0.0250 | 0.0259 | 103 | 0.0250 | 0.0260 | 104 | 1 | 80-120 | 20 |
| Iron | ND | 2.50 | 2.62 | 105 | 2.50 | 2.63 | 105 | 0 | 80-120 | 20 |
| Lead | ND | 0.0250 | 0.0247 | 99 | 0.0250 | 0.0250 | 100 | 1 | 80-120 | 20 |
| Magnesium | ND | 2.50 | 2.45 | 98 | 2.50 | 2.54 | 102 | 3 | 80-120 | 20 |
| Manganese | ND | 0.0250 | 0.0250 | 100 | 0.0250 | 0.0255 | 102 | 2 | 80-120 | 20 |
| Molybdenum | ND | 0.0250 | 0.0247 | 99 | 0.0250 | 0.0247 | 99 | 0 | 80-120 | 20 |
| Nickel | ND | 0.0250 | 0.0255 | 102 | 0.0250 | 0.0254 | 102 | 0 | 80-120 | 20 |
| Potassium | ND | 2.50 | 2.59 | 104 | 2.50 | 2.61 | 104 | 1 | 80-120 | 20 |
| Selenium | ND | 0.0250 | 0.0263 | 105 | 0.0250 | 0.0264 | 105 | 0 | 80-120 | 20 |
| Silver | ND | 0.0250 | 0.0241 | 97 | 0.0250 | 0.0249 | 100 | 3 | 80-120 | 20 |
| Sodium | ND | 2.50 | 2.47 | 99 | 2.50 | 2.51 | 100 | 1 | 80-120 | 20 |
| Strontium | ND | 0.0250 | 0.0255 | 102 | 0.0250 | 0.0259 | 103 | 1 | 80-120 | 20 |
| Thallium | ND | 0.0250 | 0.0250 | 100 | 0.0250 | 0.0254 | 102 | 2 | 80-120 | 20 |
| Tin | ND | 0.0250 | 0.0255 | 102 | 0.0250 | 0.0256 | 102 | 1 | 80-120 | 20 |
| Titanium | ND | 0.0250 | 0.0263 | 105 | 0.0250 | 0.0255 | 102 | 3 | 80-120 | 20 |
| Vanadium | ND | 0.0250 | 0.0256 | 103 | 0.0250 | 0.0256 | 102 | 0 | 80-120 | 20 |
| Zinc | ND | 0.0500 | 0.0490 | 98 | 0.0500 | 0.0495 | 99 | 1 | 80-120 | 20 |
| Lithium | ND | 0.0250 | 0.0248 | 99 | 0.0250 | 0.0249 | 100 | 0 | 80-120 | 20 |
| Phosphorus | ND | 0.250 | 0.258 | 103 | 0.250 | 0.258 | 103 | 0 | 80-120 | 20 |
| Zirconium | ND | 0.0250 | 0.0251 | 101 | 0.0250 | 0.0255 | 102 | 1 | 80-120 | 20 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| SDG NO. : 12C135 | Date Extracted: 03/20/12 14:43 |
| Sample ID: SL-029-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 19:30 # 03/22/12 21:15 |
| Lab Samp ID: C135-03 #C135-03W | Dilution Factor: 0.982 |
| Lab File ID: 98C08043 #98C09046 | Matrix : SOIL |
| Ext Btch ID: IMC021S | % Moisture : 3.0 |
| Calib. Ref.: 98C08040 #98C09042 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| # Aluminum | 10100 | 24.3 | 12.1 |
| # Antimony | 0.247 | 0.202 | 0.101 |
| # Arsenic | 9.24 | 0.405 | 0.202 |
| # Barium | 84.9 | 0.405 | 0.202 |
| # Beryllium | 0.474 | 0.101 | 0.0506 |
| Boron | ND | 5.06 | 2.53 |
| # Cadmium | 0.224 | 0.101 | 0.0506 |
| # Calcium | 3170 | 20.2 | 10.1 |
| # Chromium | 13.8 | 0.405 | 0.202 |
| # Cobalt | 6.27 | 0.101 | 0.0506 |
| # Copper | 9.30 | 0.405 | 0.202 |
| # Iron | 21100 | 20.2 | 10.1 |
| # Lead | 16.1 | 0.202 | 0.101 |
| # Magnesium | 3980 | 10.1 | 5.06 |
| # Manganese | 245 | 0.506 | 0.253 |
| # Molybdenum | 0.500 | 0.101 | 0.0506 |
| # Nickel | 9.98 | 0.405 | 0.202 |
| # Potassium | 3000 | 60.7 | 30.4 |
| # Selenium | ND | 0.405 | 0.202 |
| # Silver | 0.0554J | 0.101 | 0.0506 |
| # Sodium | 81.6J | 101 | 50.6 |
| # Strontium | 16.2 | 0.506 | 0.253 |
| # Thallium | 0.225 | 0.101 | 0.0506 |
| # Tin | ND | 10.1 | 5.06 |
| # Titanium | 793 | 1.01 | 0.506 |
| # Vanadium | 32.7 | 0.101 | 0.0506 |
| # Zinc | 57.2 | 3.04 | 1.52 |
| # Lithium | 20.6 | 2.02 | 1.01 |
| # Phosphorus | 342 | 12.1 | 6.07 |
| # Zirconium | ND | 5.06 | 2.53 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/15/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/16/12 |
| SDG NO. | : 12C135 | Date Extracted | : 03/20/12 14:43 |
| Sample ID | : SL-052-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/21/12 19:37 # 03/22/12 21:22 |
| Lab Samp ID | : C135-04 #C135-04W | Dilution Factor | : 0.976 |
| Lab File ID | : 98C08044 #98C09047 | Matrix | : SOIL |
| Ext Btch ID | : IMC021S | % Moisture | : 2.3 |
| Calib. Ref. | : 98C08040 #98C09042 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| # Aluminum | 6650 | 24.0 | 12.0 |
| # Antimony | 0.817 | 0.200 | 0.0999 |
| # Arsenic | 5.14 | 0.400 | 0.200 |
| # Barium | 63.8 | 0.400 | 0.200 |
| # Beryllium | 0.350 | 0.0999 | 0.0499 |
| Boron | 4.11J | 4.99 | 2.50 |
| # Cadmium | 0.453 | 0.0999 | 0.0499 |
| # Calcium | 113000 | 20.0 | 9.99 |
| # Chromium | 11.3 | 0.400 | 0.200 |
| # Cobalt | 3.31 | 0.0999 | 0.0499 |
| # Copper | 5.87 | 0.400 | 0.200 |
| # Iron | 11600 | 20.0 | 9.99 |
| # Lead | 14.6 | 0.200 | 0.0999 |
| # Magnesium | 6700 | 9.99 | 4.99 |
| # Manganese | 214 | 0.499 | 0.250 |
| # Molybdenum | 0.359 | 0.0999 | 0.0499 |
| # Nickel | 7.15 | 0.400 | 0.200 |
| # Potassium | 2250 | 59.9 | 30.0 |
| # Selenium | ND | 0.400 | 0.200 |
| # Silver | ND | 0.0999 | 0.0499 |
| # Sodium | 54.7J | 99.9 | 49.9 |
| # Strontium | 209 | 0.499 | 0.250 |
| # Thallium | 0.159 | 0.0999 | 0.0499 |
| # Tin | ND | 9.99 | 4.99 |
| # Titanium | 565 | 0.999 | 0.499 |
| # Vanadium | 18.2 | 0.0999 | 0.0499 |
| # Zinc | 53.1 | 3.00 | 1.50 |
| # Lithium | 13.8 | 2.00 | 0.999 |
| # Phosphorus | 276 | 12.0 | 5.99 |
| # Zirconium | ND | 4.99 | 2.50 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| SDG NO. : 12C135 | Date Extracted: 03/20/12 14:43 |
| Sample ID: SL-053-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 19:44 # 03/22/12 21:29 |
| Lab Samp ID: C135-05 #C135-05W | Dilution Factor: 0.932 |
| Lab File ID: 98C08045 #98C09048 | Matrix : SOIL |
| Ext Btch ID: IMC021S | % Moisture : 1.9 |
| Calib. Ref.: 98C08040 #98C09042 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| # Aluminum | 7430 | 22.8 | 11.4 |
| # Antimony | 0.670 | 0.190 | 0.0950 |
| # Arsenic | 4.36 | 0.380 | 0.190 |
| # Barium | 77.6 | 0.380 | 0.190 |
| # Beryllium | 0.376 | 0.0950 | 0.0475 |
| Boron | 2.60J | 4.75 | 2.38 |
| # Cadmium | 0.648 | 0.0950 | 0.0475 |
| # Calcium | 92600 | 19.0 | 9.50 |
| # Chromium | 16.1 | 0.380 | 0.190 |
| # Cobalt | 4.06 | 0.0950 | 0.0475 |
| # Copper | 9.58 | 0.380 | 0.190 |
| # Iron | 14900 | 19.0 | 9.50 |
| # Lead | 15.4 | 0.190 | 0.0950 |
| # Magnesium | 6000 | 9.50 | 4.75 |
| # Manganese | 221 | 0.475 | 0.238 |
| # Molybdenum | 0.443 | 0.0950 | 0.0475 |
| # Nickel | 11.7 | 0.380 | 0.190 |
| # Potassium | 2820 | 57.0 | 28.5 |
| # Selenium | ND | 0.380 | 0.190 |
| # Silver | 0.0739J | 0.0950 | 0.0475 |
| # Sodium | 49.2J | 95.0 | 47.5 |
| # Strontium | 176 | 0.475 | 0.238 |
| # Thallium | 0.176 | 0.0950 | 0.0475 |
| # Tin | ND | 9.50 | 4.75 |
| # Titanium | 662 | 0.950 | 0.475 |
| # Vanadium | 24.6 | 0.0950 | 0.0475 |
| # Zinc | 101 | 2.85 | 1.43 |
| # Lithium | 15.6 | 1.90 | 0.950 |
| # Phosphorus | 350 | 11.4 | 5.70 |
| # Zirconium | ND | 4.75 | 2.38 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| SDG NO. : 12C135 | Date Extracted: 03/20/12 14:43 |
| Sample ID: SL-056-NBZ-SS-0.0-0.5 | Date Analyzed: 03/21/12 19:51 # 03/22/12 21:36 |
| Lab Samp ID: C135-06 #C135-06W | Dilution Factor: 0.990 |
| Lab File ID: 98C08046 #98C09049 | Matrix : SOIL |
| Ext Btch ID: IMC021S | % Moisture : 2.7 |
| Calib. Ref.: 98C08040 #98C09042 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| # Aluminum | 9670 | 24.4 | 12.2 |
| # Antimony | 0.562 | 0.203 | 0.102 |
| # Arsenic | 5.12 | 0.407 | 0.203 |
| # Barium | 107 | 0.407 | 0.203 |
| # Beryllium | 0.506 | 0.102 | 0.0509 |
| Boron | 3.44J | 5.09 | 2.54 |
| # Cadmium | 0.439 | 0.102 | 0.0509 |
| # Calcium | 11100 | 20.3 | 10.2 |
| # Chromium | 21.9 | 0.407 | 0.203 |
| # Cobalt | 5.88 | 0.102 | 0.0509 |
| # Copper | 12.6 | 0.407 | 0.203 |
| # Iron | 22200 | 20.3 | 10.2 |
| # Lead | 39.4 | 0.203 | 0.102 |
| # Magnesium | 4210 | 10.2 | 5.09 |
| # Manganese | 337 | 0.509 | 0.254 |
| # Molybdenum | 0.752 | 0.102 | 0.0509 |
| # Nickel | 13.8 | 0.407 | 0.203 |
| # Potassium | 3640 | 61.0 | 30.5 |
| # Selenium | ND | 0.407 | 0.203 |
| # Silver | 0.0963J | 0.102 | 0.0509 |
| # Sodium | 54.1J | 102 | 50.9 |
| # Strontium | 31.8 | 0.509 | 0.254 |
| # Thallium | 0.226 | 0.102 | 0.0509 |
| # Tin | ND | 10.2 | 5.09 |
| # Titanium | 828 | 1.02 | 0.509 |
| # Vanadium | 33.4 | 0.102 | 0.0509 |
| # Zinc | 62.9 | 3.05 | 1.53 |
| # Lithium | 19.9 | 2.03 | 1.02 |
| # Phosphorus | 453 | 12.2 | 6.10 |
| # Zirconium | ND | 5.09 | 2.54 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| SDG NO. : 12C135 | Date Extracted: 03/20/12 14:43 |
| Sample ID: SL-058-NBZ-SB-4.0-5.0 | Date Analyzed: 03/21/12 19:57 # 03/22/12 21:43 |
| Lab Samp ID: C135-08 #C135-08W | Dilution Factor: 0.998 |
| Lab File ID: 98C08047 #98C09050 | Matrix : SOIL |
| Ext Btch ID: IMC021S | % Moisture : 5.2 |
| Calib. Ref.: 98C08040 #98C09042 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| # Aluminum | 13400 | 25.3 | 12.6 |
| # Antimony | 0.154J | 0.211 | 0.105 |
| # Arsenic | 5.50 | 0.421 | 0.211 |
| # Barium | 82.5 | 0.421 | 0.211 |
| # Beryllium | 0.660 | 0.105 | 0.0526 |
| Boron | ND | 5.26 | 2.63 |
| # Cadmium | 0.105J | 0.105 | 0.0526 |
| # Calcium | 1780 | 21.1 | 10.5 |
| # Chromium | 18.1 | 0.421 | 0.211 |
| # Cobalt | 4.11 | 0.105 | 0.0526 |
| # Copper | 7.17 | 0.421 | 0.211 |
| # Iron | 19600 | 21.1 | 10.5 |
| # Lead | 5.50 | 0.211 | 0.105 |
| # Magnesium | 4210 | 10.5 | 5.26 |
| # Manganese | 190 | 0.526 | 0.263 |
| # Molybdenum | 0.679 | 0.105 | 0.0526 |
| # Nickel | 10.3 | 0.421 | 0.211 |
| # Potassium | 2010 | 63.2 | 31.6 |
| # Selenium | ND | 0.421 | 0.211 |
| # Silver | 0.0667J | 0.105 | 0.0526 |
| # Sodium | 69.1J | 105 | 52.6 |
| # Strontium | 15.1 | 0.526 | 0.263 |
| # Thallium | 0.253 | 0.105 | 0.0526 |
| # Tin | ND | 10.5 | 5.26 |
| # Titanium | 876 | 1.05 | 0.526 |
| # Vanadium | 31.7 | 0.105 | 0.0526 |
| # Zinc | 47.1 | 3.16 | 1.58 |
| # Lithium | 24.3 | 2.11 | 1.05 |
| # Phosphorus | 215 | 12.6 | 6.32 |
| # Zirconium | ND | 5.26 | 2.63 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| SDG NO. : 12C135 | Date Extracted: 03/20/12 14:43 |
| Sample ID: SL-053-NBZ-SB-3.5-4.5 | Date Analyzed: 03/21/12 20:04 # 03/22/12 21:50 |
| Lab Samp ID: C135-10 #C135-10W | Dilution Factor: 0.986 |
| Lab File ID: 98C08048 #98C09051 | Matrix : SOIL |
| Ext Btch ID: IMC021S | % Moisture : 3.8 |
| Calib. Ref.: 98C08040 #98C09042 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| # Aluminum | 14500 | 24.6 | 12.3 |
| # Antimony | 0.205J | 0.205 | 0.102 |
| # Arsenic | 4.34 | 0.410 | 0.205 |
| # Barium | 80.2 | 0.410 | 0.205 |
| # Beryllium | 0.601 | 0.102 | 0.0512 |
| Boron | ND | 5.12 | 2.56 |
| # Cadmium | 0.0896J | 0.102 | 0.0512 |
| # Calcium | 2430 | 20.5 | 10.2 |
| # Chromium | 21.7 | 0.410 | 0.205 |
| # Cobalt | 6.69 | 0.102 | 0.0512 |
| # Copper | 8.55 | 0.410 | 0.205 |
| # Iron | 22700 | 20.5 | 10.2 |
| # Lead | 5.12 | 0.205 | 0.102 |
| # Magnesium | 6240 | 10.2 | 5.12 |
| # Manganese | 282 | 0.512 | 0.256 |
| # Molybdenum | 0.658 | 0.102 | 0.0512 |
| # Nickel | 12.3 | 0.410 | 0.205 |
| # Potassium | 3110 | 61.5 | 30.7 |
| # Selenium | 0.323J | 0.410 | 0.205 |
| # Silver | ND | 0.102 | 0.0512 |
| # Sodium | 77.2J | 102 | 51.2 |
| # Strontium | 16.0 | 0.512 | 0.256 |
| # Thallium | 0.268 | 0.102 | 0.0512 |
| # Tin | ND | 10.2 | 5.12 |
| # Titanium | 1140 | 1.02 | 0.512 |
| # Vanadium | 44.2 | 0.102 | 0.0512 |
| # Zinc | 54.1 | 3.07 | 1.54 |
| # Lithium | 34.4 | 2.05 | 1.02 |
| # Phosphorus | 337 | 12.3 | 6.15 |
| # Zirconium | ND | 5.12 | 2.56 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| SDG NO. : 12C135 | Date Extracted: 03/20/12 14:43 |
| Sample ID: SL-056-NBZ-SB-3.0-4.0 | Date Analyzed: 03/21/12 20:11 # 03/22/12 21:57 |
| Lab Samp ID: C135-12 #C135-12W | Dilution Factor: 0.971 |
| Lab File ID: 98C08049 #98C09052 | Matrix : SOIL |
| Ext Btch ID: IMC021S | % Moisture : 4.2 |
| Calib. Ref.: 98C08040 #98C09042 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| # Aluminum | 13000 | 24.3 | 12.2 |
| # Antimony | 0.225 | 0.203 | 0.101 |
| # Arsenic | 4.14 | 0.405 | 0.203 |
| # Barium | 79.7 | 0.405 | 0.203 |
| # Beryllium | 0.722 | 0.101 | 0.0507 |
| Boron | ND | 5.07 | 2.53 |
| # Cadmium | 0.153 | 0.101 | 0.0507 |
| # Calcium | 2240 | 20.3 | 10.1 |
| # Chromium | 16.2 | 0.405 | 0.203 |
| # Cobalt | 6.49 | 0.101 | 0.0507 |
| # Copper | 6.41 | 0.405 | 0.203 |
| # Iron | 20700 | 20.3 | 10.1 |
| # Lead | 6.24 | 0.203 | 0.101 |
| # Magnesium | 4280 | 10.1 | 5.07 |
| # Manganese | 315 | 0.507 | 0.253 |
| # Molybdenum | 0.719 | 0.101 | 0.0507 |
| # Nickel | 9.88 | 0.405 | 0.203 |
| # Potassium | 2810 | 60.8 | 30.4 |
| # Selenium | ND | 0.405 | 0.203 |
| # Silver | 0.0511J | 0.101 | 0.0507 |
| # Sodium | 65.3J | 101 | 50.7 |
| # Strontium | 14.9 | 0.507 | 0.253 |
| # Thallium | 0.248 | 0.101 | 0.0507 |
| # Tin | ND | 10.1 | 5.07 |
| # Titanium | 921 | 1.01 | 0.507 |
| # Vanadium | 36.1 | 0.101 | 0.0507 |
| # Zinc | 47.1 | 3.04 | 1.52 |
| # Lithium | 24.1 | 2.03 | 1.01 |
| # Phosphorus | 268 | 12.2 | 6.08 |
| # Zirconium | ND | 5.07 | 2.53 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| SDG NO. : 12C135 | Date Extracted: 03/20/12 14:43 |
| Sample ID: MBLK1S | Date Analyzed: 03/22/12 18:16 # 03/21/12 16:45 |
| Lab Samp ID: IMC021SQ | Dilution Factor: 1 |
| Lab File ID: 98C09020 # 98C08019 | Matrix : SOIL |
| Ext Btch ID: IMC021S | % Moisture : NA |
| Calib. Ref.: 98C09018 # 98C08017 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| #Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C135
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: NA
DILTN FACTR: 1 1 1
SAMPLE ID: MBLK1S
CONTROL NO.: IMC021SQ IMC021SX IMC021SY
LAB FILE ID: 98C09020 98C09021 98C09022
DATIME EXTRCTD: 03/20/1214:43 03/20/1214:43 03/20/1214:43 DATE COLLECTED: NA
DATIME ANALYZD: 03/22/1218:16 03/22/1218:23 03/22/1218:30 DATE RECEIVED: 03/20/12
PREP. BATCH: NA NA NA
CALIB. REF: 98C09018 98C09018 98C09018

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2390 | 96 | 2500 | 2410 | 97 | 1 | 80-120 | 20 |
| Antimony | ND | 25.0 | 25.4 | 102 | 25.0 | 25.8 | 103 | 2 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 24.2 | 97 | 25.0 | 24.7 | 99 | 2 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.0 | 100 | 25.0 | 25.5 | 102 | 2 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 26.3 | 105 | 25.0 | 26.5 | 106 | 1 | 80-120 | 20 |
| Boron^ | ND | 25.0 | 24.8 | 99 | 25.0 | 25.6 | 102 | 3 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 24.4 | 97 | 25.0 | 24.8 | 99 | 2 | 80-120 | 20 |
| Calcium | ND | 2500 | 2610 | 104 | 2500 | 2650 | 106 | 2 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.5 | 98 | 25.0 | 24.8 | 99 | 1 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 25.1 | 100 | 25.0 | 24.8 | 99 | 1 | 80-120 | 20 |
| Copper | ND | 25.0 | 24.4 | 97 | 25.0 | 24.7 | 99 | 1 | 80-120 | 20 |
| Iron | ND | 2500 | 2580 | 103 | 2500 | 2600 | 104 | 1 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.4 | 102 | 25.0 | 25.7 | 103 | 1 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2380 | 95 | 2500 | 2410 | 96 | 1 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.6 | 102 | 25.0 | 25.5 | 102 | 0 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 24.3 | 97 | 25.0 | 24.6 | 99 | 1 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.2 | 97 | 25.0 | 24.5 | 98 | 1 | 80-120 | 20 |
| Potassium | ND | 2500 | 2530 | 101 | 2500 | 2580 | 103 | 2 | 80-120 | 20 |
| Selenium | ND | 25.0 | 23.9 | 96 | 25.0 | 24.5 | 98 | 2 | 80-120 | 20 |
| Silver | ND | 25.0 | 24.6 | 98 | 25.0 | 25.2 | 101 | 2 | 80-120 | 20 |
| Sodium | ND | 2500 | 2460 | 98 | 2500 | 2510 | 100 | 2 | 80-120 | 20 |
| Strontium | ND | 25.0 | 25.4 | 102 | 25.0 | 25.7 | 103 | 1 | 80-120 | 20 |
| Thallium | ND | 25.0 | 25.3 | 101 | 25.0 | 25.2 | 101 | 0 | 80-120 | 20 |
| Tin | ND | 25.0 | 27.1 | 108 | 25.0 | 27.4 | 109 | 1 | 80-120 | 20 |
| Titanium | ND | 25.0 | 25.2 | 101 | 25.0 | 25.1 | 100 | 1 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 24.5 | 98 | 25.0 | 24.8 | 99 | 1 | 80-120 | 20 |
| Zinc | ND | 50.0 | 47.0 | 94 | 50.0 | 47.9 | 96 | 2 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.7 | 103 | 25.0 | 25.8 | 103 | 0 | 80-120 | 20 |
| Phosphorus | ND | 250 | 232 | 93 | 250 | 234 | 94 | 1 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 25.3 | 101 | 25.0 | 25.4 | 102 | 1 | 80-120 | 20 |

^ IMC021SX/Y : Analyzed on 03/21/12 16:52/16:59 | File ID 98C08020/21

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C135
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 8.9
DILTN FACTR: 0.988 0.988
SAMPLE ID: SL-068-NBZ-SB-2.5-3.5RE
CONTROL NO.: C156-04W C156-04A
LAB FILE ID: 98C09026 98C09025
DATIME EXTRCTD: 03/20/1214:43 03/20/1214:43 DATE COLLECTED: 03/16/12
DATIME ANALYZD: 03/22/1218:57 03/22/1218:50 DATE RECEIVED: 03/16/12
PREP. BATCH: NA NA
CALIB. REF: 98C09018 98C09018

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 11900 | 2710 | 14500 | 96 | 75-125 |
| Antimony | 0.145J | 27.1 | 27.7 | 102 | 75-125 |
| Arsenic | 5.87 | 27.1 | 30.9 | 92 | 75-125 |
| Barium | 53.8 | 27.1 | 81.6 | 103 | 75-125 |
| Beryllium | 0.647 | 27.1 | 27.9 | 101 | 75-125 |
| Boron^ | ND | 27.1 | 25.7 | 95 | 75-125 |
| Cadmium | 0.0747J | 27.1 | 26.3 | 97 | 75-125 |
| Calcium | 1530 | 2710 | 4170 | 97 | 75-125 |
| Chromium | 12.4 | 27.1 | 36.7 | 90 | 75-125 |
| Cobalt | 4.42 | 27.1 | 28.9 | 90 | 75-125 |
| Copper | 3.85 | 27.1 | 27.5 | 87 | 75-125 |
| Iron | 20000 | 2710 | 22600 | 95 | 75-125 |
| Lead | 4.58 | 27.1 | 31.2 | 98 | 75-125 |
| Magnesium | 3570 | 2710 | 6000 | 90 | 75-125 |
| Manganese | 163 | 27.1 | 184 | 81 | 75-125 |
| Molybdenum | 0.434 | 27.1 | 26.8 | 97 | 75-125 |
| Nickel | 5.10 | 27.1 | 28.9 | 88 | 75-125 |
| Potassium | 1590 | 2710 | 4250 | 98 | 75-125 |
| Selenium | ND | 27.1 | 25.8 | 95 | 75-125 |
| Silver | ND | 27.1 | 26.1 | 96 | 75-125 |
| Sodium | 105J | 2710 | 2610 | 92 | 75-125 |
| Strontium | 13.7 | 27.1 | 40.4 | 99 | 75-125 |
| Thallium | 0.348 | 27.1 | 27.0 | 98 | 75-125 |
| Tin | ND | 27.1 | 30.2 | 112 | 75-125 |
| Titanium | 832 | 27.1 | 852 | 76 | 75-125 |
| Vanadium | 30.5 | 27.1 | 54.6 | 89 | 75-125 |
| Zinc | 38.8 | 54.2 | 87.7 | 90 | 75-125 |
| Lithium | 16.8 | 27.1 | 45.3 | 105 | 75-125 |
| Phosphorus | 130 | 271 | 367 | 88 | 75-125 |
| Zirconium | ND | 27.1 | 23.4 | 86 | 75-125 |

^ C156-04A : Analyzed on 03/21/12 17:19 | File ID 98C08024

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 8.9

| | | |
|---|---|---|
| DILUTION FACTOR: | 0.988 | 4.94 |
| SAMPLE ID: | SL-068-NBZ-SB- | SL-068-NBZ-SB- |
| EMAX SAMP ID: | C156-04W | C156-04J |
| LAB FILE ID: | 98C09026 | 98C09027 |
| DATE EXTRACTED: | 03/20/1214:43 | 03/20/1214:43 |
| DATE ANALYZED: | 03/22/1218:57 | 03/22/1219:04 |
| PREP. BATCH: | IMC021S | IMC021S |
| CALIB. REF: | 98C09018 | 98C09018 |

DATE COLLECTED: 03/16/12
DATE RECEIVED: 03/16/12

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 11900 | 12500 | 5 | 10 |
| Antimony | 0.145J | ND | NA | 10 |
| Arsenic | 5.87 | 6.34 | 8 | 10 |
| Barium | 53.8 | 54.0 | 0 | 10 |
| Beryllium | 0.647 | 0.638 | 1 | 10 |
| Boron^ | ND | ND | 0 | 10 |
| Cadmium | 0.0747J | ND | NA | 10 |
| Calcium | 1530 | 1680 | 10 | 10 |
| Chromium | 12.4 | 12.9 | 4 | 10 |
| Cobalt | 4.42 | 4.79 | 8 | 10 |
| Copper | 3.85 | 4.21 | 9 | 10 |
| Iron | 20000 | 21400 | 7 | 10 |
| Lead | 4.58 | 4.65 | 2 | 10 |
| Magnesium | 3570 | 3700 | 4 | 10 |
| Manganese | 163 | 178 | 9 | 10 |
| Molybdenum | 0.434 | 0.462J | NA | 10 |
| Nickel | 5.10 | 5.44 | 7 | 10 |
| Potassium | 1590 | 1670 | 5 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | 105J | ND | NA | 10 |
| Strontium | 13.7 | 13.8 | 1 | 10 |
| Thallium | 0.348 | 0.516J | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 832 | 839 | 1 | 10 |
| Vanadium | 30.5 | 31.5 | 3 | 10 |
| Zinc | 38.8 | 40.8 | 5 | 10 |
| Lithium | 16.8 | 16.7 | 1 | 10 |
| Phosphorus | 130 | 139 | 7 | 10 |
| Zirconium | ND | ND | 0 | 10 |

^ C156-04W/04J : Analyzed at DF 0.988/4.94 on 03/21/12 17:26/17:33 | File ID 98C08025/26

METHOD 7470A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C135

Matrix : WATER
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | HGC017WB | ND | 1 | NA | 0.000500 | 0.000100 | 03/21/1217:40 | 03/21/1211:01 | M47C015010 | M47C015008 | HGC017W | NA | 03/21/12 |
| LCS1W | HGC017WL | 0.00521 | 1 | NA | 0.000500 | 0.000100 | 03/21/1217:42 | 03/21/1211:01 | M47C015011 | M47C015008 | HGC017W | NA | 03/21/12 |
| LCD1W | HGC017WC | 0.00506 | 1 | NA | 0.000500 | 0.000100 | 03/21/1217:44 | 03/21/1211:01 | M47C015012 | M47C015008 | HGC017W | NA | 03/21/12 |
| EB-NBZ-SB-031512 | C135-01 | ND | 1 | NA | 0.000500 | 0.000100 | 03/21/1218:38 | 03/21/1211:01 | M47C015038 | M47C015032 | HGC017W | 03/15/12 | 03/16/12 |
| EB-NBZ-SS-031512 | C135-02 | ND | 1 | NA | 0.000500 | 0.000100 | 03/21/1218:41 | 03/21/1211:01 | M47C015039 | M47C015032 | HGC017W | 03/15/12 | 03/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C135
METHOD: METHOD 7470A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| CONTROL NO.: | HGC017WB | HGC017WL | HGC017WC | | |
| LAB FILE ID: | M47C015010 | M47C015011 | M47C015012 | | |
| DATIME EXTRCTD: | 03/21/1211:01 | 03/21/1211:01 | 03/21/1211:01 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 03/21/1217:40 | 03/21/1217:42 | 03/21/1217:44 | DATE RECEIVED: | 03/21/12 |
| PREP. BATCH: | HGC017W | HGC017W | HGC017W | | |
| CALIB. REF: | M47C015008 | M47C015008 | M47C015008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/L | SPIKE AMT mg/L | BS RSLT mg/L | BS % REC | SPIKE AMT mg/L | BSD RSLT mg/L | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .005 | .00521 | 104 | .005 | .00506 | 101 | 3 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C135
METHOD: METHOD 7470A

MATRIX: WATER % MOISTURE: NA
DILTN FACTR: 1 1
SAMPLE ID: LF4-MW4
CONTROL NO.: C123-04 C123-04A
LAB FILE ID: M47C015024 M47C015023
DATIME EXTRCTD: 03/21/1211:01 03/21/1211:01 DATE COLLECTED: 03/14/12
DATIME ANALYZD: 03/21/1218:09 03/21/1218:07 DATE RECEIVED: 03/15/12
PREP. BATCH: HGC017W HGC017W
CALIB. REF: M47C015020 M47C015020

ACCESSION:

| PARAMETER | SMPL RSLT (mg/L) | SPIKE AMT (mg/L) | AS RSLT (mg/L) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .005 | .00534 | 107 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 7470A

| | | | | |
|---|---|---|---|---|
| MATRIX: | WATER | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 5 | | |
| SAMPLE ID: | LF4-MW4 | LF4-MW4DL | | |
| EMAX SAMP ID: | C123-04 | C123-04J | | |
| LAB FILE ID: | M47C015024 | M47C015025 | | |
| DATE EXTRACTED: | 03/21/1211:01 | 03/21/1211:01 | DATE COLLECTED: | 03/14/12 |
| DATE ANALYZED: | 03/21/1218:09 | 03/21/1218:11 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | HGC017W | HGC017W | | |
| CALIB. REF: | M47C015020 | M47C015020 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/L) | SERIAL DIL RSLT (mg/L) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C135

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGC016SB | ND | 1 | NA | 0.100 | 0.0500 | 03/20/1217:26 | 03/20/1212:10 | M47C014010 | M47C014008 | HGC016S | NA | 03/20/12 |
| LCS1S | HGC016SL | 0.850 | 1 | NA | 0.100 | 0.0500 | 03/20/1217:28 | 03/20/1212:10 | M47C014011 | M47C014008 | HGC016S | NA | 03/20/12 |
| LCD1S | HGC016SC | 0.847 | 1 | NA | 0.100 | 0.0500 | 03/20/1217:30 | 03/20/1212:10 | M47C014012 | M47C014008 | HGC016S | NA | 03/20/12 |
| SL-029-NBZ-SS-0.0-0.5 | C135-03 | ND | 0.998 | 3.0 | 0.103 | 0.0514 | 03/20/1218:17 | 03/20/1212:10 | M47C014034 | M47C014032 | HGC016S | 03/15/12 | 03/16/12 |
| SL-052-NBZ-SS-0.0-0.5 | C135-04 | ND | 1.00 | 2.3 | 0.102 | 0.0512 | 03/20/1218:19 | 03/20/1212:10 | M47C014035 | M47C014032 | HGC016S | 03/15/12 | 03/16/12 |
| SL-053-NBZ-SS-0.0-0.5 | C135-05 | ND | 0.992 | 1.9 | 0.101 | 0.0506 | 03/20/1218:22 | 03/20/1212:10 | M47C014036 | M47C014032 | HGC016S | 03/15/12 | 03/16/12 |
| SL-056-NBZ-SS-0.0-0.5 | C135-06 | ND | 1.00 | 2.7 | 0.103 | 0.0514 | 03/20/1218:24 | 03/20/1212:10 | M47C014037 | M47C014032 | HGC016S | 03/15/12 | 03/16/12 |
| SL-058-NBZ-SB-4.0-5.0 | C135-08 | ND | 0.993 | 5.2 | 0.105 | 0.0524 | 03/20/1218:26 | 03/20/1212:10 | M47C014038 | M47C014032 | HGC016S | 03/15/12 | 03/16/12 |
| SL-053-NBZ-SB-3.5-4.5 | C135-10 | ND | 1.00 | 3.8 | 0.104 | 0.0520 | 03/20/1218:29 | 03/20/1212:10 | M47C014039 | M47C014032 | HGC016S | 03/15/12 | 03/16/12 |
| SL-056-NBZ-SB-3.0-4.0 | C135-12 | ND | 1.00 | 4.2 | 0.104 | 0.0522 | 03/20/1218:32 | 03/20/1212:10 | M47C014040 | M47C014032 | HGC016S | 03/15/12 | 03/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C135
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGC016SB | HGC016SL | HGC016SC | | |
| LAB FILE ID: | M47C014010 | M47C014011 | M47C014012 | | |
| DATIME EXTRCTD: | 03/20/1212:10 | 03/20/1212:10 | 03/20/1212:10 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 03/20/1217:26 | 03/20/1217:28 | 03/20/1217:30 | DATE RECEIVED: | 03/20/12 |
| PREP. BATCH: | HGC016S | HGC016S | HGC016S | | |
| CALIB. REF: | M47C014008 | M47C014008 | M47C014008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .85 | 102 | .833 | .847 | 102 | 0 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C135
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 8.6 |
| DILTN FACTR: | 1.00 | 1.00 | | |
| SAMPLE ID: | I-417-HB01-SS10.0 | | | |
| CONTROL NO.: | C126-05 | C126-05A | | |
| LAB FILE ID: | M47C014014 | M47C014013 | | |
| DATIME EXTRCTD: | 03/20/1212:10 | 03/20/1212:10 | DATE COLLECTED: | 03/14/12 |
| DATIME ANALYZD: | 03/20/1217:35 | 03/20/1217:32 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | HGC016S | HGC016S | | |
| CALIB. REF: | M47C014008 | M47C014008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .911 | .921 | 101 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 8.6

| | | | | |
|---|---|---|---|---|
| DILUTION FACTOR: | 1.00 | 5.02 | | |
| SAMPLE ID: | I-417-HB01-SS10.0 | I-417-HB01-SS10.0DL | | |
| EMAX SAMP ID: | C126-05 | C126-05J | | |
| LAB FILE ID: | M47C014014 | M47C014015 | | |
| DATE EXTRACTED: | 03/20/1212:10 | 03/20/1212:10 | DATE COLLECTED: | 03/14/12 |
| DATE ANALYZED: | 03/20/1217:35 | 03/20/1217:37 | DATE RECEIVED: | 03/15/12 |
| PREP. BATCH: | HGC016S | HGC016S | | |
| CALIB. REF: | M47C014008 | M47C014008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C135
Matrix : WATER
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | ICC035WB | ND | 1 | NA | 0.100 | 0.0500 | 03/16/1211:55 | NA | AC21-03 | AC21-01 | ICC035W | NA | NA |
| LCS1W | ICC035WL | 2.10 | 1 | NA | 0.100 | 0.0500 | 03/16/1212:11 | NA | AC21-04 | AC21-01 | ICC035W | NA | NA |
| LCD1W | ICC035WC | 2.10 | 1 | NA | 0.100 | 0.0500 | 03/16/1212:27 | NA | AC21-05 | AC21-01 | ICC035W | NA | NA |
| EB-NBZ-SB-031512 | C135-01 | ND | 1 | NA | 0.100 | 0.0500 | 03/16/1212:44 | NA | AC21-06 | AC21-01 | ICC035W | 03/15/1215:00 | 03/16/12 |
| EB-NBZ-SS-031512 | C135-02 | ND | 1 | NA | 0.100 | 0.0500 | 03/16/1213:00 | NA | AC21-07 | AC21-01 | ICC035W | 03/15/1214:30 | 03/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | ICC035WB | ICC035WL | ICC035WC | | |
| LAB FILE ID: | AC21-03 | AC21-04 | AC21-05 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/16/1211:55 | 03/16/1212:11 | 03/16/1212:27 | DATE RECEIVED: | NA |
| PREP. BATCH: | ICC035W | ICC035W | ICC035W | | |
| CALIB. REF: | AC21-01 | AC21-01 | AC21-01 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 2.00 | 2.10 | 105 | 2.00 | 2.10 | 105 | 0 | 90-110 | 20 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C135
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC003SB | ND | 1 | NA | 1.00 | 0.500 | 03/21/1206:52 | 03/19/1215:07 | AC25-74 | AC25-72 | ICC003S | NA | 03/19/12 |
| LCS1S | ICC003SL | 5.91 | 1 | NA | 1.00 | 0.500 | 03/21/1207:08 | 03/19/1215:07 | AC25-75 | AC25-72 | ICC003S | NA | 03/19/12 |
| LCD1S | ICC003SC | 5.92 | 1 | NA | 1.00 | 0.500 | 03/21/1207:25 | 03/19/1215:07 | AC25-76 | AC25-72 | ICC003S | NA | 03/19/12 |
| SL-029-NBZ-SS-0.0-0.5 | C135-03 | ND | 1 | 3.0 | 1.03 | 0.515 | 03/21/1210:22 | 03/19/1215:07 | AC25-87 | AC25-84 | ICC003S | 03/15/1209:00 | 03/16/12 |
| SL-052-NBZ-SS-0.0-0.5 | C135-04 | ND | 1 | 2.3 | 1.02 | 0.512 | 03/21/1210:39 | 03/19/1215:07 | AC25-88 | AC25-84 | ICC003S | 03/15/1212:05 | 03/16/12 |
| SL-053-NBZ-SS-0.0-0.5 | C135-05 | 0.549J | 1 | 1.9 | 1.02 | 0.510 | 03/21/1210:55 | 03/19/1215:07 | AC25-89 | AC25-84 | ICC003S | 03/15/1214:20 | 03/16/12 |
| SL-056-NBZ-SS-0.0-0.5 | C135-06 | ND | 1 | 2.7 | 1.03 | 0.514 | 03/21/1211:11 | 03/19/1215:07 | AC25-90 | AC25-84 | ICC003S | 03/15/1215:35 | 03/16/12 |
| SL-058-NBZ-SB-4.0-5.0 | C135-08 | 1.03J | 1 | 5.2 | 1.05 | 0.527 | 03/21/1211:27 | 03/19/1215:07 | AC25-91 | AC25-84 | ICC003S | 03/15/1211:30 | 03/16/12 |
| SL-053-NBZ-SB-3.5-4.5 | C135-10 | 0.598J | 1 | 3.8 | 1.04 | 0.520 | 03/21/1211:43 | 03/19/1215:07 | AC25-92 | AC25-84 | ICC003S | 03/15/1215:00 | 03/16/12 |
| SL-056-NBZ-SB-3.0-4.0 | C135-12 | 0.799J | 1 | 4.2 | 1.04 | 0.522 | 03/21/1211:59 | 03/19/1215:07 | AC25-93 | AC25-84 | ICC003S | 03/15/1215:50 | 03/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC003SB | ICC003SL | ICC003SC | | |
| LAB FILE ID: | AC25-74 | AC25-75 | AC25-76 | | |
| DATE EXTRACTED: | 03/19/1215:07 | 03/19/1215:07 | 03/19/1215:07 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/21/1206:52 | 03/21/1207:08 | 03/21/1207:25 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | ICC003S | ICC003S | ICC003S | | |
| CALIB. REF: | AC25-72 | AC25-72 | AC25-72 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 5.91 | 99 | 6.00 | 5.92 | 99 | 0 | 90-110 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C135
Matrix : WATER
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | ICC035WB | ND | 1 | NA | 0.443 | 0.222 | 03/16/1211:55 | NA | AC21-03 | AC21-01 | ICC035W | NA | NA |
| LCS1W | ICC035WL | 9.03 | 1 | NA | 0.443 | 0.222 | 03/16/1212:11 | NA | AC21-04 | AC21-01 | ICC035W | NA | NA |
| LCD1W | ICC035WC | 9.00 | 1 | NA | 0.443 | 0.222 | 03/16/1212:27 | NA | AC21-05 | AC21-01 | ICC035W | NA | NA |
| EB-NBZ-SB-031512 | C135-01 | ND | 1 | NA | 0.443 | 0.222 | 03/16/1212:44 | NA | AC21-06 | AC21-01 | ICC035W | 03/15/1215:00 | 03/16/12 |
| EB-NBZ-SS-031512 | C135-02 | ND | 1 | NA | 0.443 | 0.222 | 03/16/1213:00 | NA | AC21-07 | AC21-01 | ICC035W | 03/15/1214:30 | 03/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | ICC035WB | ICC035WL | ICC035WC | | |
| LAB FILE ID: | AC21-03 | AC21-04 | AC21-05 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/16/1211:55 | 03/16/1212:11 | 03/16/1212:27 | DATE RECEIVED: | NA |
| PREP. BATCH: | ICC035W | ICC035W | ICC035W | | |
| CALIB. REF: | AC21-01 | AC21-01 | AC21-01 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 8.86 | 9.03 | 102 | 8.86 | 9.00 | 102 | 0 | 90-110 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C135
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC003SB | ND | 1 | NA | 1.50 | 0.750 | 03/21/1206:52 | 03/19/1215:07 | AC25-74 | AC25-72 | ICC003S | NA | 03/19/12 |
| LCS1S | ICC003SL | 25.6 | 1 | NA | 1.50 | 0.750 | 03/21/1207:08 | 03/19/1215:07 | AC25-75 | AC25-72 | ICC003S | NA | 03/19/12 |
| LCD1S | ICC003SC | 25.5 | 1 | NA | 1.50 | 0.750 | 03/21/1207:25 | 03/19/1215:07 | AC25-76 | AC25-72 | ICC003S | NA | 03/19/12 |
| SL-029-NBZ-SS-0.0-0.5 | C135-03 | 2.23 | 1 | 3.0 | 1.55 | 0.773 | 03/21/1210:22 | 03/19/1215:07 | AC25-87 | AC25-84 | ICC003S | 03/15/1209:00 | 03/16/12 |
| SL-052-NBZ-SS-0.0-0.5 | C135-04 | 2.73 | 1 | 2.3 | 1.54 | 0.768 | 03/21/1210:39 | 03/19/1215:07 | AC25-88 | AC25-84 | ICC003S | 03/15/1212:05 | 03/16/12 |
| SL-053-NBZ-SS-0.0-0.5 | C135-05 | 2.44 | 1 | 1.9 | 1.53 | 0.765 | 03/21/1210:55 | 03/19/1215:07 | AC25-89 | AC25-84 | ICC003S | 03/15/1214:20 | 03/16/12 |
| SL-056-NBZ-SS-0.0-0.5 | C135-06 | 0.959J | 1 | 2.7 | 1.54 | 0.771 | 03/21/1211:11 | 03/19/1215:07 | AC25-90 | AC25-84 | ICC003S | 03/15/1215:35 | 03/16/12 |
| SL-058-NBZ-SB-4.0-5.0 | C135-08 | ND | 1 | 5.2 | 1.58 | 0.791 | 03/21/1211:27 | 03/19/1215:07 | AC25-91 | AC25-84 | ICC003S | 03/15/1211:30 | 03/16/12 |
| SL-053-NBZ-SB-3.5-4.5 | C135-10 | 2.58 | 1 | 3.8 | 1.56 | 0.780 | 03/21/1211:43 | 03/19/1215:07 | AC25-92 | AC25-84 | ICC003S | 03/15/1215:00 | 03/16/12 |
| SL-056-NBZ-SB-3.0-4.0 | C135-12 | 2.68 | 1 | 4.2 | 1.57 | 0.783 | 03/21/1211:59 | 03/19/1215:07 | AC25-93 | AC25-84 | ICC003S | 03/15/1215:50 | 03/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC003SB | ICC003SL | ICC003SC | | |
| LAB FILE ID: | AC25-74 | AC25-75 | AC25-76 | | |
| DATE EXTRACTED: | 03/19/1215:07 | 03/19/1215:07 | 03/19/1215:07 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/21/1206:52 | 03/21/1207:08 | 03/21/1207:25 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | ICC003S | ICC003S | ICC003S | | |
| CALIB. REF: | AC25-72 | AC25-72 | AC25-72 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 25.6 | 96 | 26.6 | 25.5 | 96 | 0 | 90-110 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C135
Matrix : WATER
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | PCC007WB | ND | 1 | NA | 2.00 | 1.00 | 03/21/1204:53 | NA | JC20049 | JC20048 | PCC007W | NA | NA |
| LCS1W | PCC007WL | 25.1 | 1 | NA | 2.00 | 1.00 | 03/21/1205:35 | NA | JC20051 | JC20048 | PCC007W | NA | NA |
| LCD1W | PCC007WC | 24.8 | 1 | NA | 2.00 | 1.00 | 03/21/1205:56 | NA | JC20052 | JC20048 | PCC007W | NA | NA |
| EB-NBZ-SB-031512 | C135-01 | ND | 1 | NA | 2.00 | 1.00 | 03/21/1206:17 | NA | JC20053 | JC20048 | PCC007W | 03/15/1215:00 | 03/16/12 |
| EB-NBZ-SS-031512 | C135-02 | ND | 1 | NA | 2.00 | 1.00 | 03/21/1206:38 | NA | JC20054 | JC20048 | PCC007W | 03/15/1214:30 | 03/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | PCC007WB | PCC007WL | PCC007WC | | |
| LAB FILE ID: | JC20049 | JC20051 | JC20052 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/21/1204:53 | 03/21/1205:35 | 03/21/1205:56 | DATE RECEIVED: | NA |
| PREP. BATCH: | PCC007W | PCC007W | PCC007W | | |
| CALIB. REF: | JC20048 | JC20048 | JC20048 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 25.0 | 25.1 | 100 | 25.0 | 24.8 | 99 | 1 | 85-115 | 15 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C135

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCC005SB | ND | 1 | NA | 20.0 | 10.0 | 03/20/1210:55 | 03/19/1214:30 | JC20002 | JC20001 | PCC005S | NA | 03/19/12 |
| LCS1S | PCC005SL | 244 | 1 | NA | 20.0 | 10.0 | 03/20/1212:06 | 03/19/1214:30 | JC20004 | JC20001 | PCC005S | NA | 03/19/12 |
| LCD1S | PCC005SC | 256 | 1 | NA | 20.0 | 10.0 | 03/20/1212:28 | 03/19/1214:30 | JC20005 | JC20001 | PCC005S | NA | 03/19/12 |
| SL-056-NBZ-SB-3.0-4.0 | C135-12 | ND | 1 | 4.2 | 20.9 | 10.4 | 03/20/1218:01 | 03/19/1214:30 | JC20018 | JC20012 | PCC005S | 03/15/1215:50 | 03/16/12 |
| SL-053-NBZ-SB-3.5-4.5 | C135-10 | ND | 1 | 3.8 | 20.8 | 10.4 | 03/20/1218:22 | 03/19/1214:30 | JC20019 | JC20012 | PCC005S | 03/15/1215:00 | 03/16/12 |
| SL-058-NBZ-SB-4.0-5.0 | C135-08 | ND | 1 | 5.2 | 21.1 | 10.5 | 03/20/1218:43 | 03/19/1214:30 | JC20020 | JC20012 | PCC005S | 03/15/1211:30 | 03/16/12 |
| SL-056-NBZ-SS-0.0-0.5 | C135-06 | ND | 4 | 2.7 | 82.2 | 41.1 | 03/21/1212:29 | 03/19/1214:30 | JC20061 | JC20056 | PCC005S | 03/15/1215:35 | 03/16/12 |
| SL-053-NBZ-SS-0.0-0.5 | C135-05 | ND | 4 | 1.9 | 81.5 | 40.8 | 03/21/1212:50 | 03/19/1214:30 | JC20062 | JC20056 | PCC005S | 03/15/1214:20 | 03/16/12 |
| SL-052-NBZ-SS-0.0-0.5 | C135-04 | ND | 2 | 2.3 | 40.9 | 20.5 | 03/21/1213:11 | 03/19/1214:30 | JC20063 | JC20056 | PCC005S | 03/15/1212:05 | 03/16/12 |
| SL-029-NBZ-SS-0.0-0.5 | C135-03 | ND | 2 | 3.0 | 41.2 | 20.6 | 03/21/1213:32 | 03/19/1214:30 | JC20064 | JC20056 | PCC005S | 03/15/1209:00 | 03/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCC005SB | PCC005SL | PCC005SC | | |
| LAB FILE ID: | JC20002 | JC20004 | JC20005 | | |
| DATE EXTRACTED: | 03/19/1214:30 | 03/19/1214:30 | 03/19/1214:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/20/1210:55 | 03/20/1212:06 | 03/20/1212:28 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | PCC005S | PCC005S | PCC005S | | |
| CALIB. REF: | JC20001 | JC20001 | JC20001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 244 | 98 | 250 | 256 | 102 | 5 | 85-115 | 15 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C135
Matrix : WATER
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | HCC005WB | ND | 1 | NA | 0.200 | 0.100 | 03/16/1210:15 | NA | IC16003 | IC16001 | HCC005W | NA | NA |
| MBLK1W | HCC005WQ | ND | 1 | NA | 0.200 | 0.100 | 03/16/1210:26 | NA | IC16004 | IC16001 | HCC005W | NA | NA |
| LCS1W | HCC005WL | 1.91 | 1 | NA | 0.200 | 0.100 | 03/16/1210:36 | NA | IC16005 | IC16001 | HCC005W | NA | NA |
| LCS1W | HCC005WX | 1.77 | 1 | NA | 0.200 | 0.100 | 03/16/1210:47 | NA | IC16006 | IC16001 | HCC005W | NA | NA |
| LCD1W | HCC005WC | 1.85 | 1 | NA | 0.200 | 0.100 | 03/16/1211:39 | NA | IC16011 | IC16001 | HCC005W | NA | NA |
| LCD1W | HCC005WY | 1.87 | 1 | NA | 0.200 | 0.100 | 03/16/1211:49 | NA | IC16012 | IC16001 | HCC005W | NA | NA |
| EB-NBZ-SB-031512 | C135-01 | ND | 1 | NA | 0.200 | 0.100 | 03/16/1210:57 | NA | IC16007 | IC16001 | HCC005W | 03/15/1215:00 | 03/16/12 |
| EB-NBZ-SB-031512 | C135-01R | ND | 1 | NA | 0.200 | 0.100 | 03/16/1211:07 | NA | IC16008 | IC16001 | HCC005W | 03/15/1215:00 | 03/16/12 |
| EB-NBZ-SS-031512 | C135-02 | ND | 1 | NA | 0.200 | 0.100 | 03/16/1211:18 | NA | IC16009 | IC16001 | HCC005W | 03/15/1214:30 | 03/16/12 |
| EB-NBZ-SS-031512 | C135-02R | ND | 1 | NA | 0.200 | 0.100 | 03/16/1211:28 | NA | IC16010 | IC16001 | HCC005W | 03/15/1214:30 | 03/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: 7199

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HCC005WB | HCC005WL | HCC005WC | | |
| LAB FILE ID: | IC16003 | IC16005 | IC16011 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/16/1210:15 | 03/16/1210:36 | 03/16/1211:39 | DATE RECEIVED: | NA |
| PREP. BATCH: | HCC005W | HCC005W | HCC005W | | |
| CALIB. REF: | IC16001 | IC16001 | IC16001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 2.00 | 1.91 | 96 | 2.00 | 1.85 | 92 | 4 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: 7199

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HCC005WQ | HCC005WX | HCC005WY | | |
| LAB FILE ID: | IC16004 | IC16006 | IC16012 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/16/1210:26 | 03/16/1210:47 | 03/16/1211:49 | DATE RECEIVED: | NA |
| PREP. BATCH: | HCC005W | HCC005W | HCC005W | | |
| CALIB. REF: | IC16001 | IC16001 | IC16001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 2.00 | 1.77 | 88 | 2.00 | 1.87 | 93 | 5 | 80-120 | 20 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C135
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCC004SB | ND | 1 | NA | 1.00 | 0.500 | 03/23/1215:56 | 03/22/1216:56 | IC26015 | IC26013 | HCC004S | NA | 03/22/12 |
| MBLK1S | HCC004SQ | ND | 1 | NA | 1.00 | 0.500 | 03/23/1216:06 | 03/22/1216:56 | IC26016 | IC26013 | HCC004S | NA | 03/22/12 |
| LCS1S | CSC004SL | 9.69 | 1 | NA | 1.00 | 0.500 | 03/23/1216:30 | 03/22/1216:56 | IC26017 | IC26013 | HCC004S | NA | 03/22/12 |
| LCS1S | CSC004SX | 10.1 | 1 | NA | 1.00 | 0.500 | 03/23/1216:41 | 03/22/1216:56 | IC26018 | IC26013 | HCC004S | NA | 03/22/12 |
| LCS2S | CIC004SL | 256 | 10 | NA | 10.0 | 5.00 | 03/23/1216:51 | 03/22/1216:56 | IC26019 | IC26013 | HCC004S | NA | 03/22/12 |
| LCS2S | CIC004SX | 253 | 10 | NA | 10.0 | 5.00 | 03/23/1217:01 | 03/22/1216:56 | IC26020 | IC26013 | HCC004S | NA | 03/22/12 |
| SL-029-NBZ-SS-0.0-0.5 | C135-03 | ND | 1 | 3.0 | 1.03 | 0.515 | 03/23/1217:12 | 03/22/1216:56 | IC26021 | IC26013 | HCC004S | 03/15/1209:00 | 03/16/12 |
| SL-029-NBZ-SS-0.0-0.5 | C135-03R | ND | 1 | 3.0 | 1.03 | 0.515 | 03/23/1217:22 | 03/22/1216:56 | IC26022 | IC26013 | HCC004S | 03/15/1209:00 | 03/16/12 |
| SL-052-NBZ-SS-0.0-0.5 | C135-04 | ND | 1 | 2.3 | 1.02 | 0.512 | 03/23/1217:33 | 03/22/1216:56 | IC26023 | IC26013 | HCC004S | 03/15/1212:05 | 03/16/12 |
| SL-052-NBZ-SS-0.0-0.5 | C135-04R | ND | 1 | 2.3 | 1.02 | 0.512 | 03/23/1217:43 | 03/22/1216:56 | IC26024 | IC26013 | HCC004S | 03/15/1212:05 | 03/16/12 |
| SL-053-NBZ-SS-0.0-0.5 | C135-05 | ND | 1 | 1.9 | 1.02 | 0.510 | 03/23/1218:25 | 03/22/1216:56 | IC26027 | IC26025 | HCC004S | 03/15/1214:20 | 03/16/12 |
| SL-053-NBZ-SS-0.0-0.5 | C135-05R | ND | 1 | 1.9 | 1.02 | 0.510 | 03/23/1218:35 | 03/22/1216:56 | IC26028 | IC26025 | HCC004S | 03/15/1214:20 | 03/16/12 |
| SL-056-NBZ-SS-0.0-0.5 | C135-06 | ND | 1 | 2.7 | 1.03 | 0.514 | 03/23/1218:45 | 03/22/1216:56 | IC26029 | IC26025 | HCC004S | 03/15/1215:35 | 03/16/12 |
| SL-056-NBZ-SS-0.0-0.5 | C135-06R | ND | 1 | 2.7 | 1.03 | 0.514 | 03/23/1218:56 | 03/22/1216:56 | IC26030 | IC26025 | HCC004S | 03/15/1215:35 | 03/16/12 |
| SL-058-NBZ-SB-4.0-5.0 | C135-08 | ND | 1 | 5.2 | 1.05 | 0.527 | 03/23/1219:06 | 03/22/1216:56 | IC26031 | IC26025 | HCC004S | 03/15/1211:30 | 03/16/12 |
| SL-058-NBZ-SB-4.0-5.0 | C135-08R | ND | 1 | 5.2 | 1.05 | 0.527 | 03/23/1219:17 | 03/22/1216:56 | IC26032 | IC26025 | HCC004S | 03/15/1211:30 | 03/16/12 |
| SL-053-NBZ-SB-3.5-4.5 | C135-10 | ND | 1 | 3.8 | 1.04 | 0.520 | 03/23/1219:27 | 03/22/1216:56 | IC26033 | IC26025 | HCC004S | 03/15/1215:00 | 03/16/12 |
| SL-053-NBZ-SB-3.5-4.5 | C135-10R | ND | 1 | 3.8 | 1.04 | 0.520 | 03/23/1219:37 | 03/22/1216:56 | IC26034 | IC26025 | HCC004S | 03/15/1215:00 | 03/16/12 |
| SL-056-NBZ-SB-3.0-4.0 | C135-12 | ND | 1 | 4.2 | 1.04 | 0.522 | 03/23/1219:48 | 03/22/1216:56 | IC26035 | IC26025 | HCC004S | 03/15/1215:50 | 03/16/12 |
| SL-056-NBZ-SB-3.0-4.0 | C135-12R | ND | 1 | 4.2 | 1.04 | 0.522 | 03/23/1219:58 | 03/22/1216:56 | IC26036 | IC26025 | HCC004S | 03/15/1215:50 | 03/16/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 10
SAMPLE ID: MBLK1S
LAB SAMP ID: HCC004SQ CIC004SX
LAB FILE ID: IC26016 IC26020
DATE EXTRACTED: 03/22/1216:56 03/22/1216:56 DATE COLLECTED: NA
DATE ANALYZED: 03/23/1216:06 03/23/1217:01 DATE RECEIVED: 03/22/12
PREP. BATCH: HCC004S HCC004S
CALIB. REF: IC26013 IC26013

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 284 | 253 | 89 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 10
SAMPLE ID: MBLK1S
LAB SAMP ID: HCC004SB CIC004SL
LAB FILE ID: IC26015 IC26019
DATE EXTRACTED: 03/22/1216:56 03/22/1216:56 DATE COLLECTED: NA
DATE ANALYZED: 03/23/1215:56 03/23/1216:51 DATE RECEIVED: 03/22/12
PREP. BATCH: HCC004S HCC004S
CALIB. REF: IC26013 IC26013

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 284 | 256 | 90 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCC004SQ | CSC004SX | | |
| LAB FILE ID: | IC26016 | IC26018 | | |
| DATE EXTRACTED: | 03/22/1216:56 | 03/22/1216:56 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1216:06 | 03/23/1216:41 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | HCC004S | HCC004S | | |
| CALIB. REF: | IC26013 | IC26013 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 10.1 | 101 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCC004SB | CSC004SL | | |
| LAB FILE ID: | IC26015 | IC26017 | | |
| DATE EXTRACTED: | 03/22/1216:56 | 03/22/1216:56 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1215:56 | 03/23/1216:30 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | HCC004S | HCC004S | | |
| CALIB. REF: | IC26013 | IC26013 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 9.69 | 97 | 80-120 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C135

Matrix : WATER
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | CNC007WB | ND | 1 | NA | 0.0100 | 0.00500 | 03/21/1217:58 | 03/21/1211:25 | CNC00710 | CNC00708 | CNC007W | NA | 03/21/12 |
| LCS1W | CNC007WL | 0.0858 | 1 | NA | 0.0100 | 0.00500 | 03/21/1217:58 | 03/21/1211:25 | CNC00711 | CNC00708 | CNC007W | NA | 03/21/12 |
| LCD1W | CNC007WC | 0.0864 | 1 | NA | 0.0100 | 0.00500 | 03/21/1217:58 | 03/21/1211:25 | CNC00712 | CNC00708 | CNC007W | NA | 03/21/12 |
| EB-NBZ-SB-031512 | C135-01 | ND | 1 | NA | 0.0100 | 0.00500 | 03/21/1217:58 | 03/21/1211:25 | CNC00713 | CNC00708 | CNC007W | 03/15/1215:00 | 03/16/12 |
| EB-NBZ-SS-031512 | C135-02 | ND | 1 | NA | 0.0100 | 0.00500 | 03/21/1217:59 | 03/21/1211:25 | CNC00716 | CNC00708 | CNC007W | 03/15/1214:30 | 03/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 12C135
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: CNC007WL/C

DATE RECEIVED: 03/21/12
DATE EXTRACTED: 03/21/12 11:25
DATE ANALYZED: 03/21/12 17:58/17:58

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 0.100 | 0.0858 | 86 | 0.100 | 0.0864 | 86 | 1 | 85-115 | 20 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C135

Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CNC006SB | ND | 1 | NA | 0.500 | 0.250 | 03/20/1218:04 | 03/20/1211:30 | CNC00610 | CNC00608 | CNC006S | NA | 03/20/12 |
| LCS1S | CNC006SL | 2.26 | 1 | NA | 0.500 | 0.250 | 03/20/1218:04 | 03/20/1211:30 | CNC00611 | CNC00608 | CNC006S | NA | 03/20/12 |
| LCD1S | CNC006SC | 2.52 | 1 | NA | 0.500 | 0.250 | 03/20/1218:04 | 03/20/1211:30 | CNC00612 | CNC00608 | CNC006S | NA | 03/20/12 |
| SL-029-NBZ-SS-0.0-0.5 | C135-03 | ND | 1 | 3.0 | 0.515 | 0.258 | 03/20/1218:04 | 03/20/1211:30 | CNC00613 | CNC00608 | CNC006S | 03/15/1209:00 | 03/16/12 |
| SL-052-NBZ-SS-0.0-0.5 | C135-04 | ND | 1 | 2.3 | 0.512 | 0.256 | 03/20/1218:04 | 03/20/1211:30 | CNC00614 | CNC00608 | CNC006S | 03/15/1212:05 | 03/16/12 |
| SL-053-NBZ-SS-0.0-0.5 | C135-05 | ND | 1 | 1.9 | 0.510 | 0.255 | 03/20/1218:05 | 03/20/1211:30 | CNC00615 | CNC00608 | CNC006S | 03/15/1214:20 | 03/16/12 |
| SL-056-NBZ-SS-0.0-0.5 | C135-06 | ND | 1 | 2.7 | 0.514 | 0.257 | 03/20/1218:05 | 03/20/1211:30 | CNC00616 | CNC00608 | CNC006S | 03/15/1215:35 | 03/16/12 |
| SL-058-NBZ-SB-4.0-5.0 | C135-08 | ND | 1 | 5.2 | 0.527 | 0.264 | 03/20/1218:06 | 03/20/1211:30 | CNC00617 | CNC00608 | CNC006S | 03/15/1211:30 | 03/16/12 |
| SL-058-NBZ-SB-4.0-5.0DUP | C135-08D | ND | 1 | 5.2 | 0.527 | 0.264 | 03/20/1218:06 | 03/20/1211:30 | CNC00618 | CNC00608 | CNC006S | 03/15/1211:30 | 03/16/12 |
| SL-058-NBZ-SB-4.0-5.0MS | C135-08M | 2.66 | 1 | 5.2 | 0.527 | 0.264 | 03/20/1218:06 | 03/20/1211:30 | CNC00619 | CNC00608 | CNC006S | 03/15/1211:30 | 03/16/12 |
| SL-053-NBZ-SB-3.5-4.5 | C135-10 | ND | 1 | 3.8 | 0.520 | 0.260 | 03/20/1218:07 | 03/20/1211:30 | CNC00622 | CNC00620 | CNC006S | 03/15/1215:00 | 03/16/12 |
| SL-056-NBZ-SB-3.0-4.0 | C135-12 | ND | 1 | 4.2 | 0.522 | 0.261 | 03/20/1218:07 | 03/20/1211:30 | CNC00623 | CNC00620 | CNC006S | 03/15/1215:50 | 03/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C135
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CNC006SL/C

DATE RECEIVED: 03/20/12
DATE EXTRACTED: 03/20/12 11:30
DATE ANALYZED: 03/20/12 18:04/18:04

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.26 | 90 | 2.50 | 2.52 | 101 | 11 | 85-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: 5.2

BATCH NO.: 12C135
SAMPLE ID: SL-058-NBZ-SB-4.0-5.0MS
CONTROL NO.: C135-08M
DATE RECEIVED: 03/16/12
DATE EXTRACTED: 03/20/12 11:30
DATE ANALYZED: 03/20/12 18:06

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Cyanide | ND | 2.61 | 2.66 | 102 | 75-125 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: 5.2

BATCH NO.: 12C135 DATE RECEIVED: 03/16/12
SAMPLE ID: SL-058-NBZ-SB-4.0-5.0DUP DATE EXTRACTED: 03/20/12 11:30
CONTROL NO.: C135-08D DATE ANALYZED: 03/20/12 18:06

ACCESSION:

| PARAMETER | SAMPLE (mg/kg) | DUP. SAMPLE (mg/kg) | RPD ( % ) | RPD LIMIT ( % ) |
|---|---|---|---|---|
| Cyanide | ND | ND | 0 | 20 |

METHOD 9040C
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C135
Matrix : WATER
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EB-NBZ-SB-031512 | C135-01 | 5.67 | 1 | NA | NA | NA | 03/16/1210:56 | NA | 12PHC009W01 | PHC009W | PHC009W | 03/15/1215:00 | 03/16/12 |
| EB-NBZ-SB-031512DUP | C135-01D | 5.61 | 1 | NA | NA | NA | 03/16/1210:58 | NA | 12PHC009W02 | PHC009W | PHC009W | 03/15/1215:00 | 03/16/12 |
| EB-NBZ-SS-031512 | C135-02 | 5.62 | 1 | NA | NA | NA | 03/16/1210:59 | NA | 12PHC009W03 | PHC009W | PHC009W | 03/15/1214:30 | 03/16/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9040C
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 12C135 DATE RECEIVED: 03/16/12
SAMPLE ID: EB-NBZ-SB-031512DUP DATE EXTRACTED: NA
CONTROL NO.: C135-01D DATE ANALYZED: 03/16/1210:58

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | LIMIT (pH UNit) |
|---|---|---|---|---|
| pH | 5.67 | 5.61 | 0.06 | 0.10 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C135
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-029-NBZ-SS-0.0-0.5 | C135-03 | 7.50 | 1 | NA | NA | NA | 03/16/1217:34 | 03/16/1217:34 | 12PHC011S01 | PHC011S | PHC011S | 03/15/1209:00 | 03/16/12 |
| SL-029-NBZ-SS-0.0-0.5DUP | C135-03D | 7.46 | 1 | NA | NA | NA | 03/16/1217:35 | 03/16/1217:34 | 12PHC011S02 | PHC011S | PHC011S | 03/15/1209:00 | 03/16/12 |
| SL-052-NBZ-SS-0.0-0.5 | C135-04 | 8.20 | 1 | NA | NA | NA | 03/16/1217:37 | 03/16/1217:34 | 12PHC011S03 | PHC011S | PHC011S | 03/15/1212:05 | 03/16/12 |
| SL-053-NBZ-SS-0.0-0.5 | C135-05 | 8.06 | 1 | NA | NA | NA | 03/16/1217:39 | 03/16/1217:34 | 12PHC011S04 | PHC011S | PHC011S | 03/15/1214:20 | 03/16/12 |
| SL-056-NBZ-SS-0.0-0.5 | C135-06 | 7.78 | 1 | NA | NA | NA | 03/16/1217:40 | 03/16/1217:34 | 12PHC011S05 | PHC011S | PHC011S | 03/15/1215:35 | 03/16/12 |
| SL-058-NBZ-SB-4.0-5.0 | C135-08 | 6.72 | 1 | NA | NA | NA | 03/16/1217:42 | 03/16/1217:34 | 12PHC011S06 | PHC011S | PHC011S | 03/15/1211:30 | 03/16/12 |
| SL-053-NBZ-SB-3.5-4.5 | C135-10 | 6.96 | 1 | NA | NA | NA | 03/16/1217:44 | 03/16/1217:34 | 12PHC011S07 | PHC011S | PHC011S | 03/15/1215:00 | 03/16/12 |
| SL-056-NBZ-SB-3.0-4.0 | C135-12 | 7.10 | 1 | NA | NA | NA | 03/16/1217:45 | 03/16/1217:34 | 12PHC011S08 | PHC011S | PHC011S | 03/15/1215:50 | 03/16/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C135 DATE RECEIVED: 03/16/12
SAMPLE ID: SL-029-NBZ-SS-0.0-0.5DUP DATE EXTRACTED: 03/16/1217:34
CONTROL NO.: C135-03D DATE ANALYZED: 03/16/1217:35

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 7.50 | 7.46 | 0.04 | 0.10 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/17/12 11:57 |
| Sample ID: EB-NBZ-SS-031512 | Date Analyzed: 03/19/12 19:03 |
| Lab Samp ID: C135-02 | Dilution Factor: 1 |
| Lab File ID: WC19008A | Matrix : WATER |
| Ext Btch ID: HEC008W | % Moisture : NA |
| Calib. Ref.: WC19003A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4-DB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-T | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DALAPON | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICAMBA | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICHLOROPROP | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DINOSEB | (ND)\|0.26J | 0.80 | 0.20\|0.20 |
| MCPA | 27J\|(ND) | 100 | 20\|20 |
| MCPP | (ND)\|ND | 100 | 20\|20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (10.78)\|9.667 | 10.00 | (108)\|96.7 | 40-140 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/17/12 |
| Batch No. : 12C135 | Date Extracted: 03/17/12 11:57 |
| Sample ID: MBLK1W | Date Analyzed: 03/19/12 17:43 |
| Lab Samp ID: HEC008WB | Dilution Factor: 1 |
| Lab File ID: WC19004A | Matrix : WATER |
| Ext Btch ID: HEC008W | % Moisture : NA |
| Calib. Ref.: WC19003A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4-DB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-T | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DALAPON | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICAMBA | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICHLOROPROP | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DINOSEB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| MCPA | 28J\|(ND) | 100 | 20\|20 |
| MCPP | (ND)\|ND | 100 | 20\|20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (10.73)\|9.417 | 10.00 | (107)\|94.2 | 40-140 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 8151A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HEC008WB | HEC008WL | HEC008WC | | |
| LAB FILE ID: | WC19004A | WC19005A | WC19006A | | |
| DATE EXTRACTED: | 03/17/1211:57 | 03/17/1211:57 | 03/17/1211:57 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/19/1217:43 | 03/19/1218:03 | 03/19/1218:23 | DATE RECEIVED: | 03/17/12 |
| PREP. BATCH: | HEC008W | HEC008W | HEC008W | | |
| CALIB. REF: | WC19003A | WC19003A | WC19003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND) \| ND | 1.00 | (1.05) \| 0.916 | (105) \| 92 | 1.00 | (1.02) \| 0.907 | (102) \| 91 | (3) \| 1 | 40-130 | 30 |
| 2,4-DB | (ND) \| ND | 1.00 | (0.943) \| 1.00 | (94) \| 100 | 1.00 | (0.948) \| 1.12 | (95) \| 112 | (1) \| 11 | 30-160 | 30 |
| 2,4,5-T | (ND) \| ND | 1.00 | (0.936) \| 0.896 | (94) \| 90 | 1.00 | (0.966) \| 0.895 | (97) \| 90 | (3) \| 0 | 40-140 | 30 |
| 2,4,5-TP(Silvex) | (ND) \| ND | 1.00 | (1.01) \| 0.966 | (101) \| 97 | 1.00 | (1.04) \| 0.952 | (104) \| 95 | (3) \| 1 | 60-140 | 30 |
| Dalapon | (ND) \| ND | 1.00 | (0.483J) \| 0.846 | (48) \| 85 | 1.00 | (0.451J) \| 0.766J | (45) \| 77 | (7) \| 10 | 30-130 | 30 |
| Dicamba | (ND) \| ND | 1.00 | (0.945) \| 0.953 | (94) \| 95 | 1.00 | (0.934) \| 0.931 | (93) \| 93 | (1) \| 2 | 50-130 | 30 |
| Dichloroprop | (ND) \| ND | 1.00 | (1.00) \| 0.981 | (100) \| 98 | 1.00 | (0.982) \| 0.958 | (98) \| 96 | (2) \| 2 | 70-150 | 30 |
| Dinoseb | (ND) \| ND | 1.00 | (0.751J) \| 0.777J | (75) \| 78 | 1.00 | (0.737J) \| 0.802 | (74) \| 80 | (2) \| 3 | 20-130 | 30 |
| MCPA | 28J \| (ND) | 50.0 | (48.6J) \| 61.5J | (97) \| 123 | 50.0 | (44.8J) \| 53.5J | (90) \| 107 | (8) \| 14 | 30-150 | 30 |
| MCPP | (ND) \| ND | 50.0 | (60.2J) \| 38.7J | (120) \| 77 | 50.0 | (54.4J) \| 35.3J | (109) \| 71 | (10) \| 9 | 30-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 10.00 | (10.90) \| 9.804 | (109) \| 98.0 | 10.00 | (10.24) \| 9.149 | (102) \| 91.5 | 40-140 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/24/12 10:54 |
| Sample ID: SL-029-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 00:59 |
| Lab Samp ID: C135-03 | Dilution Factor: 1 |
| Lab File ID: WC26029A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : 3.0 |
| Calib. Ref.: WC26028A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.7 | 1.9\|1.9 |
| 2,4-DB | (ND)\|ND | 1.8 | 0.88\|0.88 |
| 2,4,5-T | (ND)\|ND | 0.18 | 0.088\|0.088 |
| 2,4,5-TP(SILVEX) | 1.1\|(ND) | 0.18 | 0.088\|0.088 |
| DALAPON | (ND)\|ND | 9.3 | 4.6\|4.6 |
| DICAMBA | (ND)\|1.0J | 1.2 | 0.62\|0.62 |
| DICHLOROPROP | (ND)\|ND | 2.5 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.8 | 0.88\|0.88 |
| MCPA | (ND)\|ND | 260 | 130\|130 |
| MCPP | (ND)\|ND | 260 | 130\|130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (72.23)\|56.33 | 154.6 | (46.7)\|36.4 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/24/12 10:54 |
| Sample ID: SL-052-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 01:19 |
| Lab Samp ID: C135-04 | Dilution Factor: 1 |
| Lab File ID: WC26030A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : 2.3 |
| Calib. Ref.: WC26028A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.7 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.87\|0.87 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.087\|0.087 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.087\|0.087 |
| DALAPON | (ND)\|ND | 9.2 | 4.6\|4.6 |
| DICAMBA | (ND)\|ND | 1.2 | 0.61\|0.61 |
| DICHLOROPROP | (ND)\|ND | 2.5 | 1.2\|1.2 |
| DINOSEB | (ND)\|1.8 | 1.7 | 0.87\|0.87 |
| MCPA | (ND)\|ND | 260 | 130\|130 |
| MCPP | (ND)\|960 | 260 | 130\|130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (79.27)\|56.33 | 153.5 | (51.6)\|36.7 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/24/12 10:54 |
| Sample ID: SL-053-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 11:48 |
| Lab Samp ID: C135-05 | Dilution Factor: 1 |
| Lab File ID: WC26044A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : 1.9 |
| Calib. Ref.: WC26040A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.7 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.87\|0.87 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.087\|0.087 |
| 2,4,5-TP(SILVEX) | (ND)\|1.1 | 0.17 | 0.087\|0.087 |
| DALAPON | (ND)\|ND | 9.2 | 4.6\|4.6 |
| DICAMBA | (ND)\|ND | 1.2 | 0.61\|0.61 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.87\|0.87 |
| MCPA | (ND)\|ND | 250 | 130\|130 |
| MCPP | (ND)\|ND | 250 | 130\|130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (69.56)\|53.04 | 152.9 | (45.5)\|34.7 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/15/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C135 | Date Extracted: 03/24/12 10:54 |
| Sample ID: SL-056-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 11:28 |
| Lab Samp ID: C135-06 | Dilution Factor: 1 |
| Lab File ID: WC26043A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : 2.7 |
| Calib. Ref.: WC26040A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.7 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.87\|0.87 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.087\|0.087 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.087\|0.087 |
| DALAPON | (ND)\|ND | 9.2 | 4.6\|4.6 |
| DICAMBA | (ND)\|ND | 1.2 | 0.62\|0.62 |
| DICHLOROPROP | (ND)\|ND | 2.5 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.87\|0.87 |
| MCPA | (ND)\|ND | 260 | 130\|130 |
| MCPP | (ND)\|ND | 260 | 130\|130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (48.44)\|35.30 | 154.2 | (31.4)\|22.9 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/24/12 |
| Batch No. : 12C135 | Date Extracted: 03/24/12 10:54 |
| Sample ID: MBLK1S | Date Analyzed: 03/26/12 20:56 |
| Lab Samp ID: HEC010SB | Dilution Factor: 1 |
| Lab File ID: WC26017A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : NA |
| Calib. Ref.: WC26016A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (94.05)\|83.92 | 150.0 | (62.7)\|55.9 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HEC010SB | HEC010SL | HEC010SC | | |
| LAB FILE ID: | WC26017A | WC26018A | WC26019A | | |
| DATE EXTRACTED: | 03/24/1210:54 | 03/24/1210:54 | 03/24/1210:54 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/26/1220:56 | 03/26/1221:16 | 03/26/1221:36 | DATE RECEIVED: | 03/24/12 |
| PREP. BATCH: | HEC010S | HEC010S | HEC010S | | |
| CALIB. REF: | WC26016A | WC26016A | WC26016A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | (6.24)\|5.21 | (42)\|35 | 15.0 | (6.67)\|6.36 | (44)\|42 | (7)\|20 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 6.56\|(11.2) | 44\|(75) | 15.0 | 7.46\|(13.4) | 50\|(89) | 13\|(18) | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | 9.58\|(10.5) | 64\|(70) | 15.0 | 10.6\|(12.8) | 71\|(85) | 10\|(20) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 15.0 | (16.2)\|13.6 | (108)\|91 | 15.0 | 15.5\|(18.1) | 103\|(121) | 4\|(28) | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | (10.4)\|9.77 | (69)\|65 | 15.0 | (10.7)\|9.82 | (71)\|65 | (3)\|1 | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (10.6)\|10.1 | (71)\|67 | 15.0 | (11.4)\|11.0 | (76)\|73 | (7)\|9 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | (13.0)\|31.4 | (87)\|209* | 15.0 | (13.5)\|33.0 | (90)\|220* | (4)\|5 | 60-160 | 50 |
| Dinoseb | (ND)\|ND | 15.0 | (11.6)\|10.5 | (77)\|70 | 15.0 | (11.9)\|10.6 | (79)\|71 | (3)\|1 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (805)\|377 | (107)\|50 | 750 | (989)\|394 | (132)\|53 | (21)\|4 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | 355\|(526) | 47\|(70) | 750 | 368\|(562) | 49\|(75) | 4\|(7) | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 (108.8)\|99.46 | (72.5)\|66.3 | 150.0 | (113.9)\|103.9 | (75.9)\|69.2 | 10-150 | |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C135
METHOD: METHOD 8151A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 2.7 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-056-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C135-06 | C135-06M | C135-06S | | |
| LAB FILE ID: | WC26043A | WC26041A | WC26042A | | |
| DATE EXTRACTED: | 03/24/1210:54 | 03/24/1210:54 | 03/24/1210:54 | DATE COLLECTED: | 03/15/12 |
| DATE ANALYZED: | 03/27/1211:28 | 03/27/1210:47 | 03/27/1211:07 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | HEC010S | HEC010S | HEC010S | | |
| CALIB. REF: | WC26040A | WC26040A | WC26040A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.4 | (10.0)\|3.77 | (65)\|24* | 15.4 | (12.5)\|18.9 | (81)\|123 | (22)\|133* | 30-140 | 50 |
| 2,4-DB | (ND)\|ND | 15.4 | (14.6)\|23.7 | (95)\|154 | 15.4 | (15.8)\|25.2 | (102)\|163* | (8)\|6 | 30-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.4 | 4.79\|(7.37) | 31\|(48) | 15.4 | 4.13\|(6.63) | 27*\|(43) | 15\|(11) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 15.4 | (7.71)\|29.3 | (50)\|190* | 15.4 | (6.94)\|36.5 | (45)\|237* | (11)\|22 | 30-150 | 50 |
| Dalapon | (ND)\|ND | 15.4 | 3.71J\|(4.65J) | 24\|(30) | 15.4 | 3.26J\|(3.43J) | 21\|(22) | 13\|(30) | 10-160 | 50 |
| Dicamba | (ND)\|ND | 15.4 | (5.43)\|5.16 | (35*)\|33* | 15.4 | (4.46)\|3.70 | (29*)\|24* | (20)\|33 | 50-130 | 50 |
| Dichloroprop | (ND)\|ND | 15.4 | 7.85\|(9.76) | 51*\|(63) | 15.4 | 6.89\|(17.3) | 45*\|(112) | 13\|(56*) | 60-150 | 50 |
| Dinoseb | (ND)\|ND | 15.4 | (13.7)\|7.01 | (89)\|45 | 15.4 | (13.2)\|5.66 | (86)\|37 | (4)\|21 | 10-130 | 50 |
| MCPA | (ND)\|ND | 771 | (834)\|1460 | (108)\|189* | 771 | (787)\|299 | (102)\|39 | (6)\|132* | 10-160 | 50 |
| MCPP | (ND)\|ND | 771 | 246J\|(409) | 32\|(53) | 771 | 124J\|(282) | 16*\|(37) | 66*\|(37) | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 154.2 | (58.93)\|45.17 | (38.2)\|29.3 | 154.2 | (41.35)\|29.93 | (26.8)\|19.4 | 10-150 |

# SAMPLE DELIVERY GROUP

# 12C156

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-067-NBZ-SB-1.5-2.5 | Date Analyzed: 03/29/12 19:25 |
| Lab Samp ID: C156-02R | Dilution Factor: 1 |
| Lab File ID: RCJ510 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 7.9 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 460 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 813 | 1086 | 74.9 | 35-130 |
| 2-FLUOROBIPHENYL | 179 | 361.9 | 49.5 | 45-130 |
| 2-FLUOROPHENOL | 572 | 1086 | 52.7 | 25-130 |
| NITROBENZENE-D5 | 169 | 361.9 | 46.6 | 40-130 |
| PHENOL-D5 | 574 | 1086 | 52.8 | 25-120 |
| TERPHENYL-D14 | 347 | 361.9 | 95.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 16:14 |
| Sample ID: SL-068-NBZ-SB-2.5-3.5 | Date Analyzed: 03/23/12 14:42 |
| Lab Samp ID: C156-04 | Dilution Factor: 1 |
| Lab File ID: RCJ353 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : 8.9 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 370 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 812 | 1098 | 74.0 | 35-130 |
| 2-FLUOROBIPHENYL | 217 | 365.9 | 59.4 | 45-130 |
| 2-FLUOROPHENOL | 620 | 1098 | 56.5 | 25-130 |
| NITROBENZENE-D5 | 194 | 365.9 | 53.0 | 40-130 |
| PHENOL-D5 | 637 | 1098 | 58.0 | 25-120 |
| TERPHENYL-D14 | 316 | 365.9 | 86.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 16:14 |
| Sample ID: SL-072-NBZ-SB-4.0-5.0 | Date Analyzed: 03/23/12 15:01 |
| Lab Samp ID: C156-06 | Dilution Factor: 1 |
| Lab File ID: RCJ354 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : 10.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 750 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 762 | 1119 | 68.2 | 35-130 |
| 2-FLUOROBIPHENYL | 221 | 372.8 | 59.4 | 45-130 |
| 2-FLUOROPHENOL | 668 | 1119 | 59.7 | 25-130 |
| NITROBENZENE-D5 | 205 | 372.8 | 54.9 | 40-130 |
| PHENOL-D5 | 692 | 1119 | 61.8 | 25-120 |
| TERPHENYL-D14 | 313 | 372.8 | 83.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 16:14 |
| Sample ID: DUP-01-NBZ-QC-031612 | Date Analyzed: 03/23/12 15:20 |
| Lab Samp ID: C156-07 | Dilution Factor: 1 |
| Lab File ID: RCJ355 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : 9.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 93 |
| 1,2-DICHLOROBENZENE | ND | 180 | 93 |
| 1,3-DICHLOROBENZENE | ND | 180 | 93 |
| 1,4-DICHLOROBENZENE | ND | 180 | 93 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 93 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 93 |
| 2,6-DINITROTOLUENE | ND | 180 | 93 |
| 2-CHLORONAPHTHALENE | ND | 180 | 93 |
| 2-CHLOROPHENOL | ND | 180 | 93 |
| 2-METHYLNAPHTHALENE | ND | 180 | 93 |
| 2-METHYLPHENOL | ND | 180 | 93 |
| 2-NITROANILINE | ND | 180 | 93 |
| 2-NITROPHENOL | ND | 180 | 93 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 93 |
| 3-NITROANILINE | ND | 180 | 93 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 93 |
| 4-CHLOROANILINE | ND | 180 | 93 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-METHYLPHENOL (1) | ND | 180 | 93 |
| 4-NITROANILINE | ND | 180 | 93 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 93 |
| ACENAPHTHYLENE | ND | 180 | 93 |
| ANTHRACENE | ND | 180 | 93 |
| BENZO(A)ANTHRACENE | ND | 180 | 93 |
| BENZO(A)PYRENE | ND | 180 | 93 |
| BENZO(B)FLUORANTHENE | ND | 180 | 93 |
| BENZO(K)FLUORANTHENE | ND | 180 | 93 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 93 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 93 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 93 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 93 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 93 |
| CHRYSENE | ND | 180 | 93 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 93 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 93 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 93 |
| DIBENZOFURAN | ND | 180 | 93 |
| DIETHYLPHTHALATE | ND | 180 | 93 |
| DIMETHYLPHTHALATE | ND | 180 | 93 |
| FLUORANTHENE | ND | 180 | 93 |
| FLUORENE | ND | 180 | 93 |
| HEXACHLOROBENZENE | ND | 180 | 93 |
| HEXACHLOROBUTADIENE | ND | 180 | 93 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 93 |
| HEXACHLOROETHANE | ND | 180 | 93 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 93 |
| ISOPHORONE | ND | 180 | 93 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 93 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 93 |
| NAPHTHALENE | ND | 180 | 93 |
| NITROBENZENE | ND | 180 | 93 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 93 |
| PHENOL | ND | 180 | 93 |
| PYRENE | ND | 180 | 93 |
| BENZYL ALCOHOL | ND | 180 | 93 |
| 1-METHYLNAPHTHALENE | ND | 180 | 93 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 93 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 93 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 920 | 460 |
| BENZOIC ACID | ND | 740 | 370 |
| CARBAZOLE | ND | 180 | 93 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 93 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 800 | 1105 | 72.4 | 35-130 |
| 2-FLUOROBIPHENYL | 218 | 368.3 | 59.2 | 45-130 |
| 2-FLUOROPHENOL | 620 | 1105 | 56.1 | 25-130 |
| NITROBENZENE-D5 | 187 | 368.3 | 50.7 | 40-130 |
| PHENOL-D5 | 637 | 1105 | 57.6 | 25-120 |
| TERPHENYL-D14 | 320 | 368.3 | 86.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 16:14 |
| Sample ID: MBLK1S | Date Analyzed: 03/23/12 11:35 |
| Lab Samp ID: SVC030SB | Dilution Factor: 1 |
| Lab File ID: RCJ343 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 820 | 1000 | 82.0 | 35-130 |
| 2-FLUOROBIPHENYL | 271 | 333.3 | 81.4 | 45-130 |
| 2-FLUOROPHENOL | 785 | 1000 | 78.5 | 25-130 |
| NITROBENZENE-D5 | 245 | 333.3 | 73.6 | 40-130 |
| PHENOL-D5 | 777 | 1000 | 77.7 | 25-120 |
| TERPHENYL-D14 | 335 | 333.3 | 101 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C156 | Date Extracted: 03/28/12 17:47 |
| Sample ID: MBLK2S | Date Analyzed: 03/29/12 16:36 |
| Lab Samp ID: SVC042SB | Dilution Factor: 1 |
| Lab File ID: RCJ502 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 806 | 1000 | 80.6 | 35-130 |
| 2-FLUOROBIPHENYL | 273 | 333.3 | 81.8 | 45-130 |
| 2-FLUOROPHENOL | 776 | 1000 | 77.6 | 25-130 |
| NITROBENZENE-D5 | 236 | 333.3 | 70.9 | 40-130 |
| PHENOL-D5 | 771 | 1000 | 77.1 | 25-120 |
| TERPHENYL-D14 | 306 | 333.3 | 91.9 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVC030SB SVC030SL SVC030SC
LAB FILE ID: RCJ343 RCJ344 RCJ345
DATE EXTRACTED: 03/22/1216:14 03/22/1216:14 03/22/1216:14 DATE COLLECTED: NA
DATE ANALYZED: 03/23/1211:35 03/23/1211:54 03/23/1212:13 DATE RECEIVED: 03/22/12
PREP. BATCH: SVC030S SVC030S SVC030S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 457 | 68 | 667 | 390 | 59 | 16 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 465 | 70 | 667 | 390 | 59 | 17 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 466 | 70 | 667 | 382 | 57 | 20 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 463 | 69 | 667 | 393 | 59 | 16 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 483 | 72 | 667 | 423 | 63 | 13 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 536 | 80 | 667 | 471 | 71 | 13 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 537 | 81 | 667 | 461 | 69 | 15 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 515 | 77 | 667 | 459 | 69 | 12 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 415 | 62 | 667 | 378 | 57 | 9 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 590 | 88 | 667 | 574 | 86 | 3 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 574 | 86 | 667 | 524 | 79 | 9 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 551 | 83 | 667 | 483 | 72 | 13 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 556 | 83 | 667 | 467 | 70 | 17 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 579 | 87 | 667 | 496 | 74 | 15 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 490 | 73 | 667 | 402 | 60 | 20 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 525 | 79 | 667 | 472 | 71 | 11 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 549 | 82 | 667 | 454 | 68 | 19 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 507 | 76 | 667 | 502 | 75 | 1 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 480 | 72 | 667 | 472 | 71 | 2 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 545 | 82 | 667 | 544 | 82 | 0 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 539 | 81 | 667 | 501 | 75 | 7 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 505 | 76 | 667 | 460 | 69 | 9 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 458 | 69 | 667 | 386 | 58 | 17 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 583 | 87 | 667 | 533 | 80 | 9 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 481 | 72 | 667 | 413 | 62 | 15 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 489 | 73 | 667 | 464 | 70 | 5 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 390 | 59 | 667 | 421 | 63 | 8 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 570 | 86 | 667 | 509 | 76 | 11 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 577 | 87 | 667 | 550 | 82 | 5 | 30-130 | 50 |
| Anthracene | ND | 667 | 567 | 85 | 667 | 545 | 82 | 4 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 589 | 88 | 667 | 602 | 90 | 2 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 561 | 84 | 667 | 572 | 86 | 2 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 613 | 92 | 667 | 614 | 92 | 0 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 592 | 89 | 667 | 640 | 96 | 8 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 609 | 91 | 667 | 627 | 94 | 3 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 560 | 84 | 667 | 466 | 70 | 18 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 538 | 81 | 667 | 448 | 67 | 18 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 587 | 88 | 667 | 481 | 72 | 20 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 589 | 88 | 667 | 608 | 91 | 3 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 588 | 88 | 667 | 598 | 90 | 2 | 40-150 | 50 |
| Chrysene | ND | 667 | 615 | 92 | 667 | 626 | 94 | 2 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 558 | 84 | 667 | 569 | 85 | 2 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 567 | 85 | 667 | 590 | 88 | 4 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 607 | 91 | 667 | 629 | 94 | 4 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 540 | 81 | 667 | 490 | 73 | 10 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 554 | 83 | 667 | 534 | 80 | 4 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 543 | 81 | 667 | 510 | 76 | 6 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 600 | 90 | 667 | 605 | 91 | 1 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 578 | 87 | 667 | 533 | 80 | 8 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 541 | 81 | 667 | 524 | 79 | 3 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 495 | 74 | 667 | 418 | 63 | 17 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 321 | 48 | 667 | 271 | 41 | 17 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 479 | 72 | 667 | 376 | 56 | 24 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 604 | 91 | 667 | 626 | 94 | 4 | 30-140 | 50 |
| Isophorone | ND | 667 | 551 | 83 | 667 | 488 | 73 | 12 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 432 | 65 | 667 | 366 | 55 | 17 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 436 | 65 | 667 | 407 | 61 | 7 | 30-140 | 50 |
| Naphthalene | ND | 667 | 557 | 84 | 667 | 477 | 72 | 15 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 574 | 86 | 667 | 484 | 73 | 17 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 445 | 67 | 667 | 477 | 72 | 7 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 595 | 89 | 667 | 584 | 88 | 2 | 30-130 | 50 |
| Phenol | ND | 667 | 509 | 76 | 667 | 428 | 64 | 17 | 30-130 | 50 |
| Pyrene | ND | 667 | 592 | 89 | 667 | 608 | 91 | 3 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 493 | 74 | 667 | 420 | 63 | 16 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 572 | 86 | 667 | 502 | 75 | 13 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 505 | 76 | 667 | 455 | 68 | 11 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 492 | 74 | 667 | 465 | 70 | 6 | 20-150 | 50 |
| Aniline | ND | 667 | 346 | 52 | 667 | 286J | 43 | 19 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1090 | 41 | 2670 | 1080 | 40 | 1 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 657J | 25 | 2670 | 670 | 25 | 2 | 10-130 | 50 |
| Carbazole | ND | 667 | 534 | 80 | 667 | 533 | 80 | 0 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 551 | 83 | 667 | 455 | 68 | 19 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 838 | 84 | 1000 | 822 | 82 | 35-130 |
| 2-Fluorobiphenyl | 333 | 248 | 74 | 333 | 229 | 69 | 45-130 |
| 2-Fluorophenol | 1000 | 716 | 72 | 1000 | 611 | 61 | 25-130 |
| Nitrobenzene-d5 | 333 | 228 | 68 | 333 | 211 | 63 | 40-130 |
| Phenol-d5 | 1000 | 732 | 73 | 1000 | 643 | 64 | 25-120 |
| Terphenyl-d14 | 333 | 295 | 88 | 333 | 317 | 95 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK2S
LAB SAMP ID: SVC042SB SVC042SL SVC042SC
LAB FILE ID: RCJ502 RCJ498 RCJ499
DATE EXTRACTED: 03/28/1217:47 03/28/1217:47 03/28/1217:47 DATE COLLECTED: NA
DATE ANALYZED: 03/29/1216:36 03/29/1215:21 03/29/1215:40 DATE RECEIVED: 03/28/12
PREP. BATCH: SVC042S SVC042S SVC042S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 555 | 83 | 667 | 538 | 81 | 3 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 582 | 87 | 667 | 547 | 82 | 6 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 573 | 86 | 667 | 541 | 81 | 6 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 582 | 87 | 667 | 547 | 82 | 6 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 583 | 87 | 667 | 560 | 84 | 4 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 658 | 99 | 667 | 627 | 94 | 5 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 675 | 101 | 667 | 635 | 95 | 6 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 650 | 98 | 667 | 615 | 92 | 6 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 557 | 84 | 667 | 484 | 73 | 14 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 757 | 114 | 667 | 716 | 107 | 6 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 724 | 109 | 667 | 660 | 99 | 9 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 629 | 94 | 667 | 592 | 89 | 6 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 634 | 95 | 667 | 642 | 96 | 1 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 763 | 114 | 667 | 674 | 101 | 12 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 588 | 88 | 667 | 546 | 82 | 7 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 649 | 97 | 667 | 604 | 91 | 7 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 691 | 104 | 667 | 655 | 98 | 5 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 692 | 104 | 667 | 653 | 98 | 6 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 620 | 93 | 667 | 574 | 86 | 8 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 730 | 109 | 667 | 675 | 101 | 8 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 670 | 100 | 667 | 639 | 96 | 5 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 642 | 96 | 667 | 598 | 90 | 7 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 574 | 86 | 667 | 524 | 79 | 9 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 716 | 107 | 667 | 675 | 101 | 6 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 610 | 92 | 667 | 581 | 87 | 5 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 745 | 112 | 667 | 620 | 93 | 18 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 521 | 78 | 667 | 506 | 76 | 3 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 698 | 105 | 667 | 667 | 100 | 5 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 714 | 107 | 667 | 674 | 101 | 6 | 30-130 | 50 |
| Anthracene | ND | 667 | 723 | 108 | 667 | 679 | 102 | 6 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 771 | 116 | 667 | 745 | 112 | 3 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 746 | 112 | 667 | 715 | 107 | 4 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 778 | 117 | 667 | 760 | 114 | 2 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 810 | 121 | 667 | 772 | 116 | 5 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 789 | 118 | 667 | 753 | 113 | 5 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 683 | 102 | 667 | 642 | 96 | 6 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 667 | 100 | 667 | 626 | 94 | 6 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 726 | 109 | 667 | 672 | 101 | 8 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 774 | 116 | 667 | 750 | 113 | 3 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 795 | 119 | 667 | 760 | 114 | 5 | 40-150 | 50 |
| Chrysene | ND | 667 | 806 | 121 | 667 | 776 | 116 | 4 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 739 | 111 | 667 | 719 | 108 | 3 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 776 | 116 | 667 | 739 | 111 | 5 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 799 | 120 | 667 | 765 | 115 | 4 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 659 | 99 | 667 | 630 | 94 | 4 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 690 | 103 | 667 | 649 | 97 | 6 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 668 | 100 | 667 | 637 | 95 | 5 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 790 | 119 | 667 | 764 | 115 | 3 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 711 | 107 | 667 | 668 | 100 | 6 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 677 | 102 | 667 | 644 | 97 | 5 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 610 | 92 | 667 | 578 | 87 | 5 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 369 | 55 | 667 | 354 | 53 | 4 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 580 | 87 | 667 | 547 | 82 | 6 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 793 | 119 | 667 | 766 | 115 | 3 | 30-140 | 50 |
| Isophorone | ND | 667 | 684 | 103 | 667 | 635 | 95 | 7 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 551 | 83 | 667 | 517 | 78 | 6 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 532 | 80 | 667 | 508 | 76 | 5 | 30-140 | 50 |
| Naphthalene | ND | 667 | 689 | 103 | 667 | 649 | 97 | 6 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 710 | 107 | 667 | 667 | 100 | 6 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 622 | 93 | 667 | 574 | 86 | 8 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 757 | 114 | 667 | 718 | 108 | 5 | 30-130 | 50 |
| Phenol | ND | 667 | 619 | 93 | 667 | 601 | 90 | 3 | 30-130 | 50 |
| Pyrene | ND | 667 | 782 | 117 | 667 | 744 | 112 | 5 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 592 | 89 | 667 | 572 | 86 | 4 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 706 | 106 | 667 | 669 | 100 | 5 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 617 | 93 | 667 | 580 | 87 | 6 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 604 | 91 | 667 | 587 | 88 | 3 | 20-150 | 50 |
| Aniline | ND | 667 | 442 | 66 | 667 | 415 | 62 | 6 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1440 | 54 | 2670 | 1400 | 53 | 1 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 1160 | 43 | 2670 | 922 | 35 | 23 | 10-130 | 50 |
| Carbazole | ND | 667 | 701 | 105 | 667 | 683 | 103 | 3 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 663 | 99 | 667 | 626 | 94 | 6 | 30-150 | 50 |

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| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 927 | 93 | 1000 | 859 | 86 | 35-130 |
| 2-Fluorobiphenyl | 333 | 278 | 83 | 333 | 264 | 79 | 45-130 |
| 2-Fluorophenol | 1000 | 808 | 81 | 1000 | 747 | 75 | 25-130 |
| Nitrobenzene-d5 | 333 | 271 | 81 | 333 | 248 | 75 | 40-130 |
| Phenol-d5 | 1000 | 842 | 84 | 1000 | 757 | 76 | 25-120 |
| Terphenyl-d14 | 333 | 349 | 105 | 333 | 331 | 99 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: 8.9

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-068-NBZ-SB-2.5-3.5 | | | | |
| LAB SAMP ID: | C156-04 | C156-04M | C156-04S | | |
| LAB FILE ID: | RCJ353 | RCJ348 | RCJ349 | | |
| DATE EXTRACTED: | 03/22/1216:14 | 03/22/1216:14 | 03/22/1216:14 | DATE COLLECTED: | 03/16/12 |
| DATE ANALYZED: | 03/23/1214:42 | 03/23/1213:09 | 03/23/1213:28 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | SVC030S | SVC030S | SVC030S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 732 | 305 | 42 | 732 | 289 | 39 | 5 | 10-130 | 50 |
| 1,2-Dichlorobenzene | ND | 732 | 249 | 34 | 732 | 211 | 29* | 17 | 30-130 | 50 |
| 1,3-Dichlorobenzene | ND | 732 | 223 | 30 | 732 | 174J | 24* | 24 | 30-130 | 50 |
| 1,4-Dichlorobenzene | ND | 732 | 221 | 30 | 732 | 186 | 25 | 17 | 10-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 732 | 427 | 58 | 732 | 458 | 63 | 7 | 30-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 732 | 443 | 60 | 732 | 485 | 66 | 9 | 30-130 | 50 |
| 2,4-Dichlorophenol | ND | 732 | 405 | 55 | 732 | 450 | 61 | 10 | 30-130 | 50 |
| 2,4-Dimethylphenol | ND | 732 | 396 | 54 | 732 | 422 | 58 | 6 | 30-130 | 50 |
| 2,4-Dinitrophenol | ND | 732 | 478 | 65 | 732 | 515 | 70 | 7 | 10-130 | 50 |
| 2,4-Dinitrotoluene | ND | 732 | 614 | 84 | 732 | 634 | 87 | 3 | 20-130 | 50 |
| 2,6-Dinitrotoluene | ND | 732 | 514 | 70 | 732 | 565 | 77 | 9 | 30-130 | 50 |
| 2-Chloronaphthalene | ND | 732 | 392 | 54 | 732 | 453 | 62 | 14 | 30-130 | 50 |
| 2-Chlorophenol | ND | 732 | 371 | 51 | 732 | 384 | 53 | 4 | 20-130 | 50 |
| 2-Methylnaphthalene | ND | 732 | 432 | 59 | 732 | 451 | 62 | 4 | 30-130 | 50 |
| 2-Methylphenol | ND | 732 | 354 | 48 | 732 | 376 | 51 | 6 | 30-130 | 50 |
| 2-Nitroaniline | ND | 732 | 466 | 64 | 732 | 511 | 70 | 9 | 30-130 | 50 |
| 2-Nitrophenol | ND | 732 | 407 | 56 | 732 | 414 | 57 | 2 | 30-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 732 | 531 | 73 | 732 | 516 | 70 | 3 | 30-130 | 50 |
| 3-Nitroaniline | ND | 732 | 462 | 63 | 732 | 496 | 68 | 7 | 30-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 732 | 638 | 87 | 732 | 652 | 89 | 2 | 30-130 | 50 |
| 4-Bromophenyl-phenylether | ND | 732 | 523 | 71 | 732 | 562 | 77 | 7 | 30-130 | 50 |
| 4-Chloro-3-Methylphenol | ND | 732 | 425 | 58 | 732 | 481 | 66 | 12 | 20-130 | 50 |
| 4-Chloroaniline | ND | 732 | 372 | 51 | 732 | 403 | 55 | 8 | 30-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 732 | 523 | 72 | 732 | 568 | 78 | 8 | 30-130 | 50 |
| 4-Methylphenol | ND | 732 | 361 | 49 | 732 | 425 | 58 | 16 | 20-130 | 50 |
| 4-Nitroaniline | ND | 732 | 524 | 72 | 732 | 523 | 71 | 0 | 40-130 | 50 |
| 4-Nitrophenol | ND | 732 | 437 | 60 | 732 | 477 | 65 | 9 | 10-130 | 50 |
| Acenaphthene | ND | 732 | 478 | 65 | 732 | 517 | 71 | 8 | 20-130 | 50 |
| Acenaphthylene | ND | 732 | 475 | 65 | 732 | 514 | 70 | 8 | 20-130 | 50 |
| Anthracene | ND | 732 | 581 | 79 | 732 | 599 | 82 | 3 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 732 | 656 | 90 | 732 | 679 | 93 | 3 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 732 | 617 | 84 | 732 | 627 | 86 | 2 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 732 | 701 | 96 | 732 | 678 | 93 | 3 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 732 | 664 | 91 | 732 | 724 | 99 | 9 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 732 | 693 | 95 | 732 | 690 | 94 | 0 | 30-130 | 50 |
| bis(2-Chloroethoxy)methane | ND | 732 | 413 | 56 | 732 | 433 | 59 | 5 | 30-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 732 | 396 | 54 | 732 | 377 | 51 | 5 | 30-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 732 | 369 | 50 | 732 | 379 | 52 | 3 | 20-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 732 | 647 | 88 | 732 | 677 | 93 | 5 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 732 | 646 | 88 | 732 | 668 | 91 | 3 | 30-130 | 50 |
| Chrysene | ND | 732 | 690 | 94 | 732 | 705 | 96 | 2 | 30-130 | 50 |
| Di-n-butylphthalate | ND | 732 | 624 | 85 | 732 | 631 | 86 | 1 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 732 | 637 | 87 | 732 | 661 | 90 | 4 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 732 | 698 | 95 | 732 | 709 | 97 | 2 | 30-130 | 50 |
| Dibenzofuran | ND | 732 | 470 | 64 | 732 | 510 | 70 | 8 | 30-130 | 50 |
| Diethylphthalate | ND | 732 | 559 | 76 | 732 | 588 | 80 | 5 | 30-130 | 50 |
| Dimethylphthalate | ND | 732 | 535 | 73 | 732 | 559 | 76 | 4 | 30-130 | 50 |
| Fluoranthene | ND | 732 | 670 | 92 | 732 | 673 | 92 | 0 | 30-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 732 | 523 | 71 | 732 | 566 | 77 | 8 | 20-130 | 50 |
| Hexachlorobenzene | ND | 732 | 552 | 75 | 732 | 580 | 79 | 5 | 10-160 | 50 |
| Hexachlorobutadiene | ND | 732 | 300 | 41 | 732 | 271 | 37 | 10 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 732 | 213 | 29 | 732 | 209 | 29 | 2 | 10-130 | 50 |
| Hexachloroethane | ND | 732 | 220 | 30 | 732 | 176J | 24 | 22 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 732 | 677 | 93 | 732 | 704 | 96 | 4 | 20-130 | 50 |
| Isophorone | ND | 732 | 429 | 59 | 732 | 474 | 65 | 10 | 30-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 732 | 314 | 43 | 732 | 351 | 48 | 11 | 20-130 | 50 |
| n-Nitrosodiphenylamine | ND | 732 | 423 | 58 | 732 | 446 | 61 | 5 | 20-140 | 50 |
| Naphthalene | ND | 732 | 398 | 54 | 732 | 374 | 51 | 6 | 30-130 | 50 |
| Nitrobenzene | ND | 732 | 418 | 57 | 732 | 410 | 56 | 2 | 30-130 | 50 |
| Pentachlorophenol | ND | 732 | 534 | 73 | 732 | 560 | 77 | 5 | 10-130 | 50 |
| Phenanthrene | ND | 732 | 630 | 86 | 732 | 645 | 88 | 2 | 20-130 | 50 |
| Phenol | ND | 732 | 389 | 53 | 732 | 411 | 56 | 6 | 20-130 | 50 |
| Pyrene | ND | 732 | 659 | 90 | 732 | 672 | 92 | 2 | 10-160 | 50 |
| Benzyl Alcohol | ND | 732 | 373 | 51 | 732 | 402 | 55 | 7 | 30-130 | 50 |
| 1-Methylnaphthalene | ND | 732 | 435 | 59 | 732 | 458 | 63 | 5 | 20-130 | 50 |
| 1,2-Diphenylhydrazine | ND | 732 | 473 | 65 | 732 | 509 | 70 | 7 | 20-150 | 50 |
| 3,5-Dimethylphenol | ND | 732 | 384 | 52 | 732 | 424 | 58 | 10 | 20-130 | 50 |
| Aniline | ND | 732 | 274J | 38 | 732 | 280J | 38 | 2 | 10-150 | 50 |
| Benzidine | ND | 2930 | ND | 0* | 2930 | ND | 0* | 0 | 10-150 | 50 |
| Benzoic Acid | ND | 2930 | 1170 | 40 | 2930 | 1490 | 51 | 24 | 10-130 | 50 |
| Carbazole | ND | 732 | 594 | 81 | 732 | 600 | 82 | 1 | 30-130 | 50 |
| N-Nitrosodimethylamine | ND | 732 | 426 | 58 | 732 | 429 | 59 | 1 | 20-130 | 50 |

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| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1100 | 831 | 76 | 1100 | 877 | 80 | 35-130 |
| 2-Fluorobiphenyl | 366 | 186 | 51 | 366 | 200 | 55 | 45-130 |
| 2-Fluorophenol | 1100 | 534 | 49 | 1100 | 551 | 50 | 25-130 |
| Nitrobenzene-d5 | 366 | 178 | 49 | 366 | 191 | 52 | 40-130 |
| Phenol-d5 | 1100 | 542 | 49 | 1100 | 585 | 53 | 25-120 |
| Terphenyl-d14 | 366 | 328 | 90 | 366 | 323 | 88 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-067-NBZ-SB-1.5-2.5 | Date Analyzed: 03/29/12 19:25 |
| Lab Samp ID: C156-02R | Dilution Factor: 1 |
| Lab File ID: RCJ510 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 7.9 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | ND | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | ND | 1.8 | 0.92 |
| PYRENE | ND | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 188 | 361.9 | 51.9 | 40-130 |
| 2-FLUOROBIPHENYL | 178 | 361.9 | 49.2 | 45-130 |
| TERPHENYL-D14 | 345 | 361.9 | 95.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 16:14 |
| Sample ID: SL-068-NBZ-SB-2.5-3.5 | Date Analyzed: 03/23/12 14:42 |
| Lab Samp ID: C156-04 | Dilution Factor: 1 |
| Lab File ID: RCJ353 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : 8.9 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)PYRENE | ND | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.93 |
| CHRYSENE | ND | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | ND | 1.9 | 0.93 |
| FLUORENE | ND | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | ND | 1.9 | 0.93 |
| PYRENE | ND | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 207 | 365.9 | 56.6 | 40-130 |
| 2-FLUOROBIPHENYL | 207 | 365.9 | 56.5 | 45-130 |
| TERPHENYL-D14 | 309 | 365.9 | 84.4 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 16:14 |
| Sample ID: SL-072-NBZ-SB-4.0-5.0 | Date Analyzed: 03/23/12 15:01 |
| Lab Samp ID: C156-06 | Dilution Factor: 1 |
| Lab File ID: RCJ354 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : 10.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)PYRENE | ND | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.95 |
| CHRYSENE | ND | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | ND | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.95 |
| NAPHTHALENE | ND | 1.9 | 0.95 |
| PHENANTHRENE | ND | 1.9 | 0.95 |
| PYRENE | ND | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 219 | 372.8 | 58.7 | 40-130 |
| 2-FLUOROBIPHENYL | 209 | 372.8 | 56.0 | 45-130 |
| TERPHENYL-D14 | 309 | 372.8 | 82.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 16:14 |
| Sample ID: DUP-01-NBZ-QC-031612 | Date Analyzed: 03/23/12 15:20 |
| Lab Samp ID: C156-07 | Dilution Factor: 1 |
| Lab File ID: RCJ355 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : 9.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.94 |
| ACENAPHTHYLENE | ND | 1.9 | 0.94 |
| ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)PYRENE | ND | 1.9 | 0.94 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.94 |
| CHRYSENE | ND | 1.9 | 0.94 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.94 |
| FLUORANTHENE | ND | 1.9 | 0.94 |
| FLUORENE | ND | 1.9 | 0.94 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.94 |
| NAPHTHALENE | ND | 1.9 | 0.94 |
| PHENANTHRENE | ND | 1.9 | 0.94 |
| PYRENE | ND | 1.9 | 0.94 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 9.3 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.3 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.3 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.3 |
| DIETHYLPHTHALATE | ND | 18 | 9.3 |
| DIMETHYLPHTHALATE | ND | 18 | 9.3 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.94 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 191 | 368.3 | 51.8 | 40-130 |
| 2-FLUOROBIPHENYL | 201 | 368.3 | 54.7 | 45-130 |
| TERPHENYL-D14 | 326 | 368.3 | 88.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 16:14 |
| Sample ID: MBLK1S | Date Analyzed: 03/23/12 11:35 |
| Lab Samp ID: SVC030SB | Dilution Factor: 1 |
| Lab File ID: RCJ343 | Matrix : SOIL |
| Ext Btch ID: SVC030S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 269 | 333.3 | 80.8 | 40-130 |
| 2-FLUOROBIPHENYL | 259 | 333.3 | 77.8 | 45-130 |
| TERPHENYL-D14 | 329 | 333.3 | 98.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C156 | Date Extracted: 03/28/12 17:47 |
| Sample ID: MBLK2S | Date Analyzed: 03/29/12 16:36 |
| Lab Samp ID: SVC042SB | Dilution Factor: 1 |
| Lab File ID: RCJ502 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 266 | 333.3 | 79.9 | 40-130 |
| 2-FLUOROBIPHENYL | 250 | 333.3 | 75.0 | 45-130 |
| TERPHENYL-D14 | 313 | 333.3 | 93.8 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVC030SB | SVC030SX | SVC030SY | | |
| LAB FILE ID: | RCJ343 | RCJ346 | RCJ347 | | |
| DATE EXTRACTED: | 03/22/1216:14 | 03/22/1216:14 | 03/22/1216:14 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1211:35 | 03/23/1212:31 | 03/23/1212:50 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | SVC030S | SVC030S | SVC030S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 263 | 79 | 333 | 255 | 76 | 3 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 284 | 85 | 333 | 273 | 82 | 4 | 20-130 | 50 |
| Anthracene | ND | 333 | 270 | 81 | 333 | 278 | 83 | 3 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 291 | 87 | 333 | 331 | 99 | 13 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 313 | 94 | 333 | 325 | 97 | 4 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 323 | 97 | 333 | 354 | 106 | 9 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 345 | 104 | 333 | 338 | 101 | 2 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 341 | 102 | 333 | 353 | 106 | 3 | 30-140 | 50 |
| Chrysene | ND | 333 | 282 | 85 | 333 | 323 | 97 | 13 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 350 | 105 | 333 | 362 | 109 | 3 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 301 | 90 | 333 | 327 | 98 | 8 | 30-130 | 50 |
| Fluorene | ND | 333 | 286 | 86 | 333 | 274 | 82 | 4 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 349 | 105 | 333 | 362 | 109 | 4 | 20-160 | 50 |
| Naphthalene | ND | 333 | 242 | 73 | 333 | 244 | 73 | 1 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 274 | 82 | 333 | 283 | 85 | 3 | 20-130 | 50 |
| Pyrene | ND | 333 | 287 | 86 | 333 | 316 | 95 | 9 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 261 | 78 | 333 | 259 | 78 | 1 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 263 | 79 | 333 | 260 | 78 | 1 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 276 | 83 | 333 | 313 | 94 | 12 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 257 | 77 | 333 | 293 | 88 | 13 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 272 | 81 | 333 | 288 | 86 | 6 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 262 | 79 | 333 | 275 | 82 | 5 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 283 | 85 | 333 | 280 | 84 | 1 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 272 | 82 | 333 | 262 | 79 | 4 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 230 | 69 | 333 | 235 | 70 | 2 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 235 | 71 | 333 | 223 | 67 | 40-130 |
| 2-Fluorobiphenyl | 333 | 227 | 68 | 333 | 209 | 63 | 45-130 |
| Terphenyl-d14 | 333 | 292 | 88 | 333 | 309 | 93 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK2S | | | | |
| LAB SAMP ID: | SVC042SB | SVC042SX | SVC042SY | | |
| LAB FILE ID: | RCJ502 | RCJ500 | RCJ501 | | |
| DATE EXTRACTED: | 03/28/1217:47 | 03/28/1217:47 | 03/28/1217:47 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/29/1216:36 | 03/29/1215:58 | 03/29/1216:17 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | SVC042S | SVC042S | SVC042S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 348 | 104 | 333 | 326 | 98 | 6 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 377 | 113 | 333 | 354 | 106 | 6 | 20-130 | 50 |
| Anthracene | ND | 333 | 340 | 102 | 333 | 327 | 98 | 4 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 349 | 105 | 333 | 346 | 104 | 1 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 371 | 111 | 333 | 367 | 110 | 1 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 386 | 116 | 333 | 399 | 120 | 3 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 401 | 120 | 333 | 382 | 115 | 5 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 397 | 119 | 333 | 393 | 118 | 1 | 30-140 | 50 |
| Chrysene | ND | 333 | 339 | 102 | 333 | 335 | 101 | 1 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 410 | 123 | 333 | 405 | 122 | 1 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 364 | 109 | 333 | 365 | 110 | 0 | 30-130 | 50 |
| Fluorene | ND | 333 | 372 | 112 | 333 | 344 | 103 | 8 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 410 | 123 | 333 | 406 | 122 | 1 | 20-160 | 50 |
| Naphthalene | ND | 333 | 328 | 98 | 333 | 309 | 93 | 6 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 346 | 104 | 333 | 330 | 99 | 5 | 20-130 | 50 |
| Pyrene | ND | 333 | 348 | 105 | 333 | 346 | 104 | 1 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 354 | 106 | 333 | 335 | 101 | 5 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 353 | 106 | 333 | 333 | 100 | 6 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 330 | 99 | 333 | 327 | 98 | 1 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 314 | 94 | 333 | 315 | 94 | 0 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 332 | 100 | 333 | 329 | 99 | 1 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 316 | 95 | 333 | 315 | 95 | 0 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 358 | 107 | 333 | 333 | 100 | 7 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 353 | 106 | 333 | 326 | 98 | 8 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 318 | 95 | 333 | 296 | 89 | 7 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 296 | 89 | 333 | 282 | 85 | 40-130 |
| 2-Fluorobiphenyl | 333 | 265 | 80 | 333 | 250 | 75 | 45-130 |
| Terphenyl-d14 | 333 | 307 | 92 | 333 | 311 | 93 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: 8.9

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-068-NBZ-SB-2.5-3.5 | | | | |
| LAB SAMP ID: | C156-04 | C156-04M | C156-04S | | |
| LAB FILE ID: | RCJ353 | RCJ350 | RCJ351 | | |
| DATE EXTRACTED: | 03/22/1216:14 | 03/22/1216:14 | 03/22/1216:14 | DATE COLLECTED: | 03/16/12 |
| DATE ANALYZED: | 03/23/1214:42 | 03/23/1213:46 | 03/23/1214:05 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | SVC030S | SVC030S | SVC030S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 366 | 224 | 61 | 366 | 168 | 46 | 29 | 10-130 | 50 |
| Acenaphthylene | ND | 366 | 239 | 65 | 366 | 179 | 49 | 29 | 20-130 | 50 |
| Anthracene | ND | 366 | 264 | 72 | 366 | 236 | 64 | 11 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 366 | 309 | 85 | 366 | 299 | 82 | 4 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 366 | 312 | 85 | 366 | 302 | 82 | 3 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 366 | 337 | 92 | 366 | 336 | 92 | 0 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 366 | 361 | 99 | 366 | 348 | 95 | 4 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 366 | 352 | 96 | 366 | 343 | 94 | 3 | 30-140 | 50 |
| Chrysene | ND | 366 | 302 | 83 | 366 | 297 | 81 | 2 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 366 | 363 | 99 | 366 | 354 | 97 | 2 | 30-130 | 50 |
| Fluoranthene | ND | 366 | 321 | 88 | 366 | 308 | 84 | 4 | 30-130 | 50 |
| Fluorene | ND | 366 | 257 | 70 | 366 | 200 | 55 | 25 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 366 | 362 | 99 | 366 | 352 | 96 | 3 | 20-160 | 50 |
| Naphthalene | ND | 366 | 146 | 40 | 366 | 116 | 32 | 23 | 10-130 | 50 |
| Phenanthrene | ND | 366 | 276 | 75 | 366 | 248 | 68 | 11 | 20-130 | 50 |
| Pyrene | ND | 366 | 307 | 84 | 366 | 294 | 80 | 4 | 10-160 | 50 |
| 2-Methylnaphthalene | ND | 366 | 195 | 53 | 366 | 147 | 40 | 28 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 366 | 199 | 54 | 366 | 150 | 41 | 28 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 366 | 296 | 81 | 366 | 286 | 78 | 3 | 20-150 | 50 |
| Butylbenzylphthalate | ND | 366 | 276 | 75 | 366 | 268 | 73 | 3 | 20-150 | 50 |
| Di-n-butylphthalate | ND | 366 | 290 | 79 | 366 | 277 | 76 | 5 | 20-150 | 50 |
| Di-n-octylphthalate | ND | 366 | 284 | 78 | 366 | 277 | 76 | 3 | 10-150 | 50 |
| Diethylphthalate | ND | 366 | 275 | 75 | 366 | 243 | 66 | 12 | 20-150 | 50 |
| Dimethylphthalate | ND | 366 | 252 | 69 | 366 | 206 | 56 | 20 | 20-150 | 50 |
| N-Nitrosodimethylamine | ND | 366 | 184 | 50 | 366 | 147 | 40 | 22 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 366 | 184 | 50 | 366 | 142 | 39* | 40-130 |
| 2-Fluorobiphenyl | 366 | 180 | 49 | 366 | 136 | 37* | 45-130 |
| Terphenyl-d14 | 366 | 306 | 84 | 366 | 302 | 82 | 45-135 |

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/20/12 09:49 |
| Sample ID: SL-067-NBZ-SB-2.0 | Date Analyzed: 03/20/12 09:49 |
| Lab Samp ID: C156-01 | Dilution Factor: 0.95 |
| Lab File ID: EC19034A | Matrix : SOIL |
| Ext Btch ID: GMC014S | % Moisture : 7.4 |
| Calib. Ref.: EC19033A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.51 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.68 | 2.052 | 82.0 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 03/19/12 14:26

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/20/12 06:59 |
| Sample ID: SL-068-NBZ-SB-3.0 | Date Analyzed: 03/20/12 06:59 |
| Lab Samp ID: C156-03 | Dilution Factor: 0.97 |
| Lab File ID: EC19030A | Matrix : SOIL |
| Ext Btch ID: GMC014S | % Moisture : 10.7 |
| Calib. Ref.: EC19021A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.54 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.76 | 2.172 | 81.1 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 03/19/12 14:26

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/20/12 10:28 |
| Sample ID: SL-072-NBZ-SB-4.5 | Date Analyzed: 03/20/12 10:28 |
| Lab Samp ID: C156-05 | Dilution Factor: 1 |
| Lab File ID: EC19035A | Matrix : SOIL |
| Ext Btch ID: GMC014S | % Moisture : 10.6 |
| Calib. Ref.: EC19033A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.56 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.84 | 2.237 | 82.2 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 03/19/12 14:26

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/20/12 11:10 |
| Sample ID: DUP-01-NBZ-QC-031612 | Date Analyzed: 03/20/12 11:10 |
| Lab Samp ID: C156-07 | Dilution Factor: 0.98 |
| Lab File ID: EC19036A | Matrix : SOIL |
| Ext Btch ID: GMC014S | % Moisture : 9.5 |
| Calib. Ref.: EC19033A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.54 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.74 | 2.166 | 80.5 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 03/19/12 14:26

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C156 | Date Extracted: 03/20/12 04:55 |
| Sample ID: MBLK1S | Date Analyzed: 03/20/12 04:55 |
| Lab Samp ID: GMC014SB | Dilution Factor: 1 |
| Lab File ID: EC19027A | Matrix : SOIL |
| Ext Btch ID: GMC014S | % Moisture : NA |
| Calib. Ref.: EC19021A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.74 | 2.000 | 87.0 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 5035/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | GMC014SB | GMC014SL | GMC014SC | | |
| LAB FILE ID: | EC19027A | EC19028A | EC19029A | | |
| DATE EXTRACTED: | 03/20/1204:55 | 03/20/1205:36 | 03/20/1206:18 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/20/1204:55 | 03/20/1205:36 | 03/20/1206:18 | DATE RECEIVED: | 03/20/12 |
| PREP. BATCH: | GMC014S | GMC014S | GMC014S | | |
| CALIB. REF: | EC19021A | EC19021A | EC19021A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 25.0 | 23.6 | 95 | 25.0 | 24.2 | 97 | 2 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 2.00 | 2.03 | 102 | 2.00 | 2.01 | 100 | 60-130 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 5035/8015B GRO

MATRIX: SOIL % MOISTURE: 10.7
DILUTION FACTOR: 0.97 0.92 0.93
SAMPLE ID: SL-068-NBZ-SB-3.0
LAB SAMP ID: C156-03 C156-03M C156-03S
LAB FILE ID: EC19030A EC19031A EC19032A
DATE EXTRACTED: 03/20/1206:59 03/20/1207:41 03/20/1208:23 DATE COLLECTED: 03/16/12
DATE ANALYZED: 03/20/1206:59 03/20/1207:41 03/20/1208:23 DATE RECEIVED: 03/16/12
PREP. BATCH: GMC014S GMC014S GMC014S
CALIB. REF: EC19021A EC19021A EC19021A

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 25.8 | 23.3 | 91 | 26.0 | 22.1 | 85 | 7 | 50-130 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 2.06 | 1.98 | 96 | 2.08 | 1.91 | 92 | 60-130 |

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/20/12 02:50 |
| Sample ID: TB-031612 | Date Analyzed: 03/20/12 02:50 |
| Lab Samp ID: C156-08 | Dilution Factor: 1 |
| Lab File ID: EC19024A | Matrix : WATER |
| Ext Btch ID: VA39C10 | % Moisture : NA |
| Calib. Ref.: EC19021A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 42J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 33.9 | 40.00 | 84.7 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C156 | Date Extracted: 03/19/12 12:12 |
| Sample ID: MBLK1W | Date Analyzed: 03/19/12 12:12 |
| Lab Samp ID: VA39C10B | Dilution Factor: 1 |
| Lab File ID: EC19003A | Matrix : WATER |
| Ext Btch ID: VA39C10 | % Moisture : NA |
| Calib. Ref.: EC19002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 33.2 | 40.00 | 83.0 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 5030B/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VA39C10B | VA39C10L | VA39C10C | | |
| LAB FILE ID: | EC19003A | EC19004A | EC19005A | | |
| DATE EXTRACTED: | 03/19/1212:12 | 03/19/1212:54 | 03/19/1213:36 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/19/1212:12 | 03/19/1212:54 | 03/19/1213:36 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | VA39C10 | VA39C10 | VA39C10 | | |
| CALIB. REF: | EC19002A | EC19002A | EC19002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 500 | 462 | 92 | 500 | 480 | 96 | 4 | 60-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 40.0 | 37.9 | 95 | 40.0 | 37.1 | 93 | 60-130 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/20/12 11:00 |
| Sample ID: SL-067-NBZ-SB-1.5-2.5 | Date Analyzed: 03/20/12 15:29 |
| Lab Samp ID: C156-02 | Dilution Factor: 1 |
| Lab File ID: BC20011A | Matrix : SOIL |
| Ext Btch ID: MEC005S | % Moisture : 7.9 |
| Calib. Ref.: BC20002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 540 | 270 |
| ISOPROPANOL | ND | 540 | 270 |
| METHANOL | ND | 540 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/20/12 11:00 |
| Sample ID: SL-068-NBZ-SB-2.5-3.5 | Date Analyzed: 03/20/12 13:52 |
| Lab Samp ID: C156-04 | Dilution Factor: 1 |
| Lab File ID: BC20006A | Matrix : SOIL |
| Ext Btch ID: MEC005S | % Moisture : 8.9 |
| Calib. Ref.: BC20002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 550 | 270 |
| ISOPROPANOL | ND | 550 | 270 |
| METHANOL | ND | 550 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/20/12 11:00 |
| Sample ID: SL-072-NBZ-SB-4.0-5.0 | Date Analyzed: 03/20/12 15:49 |
| Lab Samp ID: C156-06 | Dilution Factor: 1 |
| Lab File ID: BC20012A | Matrix : SOIL |
| Ext Btch ID: MEC005S | % Moisture : 10.6 |
| Calib. Ref.: BC20002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 560 | 280 |
| ISOPROPANOL | ND | 560 | 280 |
| METHANOL | ND | 560 | 280 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/20/12 11:00 |
| Sample ID: DUP-01-NBZ-QC-031612 | Date Analyzed: 03/20/12 16:09 |
| Lab Samp ID: C156-07 | Dilution Factor: 1 |
| Lab File ID: BC20013A | Matrix : SOIL |
| Ext Btch ID: MEC005S | % Moisture : 9.5 |
| Calib. Ref.: BC20002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 550 | 280 |
| ISOPROPANOL | ND | 550 | 280 |
| METHANOL | ND | 550 | 280 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C156 | Date Extracted: 03/20/12 11:00 |
| Sample ID: MBLK1S | Date Analyzed: 03/20/12 12:09 |
| Lab Samp ID: MEC005SB | Dilution Factor: 1 |
| Lab File ID: BC20003A | Matrix : SOIL |
| Ext Btch ID: MEC005S | % Moisture : NA |
| Calib. Ref.: BC20002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 500 | 250 |
| ISOPROPANOL | ND | 500 | 250 |
| METHANOL | ND | 500 | 250 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | MEC005SB | MEC005SL | MEC005SC | | |
| LAB FILE ID: | BC20003A | BC20004A | BC20005A | | |
| DATE EXTRACTED: | 03/20/1211:00 | 03/20/1211:00 | 03/20/1211:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/20/1212:09 | 03/20/1212:25 | 03/20/1213:27 | DATE RECEIVED: | 03/20/12 |
| PREP. BATCH: | MEC005S | MEC005S | MEC005S | | |
| CALIB. REF: | BC20002A | BC20002A | BC20002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 12600 | 126 | 10000 | 9910 | 99 | 24 | 50-150 | 50 |
| Isopropanol | ND | 10000 | 10600 | 106 | 10000 | 11600 | 116 | 9 | 50-150 | 50 |
| Methanol | ND | 10000 | 9080 | 91 | 10000 | 10100 | 101 | 11 | 50-150 | 50 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 8015B

MATRIX: SOIL % MOISTURE: 8.9
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-068-NBZ-SB-2.5-3.5
LAB SAMP ID: C156-04 C156-04M C156-04S
LAB FILE ID: BC20006A BC20007A BC20010A
DATE EXTRACTED: 03/20/1211:00 03/20/1211:00 03/20/1211:00 DATE COLLECTED: 03/16/12
DATE ANALYZED: 03/20/1213:52 03/20/1214:08 03/20/1215:10 DATE RECEIVED: 03/16/12
PREP. BATCH: MEC005S MEC005S MEC005S
CALIB. REF: BC20002A BC20002A BC20002A

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 11000 | 11400 | 104 | 11000 | 10400 | 95 | 10 | 30-150 | 50 |
| Isopropanol | ND | 11000 | 10500 | 96 | 11000 | 13200 | 121 | 23 | 50-150 | 50 |
| Methanol | ND | 11000 | 9260 | 84 | 11000 | 11200 | 102 | 19 | 50-140 | 50 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/20/12 12:15 |
| Sample ID: SL-067-NBZ-SB-1.5-2.5 | Date Analyzed: 03/21/12 12:08 |
| Lab Samp ID: C156-02 | Dilution Factor: 1 |
| Lab File ID: TC21016A | Matrix : SOIL |
| Ext Btch ID: PEC003S | % Moisture : 7.9 |
| Calib. Ref.: TC21013A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.1 |
| ETHYLENE GLYCOL | ND | 11 | 5.4 |
| PROPYLENE GLYCOL | ND | 11 | 5.4 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/16/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/16/12 |
| Batch No. | : 12C156 | Date Extracted | : 03/20/12 12:15 |
| Sample ID | : SL-068-NBZ-SB-2.5-3.5 | Date Analyzed | : 03/21/12 13:47 |
| Lab Samp ID | : C156-04 | Dilution Factor | : 1 |
| Lab File ID | : TC21023A | Matrix | : SOIL |
| Ext Btch ID | : PEC003S | % Moisture | : 8.9 |
| Calib. Ref. | : TC21013A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.2 |
| ETHYLENE GLYCOL | ND | 11 | 5.5 |
| PROPYLENE GLYCOL | ND | 11 | 5.5 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/16/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/16/12 |
| Batch No. | : 12C156 | Date Extracted | : 03/20/12 12:15 |
| Sample ID | : SL-072-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/21/12 12:20 |
| Lab Samp ID | : C156-06 | Dilution Factor | : 1 |
| Lab File ID | : TC21017A | Matrix | : SOIL |
| Ext Btch ID | : PEC003S | % Moisture | : 10.6 |
| Calib. Ref. | : TC21013A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 17 | 8.4 |
| ETHYLENE GLYCOL | ND | 11 | 5.6 |
| PROPYLENE GLYCOL | ND | 11 | 5.6 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/20/12 12:15 |
| Sample ID: DUP-01-NBZ-QC-031612 | Date Analyzed: 03/21/12 12:36 |
| Lab Samp ID: C156-07 | Dilution Factor: 1 |
| Lab File ID: TC21018A | Matrix : SOIL |
| Ext Btch ID: PEC003S | % Moisture : 9.5 |
| Calib. Ref.: TC21013A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 17 | 8.3 |
| ETHYLENE GLYCOL | ND | 11 | 5.5 |
| PROPYLENE GLYCOL | ND | 11 | 5.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C156 | Date Extracted: 03/20/12 12:15 |
| Sample ID: MBLK1S | Date Analyzed: 03/21/12 08:49 |
| Lab Samp ID: PEC003SQ | Dilution Factor: 1 |
| Lab File ID: TC21004A | Matrix : SOIL |
| Ext Btch ID: PEC003S | % Moisture : NA |
| Calib. Ref.: TC21002A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.5 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 5.0 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PEC003SQ | PEC003SL | PEC003SC | | |
| LAB FILE ID: | TC21004A | TC21005A | TC21006A | | |
| DATE EXTRACTED: | 03/20/1212:15 | 03/20/1212:15 | 03/20/1212:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/21/1208:49 | 03/21/1209:04 | 03/21/1209:16 | DATE RECEIVED: | 03/20/12 |
| PREP. BATCH: | PEC003S | PEC003S | PEC003S | | |
| CALIB. REF: | TC21002A | TC21002A | TC21002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 43.7 | 87 | 50.0 | 52.5 | 105 | 18 | 50-150 | 50 |
| Ethylene Glycol | ND | 50.0 | 49.1 | 98 | 50.0 | 54.8 | 110 | 11 | 50-150 | 50 |
| Propylene Glycol | ND | 25.0 | 26.0 | 104 | 25.0 | 28.4 | 113 | 9 | 50-150 | 50 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 8015M

MATRIX: SOIL % MOISTURE: 8.9
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-068-NBZ-SB-2.5-3.5
LAB SAMP ID: C156-04 C156-04M C156-04S
LAB FILE ID: TC21023A TC21025A TC21026A
DATE EXTRACTED: 03/20/1212:15 03/20/1212:15 03/20/1212:15 DATE COLLECTED: 03/16/12
DATE ANALYZED: 03/21/1213:47 03/21/1214:15 03/21/1214:28 DATE RECEIVED: 03/16/12
PREP. BATCH: PEC003S PEC003S PEC003S
CALIB. REF: TC21013A TC21024A TC21024A

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 54.9 | 56.4 | 103 | 54.9 | 58.7 | 107 | 4 | 50-150 | 50 |
| Ethylene Glycol | ND | 54.9 | 58.0 | 106 | 54.9 | 58.7 | 107 | 1 | 50-150 | 50 |
| Propylene Glycol | ND | 27.4 | 29.2 | 107 | 27.4 | 28.9 | 105 | 1 | 50-150 | 50 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/23/12 10:45 |
| Sample ID: SL-067-NBZ-SB-1.5-2.5 | Date Analyzed: 03/23/12 21:40 |
| Lab Samp ID: C156-02 | Dilution Factor: 1 |
| Lab File ID: LC23017A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : 7.9 |
| Calib. Ref.: LC23015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.54 |
| EFH(C12-C14) | ND | 1.1 | 0.54 |
| EFH(C15-C20) | ND | 1.1 | 0.54 |
| EFH(C21-C30) | 0.76J | 1.1 | 0.54 |
| EFH(C30-C40) | 2.2 | 1.1 | 0.54 |
| TOTAL EFH(C8-C40) | 3.0 | 1.1 | 0.54 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.90 | 10.86 | 72.8 | 50-150 |
| HEXACOSANE | 2.34 | 2.714 | 86.2 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/23/12 10:45 |
| Sample ID: SL-068-NBZ-SB-2.5-3.5 | Date Analyzed: 03/23/12 21:57 |
| Lab Samp ID: C156-04 | Dilution Factor: 1 |
| Lab File ID: LC23018A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : 8.9 |
| Calib. Ref.: LC23015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.55 |
| EFH(C12-C14) | ND | 1.1 | 0.55 |
| EFH(C15-C20) | ND | 1.1 | 0.55 |
| EFH(C21-C30) | ND | 1.1 | 0.55 |
| EFH(C30-C40) | 1.3 | 1.1 | 0.55 |
| TOTAL EFH(C8-C40) | 1.3 | 1.1 | 0.55 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.01 | 10.98 | 54.7 | 50-150 |
| HEXACOSANE | 2.15 | 2.744 | 78.5 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/23/12 10:45 |
| Sample ID: SL-072-NBZ-SB-4.0-5.0 | Date Analyzed: 03/23/12 22:47 |
| Lab Samp ID: C156-06 | Dilution Factor: 1 |
| Lab File ID: LC23021A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : 10.6 |
| Calib. Ref.: LC23015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.56 |
| EFH(C12-C14) | ND | 1.1 | 0.56 |
| EFH(C15-C20) | ND | 1.1 | 0.56 |
| EFH(C21-C30) | ND | 1.1 | 0.56 |
| EFH(C30-C40) | ND | 1.1 | 0.56 |
| TOTAL EFH(C8-C40) | ND | 1.1 | 0.56 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.35 | 11.19 | 56.8 | 50-150 |
| HEXACOSANE | 2.21 | 2.796 | 79.2 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/23/12 10:45 |
| Sample ID: DUP-01-NBZ-QC-031612 | Date Analyzed: 03/23/12 23:04 |
| Lab Samp ID: C156-07 | Dilution Factor: 1 |
| Lab File ID: LC23022A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : 9.5 |
| Calib. Ref.: LC23015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.55 |
| EFH(C12-C14) | ND | 1.1 | 0.55 |
| EFH(C15-C20) | ND | 1.1 | 0.55 |
| EFH(C21-C30) | ND | 1.1 | 0.55 |
| EFH(C30-C40) | 0.73J | 1.1 | 0.55 |
| TOTAL EFH(C8-C40) | 0.73J | 1.1 | 0.55 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.55 | 11.05 | 68.3 | 50-150 |
| HEXACOSANE | 2.29 | 2.762 | 83.0 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C156 | Date Extracted: 03/23/12 10:45 |
| Sample ID: MBLK1S | Date Analyzed: 03/23/12 18:18 |
| Lab Samp ID: DSC026SB | Dilution Factor: 1 |
| Lab File ID: LC23005A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : NA |
| Calib. Ref.: LC23003A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.51 | 10.00 | 75.1 | 50-150 |
| HEXACOSANE | 2.04 | 2.500 | 81.6 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 3550B/8015B EFH

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSC026SB | DSC026SL | DSC026SC | | |
| LAB FILE ID: | LC23005A | LC23006A | LC23007A | | |
| DATE EXTRACTED: | 03/23/1210:45 | 03/23/1210:45 | 03/23/1210:45 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1218:18 | 03/23/1218:35 | 03/23/1218:51 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | DSC026S | DSC026S | DSC026S | | |
| CALIB. REF: | LC23003A | LC23003A | LC23003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 41.8 | 84 | 50.0 | 45.6 | 91 | 9 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 7.72 | 77 | 10.0 | 7.49 | 75 | 50-150 |
| Hexacosane | 2.50 | 1.98 | 79 | 2.50 | 2.02 | 81 | 50-150 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 3550B/8015B EFH

MATRIX: SOIL % MOISTURE: 8.9

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-068-NBZ-SB-2.5-3.5 | | | | |
| LAB SAMP ID: | C156-04 | C156-04M | C156-04S | | |
| LAB FILE ID: | LC23018A | LC23019A | LC23020A | | |
| DATE EXTRACTED: | 03/23/1210:45 | 03/23/1210:45 | 03/23/1210:45 | DATE COLLECTED: | 03/16/12 |
| DATE ANALYZED: | 03/23/1221:57 | 03/23/1222:14 | 03/23/1222:30 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | DSC026S | DSC026S | DSC026S | | |
| CALIB. REF: | LC23015A | LC23015A | LC23015A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | 1.27 | 54.9 | 39.1 | 69 | 54.9 | 40.2 | 71 | 3 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 11.0 | 6.15 | 56 | 11.0 | 5.55 | 51 | 50-150 |
| Hexacosane | 2.74 | 2.07 | 75 | 2.74 | 1.99 | 73 | 50-150 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 17:23 |
| Sample ID: SL-067-NBZ-SB-1.5-2.5 | Date Analyzed: 03/24/12 19:29 |
| Lab Samp ID: C156-02 | Dilution Factor: 1 |
| Lab File ID: KC23031A | Matrix : SOIL |
| Ext Btch ID: CPC029S | % Moisture : 7.9 |
| Calib. Ref.: KC23028A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.463)\|4.853 | 5.790 | (112)\|83.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.333)\|3.829 | 5.790 | (92.1)\|66.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 17:23 |
| Sample ID: SL-068-NBZ-SB-2.5-3.5 | Date Analyzed: 03/24/12 20:24 |
| Lab Samp ID: C156-04 | Dilution Factor: 1 |
| Lab File ID: KC23032A | Matrix : SOIL |
| Ext Btch ID: CPC029S | % Moisture : 8.9 |
| Calib. Ref.: KC23028A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.502)\|4.916 | 5.854 | (111)\|84.0 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.129)\|4.371 | 5.854 | (105)\|74.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 17:23 |
| Sample ID: SL-072-NBZ-SB-4.0-5.0 | Date Analyzed: 03/24/12 23:10 |
| Lab Samp ID: C156-06 | Dilution Factor: 1 |
| Lab File ID: KC23035A | Matrix : SOIL |
| Ext Btch ID: CPC029S | % Moisture : 10.6 |
| Calib. Ref.: KC23028A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.358)\|4.846 | 5.965 | (107)\|81.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.542)\|4.323 | 5.965 | (110)\|72.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 17:23 |
| Sample ID: DUP-01-NBZ-QC-031612 | Date Analyzed: 03/25/12 00:05 |
| Lab Samp ID: C156-07 | Dilution Factor: 1 |
| Lab File ID: KC23036A | Matrix : SOIL |
| Ext Btch ID: CPC029S | % Moisture : 9.5 |
| Calib. Ref.: KC23028A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.989)\|4.582 | 5.893 | (102)\|77.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.615)\|4.039 | 5.893 | (95.3)\|68.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 17:23 |
| Sample ID: MBLK1S | Date Analyzed: 03/24/12 06:35 |
| Lab Samp ID: 60C029SB | Dilution Factor: 1 |
| Lab File ID: KC23017A | Matrix : SOIL |
| Ext Btch ID: CPC029S | % Moisture : NA |
| Calib. Ref.: KC23014A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.797)\|4.413 | 5.333 | (109)\|82.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.834)\|5.064 | 5.333 | (109)\|95.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: 60C029SB 60C029SL 60C029SC
LAB FILE ID: KC23017A KC23018A KC23019A
DATE EXTRACTED: 03/22/1217:23 03/22/1217:23 03/22/1217:23 DATE COLLECTED: NA
DATE ANALYZED: 03/24/1206:35 03/24/1207:30 03/24/1208:25 DATE RECEIVED: 03/22/12
PREP. BATCH: CPC029S CPC029S CPC029S
CALIB. REF: KC23014A KC23014A KC23014A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (62.4)\|51.7 | (94)\|78 | 66.7 | (55.6)\|49.4 | (83)\|74 | (12)\|5 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (73.7)\|61.4 | (111)\|92 | 66.7 | (74.4)\|61.9 | (112)\|93 | (1)\|1 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | (70.0)\|66.7 | (105)\|100 | 66.7 | (72.3)\|68.5 | (108)\|103 | (3)\|3 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | (5.991)\|4.529 | (112)\|84.9 | 5.333 | (5.949)\|4.511 | (112)\|84.6 | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (5.836)\|4.964 | (109)\|93.1 | 5.333 | (4.990)\|4.302 | (93.6)\|80.7 | 10-160 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 8.9

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-068-NBZ-SB-2.5-3.5 | | | | |
| LAB SAMP ID: | C156-04 | C156-04M | C156-04S | | |
| LAB FILE ID: | KC23032A | KC23033A | KC23034A | | |
| DATE EXTRACTED: | 03/22/1217:23 | 03/22/1217:23 | 03/22/1217:23 | DATE COLLECTED: | 03/16/12 |
| DATE ANALYZED: | 03/24/1220:24 | 03/24/1221:19 | 03/24/1222:15 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | CPC029S | CPC029S | CPC029S | | |
| CALIB. REF: | KC23028A | KC23028A | KC23028A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 73.2 | (65.1)\|51.2 | (89)\|70 | 73.2 | (56.8)\|44.3 | (78)\|61 | (14)\|14 | 20-160 | 50 |
| Aroclor 1260 | (ND)\|ND | 73.2 | (77.9)\|64.9 | (106)\|89 | 73.2 | (78.0)\|63.6 | (107)\|87 | (0)\|2 | 20-160 | 50 |
| Aroclor 5460 | (ND)\|ND | 73.2 | (75.7)\|72.0 | (103)\|98 | 73.2 | (73.6)\|70.7 | (101)\|97 | (3)\|2 | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.854 | (6.236)\|4.710 | (107)\|80.5 | 5.854 | (6.533)\|4.936 | (112)\|84.3 | 45-120 |
| Tetrachloro-m-xylene | 5.854 | (5.792)\|4.049 | (98.9)\|69.2 | 5.854 | (4.948)\|3.635 | (84.5)\|62.1 | 10-160 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 20:10 |
| Sample ID: SL-067-NBZ-SB-1.5-2.5 | Date Analyzed: 03/24/12 02:48 |
| Lab Samp ID: C156-02 | Dilution Factor: 1 |
| Lab File ID: XC22076A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: XC22073A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1840 | 2000 | 92.0 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 20:10 |
| Sample ID: SL-068-NBZ-SB-2.5-3.5 | Date Analyzed: 03/24/12 03:21 |
| Lab Samp ID: C156-04 | Dilution Factor: 1 |
| Lab File ID: XC22077A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: XC22073A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1820 | 2000 | 90.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 20:10 |
| Sample ID: SL-072-NBZ-SB-4.0-5.0 | Date Analyzed: 03/24/12 05:01 |
| Lab Samp ID: C156-06 | Dilution Factor: 1 |
| Lab File ID: XC22080A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: XC22073A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1800 | 2000 | 90.2 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 20:10 |
| Sample ID: DUP-01-NBZ-QC-031612 | Date Analyzed: 03/24/12 05:34 |
| Lab Samp ID: C156-07 | Dilution Factor: .99 |
| Lab File ID: XC22081A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: XC22073A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1860 | 1980 | 94.0 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 20:10 |
| Sample ID: MBLK1S | Date Analyzed: 03/23/12 19:35 |
| Lab Samp ID: EXC017SB | Dilution Factor: 1 |
| Lab File ID: XC22063A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: XC22062A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1850 | 2000 | 92.7 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXC017SB | EXC017SL | EXC017SC | | |
| LAB FILE ID: | XC22063A | XC22064A | XC22065A | | |
| DATE EXTRACTED: | 03/22/1220:10 | 03/22/1220:10 | 03/22/1220:10 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1219:35 | 03/23/1220:08 | 03/23/1220:42 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | EXC017S | EXC017S | EXC017S | | |
| CALIB. REF: | XC22062A | XC22062A | XC22062A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 1930 | 96 | 2000 | 1940 | 97 | 0 | 70-130 | 50 |
| RDX | ND | 2000 | 1980 | 99 | 2000 | 1940 | 97 | 2 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2150 | 107 | 2000 | 2150 | 107 | 0 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 1960 | 98 | 2000 | 1980 | 99 | 1 | 70-130 | 50 |
| Tetryl | ND | 2000 | 2200 | 110 | 2000 | 2260 | 113 | 3 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 1670 | 83 | 2000 | 1800 | 90 | 7 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 1980 | 99 | 2000 | 1920 | 96 | 3 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 1920 | 96 | 2000 | 1910 | 95 | 1 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 1920 | 96 | 2000 | 1940 | 97 | 1 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2110 | 105 | 2000 | 2090 | 104 | 1 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 1980 | 99 | 2000 | 2120 | 106 | 7 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 1980 | 99 | 2000 | 1940 | 97 | 2 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1830 | 91 | 2000 | 1890 | 94 | 3 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 1960 | 98 | 2000 | 1740 | 87 | 12 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1770 | 88 | 2000 | 1760 | 88 | 1 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2130 | 106 | 2000 | 2140 | 107 | 1 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1850 | 92 | 2000 | 1800 | 90 | 65-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 .99 1
SAMPLE ID: SL-068-NBZ-SB-2.5-3.5
LAB SAMP ID: C156-04 C156-04M C156-04S
LAB FILE ID: XC22077A XC22078A XC22079A
DATE EXTRACTED: 03/22/1220:10 03/22/1220:10 03/22/1220:10 DATE COLLECTED: 03/16/12
DATE ANALYZED: 03/24/1203:21 03/24/1203:54 03/24/1204:27 DATE RECEIVED: 03/16/12
PREP. BATCH: EXC017S EXC017S EXC017S
CALIB. REF: XC22073A XC22073A XC22073A

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 1980 | 1930 | 97 | 2000 | 1960 | 98 | 1 | 70-130 | 50 |
| RDX | ND | 1980 | 1890 | 95 | 2000 | 1830 | 92 | 3 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 1980 | 2090 | 105 | 2000 | 2110 | 105 | 0 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 1980 | 1910 | 96 | 2000 | 1910 | 96 | 0 | 70-130 | 50 |
| Tetryl | ND | 1980 | 2220 | 112 | 2000 | 2190 | 110 | 2 | 60-130 | 50 |
| Nitrobenzene | ND | 1980 | 1740 | 88 | 2000 | 1710 | 86 | 2 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 1980 | 1880 | 95 | 2000 | 1930 | 97 | 2 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 1980 | 1920 | 97 | 2000 | 1990 | 100 | 3 | 70-140 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 1980 | 1860 | 94 | 2000 | 1890 | 94 | 0 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 1980 | 2010 | 102 | 2000 | 1950 | 98 | 4 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 1980 | 2010 | 102 | 2000 | 2090 | 105 | 3 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 1980 | 2030 | 102 | 2000 | 2030 | 101 | 1 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 1980 | 1780 | 90 | 2000 | 1990 | 99 | 10 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 1980 | 1810 | 91 | 2000 | 1860 | 93 | 2 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 1980 | 1580 | 80 | 2000 | 1620 | 81 | 1 | 20-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 1980 | 2060 | 104 | 2000 | 2050 | 103 | 1 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 1980 | 1880 | 95 | 2000 | 1910 | 95 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/16/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/16/12 |
| Batch No. | : 12C156 | Date Extracted | : 03/22/12 20:10 |
| Sample ID | : SL-067-NBZ-SB-1.5-2.5 | Date Analyzed | : 03/26/12 12:47 |
| Lab Samp ID | : C156-02 | Dilution Factor | : 1 |
| Lab File ID | : PC26016A | Matrix | : SOIL |
| Ext Btch ID | : EXC017S | % Moisture | : NA |
| Calib. Ref. | : PC26013A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2390 | 2000 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 20:10 |
| Sample ID: SL-068-NBZ-SB-2.5-3.5 | Date Analyzed: 03/26/12 13:01 |
| Lab Samp ID: C156-04 | Dilution Factor: 1 |
| Lab File ID: PC26017A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: PC26013A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2380 | 2000 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 20:10 |
| Sample ID: SL-072-NBZ-SB-4.0-5.0 | Date Analyzed: 03/26/12 14:13 |
| Lab Samp ID: C156-06 | Dilution Factor: 1 |
| Lab File ID: PC26020A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: PC26013A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2320 | 2000 | 116 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 20:10 |
| Sample ID: DUP-01-NBZ-QC-031612 | Date Analyzed: 03/26/12 14:27 |
| Lab Samp ID: C156-07 | Dilution Factor: .99 |
| Lab File ID: PC26021A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: PC26013A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2350 | 1980 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C156 | Date Extracted: 03/22/12 20:10 |
| Sample ID: MBLK1S | Date Analyzed: 03/26/12 09:40 |
| Lab Samp ID: EXC017SB | Dilution Factor: 1 |
| Lab File ID: PC26003A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: PC26002A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2530 | 2000 | 126 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXC017SB | EXC017SX | EXC017SY | | |
| LAB FILE ID: | PC26003A | PC26004A | PC26005A | | |
| DATE EXTRACTED: | 03/22/1220:10 | 03/22/1220:10 | 03/22/1220:10 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/26/1209:40 | 03/26/1209:54 | 03/26/1210:08 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | EXC017S | EXC017S | EXC017S | | |
| CALIB. REF: | PC26002A | PC26002A | PC26002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7710 | 103 | 7500 | 7280 | 97 | 6 | 50-150 | 50 |
| PETN | ND | 7500 | 7790 | 104 | 7500 | 7650 | 102 | 2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2320 | 116 | 2000 | 2340 | 117 | 65-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: Method 8332

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 .99 1
SAMPLE ID: SL-068-NBZ-SB-2.5-3.5
LAB SAMP ID: C156-04 C156-04M C156-04S
LAB FILE ID: PC26017A PC26018A PC26019A
DATE EXTRACTED: 03/22/1220:10 03/22/1220:10 03/22/1220:10 DATE COLLECTED: 03/16/12
DATE ANALYZED: 03/26/1213:01 03/26/1213:15 03/26/1213:29 DATE RECEIVED: 03/16/12
PREP. BATCH: EXC017S EXC017S EXC017S
CALIB. REF: PC26013A PC26013A PC26013A

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7420 | 7580 | 102 | 7500 | 7650 | 102 | 0 | 50-150 | 50 |
| PETN | ND | 7420 | 7670 | 103 | 7500 | 7720 | 103 | 0 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 1980 | 2300 | 116 | 2000 | 2330 | 117 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| SDG NO. : 12C156 | Date Extracted: 03/20/12 14:43 |
| Sample ID: SL-067-NBZ-SB-1.5-2.5 | Date Analyzed: 03/21/12 17:40 # 03/22/12 19:11 |
| Lab Samp ID: C156-02 #C156-02W | Dilution Factor: 0.993 |
| Lab File ID: 98C08027 #98C09028 | Matrix : SOIL |
| Ext Btch ID: IMC021S | % Moisture : 7.9 |
| Calib. Ref.: 98C08017 #98C09018 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| # Aluminum | 11600 | 25.9 | 12.9 |
| # Antimony | 0.148J | 0.216 | 0.108 |
| # Arsenic | 3.65 | 0.431 | 0.216 |
| # Barium | 54.7 | 0.431 | 0.216 |
| # Beryllium | 0.462 | 0.108 | 0.0539 |
| Boron | ND | 5.39 | 2.70 |
| # Cadmium | 0.0633J | 0.108 | 0.0539 |
| # Calcium | 1830 | 21.6 | 10.8 |
| # Chromium | 16.3 | 0.431 | 0.216 |
| # Cobalt | 3.93 | 0.108 | 0.0539 |
| # Copper | 3.62 | 0.431 | 0.216 |
| # Iron | 19400 | 21.6 | 10.8 |
| # Lead | 4.29 | 0.216 | 0.108 |
| # Magnesium | 4000 | 10.8 | 5.39 |
| # Manganese | 141 | 0.539 | 0.270 |
| # Molybdenum | 0.522 | 0.108 | 0.0539 |
| # Nickel | 6.20 | 0.431 | 0.216 |
| # Potassium | 1030 | 64.7 | 32.3 |
| # Selenium | ND | 0.431 | 0.216 |
| # Silver | ND | 0.108 | 0.0539 |
| # Sodium | 90.7J | 108 | 53.9 |
| # Strontium | 16.7 | 0.539 | 0.270 |
| # Thallium | 0.209 | 0.108 | 0.0539 |
| # Tin | ND | 10.8 | 5.39 |
| # Titanium | 904 | 1.08 | 0.539 |
| # Vanadium | 35.6 | 0.108 | 0.0539 |
| # Zinc | 31.8 | 3.23 | 1.62 |
| # Lithium | 17.8 | 2.16 | 1.08 |
| # Phosphorus | 89.3 | 12.9 | 6.47 |
| # Zirconium | ND | 5.39 | 2.70 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| SDG NO. : 12C156 | Date Extracted: 03/20/12 14:43 |
| Sample ID: SL-068-NBZ-SB-2.5-3.5 | Date Analyzed: 03/21/12 17:26 # 03/22/12 18:57 |
| Lab Samp ID: C156-04 #C156-04W | Dilution Factor: 0.988 |
| Lab File ID: 98C08025 #98C09026 | Matrix : SOIL |
| Ext Btch ID: IMC021S | % Moisture : 8.9 |
| Calib. Ref.: 98C08017 #98C09018 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| # Aluminum | 11900 | 26.0 | 13.0 |
| # Antimony | 0.145J | 0.217 | 0.108 |
| # Arsenic | 5.87 | 0.434 | 0.217 |
| # Barium | 53.8 | 0.434 | 0.217 |
| # Beryllium | 0.647 | 0.108 | 0.0542 |
| Boron | ND | 5.42 | 2.71 |
| # Cadmium | 0.0747J | 0.108 | 0.0542 |
| # Calcium | 1530 | 21.7 | 10.8 |
| # Chromium | 12.4 | 0.434 | 0.217 |
| # Cobalt | 4.42 | 0.108 | 0.0542 |
| # Copper | 3.85 | 0.434 | 0.217 |
| # Iron | 20000 | 21.7 | 10.8 |
| # Lead | 4.58 | 0.217 | 0.108 |
| # Magnesium | 3570 | 10.8 | 5.42 |
| # Manganese | 163 | 0.542 | 0.271 |
| # Molybdenum | 0.434 | 0.108 | 0.0542 |
| # Nickel | 5.10 | 0.434 | 0.217 |
| # Potassium | 1590 | 65.1 | 32.5 |
| # Selenium | ND | 0.434 | 0.217 |
| # Silver | ND | 0.108 | 0.0542 |
| # Sodium | 105J | 108 | 54.2 |
| # Strontium | 13.7 | 0.542 | 0.271 |
| # Thallium | 0.348 | 0.108 | 0.0542 |
| # Tin | ND | 10.8 | 5.42 |
| # Titanium | 832 | 1.08 | 0.542 |
| # Vanadium | 30.5 | 0.108 | 0.0542 |
| # Zinc | 38.8 | 3.25 | 1.63 |
| # Lithium | 16.8 | 2.17 | 1.08 |
| # Phosphorus | 130 | 13.0 | 6.51 |
| # Zirconium | ND | 5.42 | 2.71 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| SDG NO. : 12C156 | Date Extracted: 03/20/12 14:43 |
| Sample ID: SL-072-NBZ-SB-4.0-5.0 | Date Analyzed: 03/21/12 18:01 # 03/22/12 19:39 |
| Lab Samp ID: C156-06 #C156-06W | Dilution Factor: 0.993 |
| Lab File ID: 98C08030 #98C09032 | Matrix : SOIL |
| Ext Btch ID: IMC021S | % Moisture : 10.6 |
| Calib. Ref.: 98C08028 #98C09030 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| # Aluminum | 13700 | 26.7 | 13.3 |
| # Antimony | 0.181J | 0.222 | 0.111 |
| # Arsenic | 4.08 | 0.444 | 0.222 |
| # Barium | 63.0 | 0.444 | 0.222 |
| # Beryllium | 0.658 | 0.111 | 0.0555 |
| Boron | ND | 5.55 | 2.78 |
| # Cadmium | 0.0966J | 0.111 | 0.0555 |
| # Calcium | 1200 | 22.2 | 11.1 |
| # Chromium | 17.1 | 0.444 | 0.222 |
| # Cobalt | 5.96 | 0.111 | 0.0555 |
| # Copper | 5.11 | 0.444 | 0.222 |
| # Iron | 20000 | 22.2 | 11.1 |
| # Lead | 5.13 | 0.222 | 0.111 |
| # Magnesium | 4800 | 11.1 | 5.55 |
| # Manganese | 170 | 0.555 | 0.278 |
| # Molybdenum | 0.672 | 0.111 | 0.0555 |
| # Nickel | 7.30 | 0.444 | 0.222 |
| # Potassium | 1480 | 66.6 | 33.3 |
| # Selenium | ND | 0.444 | 0.222 |
| # Silver | ND | 0.111 | 0.0555 |
| # Sodium | 125 | 111 | 55.5 |
| # Strontium | 16.6 | 0.555 | 0.278 |
| # Thallium | 0.260 | 0.111 | 0.0555 |
| # Tin | ND | 11.1 | 5.55 |
| # Titanium | 1160 | 1.11 | 0.555 |
| # Vanadium | 36.6 | 0.111 | 0.0555 |
| # Zinc | 42.0 | 3.33 | 1.67 |
| # Lithium | 18.7 | 2.22 | 1.11 |
| # Phosphorus | 110 | 13.3 | 6.66 |
| # Zirconium | ND | 5.55 | 2.78 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/16/12 |
| SDG NO. : 12C156 | Date Extracted: 03/20/12 14:43 |
| Sample ID: DUP-01-NBZ-QC-031612 | Date Analyzed: 03/21/12 18:07 # 03/22/12 19:45 |
| Lab Samp ID: C156-07 #C156-07W | Dilution Factor: 0.962 |
| Lab File ID: 98C08031 #98C09033 | Matrix : SOIL |
| Ext Btch ID: IMC021S | % Moisture : 9.5 |
| Calib. Ref.: 98C08028 #98C09030 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| # Aluminum | 12600 | 25.5 | 12.8 |
| # Antimony | 0.261 | 0.213 | 0.106 |
| # Arsenic | 10.7 | 0.425 | 0.213 |
| # Barium | 55.5 | 0.425 | 0.213 |
| # Beryllium | 0.598 | 0.106 | 0.0531 |
| Boron | ND | 5.31 | 2.66 |
| # Cadmium | 0.227 | 0.106 | 0.0531 |
| # Calcium | 1670 | 21.3 | 10.6 |
| # Chromium | 13.8 | 0.425 | 0.213 |
| # Cobalt | 4.69 | 0.106 | 0.0531 |
| # Copper | 3.61 | 0.425 | 0.213 |
| # Iron | 23100 | 21.3 | 10.6 |
| # Lead | 5.28 | 0.213 | 0.106 |
| # Magnesium | 3880 | 10.6 | 5.31 |
| # Manganese | 148 | 0.531 | 0.266 |
| # Molybdenum | 0.762 | 0.106 | 0.0531 |
| # Nickel | 5.33 | 0.425 | 0.213 |
| # Potassium | 1510 | 63.8 | 31.9 |
| # Selenium | 0.225J | 0.425 | 0.213 |
| # Silver | ND | 0.106 | 0.0531 |
| # Sodium | 119 | 106 | 53.1 |
| # Strontium | 15.3 | 0.531 | 0.266 |
| # Thallium | 0.229 | 0.106 | 0.0531 |
| # Tin | ND | 10.6 | 5.31 |
| # Titanium | 900 | 1.06 | 0.531 |
| # Vanadium | 33.8 | 0.106 | 0.0531 |
| # Zinc | 40.0 | 3.19 | 1.59 |
| # Lithium | 18.3 | 2.13 | 1.06 |
| # Phosphorus | 114 | 12.8 | 6.38 |
| # Zirconium | ND | 5.31 | 2.66 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| SDG NO. : 12C156 | Date Extracted: 03/20/12 14:43 |
| Sample ID: MBLK1S | Date Analyzed: 03/22/12 18:16 |
| Lab Samp ID: IMC021SQ | Dilution Factor: 1 |
| Lab File ID: 98C09020 | Matrix : SOIL |
| Ext Btch ID: IMC021S | % Moisture : NA |
| Calib. Ref.: 98C09018 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron^ | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

^ : Analyzed @ DF 1 on 03/21/12 16:45 | File ID 98C08019

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C156
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IMC021SQ | IMC021SX | IMC021SY | | |
| LAB FILE ID: | 98C09020 | 98C09021 | 98C09022 | | |
| DATIME EXTRCTD: | 03/20/1214:43 | 03/20/1214:43 | 03/20/1214:43 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 03/22/1218:16 | 03/22/1218:23 | 03/22/1218:30 | DATE RECEIVED: | 03/20/12 |
| PREP. BATCH: | IMC021S | IMC021S | IMC021S | | |
| CALIB. REF: | 98C09018 | 98C09018 | 98C09018 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2390 | 96 | 2500 | 2410 | 97 | 1 | 80-120 | 20 |
| Antimony | ND | 25.0 | 25.4 | 102 | 25.0 | 25.8 | 103 | 2 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 24.2 | 97 | 25.0 | 24.7 | 99 | 2 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.0 | 100 | 25.0 | 25.5 | 102 | 2 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 26.3 | 105 | 25.0 | 26.5 | 106 | 1 | 80-120 | 20 |
| Boron^ | ND | 25.0 | 24.8 | 99 | 25.0 | 25.6 | 102 | 3 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 24.4 | 97 | 25.0 | 24.8 | 99 | 2 | 80-120 | 20 |
| Calcium | ND | 2500 | 2610 | 104 | 2500 | 2650 | 106 | 2 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.5 | 98 | 25.0 | 24.8 | 99 | 1 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 25.1 | 100 | 25.0 | 24.8 | 99 | 1 | 80-120 | 20 |
| Copper | ND | 25.0 | 24.4 | 97 | 25.0 | 24.7 | 99 | 1 | 80-120 | 20 |
| Iron | ND | 2500 | 2580 | 103 | 2500 | 2600 | 104 | 1 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.4 | 102 | 25.0 | 25.7 | 103 | 1 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2380 | 95 | 2500 | 2410 | 96 | 1 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.6 | 102 | 25.0 | 25.5 | 102 | 0 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 24.3 | 97 | 25.0 | 24.6 | 99 | 1 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.2 | 97 | 25.0 | 24.5 | 98 | 1 | 80-120 | 20 |
| Potassium | ND | 2500 | 2530 | 101 | 2500 | 2580 | 103 | 2 | 80-120 | 20 |
| Selenium | ND | 25.0 | 23.9 | 96 | 25.0 | 24.5 | 98 | 2 | 80-120 | 20 |
| Silver | ND | 25.0 | 24.6 | 98 | 25.0 | 25.2 | 101 | 2 | 80-120 | 20 |
| Sodium | ND | 2500 | 2460 | 98 | 2500 | 2510 | 100 | 2 | 80-120 | 20 |
| Strontium | ND | 25.0 | 25.4 | 102 | 25.0 | 25.7 | 103 | 1 | 80-120 | 20 |
| Thallium | ND | 25.0 | 25.3 | 101 | 25.0 | 25.2 | 101 | 0 | 80-120 | 20 |
| Tin | ND | 25.0 | 27.1 | 108 | 25.0 | 27.4 | 109 | 1 | 80-120 | 20 |
| Titanium | ND | 25.0 | 25.2 | 101 | 25.0 | 25.1 | 100 | 1 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 24.5 | 98 | 25.0 | 24.8 | 99 | 1 | 80-120 | 20 |
| Zinc | ND | 50.0 | 47.0 | 94 | 50.0 | 47.9 | 96 | 2 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.7 | 103 | 25.0 | 25.8 | 103 | 0 | 80-120 | 20 |
| Phosphorus | ND | 250 | 232 | 93 | 250 | 234 | 94 | 1 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 25.3 | 101 | 25.0 | 25.4 | 102 | 1 | 80-120 | 20 |

^ IMC021SX/Y: Analyzed @ DF 1 on 03/21/12 16:52/16:59 | File ID 98C08020/21

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C156
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 8.9
DILTN FACTR: 0.988 0.958 0.977
SAMPLE ID: SL-068-NBZ-SB-2.5-3.5
CONTROL NO.: C156-04W C156-04M C156-04S
LAB FILE ID: 98C09026 98C09023 98C09024
DATIME EXTRCTD: 03/20/1214:43 03/20/1214:43 03/20/1214:43 DATE COLLECTED: 03/16/12
DATIME ANALYZD: 03/22/1218:57 03/22/1218:37 03/22/1218:43 DATE RECEIVED: 03/16/12
PREP. BATCH: NA NA NA
CALIB. REF: 98C09018 98C09018 98C09018

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 11900 | 2630 | 13700 | 67* | 2680 | 14700 | 104 | 7 | 75-125 | 20 |
| Antimony | 0.145J | 26.3 | 21.1 | 80 | 26.8 | 22.5 | 83 | 7 | 75-125 | 20 |
| Arsenic | 5.87 | 26.3 | 29.6 | 90 | 26.8 | 30.6 | 92 | 3 | 75-125 | 20 |
| Barium | 53.8 | 26.3 | 80.0 | 100 | 26.8 | 89.9 | 135* | 12 | 75-125 | 20 |
| Beryllium | 0.647 | 26.3 | 28.1 | 104 | 26.8 | 28.7 | 105 | 2 | 75-125 | 20 |
| Boron^ | ND | 26.2 | 25.6 | 97 | 26.8 | 25.7 | 96 | 1 | 75-125 | 20 |
| Cadmium | 0.0747J | 26.3 | 25.8 | 98 | 26.8 | 26.4 | 98 | 2 | 75-125 | 20 |
| Calcium | 1530 | 2630 | 4020 | 95 | 2680 | 4100 | 96 | 2 | 75-125 | 20 |
| Chromium | 12.4 | 26.3 | 36.7 | 93 | 26.8 | 36.8 | 91 | 0 | 75-125 | 20 |
| Cobalt | 4.42 | 26.3 | 28.8 | 93 | 26.8 | 34.0 | 110 | 17 | 75-125 | 20 |
| Copper | 3.85 | 26.3 | 27.2 | 89 | 26.8 | 28.2 | 91 | 4 | 75-125 | 20 |
| Iron | 20000 | 2630 | 21500 | 55* | 2680 | 22900 | 109 | 7 | 75-125 | 20 |
| Lead | 4.58 | 26.3 | 30.6 | 99 | 26.8 | 33.0 | 106 | 8 | 75-125 | 20 |
| Magnesium | 3570 | 2630 | 5810 | 85 | 2680 | 5850 | 85 | 1 | 75-125 | 20 |
| Manganese | 163 | 26.3 | 176 | 52* | 26.8 | 335 | 644* | 62* | 75-125 | 20 |
| Molybdenum | 0.434 | 26.3 | 25.8 | 96 | 26.8 | 26.6 | 97 | 3 | 75-125 | 20 |
| Nickel | 5.10 | 26.3 | 28.2 | 88 | 26.8 | 29.2 | 90 | 4 | 75-125 | 20 |
| Potassium | 1590 | 2630 | 4130 | 96 | 2680 | 4250 | 99 | 3 | 75-125 | 20 |
| Selenium | ND | 26.3 | 24.9 | 95 | 26.8 | 25.2 | 94 | 1 | 75-125 | 20 |
| Silver | ND | 26.3 | 25.7 | 98 | 26.8 | 26.5 | 99 | 3 | 75-125 | 20 |
| Sodium | 105J | 2630 | 2530 | 92 | 2680 | 2550 | 91 | 1 | 75-125 | 20 |
| Strontium | 13.7 | 26.3 | 39.1 | 97 | 26.8 | 40.6 | 100 | 4 | 75-125 | 20 |
| Thallium | 0.348 | 26.3 | 26.5 | 100 | 26.8 | 26.7 | 98 | 1 | 75-125 | 20 |
| Tin | ND | 26.3 | 29.2 | 111 | 26.8 | 30.2 | 113 | 3 | 75-125 | 20 |
| Titanium | 832 | 26.3 | 849 | 66* | 26.8 | 877 | 167* | 3 | 75-125 | 20 |
| Vanadium | 30.5 | 26.3 | 52.8 | 85 | 26.8 | 56.6 | 97 | 7 | 75-125 | 20 |
| Zinc | 38.8 | 52.6 | 86.3 | 90 | 53.6 | 88.4 | 92 | 2 | 75-125 | 20 |
| Lithium | 16.8 | 26.3 | 44.5 | 105 | 26.8 | 47.0 | 112 | 5 | 75-125 | 20 |
| Phosphorus | 130 | 263 | 341 | 80 | 268 | 373 | 90 | 9 | 75-125 | 20 |
| Zirconium | ND | 26.3 | 18.8 | 71* | 26.8 | 19.6 | 73* | 4 | 75-125 | 20 |

^ C156-04M/S : Analyzed @ DF 0.958/0.977 on 03/21/12 17:06/17:13 | File ID 98C08022/23

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C156
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 8.9
DILTN FACTR: 0.988 0.988
SAMPLE ID: SL-068-NBZ-SB-2.5-3.5
CONTROL NO.: C156-04W C156-04A
LAB FILE ID: 98C09026 98C09025
DATIME EXTRCTD: 03/20/1214:43 03/20/1214:43 DATE COLLECTED: 03/16/12
DATIME ANALYZD: 03/22/1218:57 03/22/1218:50 DATE RECEIVED: 03/16/12
PREP. BATCH: NA NA
CALIB. REF: 98C09018 98C09018

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 11900 | 2710 | 14500 | 96 | 75-125 |
| Antimony | 0.145J | 27.1 | 27.7 | 102 | 75-125 |
| Arsenic | 5.87 | 27.1 | 30.9 | 92 | 75-125 |
| Barium | 53.8 | 27.1 | 81.6 | 103 | 75-125 |
| Beryllium | 0.647 | 27.1 | 27.9 | 101 | 75-125 |
| Boron^ | ND | 27.1 | 25.7 | 95 | 75-125 |
| Cadmium | 0.0747J | 27.1 | 26.3 | 97 | 75-125 |
| Calcium | 1530 | 2710 | 4170 | 97 | 75-125 |
| Chromium | 12.4 | 27.1 | 36.7 | 90 | 75-125 |
| Cobalt | 4.42 | 27.1 | 28.9 | 90 | 75-125 |
| Copper | 3.85 | 27.1 | 27.5 | 87 | 75-125 |
| Iron | 20000 | 2710 | 22600 | 95 | 75-125 |
| Lead | 4.58 | 27.1 | 31.2 | 98 | 75-125 |
| Magnesium | 3570 | 2710 | 6000 | 90 | 75-125 |
| Manganese | 163 | 27.1 | 184 | 81 | 75-125 |
| Molybdenum | 0.434 | 27.1 | 26.8 | 97 | 75-125 |
| Nickel | 5.10 | 27.1 | 28.9 | 88 | 75-125 |
| Potassium | 1590 | 2710 | 4250 | 98 | 75-125 |
| Selenium | ND | 27.1 | 25.8 | 95 | 75-125 |
| Silver | ND | 27.1 | 26.1 | 96 | 75-125 |
| Sodium | 105J | 2710 | 2610 | 92 | 75-125 |
| Strontium | 13.7 | 27.1 | 40.4 | 99 | 75-125 |
| Thallium | 0.348 | 27.1 | 27.0 | 98 | 75-125 |
| Tin | ND | 27.1 | 30.2 | 112 | 75-125 |
| Titanium | 832 | 27.1 | 852 | 76 | 75-125 |
| Vanadium | 30.5 | 27.1 | 54.6 | 89 | 75-125 |
| Zinc | 38.8 | 54.2 | 87.7 | 90 | 75-125 |
| Lithium | 16.8 | 27.1 | 45.3 | 105 | 75-125 |
| Phosphorus | 130 | 271 | 367 | 88 | 75-125 |
| Zirconium | ND | 27.1 | 23.4 | 86 | 75-125 |

^ C156-04A : Analyzed @ DF 0.988 on 03/21/12 17:19 | File ID 98C08024

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 6020

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 8.9 |
| DILUTION FACTOR: | 0.988 | 4.94 | | |
| SAMPLE ID: | SL-068-NBZ-SB- | SL-068-NBZ-SB- | | |
| EMAX SAMP ID: | C156-04W | C156-04J | | |
| LAB FILE ID: | 98C09026 | 98C09027 | | |
| DATE EXTRACTED: | 03/20/1214:43 | 03/20/1214:43 | DATE COLLECTED: | 03/16/12 |
| DATE ANALYZED: | 03/22/1218:57 | 03/22/1219:04 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | IMC021S | IMC021S | | |
| CALIB. REF: | 98C09018 | 98C09018 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 11900 | 12500 | 5 | 10 |
| Antimony | 0.145J | ND | NA | 10 |
| Arsenic | 5.87 | 6.34 | 8 | 10 |
| Barium | 53.8 | 54.0 | 0 | 10 |
| Beryllium | 0.647 | 0.638 | 1 | 10 |
| Boron^ | ND | ND | 0 | 10 |
| Cadmium | 0.0747J | ND | NA | 10 |
| Calcium | 1530 | 1680 | 10 | 10 |
| Chromium | 12.4 | 12.9 | 4 | 10 |
| Cobalt | 4.42 | 4.79 | 8 | 10 |
| Copper | 3.85 | 4.21 | 9 | 10 |
| Iron | 20000 | 21400 | 7 | 10 |
| Lead | 4.58 | 4.65 | 2 | 10 |
| Magnesium | 3570 | 3700 | 4 | 10 |
| Manganese | 163 | 178 | 9 | 10 |
| Molybdenum | 0.434 | 0.462J | NA | 10 |
| Nickel | 5.10 | 5.44 | 7 | 10 |
| Potassium | 1590 | 1670 | 5 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | 105J | ND | NA | 10 |
| Strontium | 13.7 | 13.8 | 1 | 10 |
| Thallium | 0.348 | 0.516J | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 832 | 839 | 1 | 10 |
| Vanadium | 30.5 | 31.5 | 3 | 10 |
| Zinc | 38.8 | 40.8 | 5 | 10 |
| Lithium | 16.8 | 16.7 | 1 | 10 |
| Phosphorus | 130 | 139 | 7 | 10 |
| Zirconium | ND | ND | 0 | 10 |

^ C156-04J : Analyzed @ DF 4.94 on 03/21/12 17:33 | File ID 98C08026

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C156

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGC018SB | ND | 1 | NA | 0.100 | 0.0500 | 03/23/1209:47 | 03/22/1215:31 | M47C017010 | M47C017008 | HGC018S | NA | 03/22/12 |
| LCS1S | HGC018SL | 0.863 | 1 | NA | 0.100 | 0.0500 | 03/23/1209:49 | 03/22/1215:31 | M47C017011 | M47C017008 | HGC018S | NA | 03/22/12 |
| LCD1S | HGC018SC | 0.852 | 1 | NA | 0.100 | 0.0500 | 03/23/1209:52 | 03/22/1215:31 | M47C017012 | M47C017008 | HGC018S | NA | 03/22/12 |
| SL-068-NBZ-SB-2.5-3.5AS | C156-04A | 0.957 | 1.00 | 8.9 | 0.110 | 0.0549 | 03/23/1209:54 | 03/22/1215:31 | M47C017013 | M47C017008 | HGC018S | 03/16/12 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5 | C156-04 | ND | 1.00 | 8.9 | 0.110 | 0.0549 | 03/23/1209:56 | 03/22/1215:31 | M47C017014 | M47C017008 | HGC018S | 03/16/12 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5DL | C156-04J | ND | 5.01 | 8.9 | 0.550 | 0.275 | 03/23/1209:58 | 03/22/1215:31 | M47C017015 | M47C017008 | HGC018S | 03/16/12 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5MS | C156-04M | 0.989 | 1.01 | 8.9 | 0.111 | 0.0554 | 03/23/1210:00 | 03/22/1215:31 | M47C017016 | M47C017008 | HGC018S | 03/16/12 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5MSD | C156-04S | 0.964 | 0.987 | 8.9 | 0.108 | 0.0542 | 03/23/1210:02 | 03/22/1215:31 | M47C017017 | M47C017008 | HGC018S | 03/16/12 | 03/16/12 |
| SL-067-NBZ-SB-1.5-2.5 | C156-02 | ND | 0.998 | 7.9 | 0.108 | 0.0542 | 03/23/1210:04 | 03/22/1215:31 | M47C017018 | M47C017008 | HGC018S | 03/16/12 | 03/16/12 |
| SL-072-NBZ-SB-4.0-5.0 | C156-06 | ND | 0.992 | 10.6 | 0.111 | 0.0555 | 03/23/1210:06 | 03/22/1215:31 | M47C017019 | M47C017008 | HGC018S | 03/16/12 | 03/16/12 |
| DUP-01-NBZ-QC-031612 | C156-07 | ND | 0.990 | 9.5 | 0.109 | 0.0547 | 03/23/1210:13 | 03/22/1215:31 | M47C017022 | M47C017020 | HGC018S | 03/16/12 | 03/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C156
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGC018SB | HGC018SL | HGC018SC | | |
| LAB FILE ID: | M47C017010 | M47C017011 | M47C017012 | | |
| DATIME EXTRCTD: | 03/22/1215:31 | 03/22/1215:31 | 03/22/1215:31 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 03/23/1209:47 | 03/23/1209:49 | 03/23/1209:52 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | HGC018S | HGC018S | HGC018S | | |
| CALIB. REF: | M47C017008 | M47C017008 | M47C017008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .863 | 104 | .833 | .852 | 102 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C156
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 8.9 |
| DILTN FACTR: | 1.00 | 1.01 | 0.987 | | |
| SAMPLE ID: | SL-068-NBZ-SB-2.5-3.5 | | | | |
| CONTROL NO.: | C156-04 | C156-04M | C156-04S | | |
| LAB FILE ID: | M47C017014 | M47C017016 | M47C017017 | | |
| DATIME EXTRCTD: | 03/22/1215:31 | 03/22/1215:31 | 03/22/1215:31 | DATE COLLECTED: | 03/16/12 |
| DATIME ANALYZD: | 03/23/1209:56 | 03/23/1210:00 | 03/23/1210:02 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | HGC018S | HGC018S | HGC018S | | |
| CALIB. REF: | M47C017008 | M47C017008 | M47C017008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .924 | .989 | 107 | .902 | .964 | 107 | 0 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C156
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 8.9 |
| DILTN FACTR: | 1.00 | 1.00 | | |
| SAMPLE ID: | SL-068-NBZ-SB-2.5-3.5 | | | |
| CONTROL NO.: | C156-04 | C156-04A | | |
| LAB FILE ID: | M47C017014 | M47C017013 | | |
| DATIME EXTRCTD: | 03/22/1215:31 | 03/22/1215:31 | DATE COLLECTED: | 03/16/12 |
| DATIME ANALYZD: | 03/23/1209:56 | 03/23/1209:54 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | HGC018S | HGC018S | | |
| CALIB. REF: | M47C017008 | M47C017008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .914 | .957 | 105 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 8.9 |
| DILUTION FACTOR: | 1.00 | 5.01 | | |
| SAMPLE ID: | SL-068-NBZ-SB-2.5-3 | SL-068-NBZ-SB-2.5-3 | | |
| EMAX SAMP ID: | C156-04 | C156-04J | | |
| LAB FILE ID: | M47C017014 | M47C017015 | | |
| DATE EXTRACTED: | 03/22/1215:31 | 03/22/1215:31 | DATE COLLECTED: | 03/16/12 |
| DATE ANALYZED: | 03/23/1209:56 | 03/23/1209:58 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | HGC018S | HGC018S | | |
| CALIB. REF: | M47C017008 | M47C017008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C156
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC003SB | ND | 1 | NA | 1.00 | 0.500 | 03/21/1206:52 | 03/19/1215:07 | AC25-74 | AC25-72 | ICC003S | NA | 03/19/12 |
| LCS1S | ICC003SL | 5.91 | 1 | NA | 1.00 | 0.500 | 03/21/1207:08 | 03/19/1215:07 | AC25-75 | AC25-72 | ICC003S | NA | 03/19/12 |
| LCD1S | ICC003SC | 5.92 | 1 | NA | 1.00 | 0.500 | 03/21/1207:25 | 03/19/1215:07 | AC25-76 | AC25-72 | ICC003S | NA | 03/19/12 |
| SL-067-NBZ-SB-1.5-2.5 | C156-02 | 0.944J | 1 | 7.9 | 1.09 | 0.543 | 03/21/1212:16 | 03/19/1215:07 | AC25-94 | AC25-84 | ICC003S | 03/16/1211:45 | 03/16/12 |
| SL-072-NBZ-SB-4.0-5.0 | C156-06 | 0.572J | 1 | 10.6 | 1.12 | 0.559 | 03/21/1212:32 | 03/19/1215:07 | AC25-95 | AC25-84 | ICC003S | 03/16/1214:45 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5 | C156-04 | 0.847J | 1 | 8.9 | 1.10 | 0.549 | 03/21/1213:20 | 03/19/1215:07 | AC25-98 | AC25-96 | ICC003S | 03/16/1210:15 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5MS | C156-04M | 7.51 | 1 | 8.9 | 1.10 | 0.549 | 03/21/1213:36 | 03/19/1215:07 | AC25-99 | AC25-96 | ICC003S | 03/16/1210:15 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5MSD | C156-04S | 7.51 | 1 | 8.9 | 1.10 | 0.549 | 03/21/1213:53 | 03/19/1215:07 | AC25-100 | AC25-96 | ICC003S | 03/16/1210:15 | 03/16/12 |
| DUP-01-NBZ-QC-031612 | C156-07 | 0.857J | 1 | 9.5 | 1.10 | 0.552 | 03/21/1214:09 | 03/19/1215:07 | AC25-101 | AC25-96 | ICC003S | 03/16/1210:25 | 03/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC003SB | ICC003SL | ICC003SC | | |
| LAB FILE ID: | AC25-74 | AC25-75 | AC25-76 | | |
| DATE EXTRACTED: | 03/19/1215:07 | 03/19/1215:07 | 03/19/1215:07 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/21/1206:52 | 03/21/1207:08 | 03/21/1207:25 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | ICC003S | ICC003S | ICC003S | | |
| CALIB. REF: | AC25-72 | AC25-72 | AC25-72 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 5.91 | 99 | 6.00 | 5.92 | 99 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: 300.0

MATRIX: SOIL % MOISTURE: 8.9

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-068-NBZ-SB-2.5-3.5 | | | | |
| LAB SAMP ID: | C156-04 | C156-04M | C156-04S | | |
| LAB FILE ID: | AC25-98 | AC25-99 | AC25-100 | | |
| DATE EXTRACTED: | 03/19/1215:07 | 03/19/1215:07 | 03/19/1215:07 | DATE COLLECTED: | 03/16/12 10:15 |
| DATE ANALYZED: | 03/21/1213:20 | 03/21/1213:36 | 03/21/1213:53 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | ICC003S | ICC003S | ICC003S | | |
| CALIB. REF: | AC25-96 | AC25-96 | AC25-96 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | 0.847 | 6.59 | 7.51 | 101 | 6.59 | 7.51 | 101 | 0 | 80-120 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C156
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC003SB | ND | 1 | NA | 1.50 | 0.750 | 03/21/1206:52 | 03/19/1215:07 | AC25-74 | AC25-72 | ICC003S | NA | 03/19/12 |
| LCS1S | ICC003SL | 25.6 | 1 | NA | 1.50 | 0.750 | 03/21/1207:08 | 03/19/1215:07 | AC25-75 | AC25-72 | ICC003S | NA | 03/19/12 |
| LCD1S | ICC003SC | 25.5 | 1 | NA | 1.50 | 0.750 | 03/21/1207:25 | 03/19/1215:07 | AC25-76 | AC25-72 | ICC003S | NA | 03/19/12 |
| SL-067-NBZ-SB-1.5-2.5 | C156-02 | 0.962J | 1 | 7.9 | 1.63 | 0.814 | 03/21/1212:16 | 03/19/1215:07 | AC25-94 | AC25-84 | ICC003S | 03/16/1211:45 | 03/16/12 |
| SL-072-NBZ-SB-4.0-5.0 | C156-06 | 2.74 | 1 | 10.6 | 1.68 | 0.839 | 03/21/1212:32 | 03/19/1215:07 | AC25-95 | AC25-84 | ICC003S | 03/16/1214:45 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5 | C156-04 | 4.19 | 1 | 8.9 | 1.65 | 0.823 | 03/21/1213:20 | 03/19/1215:07 | AC25-98 | AC25-96 | ICC003S | 03/16/1210:15 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5MS | C156-04M | 33.5 | 1 | 8.9 | 1.65 | 0.823 | 03/21/1213:36 | 03/19/1215:07 | AC25-99 | AC25-96 | ICC003S | 03/16/1210:15 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5MSD | C156-04S | 33.6 | 1 | 8.9 | 1.65 | 0.823 | 03/21/1213:53 | 03/19/1215:07 | AC25-100 | AC25-96 | ICC003S | 03/16/1210:15 | 03/16/12 |
| DUP-01-NBZ-QC-031612 | C156-07 | 5.74 | 1 | 9.5 | 1.66 | 0.829 | 03/21/1214:09 | 03/19/1215:07 | AC25-101 | AC25-96 | ICC003S | 03/16/1210:25 | 03/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC003SB | ICC003SL | ICC003SC | | |
| LAB FILE ID: | AC25-74 | AC25-75 | AC25-76 | | |
| DATE EXTRACTED: | 03/19/1215:07 | 03/19/1215:07 | 03/19/1215:07 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/21/1206:52 | 03/21/1207:08 | 03/21/1207:25 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | ICC003S | ICC003S | ICC003S | | |
| CALIB. REF: | AC25-72 | AC25-72 | AC25-72 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 25.6 | 96 | 26.6 | 25.5 | 96 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: 300.0

MATRIX: SOIL % MOISTURE: 8.9
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-068-NBZ-SB-2.5-3.5
LAB SAMP ID: C156-04 C156-04M C156-04S
LAB FILE ID: AC25-98 AC25-99 AC25-100
DATE EXTRACTED: 03/19/1215:07 03/19/1215:07 03/19/1215:07 DATE COLLECTED: 03/16/12 10:15
DATE ANALYZED: 03/21/1213:20 03/21/1213:36 03/21/1213:53 DATE RECEIVED: 03/16/12
PREP. BATCH: ICC003S ICC003S ICC003S
CALIB. REF: AC25-96 AC25-96 AC25-96

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | 4.19 | 29.2 | 33.5 | 101 | 29.2 | 33.6 | 101 | 0 | 80-120 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C156

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCC005SB | ND | 1 | NA | 20.0 | 10.0 | 03/20/1210:55 | 03/19/12 | JC20002 | JC20001 | PCC005S | NA | 03/19/12 |
| LCS1S | PCC005SL | 244 | 1 | NA | 20.0 | 10.0 | 03/20/1212:06 | 03/19/12 | JC20004 | JC20001 | PCC005S | NA | 03/19/12 |
| LCD1S | PCC005SC | 256 | 1 | NA | 20.0 | 10.0 | 03/20/1212:28 | 03/19/12 | JC20005 | JC20001 | PCC005S | NA | 03/19/12 |
| SL-067-NBZ-SB-1.5-2.5 | C156-02 | ND | 1 | 7.9 | 21.7 | 10.9 | 03/20/1222:14 | 03/19/12 | JC20030 | JC20023 | PCC005S | 03/16/1211:45 | 03/16/12 |
| SL-072-NBZ-SB-4.0-5.0 | C156-06 | ND | 1 | 10.6 | 22.4 | 11.2 | 03/20/1222:35 | 03/19/12 | JC20031 | JC20023 | PCC005S | 03/16/1214:45 | 03/16/12 |
| DUP-01-NBZ-QC-031612 | C156-07 | ND | 1 | 9.5 | 22.1 | 11.0 | 03/20/1222:56 | 03/19/12 | JC20032 | JC20023 | PCC005S | 03/16/1210:25 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5 | C156-04 | ND | 1 | 8.9 | 22.0 | 11.0 | 03/20/1223:59 | 03/19/12 | JC20035 | JC20034 | PCC005S | 03/16/1210:15 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5MS | C156-04M | 280 | 1 | 8.9 | 22.0 | 11.0 | 03/21/1200:20 | 03/19/12 | JC20036 | JC20034 | PCC005S | 03/16/1210:15 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5MSD | C156-04S | 278 | 1 | 8.9 | 22.0 | 11.0 | 03/21/1200:41 | 03/19/12 | JC20037 | JC20034 | PCC005S | 03/16/1210:15 | 03/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCC005SB | PCC005SL | PCC005SC | | |
| LAB FILE ID: | JC20002 | JC20004 | JC20005 | | |
| DATE EXTRACTED: | 03/19/12 | 03/19/12 | 03/19/12 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/20/1210:55 | 03/20/1212:06 | 03/20/1212:28 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | PCC005S | PCC005S | PCC005S | | |
| CALIB. REF: | JC20001 | JC20001 | JC20001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 244 | 98 | 250 | 256 | 102 | 5 | 85-115 | 15 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 8.9 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-068-NBZ-SB-2.5-3.5 | | | | |
| LAB SAMP ID: | C156-04 | C156-04M | C156-04S | | |
| LAB FILE ID: | JC20035 | JC20036 | JC20037 | | |
| DATE EXTRACTED: | 03/19/12 | 03/19/12 | 03/19/12 | DATE COLLECTED: | 03/16/12 10:15 |
| DATE ANALYZED: | 03/20/1223:59 | 03/21/1200:20 | 03/21/1200:41 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | PCC005S | PCC005S | PCC005S | | |
| CALIB. REF: | JC20034 | JC20034 | JC20034 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 274 | 280 | 102 | 274 | 278 | 101 | 1 | 80-120 | 20 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C156
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCC005SB | ND | 1 | NA | 1.00 | 0.500 | 03/26/1216:39 | 03/23/1217:42 | IC27013 | IC27011 | HCC005S | NA | 03/23/12 |
| MBLK1S | HCC005SQ | ND | 1 | NA | 1.00 | 0.500 | 03/26/1216:49 | 03/23/1217:42 | IC27014 | IC27011 | HCC005S | NA | 03/23/12 |
| LCS1S | CSC005SL | 8.89 | 1 | NA | 1.00 | 0.500 | 03/26/1216:59 | 03:23/1217:42 | IC27015 | IC27011 | CSC005S | NA | 03:23/12 |
| LCS1S | CSC005SX | 10.2 | 1 | NA | 1.00 | 0.500 | 03/26/1217:10 | 03:23/1217:42 | IC27016 | IC27011 | CSC005S | NA | 03:23/12 |
| LCS2S | CIC005SL | 309 | 20 | NA | 20.0 | 10.0 | 03/26/1217:20 | 03/23/1217:42 | IC27017 | IC27011 | CIC005S | NA | 03/23/12 |
| LCS2S | CIC005SX | 299 | 20 | NA | 20.0 | 10.0 | 03/26/1217:31 | 03/23/1217:42 | IC27018 | IC27011 | CIC005S | NA | 03/23/12 |
| SL-067-NBZ-SB-1.5-2.5 | C156-02 | ND | 1 | 7.9 | 1.09 | 0.543 | 03/26/1217:41 | 03/23/1217:42 | IC27019 | IC27011 | CIC005S | 03/16/1211:45 | 03/16/12 |
| SL-067-NBZ-SB-1.5-2.5 | C156-02R | ND | 1 | 7.9 | 1.09 | 0.543 | 03/26/1217:51 | 03/23/1217:42 | IC27020 | IC27011 | CIC005S | 03/16/1211:45 | 03/16/12 |
| SL-072-NBZ-SB-4.0-5.0 | C156-06 | ND | 1 | 10.6 | 1.12 | 0.559 | 03/26/1218:02 | 03/23/1217:42 | IC27021 | IC27011 | CIC005S | 03/16/1214:45 | 03/16/12 |
| SL-072-NBZ-SB-4.0-5.0 | C156-06R | ND | 1 | 10.6 | 1.12 | 0.559 | 03/26/1218:12 | 03/23/1217:42 | IC27022 | IC27011 | CIC005S | 03/16/1214:45 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5 | C156-04 | ND | 1 | 8.9 | 1.10 | 0.549 | 03/26/1218:43 | 03/23/1217:42 | IC27025 | IC27023 | CIC005S | 03/16/1210:15 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5 | C156-04R | ND | 1 | 8.9 | 1.10 | 0.549 | 03/26/1218:54 | 03/23/1217:42 | IC27026 | IC27023 | CIC005S | 03/16/1210:15 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5MS | C156-04M | 10.8 | 1 | 8.9 | 1.10 | 0.549 | 03/26/1219:04 | 03/23/1217:42 | IC27027 | IC27023 | CIC005S | 03/16/1210:15 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5MS | C156-04M1 | 10.7 | 1 | 8.9 | 1.10 | 0.549 | 03/26/1219:15 | 03/23/1217:42 | IC27028 | IC27023 | HCC005S | 03/16/1210:15 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5MSD | C156-04S | 10.6 | 1 | 8.9 | 1.10 | 0.549 | 03/26/1219:25 | 03/23/1217:42 | IC27029 | IC27023 | CIC005S | 03/16/1210:15 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5MSD | C156-04S1 | 10.8 | 1 | 8.9 | 1.10 | 0.549 | 03/26/1219:35 | 03/23/1217:42 | IC27030 | IC27023 | HCC005S | 03/16/1210:15 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5MS | C156-04G | 414 | 10 | 8.9 | 11.0 | 5.49 | 03/26/1219:46 | 03/23/1217:42 | IC27031 | IC27023 | CIC005S | 03/16/1210:15 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5MS | C156-04G1 | 409 | 10 | 8.9 | 11.0 | 5.49 | 03/26/1219:56 | 03/23/1217:42 | IC27032 | IC27023 | HCC005S | 03/16/1210:15 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5MSD | C156-04H | 395 | 10 | 8.9 | 11.0 | 5.49 | 03/26/1220:07 | 03/23/1217:42 | IC27033 | IC27023 | CIC005S | 03/16/1210:15 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5MSD | C156-04H1 | 422 | 10 | 8.9 | 11.0 | 5.49 | 03/26/1220:17 | 03/23/1217:42 | IC27034 | IC27023 | HCC005S | 03/16/1210:15 | 03/16/12 |
| DUP-01-NBZ-QC-031612 | C156-07 | ND | 1 | 9.5 | 1.10 | 0.552 | 03/26/1220:48 | 03/23/1217:42 | IC27037 | IC27035 | CIC005S | 03/16/1210:25 | 03/16/12 |
| DUP-01-NBZ-QC-031612 | C156-07R | ND | 1 | 9.5 | 1.10 | 0.552 | 03/26/1220:59 | 03/23/1217:42 | IC27038 | IC27035 | CIC005S | 03/16/1210:25 | 03/16/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCC005SB CIC005SL
LAB FILE ID: IC27013 IC27017
DATE EXTRACTED: 03/23/1217:42 03/23/1217:42 DATE COLLECTED: NA
DATE ANALYZED: 03/26/1216:39 03/26/1217:20 DATE RECEIVED: 03/23/12
PREP. BATCH: HCC005S CIC005S
CALIB. REF: IC27011 IC27011

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 329 | 309 | 94 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCC005SQ CIC005SX
LAB FILE ID: IC27014 IC27018
DATE EXTRACTED: 03/23/1217:42 03/23/1217:42 DATE COLLECTED: NA
DATE ANALYZED: 03/26/1216:49 03/26/1217:31 DATE RECEIVED: 03/23/12
PREP. BATCH: HCC005S CIC005S
CALIB. REF: IC27011 IC27011

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 329 | 299 | 91 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCC005SB | CSC005SL | | |
| LAB FILE ID: | IC27013 | IC27015 | | |
| DATE EXTRACTED: | 03/23/1217:42 | 03:23/1217:42 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/26/1216:39 | 03/26/1216:59 | DATE RECEIVED: | 03:23/12 |
| PREP. BATCH: | HCC005S | CSC005S | | |
| CALIB. REF: | IC27011 | IC27011 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 8.89 | 89 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: HCC005SQ CSC005SX
LAB FILE ID: IC27014 IC27016
DATE EXTRACTED: 03/23/1217:42 03:23/1217:42 DATE COLLECTED: NA
DATE ANALYZED: 03/26/1216:49 03/26/1217:10 DATE RECEIVED: 03:23/12
PREP. BATCH: HCC005S CSC005S
CALIB. REF: IC27011 IC27011

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 10.2 | 102 | 80-120 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: 7199

MATRIX: SOIL % MOISTURE: 8.9
DILUTION FACTOR: 1 10 10
SAMPLE ID: SL-068-NBZ-SB-2.5-3.5
LAB SAMP ID: C156-04 C156-04G C156-04H
LAB FILE ID: IC27025 IC27031 IC27033
DATE EXTRACTED: 03/23/1217:42 03/23/1217:42 03/23/1217:42 DATE COLLECTED: 03/16/12 10:15
DATE ANALYZED: 03/26/1218:43 03/26/1219:46 03/26/1220:07 DATE RECEIVED: 03/16/12
PREP. BATCH: CIC005S CIC005S CIC005S
CALIB. REF: IC27023 IC27023 IC27023

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 467 | 414 | 89 | 445 | 395 | 89 | 5 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C156
METHOD: 7199

MATRIX: SOIL % MOISTURE: 8.9
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-068-NBZ-SB-2.5-3.5
LAB SAMP ID: C156-04 C156-04M C156-04S
LAB FILE ID: IC27025 IC27027 IC27029
DATE EXTRACTED: 03/23/1217:42 03/23/1217:42 03/23/1217:42 DATE COLLECTED: 03/16/12 10:15
DATE ANALYZED: 03/26/1218:43 03/26/1219:04 03/26/1219:25 DATE RECEIVED: 03/16/12
PREP. BATCH: CIC005S CIC005S CIC005S
CALIB. REF: IC27023 IC27023 IC27023

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 11.0 | 10.8 | 99 | 11.0 | 10.6 | 97 | 2 | 75-125 | 20 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C156

Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CNC009SB | ND | 1 | NA | 0.500 | 0.250 | 03/22/1218:03 | 03/22/1210:51 | CNC00910 | CNC00908 | CNC009S | NA | 03/22/12 |
| LCS1S | CNC009SL | 2.29 | 1 | NA | 0.500 | 0.250 | 03/22/1218:03 | 03/22/1210:51 | CNC00911 | CNC00908 | CNC009S | NA | 03/22/12 |
| LCD1S | CNC009SC | 2.25 | 1 | NA | 0.500 | 0.250 | 03/22/1218:03 | 03/22/1210:51 | CNC00912 | CNC00908 | CNC009S | NA | 03/22/12 |
| SL-067-NBZ-SB-1.5-2.5 | C156-02 | ND | 1 | 7.9 | 0.543 | 0.271 | 03/22/1218:04 | 03/22/1210:51 | CNC00913 | CNC00908 | CNC009S | 03/16/1211:45 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5 | C156-04 | ND | 1 | 8.9 | 0.549 | 0.274 | 03/22/1218:04 | 03/22/1210:51 | CNC00914 | CNC00908 | CNC009S | 03/16/1210:15 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5MS | C156-04M | 2.88 | 1 | 8.9 | 0.549 | 0.274 | 03/22/1218:04 | 03/22/1210:51 | CNC00915 | CNC00908 | CNC009S | 03/16/1210:15 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5MSD | C156-04S | 2.90 | 1 | 8.9 | 0.549 | 0.274 | 03/22/1218:04 | 03/22/1210:51 | CNC00916 | CNC00908 | CNC009S | 03/16/1210:15 | 03/16/12 |
| SL-072-NBZ-SB-4.0-5.0 | C156-06 | ND | 1 | 10.6 | 0.559 | 0.280 | 03/22/1218:05 | 03/22/1210:51 | CNC00917 | CNC00908 | CNC009S | 03/16/1214:45 | 03/16/12 |
| DUP-01-NBZ-QC-031612 | C156-07 | ND | 1 | 9.5 | 0.552 | 0.276 | 03/22/1218:05 | 03/22/1210:51 | CNC00918 | CNC00908 | CNC009S | 03/16/1210:25 | 03/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C156
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CNC009SL/C

DATE RECEIVED: 03/22/12
DATE EXTRACTED: 03/22/1210:51
DATE ANALYZED: 03/22/1218:03/18:03

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.29 | 92 | 2.50 | 2.25 | 90 | 2 | 85-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: 8.9

BATCH NO.: 12C156
SAMPLE ID: SL-068-NBZ-SB-2.5-3.5MS/MSD
CONTROL NO.: C156-04M/S

DATE RECEIVED: 03/16/12
DATE EXTRACTED: 03/22/1210:51
DATE ANALYZED: 03/22/1218:04/18:04

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.72 | 2.88 | 106 | 2.72 | 2.90 | 107 | 1 | 75-125 | 20 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C156
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-067-NBZ-SB-1.5-2.5 | C156-02 | 6.63 | 1 | NA | NA | NA | 03/17/1212:12 | 03/17/1212:12 | 12PHC012S01 | PHC012S | PHC012S | 03/16/1211:45 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5 | C156-04 | 6.66 | 1 | NA | NA | NA | 03/17/1212:15 | 03/17/1212:12 | 12PHC012S02 | PHC012S | PHC012S | 03/16/1210:15 | 03/16/12 |
| SL-068-NBZ-SB-2.5-3.5DUP | C156-04D | 6.69 | 1 | NA | NA | NA | 03/17/1212:18 | 03/17/1212:12 | 12PHC012S03 | PHC012S | PHC012S | 03/16/1210:15 | 03/16/12 |
| SL-072-NBZ-SB-4.0-5.0 | C156-06 | 5.99 | 1 | NA | NA | NA | 03/17/1212:22 | 03/17/1212:12 | 12PHC012S04 | PHC012S | PHC012S | 03/16/1214:45 | 03/16/12 |
| DUP-01-NBZ-QC-031612 | C156-07 | 6.57 | 1 | NA | NA | NA | 03/17/1212:25 | 03/17/1212:12 | 12PHC012S05 | PHC012S | PHC012S | 03/16/1210:25 | 03/16/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C156 DATE RECEIVED: 03/16/12
SAMPLE ID: SL-068-NBZ-SB-2.5-3.5DUP DATE EXTRACTED: 03/17/12 12:12
CONTROL NO.: C156-04D DATE ANALYZED: 03/17/12 12:18

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | QC LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 6.66 | 6.69 | 0.03 | 0.1 |

# SAMPLE DELIVERY GROUP

# 12C164

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/24/12 14:16 |
| Sample ID: SL-071-NBZ-SB-4.0-5.0 | Date Analyzed: 03/27/12 21:36 |
| Lab Samp ID: C164-02 | Dilution Factor: 1 |
| Lab File ID: RCH123 | Matrix : SOIL |
| Ext Btch ID: SVC034S | % Moisture : 4.4 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 88 |
| 1,2-DICHLOROBENZENE | ND | 170 | 88 |
| 1,3-DICHLOROBENZENE | ND | 170 | 88 |
| 1,4-DICHLOROBENZENE | ND | 170 | 88 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 88 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 88 |
| 2,4-DICHLOROPHENOL | ND | 170 | 88 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 88 |
| 2,4-DINITROPHENOL | ND | 350 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 88 |
| 2,6-DINITROTOLUENE | ND | 170 | 88 |
| 2-CHLORONAPHTHALENE | ND | 170 | 88 |
| 2-CHLOROPHENOL | ND | 170 | 88 |
| 2-METHYLNAPHTHALENE | ND | 170 | 88 |
| 2-METHYLPHENOL | ND | 170 | 88 |
| 2-NITROANILINE | ND | 170 | 88 |
| 2-NITROPHENOL | ND | 170 | 88 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 88 |
| 3-NITROANILINE | ND | 170 | 88 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 88 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 88 |
| 4-CHLOROANILINE | ND | 170 | 88 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 88 |
| 4-METHYLPHENOL (1) | ND | 170 | 88 |
| 4-NITROANILINE | ND | 170 | 88 |
| 4-NITROPHENOL | ND | 350 | 170 |
| ACENAPHTHENE | ND | 170 | 88 |
| ACENAPHTHYLENE | ND | 170 | 88 |
| ANTHRACENE | ND | 170 | 88 |
| BENZO(A)ANTHRACENE | ND | 170 | 88 |
| BENZO(A)PYRENE | ND | 170 | 88 |
| BENZO(B)FLUORANTHENE | ND | 170 | 88 |
| BENZO(K)FLUORANTHENE | ND | 170 | 88 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 88 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 88 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 88 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 88 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 88 |
| CHRYSENE | ND | 170 | 88 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 88 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 88 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 88 |
| DIBENZOFURAN | ND | 170 | 88 |
| DIETHYLPHTHALATE | ND | 170 | 88 |
| DIMETHYLPHTHALATE | ND | 170 | 88 |
| FLUORANTHENE | ND | 170 | 88 |
| FLUORENE | ND | 170 | 88 |
| HEXACHLOROBENZENE | ND | 170 | 88 |
| HEXACHLOROBUTADIENE | ND | 170 | 88 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 88 |
| HEXACHLOROETHANE | ND | 170 | 88 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 88 |
| ISOPHORONE | ND | 170 | 88 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 88 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 88 |
| NAPHTHALENE | ND | 170 | 88 |
| NITROBENZENE | ND | 170 | 88 |
| PENTACHLOROPHENOL | ND | 350 | 170 |
| PHENANTHRENE | ND | 170 | 88 |
| PHENOL | ND | 170 | 88 |
| PYRENE | ND | 170 | 88 |
| BENZYL ALCOHOL | ND | 170 | 88 |
| 1-METHYLNAPHTHALENE | ND | 170 | 88 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 88 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 88 |
| ANILINE | ND | 350 | 170 |
| BENZIDINE | ND | 870 | 440 |
| BENZOIC ACID | ND | 700 | 350 |
| CARBAZOLE | ND | 170 | 88 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 88 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 716 | 1046 | 68.5 | 35-130 |
| 2-FLUOROBIPHENYL | 198 | 348.6 | 56.7 | 45-130 |
| 2-FLUOROPHENOL | 639 | 1046 | 61.1 | 25-130 |
| NITROBENZENE-D5 | 231 | 348.6 | 66.3 | 40-130 |
| PHENOL-D5 | 680 | 1046 | 65.0 | 25-120 |
| TERPHENYL-D14 | 355 | 348.6 | 102 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/24/12 14:16 |
| Sample ID: SL-074-NBZ-SB-0.5-1.5 | Date Analyzed: 03/27/12 21:54 |
| Lab Samp ID: C164-04 | Dilution Factor: 1 |
| Lab File ID: RCH124 | Matrix : SOIL |
| Ext Btch ID: SVC034S | % Moisture : 3.7 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 87 |
| 1,2-DICHLOROBENZENE | ND | 170 | 87 |
| 1,3-DICHLOROBENZENE | ND | 170 | 87 |
| 1,4-DICHLOROBENZENE | ND | 170 | 87 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 87 |
| 2,4-DINITROPHENOL | ND | 350 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 87 |
| 2,6-DINITROTOLUENE | ND | 170 | 87 |
| 2-CHLORONAPHTHALENE | ND | 170 | 87 |
| 2-CHLOROPHENOL | ND | 170 | 87 |
| 2-METHYLNAPHTHALENE | ND | 170 | 87 |
| 2-METHYLPHENOL | ND | 170 | 87 |
| 2-NITROANILINE | ND | 170 | 87 |
| 2-NITROPHENOL | ND | 170 | 87 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 87 |
| 3-NITROANILINE | ND | 170 | 87 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 87 |
| 4-CHLOROANILINE | ND | 170 | 87 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-METHYLPHENOL (1) | ND | 170 | 87 |
| 4-NITROANILINE | ND | 170 | 87 |
| 4-NITROPHENOL | ND | 350 | 170 |
| ACENAPHTHENE | ND | 170 | 87 |
| ACENAPHTHYLENE | ND | 170 | 87 |
| ANTHRACENE | ND | 170 | 87 |
| BENZO(A)ANTHRACENE | ND | 170 | 87 |
| BENZO(A)PYRENE | ND | 170 | 87 |
| BENZO(B)FLUORANTHENE | ND | 170 | 87 |
| BENZO(K)FLUORANTHENE | ND | 170 | 87 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 87 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 87 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 87 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 87 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 87 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 87 |
| CHRYSENE | ND | 170 | 87 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 87 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 87 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 87 |
| DIBENZOFURAN | ND | 170 | 87 |
| DIETHYLPHTHALATE | ND | 170 | 87 |
| DIMETHYLPHTHALATE | ND | 170 | 87 |
| FLUORANTHENE | ND | 170 | 87 |
| FLUORENE | ND | 170 | 87 |
| HEXACHLOROBENZENE | ND | 170 | 87 |
| HEXACHLOROBUTADIENE | ND | 170 | 87 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 87 |
| HEXACHLOROETHANE | ND | 170 | 87 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 87 |
| ISOPHORONE | ND | 170 | 87 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 87 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 87 |
| NAPHTHALENE | ND | 170 | 87 |
| NITROBENZENE | ND | 170 | 87 |
| PENTACHLOROPHENOL | ND | 350 | 170 |
| PHENANTHRENE | ND | 170 | 87 |
| PHENOL | ND | 170 | 87 |
| PYRENE | ND | 170 | 87 |
| BENZYL ALCOHOL | ND | 170 | 87 |
| 1-METHYLNAPHTHALENE | ND | 170 | 87 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 87 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 87 |
| ANILINE | ND | 350 | 170 |
| BENZIDINE | ND | 860 | 440 |
| BENZOIC ACID | ND | 690 | 350 |
| CARBAZOLE | ND | 170 | 87 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 87 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 966 | 1038 | 93.0 | 35-130 |
| 2-FLUOROBIPHENYL | 249 | 346.1 | 72.0 | 45-130 |
| 2-FLUOROPHENOL | 820 | 1038 | 79.0 | 25-130 |
| NITROBENZENE-D5 | 265 | 346.1 | 76.4 | 40-130 |
| PHENOL-D5 | 866 | 1038 | 83.4 | 25-120 |
| TERPHENYL-D14 | 357 | 346.1 | 103 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/24/12 14:16 |
| Sample ID: SL-073-NBZ-SB-4.0-5.0 | Date Analyzed: 03/27/12 22:13 |
| Lab Samp ID: C164-06 | Dilution Factor: 1 |
| Lab File ID: RCH125 | Matrix : SOIL |
| Ext Btch ID: SVC034S | % Moisture : 7.3 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 450 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 767 | 1079 | 71.1 | 35-130 |
| 2-FLUOROBIPHENYL | 205 | 359.5 | 57.1 | 45-130 |
| 2-FLUOROPHENOL | 691 | 1079 | 64.1 | 25-130 |
| NITROBENZENE-D5 | 238 | 359.5 | 66.1 | 40-130 |
| PHENOL-D5 | 737 | 1079 | 68.3 | 25-120 |
| TERPHENYL-D14 | 304 | 359.5 | 84.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/24/12 14:16 |
| Sample ID: SL-073-NBZ-SB-9.0-10.0 | Date Analyzed: 03/29/12 01:15 |
| Lab Samp ID: C164-08 | Dilution Factor: 1 |
| Lab File ID: RCH160 | Matrix : SOIL |
| Ext Btch ID: SVC034S | % Moisture : 9.2 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 93 |
| 1,2-DICHLOROBENZENE | ND | 180 | 93 |
| 1,3-DICHLOROBENZENE | ND | 180 | 93 |
| 1,4-DICHLOROBENZENE | ND | 180 | 93 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 93 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 93 |
| 2,6-DINITROTOLUENE | ND | 180 | 93 |
| 2-CHLORONAPHTHALENE | ND | 180 | 93 |
| 2-CHLOROPHENOL | ND | 180 | 93 |
| 2-METHYLNAPHTHALENE | ND | 180 | 93 |
| 2-METHYLPHENOL | ND | 180 | 93 |
| 2-NITROANILINE | ND | 180 | 93 |
| 2-NITROPHENOL | ND | 180 | 93 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 93 |
| 3-NITROANILINE | ND | 180 | 93 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 93 |
| 4-CHLOROANILINE | ND | 180 | 93 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-METHYLPHENOL (1) | ND | 180 | 93 |
| 4-NITROANILINE | ND | 180 | 93 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 93 |
| ACENAPHTHYLENE | ND | 180 | 93 |
| ANTHRACENE | ND | 180 | 93 |
| BENZO(A)ANTHRACENE | ND | 180 | 93 |
| BENZO(A)PYRENE | ND | 180 | 93 |
| BENZO(B)FLUORANTHENE | ND | 180 | 93 |
| BENZO(K)FLUORANTHENE | ND | 180 | 93 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 93 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 93 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 93 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 93 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 93 |
| CHRYSENE | ND | 180 | 93 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 93 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 93 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 93 |
| DIBENZOFURAN | ND | 180 | 93 |
| DIETHYLPHTHALATE | ND | 180 | 93 |
| DIMETHYLPHTHALATE | ND | 180 | 93 |
| FLUORANTHENE | ND | 180 | 93 |
| FLUORENE | ND | 180 | 93 |
| HEXACHLOROBENZENE | ND | 180 | 93 |
| HEXACHLOROBUTADIENE | ND | 180 | 93 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 93 |
| HEXACHLOROETHANE | ND | 180 | 93 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 93 |
| ISOPHORONE | ND | 180 | 93 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 93 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 93 |
| NAPHTHALENE | ND | 180 | 93 |
| NITROBENZENE | ND | 180 | 93 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 93 |
| PHENOL | ND | 180 | 93 |
| PYRENE | ND | 180 | 93 |
| BENZYL ALCOHOL | ND | 180 | 93 |
| 1-METHYLNAPHTHALENE | ND | 180 | 93 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 93 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 93 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 370 |
| CARBAZOLE | ND | 180 | 93 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 93 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 969 | 1101 | 87.9 | 35-130 |
| 2-FLUOROBIPHENYL | 250 | 367.1 | 68.1 | 45-130 |
| 2-FLUOROPHENOL | 768 | 1101 | 69.7 | 25-130 |
| NITROBENZENE-D5 | 266 | 367.1 | 72.5 | 40-130 |
| PHENOL-D5 | 914 | 1101 | 83.0 | 25-120 |
| TERPHENYL-D14 | 436 | 367.1 | 119 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/24/12 |
| Batch No. : 12C164 | Date Extracted: 03/24/12 14:16 |
| Sample ID: MBLK1S | Date Analyzed: 03/26/12 17:56 |
| Lab Samp ID: SVC034SB | Dilution Factor: 1 |
| Lab File ID: RCH056 | Matrix : SOIL |
| Ext Btch ID: SVC034S | % Moisture : NA |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 638 | 1000 | 63.8 | 35-130 |
| 2-FLUOROBIPHENYL | 256 | 333.3 | 76.9 | 45-130 |
| 2-FLUOROPHENOL | 863 | 1000 | 86.3 | 25-130 |
| NITROBENZENE-D5 | 263 | 333.3 | 79.0 | 40-130 |
| PHENOL-D5 | 860 | 1000 | 86.0 | 25-120 |
| TERPHENYL-D14 | 335 | 333.3 | 101 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C164
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVC034SB SVC034SL SVC034SC
LAB FILE ID: RCH056 RCH057 RCH058
DATE EXTRACTED: 03/24/1214:16 03/24/1214:16 03/24/1214:16 DATE COLLECTED: NA
DATE ANALYZED: 03/26/1217:56 03/26/1218:15 03/26/1218:33 DATE RECEIVED: 03/24/12
PREP. BATCH: SVC034S SVC034S SVC034S
CALIB. REF: RCH007 RCH007 RCH007

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 481 | 72 | 667 | 425 | 64 | 12 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 507 | 76 | 667 | 464 | 70 | 9 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 508 | 76 | 667 | 445 | 67 | 13 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 511 | 77 | 667 | 452 | 68 | 12 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 486 | 73 | 667 | 459 | 69 | 6 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 525 | 79 | 667 | 520 | 78 | 1 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 541 | 81 | 667 | 512 | 77 | 5 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 568 | 85 | 667 | 517 | 78 | 9 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 364 | 55 | 667 | 340 | 51 | 7 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 658 | 99 | 667 | 602 | 90 | 9 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 585 | 88 | 667 | 535 | 80 | 9 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 528 | 79 | 667 | 530 | 80 | 0 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 523 | 78 | 667 | 480 | 72 | 8 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 606 | 91 | 667 | 555 | 83 | 9 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 509 | 76 | 667 | 475 | 71 | 7 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 560 | 84 | 667 | 508 | 76 | 10 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 479 | 72 | 667 | 464 | 70 | 3 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 559 | 84 | 667 | 540 | 81 | 3 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 527 | 79 | 667 | 505 | 76 | 4 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 449 | 67 | 667 | 483 | 72 | 7 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 623 | 93 | 667 | 590 | 89 | 5 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 541 | 81 | 667 | 517 | 77 | 5 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 482 | 72 | 667 | 444 | 67 | 8 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 623 | 94 | 667 | 565 | 85 | 10 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 553 | 83 | 667 | 499 | 75 | 10 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 646 | 97 | 667 | 590 | 88 | 9 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 608 | 91 | 667 | 585 | 88 | 4 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 613 | 92 | 667 | 563 | 85 | 8 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 604 | 91 | 667 | 567 | 85 | 6 | 30-130 | 50 |
| Anthracene | ND | 667 | 622 | 93 | 667 | 577 | 87 | 7 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 766 | 115 | 667 | 738 | 111 | 4 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 629 | 94 | 667 | 592 | 89 | 6 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 693 | 104 | 667 | 643 | 96 | 7 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 699 | 105 | 667 | 658 | 99 | 6 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 671 | 101 | 667 | 634 | 95 | 6 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 600 | 90 | 667 | 552 | 83 | 8 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 600 | 90 | 667 | 551 | 83 | 9 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 625 | 94 | 667 | 559 | 84 | 11 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 624 | 94 | 667 | 609 | 91 | 2 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 611 | 92 | 667 | 599 | 90 | 2 | 40-150 | 50 |
| Chrysene | ND | 667 | 712 | 107 | 667 | 675 | 101 | 5 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 648 | 97 | 667 | 617 | 93 | 5 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 601 | 90 | 667 | 581 | 87 | 3 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 727 | 109 | 667 | 685 | 103 | 6 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 579 | 87 | 667 | 541 | 81 | 7 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 614 | 92 | 667 | 550 | 83 | 11 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 591 | 89 | 667 | 532 | 80 | 11 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 720 | 108 | 667 | 683 | 102 | 5 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 637 | 96 | 667 | 578 | 87 | 10 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 573 | 86 | 667 | 553 | 83 | 3 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 498 | 75 | 667 | 455 | 68 | 9 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 399 | 60 | 667 | 354 | 53 | 12 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 509 | 76 | 667 | 446 | 67 | 13 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 699 | 105 | 667 | 655 | 98 | 7 | 30-140 | 50 |
| Isophorone | ND | 667 | 591 | 89 | 667 | 555 | 83 | 6 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 489 | 73 | 667 | 469 | 70 | 4 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 448 | 67 | 667 | 421 | 63 | 6 | 30-140 | 50 |
| Naphthalene | ND | 667 | 605 | 91 | 667 | 544 | 82 | 11 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 594 | 89 | 667 | 535 | 80 | 10 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 567 | 85 | 667 | 521 | 78 | 8 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 644 | 97 | 667 | 616 | 92 | 5 | 30-130 | 50 |
| Phenol | ND | 667 | 574 | 86 | 667 | 515 | 77 | 11 | 30-130 | 50 |
| Pyrene | ND | 667 | 663 | 99 | 667 | 648 | 97 | 2 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 552 | 83 | 667 | 504 | 76 | 9 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 613 | 92 | 667 | 562 | 84 | 9 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 544 | 82 | 667 | 523 | 78 | 4 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 495 | 74 | 667 | 469 | 70 | 5 | 20-150 | 50 |
| Aniline | ND | 667 | 390 | 59 | 667 | 367 | 55 | 6 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1390 | 52 | 2670 | 1300 | 49 | 7 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 579J | 22 | 2670 | 515J | 19 | 12 | 10-130 | 50 |
| Carbazole | ND | 667 | 651 | 98 | 667 | 622 | 93 | 5 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 644 | 97 | 667 | 572 | 86 | 12 | 30-150 | 50 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 879 | 88 | 1000 | 834 | 83 | 35-130 |
| 2-Fluorobiphenyl | 333 | 247 | 74 | 333 | 224 | 67 | 45-130 |
| 2-Fluorophenol | 1000 | 835 | 83 | 1000 | 739 | 74 | 25-130 |
| Nitrobenzene-d5 | 333 | 270 | 81 | 333 | 235 | 71 | 40-130 |
| Phenol-d5 | 1000 | 824 | 82 | 1000 | 769 | 77 | 25-120 |
| Terphenyl-d14 | 333 | 335 | 101 | 333 | 323 | 97 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/24/12 14:16 |
| Sample ID: SL-071-NBZ-SB-4.0-5.0 | Date Analyzed: 03/27/12 21:36 |
| Lab Samp ID: C164-02 | Dilution Factor: 1 |
| Lab File ID: RCH123 | Matrix : SOIL |
| Ext Btch ID: SVC034S | % Moisture : 4.4 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.89 |
| ACENAPHTHYLENE | ND | 1.8 | 0.89 |
| ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)PYRENE | ND | 1.8 | 0.89 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.89 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.89 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.89 |
| CHRYSENE | ND | 1.8 | 0.89 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.89 |
| FLUORANTHENE | ND | 1.8 | 0.89 |
| FLUORENE | ND | 1.8 | 0.89 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.89 |
| NAPHTHALENE | ND | 1.8 | 0.89 |
| PHENANTHRENE | ND | 1.8 | 0.89 |
| PYRENE | ND | 1.8 | 0.89 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 9.5J | 17 | 8.8 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.8 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.8 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.8 |
| DIETHYLPHTHALATE | ND | 17 | 8.8 |
| DIMETHYLPHTHALATE | ND | 17 | 8.8 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.89 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 250 | 348.6 | 71.7 | 40-130 |
| 2-FLUOROBIPHENYL | 220 | 348.6 | 63.0 | 45-130 |
| TERPHENYL-D14 | 343 | 348.6 | 98.4 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/24/12 14:16 |
| Sample ID: SL-074-NBZ-SB-0.5-1.5 | Date Analyzed: 03/27/12 21:54 |
| Lab Samp ID: C164-04 | Dilution Factor: 1 |
| Lab File ID: RCH124 | Matrix : SOIL |
| Ext Btch ID: SVC034S | % Moisture : 3.7 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.88 |
| ACENAPHTHYLENE | ND | 1.8 | 0.88 |
| ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)PYRENE | ND | 1.8 | 0.88 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.88 |
| CHRYSENE | ND | 1.8 | 0.88 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.88 |
| FLUORANTHENE | ND | 1.8 | 0.88 |
| FLUORENE | ND | 1.8 | 0.88 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.88 |
| NAPHTHALENE | ND | 1.8 | 0.88 |
| PHENANTHRENE | ND | 1.8 | 0.88 |
| PYRENE | ND | 1.8 | 0.88 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.7 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.7 |
| DIETHYLPHTHALATE | ND | 17 | 8.7 |
| DIMETHYLPHTHALATE | ND | 17 | 8.7 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.88 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 305 | 346.1 | 88.2 | 40-130 |
| 2-FLUOROBIPHENYL | 273 | 346.1 | 78.9 | 45-130 |
| TERPHENYL-D14 | 353 | 346.1 | 102 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/24/12 14:16 |
| Sample ID: SL-073-NBZ-SB-4.0-5.0 | Date Analyzed: 03/27/12 22:13 |
| Lab Samp ID: C164-06 | Dilution Factor: 1 |
| Lab File ID: RCH125 | Matrix : SOIL |
| Ext Btch ID: SVC034S | % Moisture : 7.3 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | ND | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | ND | 1.8 | 0.92 |
| PYRENE | ND | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 261 | 359.5 | 72.7 | 40-130 |
| 2-FLUOROBIPHENYL | 232 | 359.5 | 64.4 | 45-130 |
| TERPHENYL-D14 | 302 | 359.5 | 84.0 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/24/12 14:16 |
| Sample ID: SL-073-NBZ-SB-9.0-10.0 | Date Analyzed: 03/29/12 01:15 |
| Lab Samp ID: C164-08 | Dilution Factor: 1 |
| Lab File ID: RCH160 | Matrix : SOIL |
| Ext Btch ID: SVC034S | % Moisture : 9.2 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.94 |
| ACENAPHTHYLENE | ND | 1.9 | 0.94 |
| ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)PYRENE | ND | 1.9 | 0.94 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.94 |
| CHRYSENE | ND | 1.9 | 0.94 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.94 |
| FLUORANTHENE | ND | 1.9 | 0.94 |
| FLUORENE | ND | 1.9 | 0.94 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.94 |
| NAPHTHALENE | ND | 1.9 | 0.94 |
| PHENANTHRENE | ND | 1.9 | 0.94 |
| PYRENE | ND | 1.9 | 0.94 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 9.3 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.3 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.3 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.3 |
| DIETHYLPHTHALATE | ND | 18 | 9.3 |
| DIMETHYLPHTHALATE | ND | 18 | 9.3 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.94 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 283 | 367.1 | 77.1 | 40-130 |
| 2-FLUOROBIPHENYL | 282 | 367.1 | 76.9 | 45-130 |
| TERPHENYL-D14 | 361 | 367.1 | 98.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/24/12 |
| Batch No. : 12C164 | Date Extracted: 03/24/12 14:16 |
| Sample ID: MBLK1S | Date Analyzed: 03/26/12 17:56 |
| Lab Samp ID: SVC034SB | Dilution Factor: 1 |
| Lab File ID: RCH056 | Matrix : SOIL |
| Ext Btch ID: SVC034S | % Moisture : NA |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 278 | 333.3 | 83.5 | 40-130 |
| 2-FLUOROBIPHENYL | 271 | 333.3 | 81.2 | 45-130 |
| TERPHENYL-D14 | 341 | 333.3 | 102 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C164
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVC034SB | SVC034SX | SVC034SY | | |
| LAB FILE ID: | RCH056 | RCH059 | RCH060 | | |
| DATE EXTRACTED: | 03/24/1214:16 | 03/24/1214:16 | 03/24/1214:16 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/26/1217:56 | 03/26/1218:51 | 03/26/1219:10 | DATE RECEIVED: | 03/24/12 |
| PREP. BATCH: | SVC034S | SVC034S | SVC034S | | |
| CALIB. REF: | RCH007 | RCH007 | RCH007 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 311 | 93 | 333 | 303 | 91 | 3 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 333 | 100 | 333 | 324 | 97 | 3 | 20-130 | 50 |
| Anthracene | ND | 333 | 325 | 98 | 333 | 308 | 93 | 5 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 363 | 109 | 333 | 359 | 108 | 1 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 324 | 97 | 333 | 314 | 94 | 3 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 348 | 104 | 333 | 359 | 108 | 3 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 371 | 111 | 333 | 351 | 105 | 6 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 362 | 109 | 333 | 355 | 107 | 2 | 30-140 | 50 |
| Chrysene | ND | 333 | 363 | 109 | 333 | 364 | 109 | 0 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 357 | 107 | 333 | 352 | 106 | 1 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 375 | 113 | 333 | 362 | 109 | 4 | 30-130 | 50 |
| Fluorene | ND | 333 | 333 | 100 | 333 | 324 | 97 | 3 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 356 | 107 | 333 | 352 | 106 | 1 | 20-160 | 50 |
| Naphthalene | ND | 333 | 306 | 92 | 333 | 290 | 87 | 6 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 328 | 98 | 333 | 312 | 94 | 5 | 20-130 | 50 |
| Pyrene | ND | 333 | 359 | 108 | 333 | 348 | 104 | 3 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 309 | 93 | 333 | 296 | 89 | 4 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 319 | 96 | 333 | 305 | 92 | 4 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 309 | 93 | 333 | 305 | 92 | 1 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 293 | 88 | 333 | 287 | 86 | 2 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 309 | 93 | 333 | 301 | 90 | 3 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 258 | 77 | 333 | 250 | 75 | 3 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 316 | 95 | 333 | 303 | 91 | 4 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 317 | 95 | 333 | 308 | 92 | 3 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 315 | 94 | 333 | 296 | 89 | 6 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 293 | 88 | 333 | 274 | 82 | 40-130 |
| 2-Fluorobiphenyl | 333 | 270 | 81 | 333 | 257 | 77 | 45-130 |
| Terphenyl-d14 | 333 | 361 | 108 | 333 | 349 | 105 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C164
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: 4.4

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-071-NBZ-SB-4.0-5.0 | | | | |
| LAB SAMP ID: | C164-02 | C164-02M | C164-02S | | |
| LAB FILE ID: | RCH123 | RCH121 | RCH122 | | |
| DATE EXTRACTED: | 03/24/1214:16 | 03/24/1214:16 | 03/24/1214:16 | DATE COLLECTED: | 03/19/12 |
| DATE ANALYZED: | 03/27/1221:36 | 03/27/1220:59 | 03/27/1221:17 | DATE RECEIVED: | 03/19/12 |
| PREP. BATCH: | SVC034S | SVC034S | SVC034S | | |
| CALIB. REF: | RCH007 | RCH007 | RCH007 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 349 | 298 | 85 | 349 | 345 | 99 | 15 | 10-130 | 50 |
| Acenaphthylene | ND | 349 | 328 | 94 | 349 | 377 | 108 | 14 | 20-130 | 50 |
| Anthracene | ND | 349 | 276 | 79 | 349 | 309 | 89 | 11 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 349 | 274 | 78 | 349 | 321 | 92 | 16 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 349 | 276 | 79 | 349 | 311 | 89 | 12 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 349 | 334 | 96 | 349 | 379 | 109 | 12 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 349 | 297 | 85 | 349 | 340 | 98 | 14 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 349 | 305 | 88 | 349 | 347 | 99 | 13 | 30-140 | 50 |
| Chrysene | ND | 349 | 261 | 75 | 349 | 314 | 90 | 18 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 349 | 311 | 89 | 349 | 355 | 102 | 13 | 30-130 | 50 |
| Fluoranthene | ND | 349 | 313 | 90 | 349 | 356 | 102 | 13 | 30-130 | 50 |
| Fluorene | ND | 349 | 322 | 92 | 349 | 369 | 106 | 14 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 349 | 312 | 90 | 349 | 354 | 101 | 12 | 20-160 | 50 |
| Naphthalene | ND | 349 | 278 | 80 | 349 | 305 | 87 | 9 | 10-130 | 50 |
| Phenanthrene | ND | 349 | 285 | 82 | 349 | 320 | 92 | 12 | 20-130 | 50 |
| Pyrene | ND | 349 | 294 | 84 | 349 | 335 | 96 | 13 | 10-160 | 50 |
| 2-Methylnaphthalene | ND | 349 | 295 | 85 | 349 | 328 | 94 | 11 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 349 | 304 | 87 | 349 | 339 | 97 | 11 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | 9.49J | 349 | 294 | 82 | 349 | 344 | 96 | 15 | 20-150 | 50 |
| Butylbenzylphthalate | ND | 349 | 305 | 88 | 349 | 352 | 101 | 14 | 20-150 | 50 |
| Di-n-butylphthalate | ND | 349 | 295 | 85 | 349 | 332 | 95 | 12 | 20-150 | 50 |
| Di-n-octylphthalate | ND | 349 | 335 | 96 | 349 | 367 | 105 | 9 | 10-150 | 50 |
| Diethylphthalate | ND | 349 | 301 | 86 | 349 | 336 | 96 | 11 | 20-150 | 50 |
| Dimethylphthalate | ND | 349 | 304 | 87 | 349 | 346 | 99 | 13 | 20-150 | 50 |
| N-Nitrosodimethylamine | ND | 349 | 272 | 78 | 349 | 301 | 86 | 10 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 349 | 283 | 81 | 349 | 324 | 93 | 40-130 |
| 2-Fluorobiphenyl | 349 | 247 | 71 | 349 | 292 | 84 | 45-130 |
| Terphenyl-d14 | 349 | 278 | 80 | 349 | 337 | 97 | 45-135 |

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/21/12 10:55 |
| Sample ID: SL-071-NBZ-SB-4.5 | Date Analyzed: 03/21/12 10:55 |
| Lab Samp ID: C164-01 | Dilution Factor: 1.15 |
| Lab File ID: EC20026A | Matrix : SOIL |
| Ext Btch ID: GMC016S | % Moisture : 3.7 |
| Calib. Ref.: EC20024A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.2 | 0.60 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 2.09 | 2.388 | 87.3 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 03/20/12 13:11

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/21/12 11:37 |
| Sample ID: SL-074-NBZ-SB-1.0 | Date Analyzed: 03/21/12 11:37 |
| Lab Samp ID: C164-03 | Dilution Factor: 0.99 |
| Lab File ID: EC20027A | Matrix : SOIL |
| Ext Btch ID: GMC016S | % Moisture : 3.1 |
| Calib. Ref.: EC20024A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.51 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.80 | 2.043 | 87.9 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 03/20/12 13:11

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/21/12 12:19 |
| Sample ID: SL-073-NBZ-SB-4.5 | Date Analyzed: 03/21/12 12:19 |
| Lab Samp ID: C164-05 | Dilution Factor: 0.92 |
| Lab File ID: EC20028A | Matrix : SOIL |
| Ext Btch ID: GMC016S | % Moisture : 6.6 |
| Calib. Ref.: EC20024A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 0.99 | 0.49 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.70 | 1.970 | 86.4 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 03/20/12 13:11

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/21/12 13:01 |
| Sample ID: SL-073-NBZ-SB-9.5 | Date Analyzed: 03/21/12 13:01 |
| Lab Samp ID: C164-07 | Dilution Factor: 0.89 |
| Lab File ID: EC20029A | Matrix : SOIL |
| Ext Btch ID: GMC016S | % Moisture : 11.6 |
| Calib. Ref.: EC20024A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.70 | 2.014 | 84.5 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 03/20/12 13:11

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/21/12 18:36 |
| Sample ID: TB-031912 | Date Analyzed: 03/21/12 18:36 |
| Lab Samp ID: C164-09 | Dilution Factor: 1 |
| Lab File ID: EC20037A | Matrix : WATER |
| Ext Btch ID: VA39C11 | % Moisture : NA |
| Calib. Ref.: EC20035A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 31J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 35.6 | 40.00 | 88.9 | 60-130 |

RL : Reporting Limit

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C164 | Date Extracted: 03/20/12 23:02 |
| Sample ID: MBLK1S | Date Analyzed: 03/20/12 23:02 |
| Lab Samp ID: GMC016SB | Dilution Factor: 1 |
| Lab File ID: EC20009A | Matrix : SOIL |
| Ext Btch ID: GMC016S | % Moisture : NA |
| Calib. Ref.: EC20002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.73 | 2.000 | 86.3 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/21/12 |
| Batch No. : 12C164 | Date Extracted: 03/21/12 15:07 |
| Sample ID: MBLK1W | Date Analyzed: 03/21/12 15:07 |
| Lab Samp ID: VA39C11B | Dilution Factor: 1 |
| Lab File ID: EC20032A | Matrix : WATER |
| Ext Btch ID: VA39C11 | % Moisture : NA |
| Calib. Ref.: EC20024A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 32.7 | 40.00 | 81.9 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C164
METHOD: METHOD 5035/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | GMC016SB | GMC016SL | GMC016SC | | |
| LAB FILE ID: | EC20009A | EC20007A | EC20008A | | |
| DATE EXTRACTED: | 03/20/1223:02 | 03/20/1221:38 | 03/20/1222:20 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/20/1223:02 | 03/20/1221:38 | 03/20/1222:20 | DATE RECEIVED: | 03/20/12 |
| PREP. BATCH: | GMC016S | GMC016S | GMC016S | | |
| CALIB. REF: | EC20002A | EC20002A | EC20002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 25.0 | 20.5 | 82 | 25.0 | 21.7 | 87 | 6 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 2.00 | 1.89 | 94 | 2.00 | 1.93 | 97 | 60-130 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C164
METHOD: METHOD 5030B/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VA39C11B | VA39C11L | VA39C11C | | |
| LAB FILE ID: | EC20032A | EC20033A | EC20034A | | |
| DATE EXTRACTED: | 03/21/1215:07 | 03/21/1215:49 | 03/21/1216:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/21/1215:07 | 03/21/1215:49 | 03/21/1216:30 | DATE RECEIVED: | 03/21/12 |
| PREP. BATCH: | VA39C11 | VA39C11 | VA39C11 | | |
| CALIB. REF: | EC20024A | EC20024A | EC20024A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 500 | 535 | 107 | 500 | 530 | 106 | 1 | 60-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 40.0 | 40.6 | 102 | 40.0 | 39.9 | 100 | 60-130 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/20/12 11:00 |
| Sample ID: SL-071-NBZ-SB-4.0-5.0 | Date Analyzed: 03/20/12 16:24 |
| Lab Samp ID: C164-02 | Dilution Factor: 1 |
| Lab File ID: BC20014A | Matrix : SOIL |
| Ext Btch ID: MEC005S | % Moisture : 4.4 |
| Calib. Ref.: BC20002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/20/12 11:00 |
| Sample ID: SL-074-NBZ-SB-0.5-1.5 | Date Analyzed: 03/20/12 16:39 |
| Lab Samp ID: C164-04 | Dilution Factor: 1 |
| Lab File ID: BC20015A | Matrix : SOIL |
| Ext Btch ID: MEC005S | % Moisture : 3.7 |
| Calib. Ref.: BC20002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/20/12 11:00 |
| Sample ID: SL-073-NBZ-SB-4.0-5.0 | Date Analyzed: 03/20/12 16:57 |
| Lab Samp ID: C164-06 | Dilution Factor: 1 |
| Lab File ID: BC20016A | Matrix : SOIL |
| Ext Btch ID: MEC005S | % Moisture : 7.3 |
| Calib. Ref.: BC20002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 540 | 270 |
| ISOPROPANOL | ND | 540 | 270 |
| METHANOL | ND | 540 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/20/12 11:00 |
| Sample ID: SL-073-NBZ-SB-9.0-10.0 | Date Analyzed: 03/20/12 17:16 |
| Lab Samp ID: C164-08 | Dilution Factor: 1 |
| Lab File ID: BC20017A | Matrix : SOIL |
| Ext Btch ID: MEC005S | % Moisture : 9.2 |
| Calib. Ref.: BC20002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 550 | 280 |
| ISOPROPANOL | ND | 550 | 280 |
| METHANOL | ND | 550 | 280 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C164 | Date Extracted: 03/20/12 11:00 |
| Sample ID: MBLK1S | Date Analyzed: 03/20/12 12:09 |
| Lab Samp ID: MEC005SB | Dilution Factor: 1 |
| Lab File ID: BC20003A | Matrix : SOIL |
| Ext Btch ID: MEC005S | % Moisture : NA |
| Calib. Ref.: BC20002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 500 | 250 |
| ISOPROPANOL | ND | 500 | 250 |
| METHANOL | ND | 500 | 250 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C164
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | MEC005SB | MEC005SL | MEC005SC | | |
| LAB FILE ID: | BC20003A | BC20004A | BC20005A | | |
| DATE EXTRACTED: | 03/20/1211:00 | 03/20/1211:00 | 03/20/1211:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/20/1212:09 | 03/20/1212:25 | 03/20/1213:27 | DATE RECEIVED: | 03/20/12 |
| PREP. BATCH: | MEC005S | MEC005S | MEC005S | | |
| CALIB. REF: | BC20002A | BC20002A | BC20002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 12600 | 126 | 10000 | 9910 | 99 | 24 | 50-150 | 50 |
| Isopropanol | ND | 10000 | 10600 | 106 | 10000 | 11600 | 116 | 9 | 50-150 | 50 |
| Methanol | ND | 10000 | 9080 | 91 | 10000 | 10100 | 101 | 11 | 50-150 | 50 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/20/12 12:15 |
| Sample ID: SL-071-NBZ-SB-4.0-5.0 | Date Analyzed: 03/21/12 12:50 |
| Lab Samp ID: C164-02 | Dilution Factor: 1 |
| Lab File ID: TC21019A | Matrix : SOIL |
| Ext Btch ID: PEC003S | % Moisture : 4.4 |
| Calib. Ref.: TC21013A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.8 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/19/12 |
| Batch No. | : 12C164 | Date Extracted | : 03/20/12 12:15 |
| Sample ID | : SL-074-NBZ-SB-0.5-1.5 | Date Analyzed | : 03/21/12 13:05 |
| Lab Samp ID | : C164-04 | Dilution Factor | : 1 |
| Lab File ID | : TC21020A | Matrix | : SOIL |
| Ext Btch ID | : PEC003S | % Moisture | : 3.7 |
| Calib. Ref. | : TC21013A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.8 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/19/12 |
| Batch No. | : 12C164 | Date Extracted | : 03/20/12 12:15 |
| Sample ID | : SL-073-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/21/12 13:19 |
| Lab Samp ID | : C164-06 | Dilution Factor | : 1 |
| Lab File ID | : TC21021A | Matrix | : SOIL |
| Ext Btch ID | : PEC003S | % Moisture | : 7.3 |
| Calib. Ref. | : TC21013A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.1 |
| ETHYLENE GLYCOL | ND | 11 | 5.4 |
| PROPYLENE GLYCOL | ND | 11 | 5.4 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/19/12 |
| Batch No. | : 12C164 | Date Extracted | : 03/20/12 12:15 |
| Sample ID | : SL-073-NBZ-SB-9.0-10.0 | Date Analyzed | : 03/21/12 13:32 |
| Lab Samp ID | : C164-08 | Dilution Factor | : 1 |
| Lab File ID | : TC21022A | Matrix | : SOIL |
| Ext Btch ID | : PEC003S | % Moisture | : 9.2 |
| Calib. Ref. | : TC21013A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 17 | 8.3 |
| ETHYLENE GLYCOL | ND | 11 | 5.5 |
| PROPYLENE GLYCOL | ND | 11 | 5.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C164 | Date Extracted: 03/20/12 12:15 |
| Sample ID: MBLK1S | Date Analyzed: 03/21/12 08:49 |
| Lab Samp ID: PEC003SQ | Dilution Factor: 1 |
| Lab File ID: TC21004A | Matrix : SOIL |
| Ext Btch ID: PEC003S | % Moisture : NA |
| Calib. Ref.: TC21002A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.5 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 5.0 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C164
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PEC003SQ | PEC003SL | PEC003SC | | |
| LAB FILE ID: | TC21004A | TC21005A | TC21006A | | |
| DATE EXTRACTED: | 03/20/1212:15 | 03/20/1212:15 | 03/20/1212:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/21/1208:49 | 03/21/1209:04 | 03/21/1209:16 | DATE RECEIVED: | 03/20/12 |
| PREP. BATCH: | PEC003S | PEC003S | PEC003S | | |
| CALIB. REF: | TC21002A | TC21002A | TC21002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 43.7 | 87 | 50.0 | 52.5 | 105 | 18 | 50-150 | 50 |
| Ethylene Glycol | ND | 50.0 | 49.1 | 98 | 50.0 | 54.8 | 110 | 11 | 50-150 | 50 |
| Propylene Glycol | ND | 25.0 | 26.0 | 104 | 25.0 | 28.4 | 113 | 9 | 50-150 | 50 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/23/12 10:45 |
| Sample ID: SL-071-NBZ-SB-4.0-5.0 | Date Analyzed: 03/23/12 23:21 |
| Lab Samp ID: C164-02 | Dilution Factor: 1 |
| Lab File ID: LC23023A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : 4.4 |
| Calib. Ref.: LC23015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.52 |
| EFH(C12-C14) | ND | 1.0 | 0.52 |
| EFH(C15-C20) | ND | 1.0 | 0.52 |
| EFH(C21-C30) | ND | 1.0 | 0.52 |
| EFH(C30-C40) | ND | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.65 | 10.46 | 63.6 | 50-150 |
| HEXACOSANE | 2.14 | 2.615 | 81.9 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/23/12 10:45 |
| Sample ID: SL-074-NBZ-SB-0.5-1.5 | Date Analyzed: 03/23/12 23:38 |
| Lab Samp ID: C164-04 | Dilution Factor: 1 |
| Lab File ID: LC23024A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : 3.7 |
| Calib. Ref.: LC23015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.52 |
| EFH(C12-C14) | ND | 1.0 | 0.52 |
| EFH(C15-C20) | ND | 1.0 | 0.52 |
| EFH(C21-C30) | 0.59J | 1.0 | 0.52 |
| EFH(C30-C40) | 0.94J | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | 1.5 | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.17 | 10.38 | 69.1 | 50-150 |
| HEXACOSANE | 2.14 | 2.596 | 82.3 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/23/12 10:45 |
| Sample ID: SL-073-NBZ-SB-4.0-5.0 | Date Analyzed: 03/23/12 23:55 |
| Lab Samp ID: C164-06 | Dilution Factor: 1 |
| Lab File ID: LC23025A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : 7.3 |
| Calib. Ref.: LC23015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.54 |
| EFH(C12-C14) | ND | 1.1 | 0.54 |
| EFH(C15-C20) | ND | 1.1 | 0.54 |
| EFH(C21-C30) | ND | 1.1 | 0.54 |
| EFH(C30-C40) | 0.69J | 1.1 | 0.54 |
| TOTAL EFH(C8-C40) | 0.69J | 1.1 | 0.54 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.92 | 10.79 | 64.1 | 50-150 |
| HEXACOSANE | 2.24 | 2.697 | 83.0 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/23/12 10:45 |
| Sample ID: SL-073-NBZ-SB-9.0-10.0 | Date Analyzed: 03/24/12 00:12 |
| Lab Samp ID: C164-08 | Dilution Factor: 1 |
| Lab File ID: LC23026A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : 9.2 |
| Calib. Ref.: LC23015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.55 |
| EFH(C12-C14) | ND | 1.1 | 0.55 |
| EFH(C15-C20) | ND | 1.1 | 0.55 |
| EFH(C21-C30) | ND | 1.1 | 0.55 |
| EFH(C30-C40) | ND | 1.1 | 0.55 |
| TOTAL EFH(C8-C40) | ND | 1.1 | 0.55 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.56 | 11.01 | 68.6 | 50-150 |
| HEXACOSANE | 2.24 | 2.753 | 81.2 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C164 | Date Extracted: 03/23/12 10:45 |
| Sample ID: MBLK1S | Date Analyzed: 03/23/12 18:18 |
| Lab Samp ID: DSC026SB | Dilution Factor: 1 |
| Lab File ID: LC23005A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : NA |
| Calib. Ref.: LC23003A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.51 | 10.00 | 75.1 | 50-150 |
| HEXACOSANE | 2.04 | 2.500 | 81.6 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C164
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSC026SB | DSC026SL | DSC026SC | | |
| LAB FILE ID: | LC23005A | LC23006A | LC23007A | | |
| DATE EXTRACTED: | 03/23/1210:45 | 03/23/1210:45 | 03/23/1210:45 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1218:18 | 03/23/1218:35 | 03/23/1218:51 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | DSC026S | DSC026S | DSC026S | | |
| CALIB. REF: | LC23003A | LC23003A | LC23003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 41.8 | 84 | 50.0 | 45.6 | 91 | 9 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 7.72 | 77 | 10.0 | 7.49 | 75 | 50-150 |
| Hexacosane | 2.50 | 1.98 | 79 | 2.50 | 2.02 | 81 | 50-150 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/22/12 17:23 |
| Sample ID: SL-071-NBZ-SB-4.0-5.0 | Date Analyzed: 03/25/12 01:01 |
| Lab Samp ID: C164-02 | Dilution Factor: 1 |
| Lab File ID: KC23037A | Matrix : SOIL |
| Ext Btch ID: CPC029S | % Moisture : 4.4 |
| Calib. Ref.: KC23028A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.291)\|4.760 | 5.578 | (113)\|85.3 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.220)\|4.257 | 5.578 | (111)\|76.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/22/12 17:23 |
| Sample ID: SL-074-NBZ-SB-0.5-1.5 | Date Analyzed: 03/25/12 01:56 |
| Lab Samp ID: C164-04 | Dilution Factor: 1 |
| Lab File ID: KC23038A | Matrix : SOIL |
| Ext Btch ID: CPC029S | % Moisture : 3.7 |
| Calib. Ref.: KC23028A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 5432 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.4 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.221)\|4.706 | 5.538 | (112)\|85.0 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.344)\|4.347 | 5.538 | (115)\|78.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/22/12 17:23 |
| Sample ID: SL-073-NBZ-SB-4.0-5.0 | Date Analyzed: 03/25/12 02:51 |
| Lab Samp ID: C164-06 | Dilution Factor: 1 |
| Lab File ID: KC23039A | Matrix : SOIL |
| Ext Btch ID: CPC029S | % Moisture : 7.3 |
| Calib. Ref.: KC23028A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.101)\|4.648 | 5.753 | (106)\|80.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.879)\|4.346 | 5.753 | (102)\|75.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/22/12 17:23 |
| Sample ID: SL-073-NBZ-SB-9.0-10.0 | Date Analyzed: 03/25/12 03:46 |
| Lab Samp ID: C164-08 | Dilution Factor: 1 |
| Lab File ID: KC23040A | Matrix : SOIL |
| Ext Btch ID: CPC029S | % Moisture : 9.2 |
| Calib. Ref.: KC23028A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.048)\|4.615 | 5.873 | (103)\|78.6 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.071)\|3.609 | 5.873 | (86.3)\|61.4 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C164 | Date Extracted: 03/22/12 17:23 |
| Sample ID: MBLK1S | Date Analyzed: 03/24/12 06:35 |
| Lab Samp ID: 60C029SB | Dilution Factor: 1 |
| Lab File ID: KC23017A | Matrix : SOIL |
| Ext Btch ID: CPC029S | % Moisture : NA |
| Calib. Ref.: KC23014A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.797)\|4.413 | 5.333 | (109)\|82.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.834)\|5.064 | 5.333 | (109)\|95.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C164
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: 60C029SB 60C029SL 60C029SC
LAB FILE ID: KC23017A KC23018A KC23019A
DATE EXTRACTED: 03/22/1217:23 03/22/1217:23 03/22/1217:23 DATE COLLECTED: NA
DATE ANALYZED: 03/24/1206:35 03/24/1207:30 03/24/1208:25 DATE RECEIVED: 03/22/12
PREP. BATCH: CPC029S CPC029S CPC029S
CALIB. REF: KC23014A KC23014A KC23014A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (62.4)\|51.7 | (94)\|78 | 66.7 | (55.6)\|49.4 | (83)\|74 | (12)\|5 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (73.7)\|61.4 | (111)\|92 | 66.7 | (74.4)\|61.9 | (112)\|93 | (1)\|1 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | (70.0)\|66.7 | (105)\|100 | 66.7 | (72.3)\|68.5 | (108)\|103 | (3)\|3 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | (5.991)\|4.529 | (112)\|84.9 | 5.333 | (5.949)\|4.511 | (112)\|84.6 | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (5.836)\|4.964 | (109)\|93.1 | 5.333 | (4.990)\|4.302 | (93.6)\|80.7 | 10-160 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/22/12 20:10 |
| Sample ID: SL-071-NBZ-SB-4.0-5.0 | Date Analyzed: 03/24/12 08:20 |
| Lab Samp ID: C164-02 | Dilution Factor: 1 |
| Lab File ID: XC22086A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: XC22084A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1740 | 2000 | 86.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/22/12 20:10 |
| Sample ID: SL-074-NBZ-SB-0.5-1.5 | Date Analyzed: 03/24/12 08:53 |
| Lab Samp ID: C164-04 | Dilution Factor: .99 |
| Lab File ID: XC22087A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: XC22084A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1820 | 1980 | 91.7 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/22/12 20:10 |
| Sample ID: SL-073-NBZ-SB-4.0-5.0 | Date Analyzed: 03/24/12 09:27 |
| Lab Samp ID: C164-06 | Dilution Factor: 1 |
| Lab File ID: XC22088A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: XC22084A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1890 | 2000 | 94.5 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/22/12 20:10 |
| Sample ID: SL-073-NBZ-SB-9.0-10.0 | Date Analyzed: 03/24/12 10:00 |
| Lab Samp ID: C164-08 | Dilution Factor: 1 |
| Lab File ID: XC22089A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: XC22084A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1820 | 2000 | 91.0 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C164 | Date Extracted: 03/22/12 20:10 |
| Sample ID: MBLK1S | Date Analyzed: 03/23/12 19:35 |
| Lab Samp ID: EXC017SB | Dilution Factor: 1 |
| Lab File ID: XC22063A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: XC22062A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1850 | 2000 | 92.7 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C164
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXC017SB | EXC017SL | EXC017SC | | |
| LAB FILE ID: | XC22063A | XC22064A | XC22065A | | |
| DATE EXTRACTED: | 03/22/1220:10 | 03/22/1220:10 | 03/22/1220:10 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1219:35 | 03/23/1220:08 | 03/23/1220:42 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | EXC017S | EXC017S | EXC017S | | |
| CALIB. REF: | XC22062A | XC22062A | XC22062A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 1930 | 96 | 2000 | 1940 | 97 | 0 | 70-130 | 50 |
| RDX | ND | 2000 | 1980 | 99 | 2000 | 1940 | 97 | 2 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2150 | 107 | 2000 | 2150 | 107 | 0 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 1960 | 98 | 2000 | 1980 | 99 | 1 | 70-130 | 50 |
| Tetryl | ND | 2000 | 2200 | 110 | 2000 | 2260 | 113 | 3 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 1670 | 83 | 2000 | 1800 | 90 | 7 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 1980 | 99 | 2000 | 1920 | 96 | 3 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 1920 | 96 | 2000 | 1910 | 95 | 1 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 1920 | 96 | 2000 | 1940 | 97 | 1 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2110 | 105 | 2000 | 2090 | 104 | 1 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 1980 | 99 | 2000 | 2120 | 106 | 7 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 1980 | 99 | 2000 | 1940 | 97 | 2 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1830 | 91 | 2000 | 1890 | 94 | 3 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 1960 | 98 | 2000 | 1740 | 87 | 12 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1770 | 88 | 2000 | 1760 | 88 | 1 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2130 | 106 | 2000 | 2140 | 107 | 1 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1850 | 92 | 2000 | 1800 | 90 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/19/12 |
| Batch No. | : 12C164 | Date Extracted | : 03/22/12 20:10 |
| Sample ID | : SL-071-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/26/12 15:36 |
| Lab Samp ID | : C164-02 | Dilution Factor | : 1 |
| Lab File ID | : PC26026A | Matrix | : SOIL |
| Ext Btch ID | : EXC017S | % Moisture | : NA |
| Calib. Ref. | : PC26024A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2340 | 2000 | 117 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/22/12 20:10 |
| Sample ID: SL-074-NBZ-SB-0.5-1.5 | Date Analyzed: 03/26/12 15:50 |
| Lab Samp ID: C164-04 | Dilution Factor: .99 |
| Lab File ID: PC26027A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: PC26024A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2370 | 1980 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/19/12 |
| Batch No. | : 12C164 | Date Extracted | : 03/22/12 20:10 |
| Sample ID | : SL-073-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/26/12 16:04 |
| Lab Samp ID | : C164-06 | Dilution Factor | : 1 |
| Lab File ID | : PC26028A | Matrix | : SOIL |
| Ext Btch ID | : EXC017S | % Moisture | : NA |
| Calib. Ref. | : PC26024A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2380 | 2000 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/19/12 |
| Batch No. : 12C164 | Date Extracted: 03/22/12 20:10 |
| Sample ID: SL-073-NBZ-SB-9.0-10.0 | Date Analyzed: 03/26/12 16:18 |
| Lab Samp ID: C164-08 | Dilution Factor: 1 |
| Lab File ID: PC26029A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: PC26024A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2390 | 2000 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C164 | Date Extracted: 03/22/12 20:10 |
| Sample ID: MBLK1S | Date Analyzed: 03/26/12 09:40 |
| Lab Samp ID: EXC017SB | Dilution Factor: 1 |
| Lab File ID: PC26003A | Matrix : SOIL |
| Ext Btch ID: EXC017S | % Moisture : NA |
| Calib. Ref.: PC26002A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2530 | 2000 | 126 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C164
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXC017SB | EXC017SX | EXC017SY | | |
| LAB FILE ID: | PC26003A | PC26004A | PC26005A | | |
| DATE EXTRACTED: | 03/22/1220:10 | 03/22/1220:10 | 03/22/1220:10 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/26/1209:40 | 03/26/1209:54 | 03/26/1210:08 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | EXC017S | EXC017S | EXC017S | | |
| CALIB. REF: | PC26002A | PC26002A | PC26002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7710 | 103 | 7500 | 7280 | 97 | 6 | 50-150 | 50 |
| PETN | ND | 7500 | 7790 | 104 | 7500 | 7650 | 102 | 2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2320 | 116 | 2000 | 2340 | 117 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/19/12 |
| SDG NO. | : 12C164 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-071-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/28/12 13:41 |
| Lab Samp ID | : C164-02 | Dilution Factor | : 0.990 |
| Lab File ID | : 98C14044 | Matrix | : SOIL |
| Ext Btch ID | : IMC033S | % Moisture | : 4.4 |
| Calib. Ref. | : 98C14038 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11300 | 24.9 | 12.4 |
| Antimony | 0.215 | 0.207 | 0.104 |
| Arsenic | 3.68 | 0.414 | 0.207 |
| Barium | 58.5 | 0.414 | 0.207 |
| Beryllium | 0.556 | 0.104 | 0.0518 |
| Boron | ND | 5.18 | 2.59 |
| Cadmium | 0.101J | 0.104 | 0.0518 |
| Calcium | 2090 | 20.7 | 10.4 |
| Chromium | 14.8 | 0.414 | 0.207 |
| Cobalt | 4.90 | 0.104 | 0.0518 |
| Copper | 5.80 | 0.414 | 0.207 |
| Iron | 19000 | 20.7 | 10.4 |
| Lead | 3.81 | 0.207 | 0.104 |
| Magnesium | 4350 | 10.4 | 5.18 |
| Manganese | 256 | 0.518 | 0.259 |
| Molybdenum | 0.665 | 0.104 | 0.0518 |
| Nickel | 6.88 | 0.414 | 0.207 |
| Potassium | 2400 | 62.1 | 31.1 |
| Selenium | ND | 0.414 | 0.207 |
| Silver | ND | 0.104 | 0.0518 |
| Sodium | 172 | 104 | 51.8 |
| Strontium | 17.1 | 0.518 | 0.259 |
| Thallium | 0.233 | 0.104 | 0.0518 |
| Tin | ND | 10.4 | 5.18 |
| Titanium | 995 | 1.04 | 0.518 |
| Vanadium | 30.8 | 0.104 | 0.0518 |
| Zinc | 48.7 | 3.11 | 1.55 |
| Lithium | 17.4 | 2.07 | 1.04 |
| Phosphorus | 289 | 12.4 | 6.21 |
| Zirconium | ND | 5.18 | 2.59 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/19/12 |
| SDG NO. | : 12C164 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-074-NBZ-SB-0.5-1.5 | Date Analyzed | : 03/28/12 13:46 |
| Lab Samp ID | : C164-04 | Dilution Factor | : 0.971 |
| Lab File ID | : 98C14045 | Matrix | : SOIL |
| Ext Btch ID | : IMC033S | % Moisture | : 3.7 |
| Calib. Ref. | : 98C14038 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11600 | 24.2 | 12.1 |
| Antimony | 0.267 | 0.202 | 0.101 |
| Arsenic | 3.71 | 0.403 | 0.202 |
| Barium | 73.8 | 0.403 | 0.202 |
| Beryllium | 0.471 | 0.101 | 0.0504 |
| Boron | ND | 5.04 | 2.52 |
| Cadmium | 0.0968J | 0.101 | 0.0504 |
| Calcium | 1620 | 20.2 | 10.1 |
| Chromium | 17.1 | 0.403 | 0.202 |
| Cobalt | 5.72 | 0.101 | 0.0504 |
| Copper | 7.04 | 0.403 | 0.202 |
| Iron | 20300 | 20.2 | 10.1 |
| Lead | 3.97 | 0.202 | 0.101 |
| Magnesium | 4890 | 10.1 | 5.04 |
| Manganese | 232 | 0.504 | 0.252 |
| Molybdenum | 0.386 | 0.101 | 0.0504 |
| Nickel | 7.96 | 0.403 | 0.202 |
| Potassium | 2720 | 60.5 | 30.2 |
| Selenium | ND | 0.403 | 0.202 |
| Silver | ND | 0.101 | 0.0504 |
| Sodium | 74.8J | 101 | 50.4 |
| Strontium | 14.8 | 0.504 | 0.252 |
| Thallium | 0.263 | 0.101 | 0.0504 |
| Tin | ND | 10.1 | 5.04 |
| Titanium | 1160 | 1.01 | 0.504 |
| Vanadium | 37.0 | 0.101 | 0.0504 |
| Zinc | 48.6 | 3.02 | 1.51 |
| Lithium | 17.8 | 2.02 | 1.01 |
| Phosphorus | 198 | 12.1 | 6.05 |
| Zirconium | ND | 5.04 | 2.52 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/19/12 |
| SDG NO. | : 12C164 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-073-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/28/12 13:50 |
| Lab Samp ID | : C164-06 | Dilution Factor | : 0.966 |
| Lab File ID | : 98C14046 | Matrix | : SOIL |
| Ext Btch ID | : IMC033S | % Moisture | : 7.3 |
| Calib. Ref. | : 98C14038 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11200 | 25.0 | 12.5 |
| Antimony | 0.178J | 0.208 | 0.104 |
| Arsenic | 4.32 | 0.417 | 0.208 |
| Barium | 85.1 | 0.417 | 0.208 |
| Beryllium | 0.547 | 0.104 | 0.0521 |
| Boron | ND | 5.21 | 2.61 |
| Cadmium | 0.167 | 0.104 | 0.0521 |
| Calcium | 1690 | 20.8 | 10.4 |
| Chromium | 15.7 | 0.417 | 0.208 |
| Cobalt | 3.89 | 0.104 | 0.0521 |
| Copper | 6.61 | 0.417 | 0.208 |
| Iron | 20500 | 20.8 | 10.4 |
| Lead | 4.52 | 0.208 | 0.104 |
| Magnesium | 4430 | 10.4 | 5.21 |
| Manganese | 182 | 0.521 | 0.261 |
| Molybdenum | 0.451 | 0.104 | 0.0521 |
| Nickel | 8.87 | 0.417 | 0.208 |
| Potassium | 3110 | 62.5 | 31.3 |
| Selenium | ND | 0.417 | 0.208 |
| Silver | ND | 0.104 | 0.0521 |
| Sodium | 83.8J | 104 | 52.1 |
| Strontium | 14.8 | 0.521 | 0.261 |
| Thallium | 0.263 | 0.104 | 0.0521 |
| Tin | ND | 10.4 | 5.21 |
| Titanium | 1020 | 1.04 | 0.521 |
| Vanadium | 33.0 | 0.104 | 0.0521 |
| Zinc | 49.4 | 3.13 | 1.56 |
| Lithium | 22.3 | 2.08 | 1.04 |
| Phosphorus | 294 | 12.5 | 6.25 |
| Zirconium | ND | 5.21 | 2.61 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/19/12 |
| SDG NO. | : 12C164 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-073-NBZ-SB-9.0-10.0 | Date Analyzed | : 03/28/12 13:55 |
| Lab Samp ID | : C164-08 | Dilution Factor | : 0.990 |
| Lab File ID | : 98C14047 | Matrix | : SOIL |
| Ext Btch ID | : IMC033S | % Moisture | : 9.2 |
| Calib. Ref. | : 98C14038 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11800 | 26.2 | 13.1 |
| Antimony | 0.212J | 0.218 | 0.109 |
| Arsenic | 4.06 | 0.436 | 0.218 |
| Barium | 80.1 | 0.436 | 0.218 |
| Beryllium | 0.536 | 0.109 | 0.0545 |
| Boron | ND | 5.45 | 2.73 |
| Cadmium | 0.152 | 0.109 | 0.0545 |
| Calcium | 1890 | 21.8 | 10.9 |
| Chromium | 18.8 | 0.436 | 0.218 |
| Cobalt | 6.11 | 0.109 | 0.0545 |
| Copper | 7.26 | 0.436 | 0.218 |
| Iron | 20600 | 21.8 | 10.9 |
| Lead | 4.22 | 0.218 | 0.109 |
| Magnesium | 4920 | 10.9 | 5.45 |
| Manganese | 266 | 0.545 | 0.273 |
| Molybdenum | 0.489 | 0.109 | 0.0545 |
| Nickel | 9.15 | 0.436 | 0.218 |
| Potassium | 2410 | 65.4 | 32.7 |
| Selenium | ND | 0.436 | 0.218 |
| Silver | ND | 0.109 | 0.0545 |
| Sodium | 143 | 109 | 54.5 |
| Strontium | 13.9 | 0.545 | 0.273 |
| Thallium | 0.233 | 0.109 | 0.0545 |
| Tin | ND | 10.9 | 5.45 |
| Titanium | 1050 | 1.09 | 0.545 |
| Vanadium | 36.3 | 0.109 | 0.0545 |
| Zinc | 47.8 | 3.27 | 1.64 |
| Lithium | 20.3 | 2.18 | 1.09 |
| Phosphorus | 345 | 13.1 | 6.54 |
| Zirconium | ND | 5.45 | 2.73 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| SDG NO. : 12C164 | Date Extracted: 03/27/12 11:30 |
| Sample ID: MBLK1S | Date Analyzed: 03/28/12 12:29 |
| Lab Samp ID: IMC033SB | Dilution Factor: 1 |
| Lab File ID: 98C14028 | Matrix : SOIL |
| Ext Btch ID: IMC033S | % Moisture : NA |
| Calib. Ref.: 98C14026 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C164
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: NA
DILTN FACTR: 1 1 1
SAMPLE ID: MBLK1S
CONTROL NO.: IMC033SB IMC033SL IMC033SC
LAB FILE ID: 98C14028 98C14029 98C14030
DATIME EXTRCTD: 03/27/1211:30 03/27/1211:30 03/27/1211:30 DATE COLLECTED: NA
DATIME ANALYZD: 03/28/1212:29 03/28/1212:33 03/28/1212:38 DATE RECEIVED: 03/27/12
PREP. BATCH: IMC033S IMC033S IMC033S
CALIB. REF: 98C14026 98C14026 98C14026

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2530 | 101 | 2500 | 2500 | 100 | 1 | 80-120 | 20 |
| Antimony | ND | 25.0 | 26.1 | 104 | 25.0 | 25.7 | 103 | 1 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 25.2 | 101 | 25.0 | 25.1 | 100 | 0 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.7 | 103 | 25.0 | 25.4 | 102 | 1 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 26.0 | 104 | 25.0 | 25.4 | 101 | 2 | 80-120 | 20 |
| Boron | ND | 25.0 | 26.5 | 106 | 25.0 | 25.8 | 103 | 2 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 25.4 | 102 | 25.0 | 24.9 | 100 | 2 | 80-120 | 20 |
| Calcium | ND | 2500 | 2700 | 108 | 2500 | 2670 | 107 | 1 | 80-120 | 20 |
| Chromium | ND | 25.0 | 25.2 | 101 | 25.0 | 24.6 | 99 | 2 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 25.9 | 104 | 25.0 | 26.0 | 104 | 1 | 80-120 | 20 |
| Copper | ND | 25.0 | 24.6 | 98 | 25.0 | 24.2 | 97 | 1 | 80-120 | 20 |
| Iron | ND | 2500 | 2690 | 108 | 2500 | 2670 | 107 | 1 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.5 | 102 | 25.0 | 24.8 | 99 | 3 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2500 | 100 | 2500 | 2490 | 100 | 1 | 80-120 | 20 |
| Manganese | ND | 25.0 | 26.3 | 105 | 25.0 | 26.3 | 105 | 0 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 25.1 | 100 | 25.0 | 25.0 | 100 | 0 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.6 | 98 | 25.0 | 24.2 | 97 | 2 | 80-120 | 20 |
| Potassium | ND | 2500 | 2670 | 107 | 2500 | 2620 | 105 | 2 | 80-120 | 20 |
| Selenium | ND | 25.0 | 25.9 | 103 | 25.0 | 25.6 | 102 | 1 | 80-120 | 20 |
| Silver | ND | 25.0 | 25.2 | 101 | 25.0 | 25.0 | 100 | 1 | 80-120 | 20 |
| Sodium | ND | 2500 | 2530 | 101 | 2500 | 2470 | 99 | 2 | 80-120 | 20 |
| Strontium | ND | 25.0 | 26.4 | 106 | 25.0 | 26.3 | 105 | 1 | 80-120 | 20 |
| Thallium | ND | 25.0 | 25.8 | 103 | 25.0 | 25.4 | 102 | 1 | 80-120 | 20 |
| Tin | ND | 25.0 | 27.8 | 111 | 25.0 | 27.6 | 110 | 1 | 80-120 | 20 |
| Titanium | ND | 25.0 | 25.9 | 104 | 25.0 | 25.7 | 103 | 1 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 25.2 | 101 | 25.0 | 24.8 | 99 | 2 | 80-120 | 20 |
| Zinc | ND | 50.0 | 48.6 | 97 | 50.0 | 48.3 | 97 | 1 | 80-120 | 20 |
| Lithium | ND | 25.0 | 26.4 | 105 | 25.0 | 25.2 | 101 | 4 | 80-120 | 20 |
| Phosphorus | ND | 250 | 242 | 97 | 250 | 238 | 95 | 2 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 26.2 | 105 | 25.0 | 25.9 | 104 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C164
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 9.8
DILTN FACTR: 0.957 0.957
SAMPLE ID: SL-105-NBZ-SS-0.0-0.5
CONTROL NO.: C209-12 C209-12A
LAB FILE ID: 98C14034 98C14033
DATIME EXTRCTD: 03/27/1211:30 03/27/1211:30 DATE COLLECTED: 03/21/12
DATIME ANALYZD: 03/28/1212:56 03/28/1212:51 DATE RECEIVED: 03/22/12
PREP. BATCH: IMC033S IMC033S
CALIB. REF: 98C14026 98C14026

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 10900 | 2650 | 13400 | 94 | 75-125 |
| Antimony | 0.189J | 26.5 | 27.1 | 102 | 75-125 |
| Arsenic | 3.00 | 26.5 | 28.0 | 94 | 75-125 |
| Barium | 82.9 | 26.5 | 116 | 127* | 75-125 |
| Beryllium | 0.456 | 26.5 | 27.4 | 101 | 75-125 |
| Boron | ND | 26.5 | 28.8 | 109 | 75-125 |
| Cadmium | 0.178 | 26.5 | 25.9 | 97 | 75-125 |
| Calcium | 2860 | 2650 | 5450 | 98 | 75-125 |
| Chromium | 16.7 | 26.5 | 40.5 | 90 | 75-125 |
| Cobalt | 5.62 | 26.5 | 30.0 | 92 | 75-125 |
| Copper | 6.89 | 26.5 | 29.9 | 87 | 75-125 |
| Iron | 20000 | 2650 | 22800 | 106 | 75-125 |
| Lead | 6.25 | 26.5 | 32.1 | 97 | 75-125 |
| Magnesium | 5360 | 2650 | 7840 | 93 | 75-125 |
| Manganese | 292 | 26.5 | 320 | 107 | 75-125 |
| Molybdenum | 0.461 | 26.5 | 26.4 | 98 | 75-125 |
| Nickel | 9.82 | 26.5 | 32.6 | 86 | 75-125 |
| Potassium | 3520 | 2650 | 6060 | 96 | 75-125 |
| Selenium | ND | 26.5 | 26.4 | 100 | 75-125 |
| Silver | ND | 26.5 | 25.5 | 96 | 75-125 |
| Sodium | 65.2J | 2650 | 2410 | 88 | 75-125 |
| Strontium | 14.6 | 26.5 | 41.9 | 103 | 75-125 |
| Thallium | 0.231 | 26.5 | 26.2 | 98 | 75-125 |
| Tin | ND | 26.5 | 29.3 | 111 | 75-125 |
| Titanium | 956 | 26.5 | 997 | 156* | 75-125 |
| Vanadium | 35.5 | 26.5 | 60.1 | 93 | 75-125 |
| Zinc | 49.6 | 53.0 | 98.0 | 91 | 75-125 |
| Lithium | 23.9 | 26.5 | 51.6 | 105 | 75-125 |
| Phosphorus | 391 | 265 | 639 | 94 | 75-125 |
| Zirconium | ND | 26.5 | 25.8 | 97 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C164
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 9.8

| | | |
|---|---|---|
| DILUTION FACTOR: | 0.957 | 4.78 |
| SAMPLE ID: | SL-105-NBZ-SS- | SL-105-NBZ-SS- |
| EMAX SAMP ID: | C209-12 | C209-12J |
| LAB FILE ID: | 98C14034 | 98C14035 |
| DATE EXTRACTED: | 03/27/1211:30 | 03/27/1211:30 |
| DATE ANALYZED: | 03/28/1212:56 | 03/28/1213:00 |
| PREP. BATCH: | IMC033S | IMC033S |
| CALIB. REF: | 98C14026 | 98C14026 |

DATE COLLECTED: 03/21/12
DATE RECEIVED: 03/22/12

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 10900 | 11100 | 2 | 10 |
| Antimony | 0.189J | ND | NA | 10 |
| Arsenic | 3.00 | 3.06 | 2 | 10 |
| Barium | 82.9 | 80.0 | 3 | 10 |
| Beryllium | 0.456 | 0.437J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.178 | ND | NA | 10 |
| Calcium | 2860 | 2990 | 5 | 10 |
| Chromium | 16.7 | 17.1 | 2 | 10 |
| Cobalt | 5.62 | 5.88 | 5 | 10 |
| Copper | 6.89 | 7.43 | 8 | 10 |
| Iron | 20000 | 20900 | 5 | 10 |
| Lead | 6.25 | 6.22 | 1 | 10 |
| Magnesium | 5360 | 5560 | 4 | 10 |
| Manganese | 292 | 307 | 5 | 10 |
| Molybdenum | 0.461 | 0.464J | NA | 10 |
| Nickel | 9.82 | 10.3 | 5 | 10 |
| Potassium | 3520 | 3440 | 2 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | 65.2J | ND | NA | 10 |
| Strontium | 14.6 | 14.3 | 3 | 10 |
| Thallium | 0.231 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 956 | 946 | 1 | 10 |
| Vanadium | 35.5 | 36.0 | 2 | 10 |
| Zinc | 49.6 | 49.5 | 0 | 10 |
| Lithium | 23.9 | 22.3 | 7 | 10 |
| Phosphorus | 391 | 373 | 4 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C164

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGC018SB | ND | 1 | NA | 0.100 | 0.0500 | 03/23/1209:47 | 03/22/1215:31 | M47C017010 | M47C017008 | HGC018S | NA | 03/22/12 |
| LCS1S | HGC018SL | 0.863 | 1 | NA | 0.100 | 0.0500 | 03/23/1209:49 | 03/22/1215:31 | M47C017011 | M47C017008 | HGC018S | NA | 03/22/12 |
| LCD1S | HGC018SC | 0.852 | 1 | NA | 0.100 | 0.0500 | 03/23/1209:52 | 03/22/1215:31 | M47C017012 | M47C017008 | HGC018S | NA | 03/22/12 |
| SL-071-NBZ-SB-4.0-5.0 | C164-02 | ND | 0.987 | 4.4 | 0.103 | 0.0516 | 03/23/1210:25 | 03/22/1215:31 | M47C017028 | M47C017020 | HGC018S | 03/19/12 | 03/19/12 |
| SL-074-NBZ-SB-0.5-1.5 | C164-04 | ND | 1.01 | 3.7 | 0.105 | 0.0524 | 03/23/1210:28 | 03/22/1215:31 | M47C017029 | M47C017020 | HGC018S | 03/19/12 | 03/19/12 |
| SL-073-NBZ-SB-4.0-5.0 | C164-06 | ND | 0.998 | 7.3 | 0.108 | 0.0538 | 03/23/1210:30 | 03/22/1215:31 | M47C017030 | M47C017020 | HGC018S | 03/19/12 | 03/19/12 |
| SL-073-NBZ-SB-9.0-10.0 | C164-08 | ND | 1.00 | 9.2 | 0.110 | 0.0551 | 03/23/1210:32 | 03/22/1215:31 | M47C017031 | M47C017020 | HGC018S | 03/19/12 | 03/19/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C164
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGC018SB | HGC018SL | HGC018SC | | |
| LAB FILE ID: | M47C017010 | M47C017011 | M47C017012 | | |
| DATIME EXTRCTD: | 03/22/1215:31 | 03/22/1215:31 | 03/22/1215:31 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 03/23/1209:47 | 03/23/1209:49 | 03/23/1209:52 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | HGC018S | HGC018S | HGC018S | | |
| CALIB. REF: | M47C017008 | M47C017008 | M47C017008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .863 | 104 | .833 | .852 | 102 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C164
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 8.9 |
| DILTN FACTR: | 1.00 | 1.00 | | |
| SAMPLE ID: | SL-068-NBZ-SB-2.5-3.5 | | | |
| CONTROL NO.: | C156-04 | C156-04A | | |
| LAB FILE ID: | M47C017014 | M47C017013 | | |
| DATIME EXTRCTD: | 03/22/1215:31 | 03/22/1215:31 | DATE COLLECTED: | 03/16/12 |
| DATIME ANALYZD: | 03/23/1209:56 | 03/23/1209:54 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | HGC018S | HGC018S | | |
| CALIB. REF: | M47C017008 | M47C017008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .914 | .957 | 105 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C164
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 8.9

| | | | | |
|---|---|---|---|---|
| DILUTION FACTOR: | 1.00 | 5.01 | | |
| SAMPLE ID: | SL-068-NBZ-SB-2.5-3 | SL-068-NBZ-SB-2.5-3 | | |
| EMAX SAMP ID: | C156-04 | C156-04J | | |
| LAB FILE ID: | M47C017014 | M47C017015 | | |
| DATE EXTRACTED: | 03/22/1215:31 | 03/22/1215:31 | DATE COLLECTED: | 03/16/12 |
| DATE ANALYZED: | 03/23/1209:56 | 03/23/1209:58 | DATE RECEIVED: | 03/16/12 |
| PREP. BATCH: | HGC018S | HGC018S | | |
| CALIB. REF: | M47C017008 | M47C017008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C164
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC004SB | ND | 1 | NA | 1.00 | 0.500 | 03/21/1219:52 | 03/21/1215:20 | AC27-19 | AC27-17 | ICC004S | NA | 03/21/12 |
| LCS1S | ICC004SL | 5.79 | 1 | NA | 1.00 | 0.500 | 03/21/1220:08 | 03/21/1215:20 | AC27-20 | AC27-17 | ICC004S | NA | 03/21/12 |
| LCD1S | ICC004SC | 5.80 | 1 | NA | 1.00 | 0.500 | 03/21/1220:24 | 03/21/1215:20 | AC27-21 | AC27-17 | ICC004S | NA | 03/21/12 |
| SL-071-NBZ-SB-4.0-5.0 | C164-02 | 1.53 | 1 | 4.4 | 1.05 | 0.523 | 03/21/1220:41 | 03/21/1215:20 | AC27-22 | AC27-17 | ICC004S | 03/19/1209:35 | 03/19/12 |
| SL-074-NBZ-SB-0.5-1.5 | C164-04 | ND | 1 | 3.7 | 1.04 | 0.519 | 03/21/1220:57 | 03/21/1215:20 | AC27-23 | AC27-17 | ICC004S | 03/19/1210:55 | 03/19/12 |
| SL-073-NBZ-SB-4.0-5.0 | C164-06 | 1.32 | 1 | 7.3 | 1.08 | 0.539 | 03/21/1221:13 | 03/21/1215:20 | AC27-24 | AC27-17 | ICC004S | 03/19/1214:40 | 03/19/12 |
| SL-073-NBZ-SB-9.0-10.0 | C164-08 | 2.20 | 1 | 9.2 | 1.10 | 0.551 | 03/21/1221:29 | 03/21/1215:20 | AC27-25 | AC27-17 | ICC004S | 03/19/1214:30 | 03/19/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C164
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC004SB | ICC004SL | ICC004SC | | |
| LAB FILE ID: | AC27-19 | AC27-20 | AC27-21 | | |
| DATE EXTRACTED: | 03/21/1215:20 | 03/21/1215:20 | 03/21/1215:20 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/21/1219:52 | 03/21/1220:08 | 03/21/1220:24 | DATE RECEIVED: | 03/21/12 |
| PREP. BATCH: | ICC004S | ICC004S | ICC004S | | |
| CALIB. REF: | AC27-17 | AC27-17 | AC27-17 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 5.79 | 97 | 6.00 | 5.80 | 97 | 0 | 90-110 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C164
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC004SB | ND | 1 | NA | 1.50 | 0.750 | 03/21/1219:52 | 03/21/1215:20 | AC27-19 | AC27-17 | ICC004S | NA | 03/21/12 |
| LCS1S | ICC004SL | 25.5 | 1 | NA | 1.50 | 0.750 | 03/21/1220:08 | 03/21/1215:20 | AC27-20 | AC27-17 | ICC004S | NA | 03/21/12 |
| LCD1S | ICC004SC | 25.4 | 1 | NA | 1.50 | 0.750 | 03/21/1220:24 | 03/21/1215:20 | AC27-21 | AC27-17 | ICC004S | NA | 03/21/12 |
| SL-071-NBZ-SB-4.0-5.0 | C164-02 | ND | 1 | 4.4 | 1.57 | 0.785 | 03/21/1220:41 | 03/21/1215:20 | AC27-22 | AC27-17 | ICC004S | 03/19/1209:35 | 03/19/12 |
| SL-074-NBZ-SB-0.5-1.5 | C164-04 | 2.76 | 1 | 3.7 | 1.56 | 0.779 | 03/21/1220:57 | 03/21/1215:20 | AC27-23 | AC27-17 | ICC004S | 03/19/1210:55 | 03/19/12 |
| SL-073-NBZ-SB-4.0-5.0 | C164-06 | 1.12J | 1 | 7.3 | 1.62 | 0.809 | 03/21/1221:13 | 03/21/1215:20 | AC27-24 | AC27-17 | ICC004S | 03/19/1214:40 | 03/19/12 |
| SL-073-NBZ-SB-9.0-10.0 | C164-08 | 11.1 | 1 | 9.2 | 1.65 | 0.826 | 03/21/1221:29 | 03/21/1215:20 | AC27-25 | AC27-17 | ICC004S | 03/19/1214:30 | 03/19/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C164
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC004SB | ICC004SL | ICC004SC | | |
| LAB FILE ID: | AC27-19 | AC27-20 | AC27-21 | | |
| DATE EXTRACTED: | 03/21/1215:20 | 03/21/1215:20 | 03/21/1215:20 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/21/1219:52 | 03/21/1220:08 | 03/21/1220:24 | DATE RECEIVED: | 03/21/12 |
| PREP. BATCH: | ICC004S | ICC004S | ICC004S | | |
| CALIB. REF: | AC27-17 | AC27-17 | AC27-17 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 25.5 | 96 | 26.6 | 25.4 | 96 | 0 | 90-110 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C164

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCC008SB | ND | 1 | NA | 20.0 | 10.0 | 03/22/1212:20 | 03/21/1215:15 | JC22002 | JC22001 | PCC008S | NA | 03/21/12 |
| LCS1S | PCC008SL | 237 | 1 | NA | 20.0 | 10.0 | 03/22/1213:02 | 03/21/1215:15 | JC22004 | JC22001 | PCC008S | NA | 03/21/12 |
| LCD1S | PCC008SC | 236 | 1 | NA | 20.0 | 10.0 | 03/22/1213:27 | 03/21/1215:15 | JC22005 | JC22001 | PCC008S | NA | 03/21/12 |
| SL-071-NBZ-SB-4.0-5.0 | C164-02 | ND | 1 | 4.4 | 20.9 | 10.5 | 03/22/1213:48 | 03/21/1215:15 | JC22006 | JC22001 | PCC008S | 03/19/1209:35 | 03/19/12 |
| SL-074-NBZ-SB-0.5-1.5 | C164-04 | ND | 1 | 3.7 | 20.8 | 10.4 | 03/22/1214:28 | 03/21/1215:15 | JC22007 | JC22001 | PCC008S | 03/19/1210:55 | 03/19/12 |
| SL-073-NBZ-SB-4.0-5.0 | C164-06 | ND | 1 | 7.3 | 21.6 | 10.8 | 03/22/1214:49 | 03/21/1215:15 | JC22008 | JC22001 | PCC008S | 03/19/1214:40 | 03/19/12 |
| SL-073-NBZ-SB-9.0-10.0 | C164-08 | ND | 1 | 9.2 | 22.0 | 11.0 | 03/22/1215:10 | 03/21/1215:15 | JC22009 | JC22001 | PCC008S | 03/19/1214:30 | 03/19/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C164
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCC008SB | PCC008SL | PCC008SC | | |
| LAB FILE ID: | JC22002 | JC22004 | JC22005 | | |
| DATE EXTRACTED: | 03/21/1215:15 | 03/21/1215:15 | 03/21/1215:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/22/1212:20 | 03/22/1213:02 | 03/22/1213:27 | DATE RECEIVED: | 03/21/12 |
| PREP. BATCH: | PCC008S | PCC008S | PCC008S | | |
| CALIB. REF: | JC22001 | JC22001 | JC22001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 237 | 95 | 250 | 236 | 94 | 0 | 85-115 | 15 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C164
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCC005SB | ND | 1 | NA | 1.00 | 0.500 | 03/26/1216:39 | 03/23/1217:42 | IC27013 | IC27011 | HCC005S | NA | 03/23/12 |
| MBLK2S | HCC005SQ | ND | 1 | NA | 1.00 | 0.500 | 03/26/1216:49 | 03/23/1217:42 | IC27014 | IC27011 | HCC005S | NA | 03/23/12 |
| LCS1S | CSC005SL | 8.89 | 1 | NA | 1.00 | 0.500 | 03/26/1216:59 | 03/23/1217:42 | IC27015 | IC27011 | CSC005S | NA | 03/23/12 |
| LCS2S | CSC005SX | 10.2 | 1 | NA | 1.00 | 0.500 | 03/26/1217:10 | 03/23/1217:42 | IC27016 | IC27011 | CSC005S | NA | 03/23/12 |
| LCS3S | CIC005SL | 309 | 20 | NA | 20.0 | 10.0 | 03/26/1217:20 | 03/23/1217:42 | IC27017 | IC27011 | CIC005S | NA | 03/23/12 |
| LCS4S | CIC005SX | 299 | 20 | NA | 20.0 | 10.0 | 03/26/1217:31 | 03/23/1217:42 | IC27018 | IC27011 | CIC005S | NA | 03/23/12 |
| SL-071-NBZ-SB-4.0-5.0 | C164-02 | ND | 1 | 4.4 | 1.05 | 0.523 | 03/26/1221:09 | 03/23/1217:42 | IC27039 | IC27035 | CIC005S | 03/19/1209:35 | 03/19/12 |
| SL-071-NBZ-SB-4.0-5.0 | C164-02R | ND | 1 | 4.4 | 1.05 | 0.523 | 03/26/1221:20 | 03/23/1217:42 | IC27040 | IC27035 | CIC005S | 03/19/1209:35 | 03/19/12 |
| SL-074-NBZ-SB-0.5-1.5 | C164-04 | ND | 1 | 3.7 | 1.04 | 0.519 | 03/26/1221:30 | 03/23/1217:42 | IC27041 | IC27035 | CIC005S | 03/19/1210:55 | 03/19/12 |
| SL-074-NBZ-SB-0.5-1.5 | C164-04R | ND | 1 | 3.7 | 1.04 | 0.519 | 03/26/1221:40 | 03/23/1217:42 | IC27042 | IC27035 | CIC005S | 03/19/1210:55 | 03/19/12 |
| SL-073-NBZ-SB-4.0-5.0 | C164-06 | ND | 1 | 7.3 | 1.08 | 0.539 | 03/26/1221:51 | 03/23/1217:42 | IC27043 | IC27035 | CIC005S | 03/19/1214:40 | 03/19/12 |
| SL-073-NBZ-SB-4.0-5.0 | C164-06R | ND | 1 | 7.3 | 1.08 | 0.539 | 03/26/1222:01 | 03/23/1217:42 | IC27044 | IC27035 | CIC005S | 03/19/1214:40 | 03/19/12 |
| SL-073-NBZ-SB-9.0-10.0 | C164-08 | ND | 1 | 9.2 | 1.10 | 0.551 | 03/26/1222:12 | 03/23/1217:42 | IC27045 | IC27035 | CIC005S | 03/19/1214:30 | 03/19/12 |
| SL-073-NBZ-SB-9.0-10.0 | C164-08R | ND | 1 | 9.2 | 1.10 | 0.551 | 03/26/1222:22 | 03/23/1217:42 | IC27046 | IC27035 | CIC005S | 03/19/1214:30 | 03/19/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C164
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCC005SB CIC005SL
LAB FILE ID: IC27013 IC27017
DATE EXTRACTED: 03/23/1217:42 03/23/1217:42 DATE COLLECTED: NA
DATE ANALYZED: 03/26/1216:39 03/26/1217:20 DATE RECEIVED: 03/23/12
PREP. BATCH: HCC005S CIC005S
CALIB. REF: IC27011 IC27011

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 329 | 309 | 94 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C164
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK2S
LAB SAMP ID: HCC005SQ CIC005SX
LAB FILE ID: IC27014 IC27018
DATE EXTRACTED: 03/23/1217:42 03/23/1217:42 DATE COLLECTED: NA
DATE ANALYZED: 03/26/1216:49 03/26/1217:31 DATE RECEIVED: 03/23/12
PREP. BATCH: HCC005S CIC005S
CALIB. REF: IC27011 IC27011

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 329 | 299 | 91 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C164
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCC005SB | CSC005SL | | |
| LAB FILE ID: | IC27013 | IC27015 | | |
| DATE EXTRACTED: | 03/23/1217:42 | 03/23/1217:42 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/26/1216:39 | 03/26/1216:59 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | HCC005S | CSC005S | | |
| CALIB. REF: | IC27011 | IC27011 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 8.89 | 89 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C164
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK2S
LAB SAMP ID: HCC005SQ CSC005SX
LAB FILE ID: IC27014 IC27016
DATE EXTRACTED: 03/23/1217:42 03/23/1217:42 DATE COLLECTED: NA
DATE ANALYZED: 03/26/1216:49 03/26/1217:10 DATE RECEIVED: 03/23/12
PREP. BATCH: HCC005S CSC005S
CALIB. REF: IC27011 IC27011

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 10.2 | 102 | 80-120 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C164

Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CNC009SB | ND | 1 | NA | 0.500 | 0.250 | 03/22/1218:03 | 03/22/1210:51 | CNC00910 | CNC00908 | CNC009S | NA | 03/22/12 |
| LCS1S | CNC009SL | 2.29 | 1 | NA | 0.500 | 0.250 | 03/22/1218:03 | 03/22/1210:51 | CNC00911 | CNC00908 | CNC009S | NA | 03/22/12 |
| LCD1S | CNC009SC | 2.25 | 1 | NA | 0.500 | 0.250 | 03/22/1218:03 | 03/22/1210:51 | CNC00912 | CNC00908 | CNC009S | NA | 03/22/12 |
| SL-071-NBZ-SB-4.0-5.0 | C164-02 | ND | 1 | 4.4 | 0.523 | 0.262 | 03/22/1218:05 | 03/22/1210:51 | CNC00919 | CNC00908 | CNC009S | 03/19/1209:35 | 03/19/12 |
| SL-074-NBZ-SB-0.5-1.5 | C164-04 | ND | 1 | 3.7 | 0.519 | 0.260 | 03/22/1218:06 | 03/22/1210:51 | CNC00922 | CNC00920 | CNC009S | 03/19/1210:55 | 03/19/12 |
| SL-073-NBZ-SB-4.0-5.0 | C164-06 | ND | 1 | 7.3 | 0.539 | 0.270 | 03/22/1218:06 | 03/22/1210:51 | CNC00923 | CNC00920 | CNC009S | 03/19/1214:40 | 03/19/12 |
| SL-073-NBZ-SB-9.0-10.0 | C164-08 | ND | 1 | 9.2 | 0.551 | 0.275 | 03/22/1218:06 | 03/22/1210:51 | CNC00924 | CNC00920 | CNC009S | 03/19/1214:30 | 03/19/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C164
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CNC009SL/C

DATE RECEIVED: 03/22/12
DATE EXTRACTED: 03/22/1210:51
DATE ANALYZED: 03/22/1218:03/18:03

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.29 | 92 | 2.50 | 2.25 | 90 | 2 | 85-125 | 20 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C164
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-071-NBZ-SB-4.0-5.0 | C164-02 | 7.12 | 1 | NA | NA | NA | 03/20/1214:43 | 03/20/1214:43 | 12PHC014S01 | PHC014S | PHC014S | 03/19/1209:35 | 03/19/12 |
| SL-074-NBZ-SB-0.5-1.5 | C164-04 | 6.53 | 1 | NA | NA | NA | 03/20/1214:47 | 03/20/1214:43 | 12PHC014S02 | PHC014S | PHC014S | 03/19/1210:55 | 03/19/12 |
| SL-073-NBZ-SB-4.0-5.0 | C164-06 | 6.55 | 1 | NA | NA | NA | 03/20/1214:48 | 03/20/1214:43 | 12PHC014S03 | PHC014S | PHC014S | 03/19/1214:40 | 03/19/12 |
| SL-073-NBZ-SB-9.0-10.0 | C164-08 | 6.68 | 1 | NA | NA | NA | 03/20/1214:51 | 03/20/1214:43 | 12PHC014S04 | PHC014S | PHC014S | 03/19/1214:30 | 03/19/12 |
| SL-073-NBZ-SB-9.0-10.0DUP | C164-08D | 6.72 | 1 | NA | NA | NA | 03/20/1214:52 | 03/20/1214:43 | 12PHC014S05 | PHC014S | PHC014S | 03/19/1214:30 | 03/19/12 |

# SAMPLE DELIVERY GROUP

# 12C182

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-069-NBZ-SB-3.0-4.0 | Date Analyzed: 03/29/12 20:03 |
| Lab Samp ID: C182-02 | Dilution Factor: 1 |
| Lab File ID: RCJ512 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 4.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 88 |
| 1,2-DICHLOROBENZENE | ND | 180 | 88 |
| 1,3-DICHLOROBENZENE | ND | 180 | 88 |
| 1,4-DICHLOROBENZENE | ND | 180 | 88 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 88 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 88 |
| 2,4-DICHLOROPHENOL | ND | 180 | 88 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 88 |
| 2,4-DINITROPHENOL | ND | 350 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 88 |
| 2,6-DINITROTOLUENE | ND | 180 | 88 |
| 2-CHLORONAPHTHALENE | ND | 180 | 88 |
| 2-CHLOROPHENOL | ND | 180 | 88 |
| 2-METHYLNAPHTHALENE | ND | 180 | 88 |
| 2-METHYLPHENOL | ND | 180 | 88 |
| 2-NITROANILINE | ND | 180 | 88 |
| 2-NITROPHENOL | ND | 180 | 88 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 88 |
| 3-NITROANILINE | ND | 180 | 88 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 88 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 88 |
| 4-CHLOROANILINE | ND | 180 | 88 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 88 |
| 4-METHYLPHENOL (1) | ND | 180 | 88 |
| 4-NITROANILINE | ND | 180 | 88 |
| 4-NITROPHENOL | ND | 350 | 180 |
| ACENAPHTHENE | ND | 180 | 88 |
| ACENAPHTHYLENE | ND | 180 | 88 |
| ANTHRACENE | ND | 180 | 88 |
| BENZO(A)ANTHRACENE | ND | 180 | 88 |
| BENZO(A)PYRENE | ND | 180 | 88 |
| BENZO(B)FLUORANTHENE | ND | 180 | 88 |
| BENZO(K)FLUORANTHENE | ND | 180 | 88 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 88 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 88 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 88 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 88 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 88 |
| CHRYSENE | ND | 180 | 88 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 88 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 88 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 88 |
| DIBENZOFURAN | ND | 180 | 88 |
| DIETHYLPHTHALATE | ND | 180 | 88 |
| DIMETHYLPHTHALATE | ND | 180 | 88 |
| FLUORANTHENE | ND | 180 | 88 |
| FLUORENE | ND | 180 | 88 |
| HEXACHLOROBENZENE | ND | 180 | 88 |
| HEXACHLOROBUTADIENE | ND | 180 | 88 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 88 |
| HEXACHLOROETHANE | ND | 180 | 88 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 88 |
| ISOPHORONE | ND | 180 | 88 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 88 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 88 |
| NAPHTHALENE | ND | 180 | 88 |
| NITROBENZENE | ND | 180 | 88 |
| PENTACHLOROPHENOL | ND | 350 | 180 |
| PHENANTHRENE | ND | 180 | 88 |
| PHENOL | ND | 180 | 88 |
| PYRENE | ND | 180 | 88 |
| BENZYL ALCOHOL | ND | 180 | 88 |
| 1-METHYLNAPHTHALENE | ND | 180 | 88 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 88 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 88 |
| ANILINE | ND | 350 | 180 |
| BENZIDINE | ND | 870 | 440 |
| BENZOIC ACID | ND | 700 | 350 |
| CARBAZOLE | ND | 180 | 88 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 88 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 866 | 1049 | 82.6 | 35-130 |
| 2-FLUOROBIPHENYL | 265 | 349.7 | 75.9 | 45-130 |
| 2-FLUOROPHENOL | 797 | 1049 | 76.0 | 25-130 |
| NITROBENZENE-D5 | 246 | 349.7 | 70.2 | 40-130 |
| PHENOL-D5 | 807 | 1049 | 76.9 | 25-120 |
| TERPHENYL-D14 | 353 | 349.7 | 101 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-070-NBZ-SS-0.0-0.5 | Date Analyzed: 03/29/12 20:22 |
| Lab Samp ID: C182-03 | Dilution Factor: 1 |
| Lab File ID: RCJ513 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 12.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 96 |
| 1,2-DICHLOROBENZENE | ND | 190 | 96 |
| 1,3-DICHLOROBENZENE | ND | 190 | 96 |
| 1,4-DICHLOROBENZENE | ND | 190 | 96 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 96 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 96 |
| 2,6-DINITROTOLUENE | ND | 190 | 96 |
| 2-CHLORONAPHTHALENE | ND | 190 | 96 |
| 2-CHLOROPHENOL | ND | 190 | 96 |
| 2-METHYLNAPHTHALENE | ND | 190 | 96 |
| 2-METHYLPHENOL | ND | 190 | 96 |
| 2-NITROANILINE | ND | 190 | 96 |
| 2-NITROPHENOL | ND | 190 | 96 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 96 |
| 3-NITROANILINE | ND | 190 | 96 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 96 |
| 4-CHLOROANILINE | ND | 190 | 96 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-METHYLPHENOL (1) | ND | 190 | 96 |
| 4-NITROANILINE | ND | 190 | 96 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 96 |
| ACENAPHTHYLENE | ND | 190 | 96 |
| ANTHRACENE | ND | 190 | 96 |
| BENZO(A)ANTHRACENE | ND | 190 | 96 |
| BENZO(A)PYRENE | ND | 190 | 96 |
| BENZO(B)FLUORANTHENE | ND | 190 | 96 |
| BENZO(K)FLUORANTHENE | ND | 190 | 96 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 96 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 96 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 96 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 96 |
| CHRYSENE | ND | 190 | 96 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 96 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 96 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 96 |
| DIBENZOFURAN | ND | 190 | 96 |
| DIETHYLPHTHALATE | ND | 190 | 96 |
| DIMETHYLPHTHALATE | ND | 190 | 96 |
| FLUORANTHENE | ND | 190 | 96 |
| FLUORENE | ND | 190 | 96 |
| HEXACHLOROBENZENE | ND | 190 | 96 |
| HEXACHLOROBUTADIENE | ND | 190 | 96 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 96 |
| HEXACHLOROETHANE | ND | 190 | 96 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 96 |
| ISOPHORONE | ND | 190 | 96 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 96 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 96 |
| NAPHTHALENE | ND | 190 | 96 |
| NITROBENZENE | ND | 190 | 96 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 96 |
| PHENOL | ND | 190 | 96 |
| PYRENE | ND | 190 | 96 |
| BENZYL ALCOHOL | ND | 190 | 96 |
| 1-METHYLNAPHTHALENE | ND | 190 | 96 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 96 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 96 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 950 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 96 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 96 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 944 | 1142 | 82.7 | 35-130 |
| 2-FLUOROBIPHENYL | 232 | 380.5 | 61.1 | 45-130 |
| 2-FLUOROPHENOL | 717 | 1142 | 62.8 | 25-130 |
| NITROBENZENE-D5 | 203 | 380.5 | 53.4 | 40-130 |
| PHENOL-D5 | 744 | 1142 | 65.2 | 25-120 |
| TERPHENYL-D14 | 344 | 380.5 | 90.4 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-075-NBZ-SS-0.0-0.5 | Date Analyzed: 03/29/12 20:40 |
| Lab Samp ID: C182-04 | Dilution Factor: 1 |
| Lab File ID: RCJ514 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 8.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 370 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1050 | 1096 | 95.7 | 35-130 |
| 2-FLUOROBIPHENYL | 293 | 365.5 | 80.2 | 45-130 |
| 2-FLUOROPHENOL | 816 | 1096 | 74.4 | 25-130 |
| NITROBENZENE-D5 | 268 | 365.5 | 73.3 | 40-130 |
| PHENOL-D5 | 846 | 1096 | 77.2 | 25-120 |
| TERPHENYL-D14 | 367 | 365.5 | 100 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-076-NBZ-SS-0.0-0.5 | Date Analyzed: 03/29/12 20:59 |
| Lab Samp ID: C182-05 | Dilution Factor: 1 |
| Lab File ID: RCJ515 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 12.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 96 |
| 1,2-DICHLOROBENZENE | ND | 190 | 96 |
| 1,3-DICHLOROBENZENE | ND | 190 | 96 |
| 1,4-DICHLOROBENZENE | ND | 190 | 96 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 96 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 96 |
| 2,6-DINITROTOLUENE | ND | 190 | 96 |
| 2-CHLORONAPHTHALENE | ND | 190 | 96 |
| 2-CHLOROPHENOL | ND | 190 | 96 |
| 2-METHYLNAPHTHALENE | ND | 190 | 96 |
| 2-METHYLPHENOL | ND | 190 | 96 |
| 2-NITROANILINE | ND | 190 | 96 |
| 2-NITROPHENOL | ND | 190 | 96 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 96 |
| 3-NITROANILINE | ND | 190 | 96 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 96 |
| 4-CHLOROANILINE | ND | 190 | 96 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-METHYLPHENOL (1) | ND | 190 | 96 |
| 4-NITROANILINE | ND | 190 | 96 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 96 |
| ACENAPHTHYLENE | ND | 190 | 96 |
| ANTHRACENE | ND | 190 | 96 |
| BENZO(A)ANTHRACENE | ND | 190 | 96 |
| BENZO(A)PYRENE | ND | 190 | 96 |
| BENZO(B)FLUORANTHENE | ND | 190 | 96 |
| BENZO(K)FLUORANTHENE | ND | 190 | 96 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 96 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 96 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 96 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 96 |
| CHRYSENE | ND | 190 | 96 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 96 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 96 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 96 |
| DIBENZOFURAN | ND | 190 | 96 |
| DIETHYLPHTHALATE | ND | 190 | 96 |
| DIMETHYLPHTHALATE | ND | 190 | 96 |
| FLUORANTHENE | ND | 190 | 96 |
| FLUORENE | ND | 190 | 96 |
| HEXACHLOROBENZENE | ND | 190 | 96 |
| HEXACHLOROBUTADIENE | ND | 190 | 96 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 96 |
| HEXACHLOROETHANE | ND | 190 | 96 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 96 |
| ISOPHORONE | ND | 190 | 96 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 96 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 96 |
| NAPHTHALENE | ND | 190 | 96 |
| NITROBENZENE | ND | 190 | 96 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 96 |
| PHENOL | ND | 190 | 96 |
| PYRENE | ND | 190 | 96 |
| BENZYL ALCOHOL | ND | 190 | 96 |
| 1-METHYLNAPHTHALENE | ND | 190 | 96 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 96 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 96 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 950 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 96 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 96 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1040 | 1145 | 90.5 | 35-130 |
| 2-FLUOROBIPHENYL | 290 | 381.8 | 75.9 | 45-130 |
| 2-FLUOROPHENOL | 880 | 1145 | 76.8 | 25-130 |
| NITROBENZENE-D5 | 303 | 381.8 | 79.2 | 40-130 |
| PHENOL-D5 | 919 | 1145 | 80.2 | 25-120 |
| TERPHENYL-D14 | 382 | 381.8 | 100 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-077-NBZ-SS-0.0-0.5 | Date Analyzed: 03/29/12 21:18 |
| Lab Samp ID: C182-06 | Dilution Factor: 1 |
| Lab File ID: RCJ516 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 14.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 98 |
| 1,2-DICHLOROBENZENE | ND | 190 | 98 |
| 1,3-DICHLOROBENZENE | ND | 190 | 98 |
| 1,4-DICHLOROBENZENE | ND | 190 | 98 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 98 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 98 |
| 2,4-DICHLOROPHENOL | ND | 190 | 98 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 98 |
| 2,4-DINITROPHENOL | ND | 390 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 98 |
| 2,6-DINITROTOLUENE | ND | 190 | 98 |
| 2-CHLORONAPHTHALENE | ND | 190 | 98 |
| 2-CHLOROPHENOL | ND | 190 | 98 |
| 2-METHYLNAPHTHALENE | ND | 190 | 98 |
| 2-METHYLPHENOL | ND | 190 | 98 |
| 2-NITROANILINE | ND | 190 | 98 |
| 2-NITROPHENOL | ND | 190 | 98 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 98 |
| 3-NITROANILINE | ND | 190 | 98 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 98 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 98 |
| 4-CHLOROANILINE | ND | 190 | 98 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 98 |
| 4-METHYLPHENOL (1) | ND | 190 | 98 |
| 4-NITROANILINE | ND | 190 | 98 |
| 4-NITROPHENOL | ND | 390 | 190 |
| ACENAPHTHENE | ND | 190 | 98 |
| ACENAPHTHYLENE | ND | 190 | 98 |
| ANTHRACENE | ND | 190 | 98 |
| BENZO(A)ANTHRACENE | ND | 190 | 98 |
| BENZO(A)PYRENE | ND | 190 | 98 |
| BENZO(B)FLUORANTHENE | ND | 190 | 98 |
| BENZO(K)FLUORANTHENE | ND | 190 | 98 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 98 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 98 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 98 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 98 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 98 |
| CHRYSENE | ND | 190 | 98 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 98 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 98 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 98 |
| DIBENZOFURAN | ND | 190 | 98 |
| DIETHYLPHTHALATE | ND | 190 | 98 |
| DIMETHYLPHTHALATE | ND | 190 | 98 |
| FLUORANTHENE | ND | 190 | 98 |
| FLUORENE | ND | 190 | 98 |
| HEXACHLOROBENZENE | ND | 190 | 98 |
| HEXACHLOROBUTADIENE | ND | 190 | 98 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 98 |
| HEXACHLOROETHANE | ND | 190 | 98 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 98 |
| ISOPHORONE | ND | 190 | 98 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 98 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 98 |
| NAPHTHALENE | ND | 190 | 98 |
| NITROBENZENE | ND | 190 | 98 |
| PENTACHLOROPHENOL | ND | 390 | 190 |
| PHENANTHRENE | ND | 190 | 98 |
| PHENOL | ND | 190 | 98 |
| PYRENE | ND | 190 | 98 |
| BENZYL ALCOHOL | ND | 190 | 98 |
| 1-METHYLNAPHTHALENE | ND | 190 | 98 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 98 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 98 |
| ANILINE | ND | 390 | 190 |
| BENZIDINE | ND | 970 | 490 |
| BENZOIC ACID | ND | 780 | 390 |
| CARBAZOLE | ND | 190 | 98 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 98 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1030 | 1163 | 88.6 | 35-130 |
| 2-FLUOROBIPHENYL | 290 | 387.6 | 74.7 | 45-130 |
| 2-FLUOROPHENOL | 686 | 1163 | 59.0 | 25-130 |
| NITROBENZENE-D5 | 236 | 387.6 | 60.8 | 40-130 |
| PHENOL-D5 | 798 | 1163 | 68.6 | 25-120 |
| TERPHENYL-D14 | 359 | 387.6 | 92.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-077-NBZ-SB-2.5-3.5 | Date Analyzed: 03/29/12 21:37 |
| Lab Samp ID: C182-08 | Dilution Factor: 1 |
| Lab File ID: RCJ517 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 6.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 89 |
| 1,2-DICHLOROBENZENE | ND | 180 | 89 |
| 1,3-DICHLOROBENZENE | ND | 180 | 89 |
| 1,4-DICHLOROBENZENE | ND | 180 | 89 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 89 |
| 2,4-DINITROPHENOL | ND | 350 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 89 |
| 2,6-DINITROTOLUENE | ND | 180 | 89 |
| 2-CHLORONAPHTHALENE | ND | 180 | 89 |
| 2-CHLOROPHENOL | ND | 180 | 89 |
| 2-METHYLNAPHTHALENE | ND | 180 | 89 |
| 2-METHYLPHENOL | ND | 180 | 89 |
| 2-NITROANILINE | ND | 180 | 89 |
| 2-NITROPHENOL | ND | 180 | 89 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 89 |
| 3-NITROANILINE | ND | 180 | 89 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 89 |
| 4-CHLOROANILINE | ND | 180 | 89 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-METHYLPHENOL (1) | ND | 180 | 89 |
| 4-NITROANILINE | ND | 180 | 89 |
| 4-NITROPHENOL | ND | 350 | 180 |
| ACENAPHTHENE | ND | 180 | 89 |
| ACENAPHTHYLENE | ND | 180 | 89 |
| ANTHRACENE | ND | 180 | 89 |
| BENZO(A)ANTHRACENE | ND | 180 | 89 |
| BENZO(A)PYRENE | ND | 180 | 89 |
| BENZO(B)FLUORANTHENE | ND | 180 | 89 |
| BENZO(K)FLUORANTHENE | ND | 180 | 89 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 89 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 89 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 89 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 89 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 89 |
| CHRYSENE | ND | 180 | 89 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 89 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 89 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 89 |
| DIBENZOFURAN | ND | 180 | 89 |
| DIETHYLPHTHALATE | ND | 180 | 89 |
| DIMETHYLPHTHALATE | ND | 180 | 89 |
| FLUORANTHENE | ND | 180 | 89 |
| FLUORENE | ND | 180 | 89 |
| HEXACHLOROBENZENE | ND | 180 | 89 |
| HEXACHLOROBUTADIENE | ND | 180 | 89 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 89 |
| HEXACHLOROETHANE | ND | 180 | 89 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 89 |
| ISOPHORONE | ND | 180 | 89 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 89 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 89 |
| NAPHTHALENE | ND | 180 | 89 |
| NITROBENZENE | ND | 180 | 89 |
| PENTACHLOROPHENOL | ND | 350 | 180 |
| PHENANTHRENE | ND | 180 | 89 |
| PHENOL | ND | 180 | 89 |
| PYRENE | ND | 180 | 89 |
| BENZYL ALCOHOL | ND | 180 | 89 |
| 1-METHYLNAPHTHALENE | ND | 180 | 89 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 89 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 89 |
| ANILINE | ND | 350 | 180 |
| BENZIDINE | ND | 880 | 450 |
| BENZOIC ACID | ND | 710 | 360 |
| CARBAZOLE | ND | 180 | 89 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 89 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 926 | 1065 | 86.9 | 35-130 |
| 2-FLUOROBIPHENYL | 265 | 355.0 | 74.6 | 45-130 |
| 2-FLUOROPHENOL | 794 | 1065 | 74.5 | 25-130 |
| NITROBENZENE-D5 | 250 | 355.0 | 70.5 | 40-130 |
| PHENOL-D5 | 830 | 1065 | 78.0 | 25-120 |
| TERPHENYL-D14 | 333 | 355.0 | 93.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C182 | Date Extracted: 03/28/12 17:47 |
| Sample ID: MBLK1S | Date Analyzed: 03/29/12 16:36 |
| Lab Samp ID: SVC042SB | Dilution Factor: 1 |
| Lab File ID: RCJ502 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 806 | 1000 | 80.6 | 35-130 |
| 2-FLUOROBIPHENYL | 273 | 333.3 | 81.8 | 45-130 |
| 2-FLUOROPHENOL | 776 | 1000 | 77.6 | 25-130 |
| NITROBENZENE-D5 | 236 | 333.3 | 70.9 | 40-130 |
| PHENOL-D5 | 771 | 1000 | 77.1 | 25-120 |
| TERPHENYL-D14 | 306 | 333.3 | 91.9 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVC042SB SVC042SL SVC042SC
LAB FILE ID: RCJ502 RCJ498 RCJ499
DATE EXTRACTED: 03/28/1217:47 03/28/1217:47 03/28/1217:47 DATE COLLECTED: NA
DATE ANALYZED: 03/29/1216:36 03/29/1215:21 03/29/1215:40 DATE RECEIVED: 03/28/12
PREP. BATCH: SVC042S SVC042S SVC042S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 555 | 83 | 667 | 538 | 81 | 3 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 582 | 87 | 667 | 547 | 82 | 6 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 573 | 86 | 667 | 541 | 81 | 6 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 582 | 87 | 667 | 547 | 82 | 6 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 583 | 87 | 667 | 560 | 84 | 4 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 658 | 99 | 667 | 627 | 94 | 5 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 675 | 101 | 667 | 635 | 95 | 6 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 650 | 98 | 667 | 615 | 92 | 6 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 557 | 84 | 667 | 484 | 73 | 14 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 757 | 114 | 667 | 716 | 107 | 6 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 724 | 109 | 667 | 660 | 99 | 9 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 629 | 94 | 667 | 592 | 89 | 6 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 634 | 95 | 667 | 642 | 96 | 1 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 763 | 114 | 667 | 674 | 101 | 12 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 588 | 88 | 667 | 546 | 82 | 7 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 649 | 97 | 667 | 604 | 91 | 7 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 691 | 104 | 667 | 655 | 98 | 5 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 692 | 104 | 667 | 653 | 98 | 6 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 620 | 93 | 667 | 574 | 86 | 8 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 730 | 109 | 667 | 675 | 101 | 8 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 670 | 100 | 667 | 639 | 96 | 5 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 642 | 96 | 667 | 598 | 90 | 7 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 574 | 86 | 667 | 524 | 79 | 9 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 716 | 107 | 667 | 675 | 101 | 6 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 610 | 92 | 667 | 581 | 87 | 5 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 745 | 112 | 667 | 620 | 93 | 18 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 521 | 78 | 667 | 506 | 76 | 3 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 698 | 105 | 667 | 667 | 100 | 5 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 714 | 107 | 667 | 674 | 101 | 6 | 30-130 | 50 |
| Anthracene | ND | 667 | 723 | 108 | 667 | 679 | 102 | 6 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 771 | 116 | 667 | 745 | 112 | 3 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 746 | 112 | 667 | 715 | 107 | 4 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 778 | 117 | 667 | 760 | 114 | 2 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 810 | 121 | 667 | 772 | 116 | 5 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 789 | 118 | 667 | 753 | 113 | 5 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 683 | 102 | 667 | 642 | 96 | 6 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 667 | 100 | 667 | 626 | 94 | 6 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 726 | 109 | 667 | 672 | 101 | 8 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 774 | 116 | 667 | 750 | 113 | 3 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 795 | 119 | 667 | 760 | 114 | 5 | 40-150 | 50 |
| Chrysene | ND | 667 | 806 | 121 | 667 | 776 | 116 | 4 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 739 | 111 | 667 | 719 | 108 | 3 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 776 | 116 | 667 | 739 | 111 | 5 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 799 | 120 | 667 | 765 | 115 | 4 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 659 | 99 | 667 | 630 | 94 | 4 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 690 | 103 | 667 | 649 | 97 | 6 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 668 | 100 | 667 | 637 | 95 | 5 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 790 | 119 | 667 | 764 | 115 | 3 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 711 | 107 | 667 | 668 | 100 | 6 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 677 | 102 | 667 | 644 | 97 | 5 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 610 | 92 | 667 | 578 | 87 | 5 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 369 | 55 | 667 | 354 | 53 | 4 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 580 | 87 | 667 | 547 | 82 | 6 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 793 | 119 | 667 | 766 | 115 | 3 | 30-140 | 50 |
| Isophorone | ND | 667 | 684 | 103 | 667 | 635 | 95 | 7 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 551 | 83 | 667 | 517 | 78 | 6 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 532 | 80 | 667 | 508 | 76 | 5 | 30-140 | 50 |
| Naphthalene | ND | 667 | 689 | 103 | 667 | 649 | 97 | 6 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 710 | 107 | 667 | 667 | 100 | 6 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 622 | 93 | 667 | 574 | 86 | 8 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 757 | 114 | 667 | 718 | 108 | 5 | 30-130 | 50 |
| Phenol | ND | 667 | 619 | 93 | 667 | 601 | 90 | 3 | 30-130 | 50 |
| Pyrene | ND | 667 | 782 | 117 | 667 | 744 | 112 | 5 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 592 | 89 | 667 | 572 | 86 | 4 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 706 | 106 | 667 | 669 | 100 | 5 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 617 | 93 | 667 | 580 | 87 | 6 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 604 | 91 | 667 | 587 | 88 | 3 | 20-150 | 50 |
| Aniline | ND | 667 | 442 | 66 | 667 | 415 | 62 | 6 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1440 | 54 | 2670 | 1400 | 52 | 3 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 1160 | 43 | 2670 | 922 | 35 | 23 | 10-130 | 50 |
| Carbazole | ND | 667 | 701 | 105 | 667 | 683 | 103 | 3 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 663 | 99 | 667 | 626 | 94 | 6 | 30-150 | 50 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 927 | 93 | 1000 | 859 | 86 | 35-130 |
| 2-Fluorobiphenyl | 333 | 278 | 83 | 333 | 264 | 79 | 45-130 |
| 2-Fluorophenol | 1000 | 808 | 81 | 1000 | 747 | 75 | 25-130 |
| Nitrobenzene-d5 | 333 | 271 | 81 | 333 | 248 | 75 | 40-130 |
| Phenol-d5 | 1000 | 842 | 84 | 1000 | 757 | 76 | 25-120 |
| Terphenyl-d14 | 333 | 349 | 105 | 333 | 331 | 99 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-069-NBZ-SB-3.0-4.0 | Date Analyzed: 03/29/12 20:03 |
| Lab Samp ID: C182-02 | Dilution Factor: 1 |
| Lab File ID: RCJ512 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 4.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.89 |
| ACENAPHTHYLENE | ND | 1.8 | 0.89 |
| ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)PYRENE | ND | 1.8 | 0.89 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.89 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.89 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.89 |
| CHRYSENE | ND | 1.8 | 0.89 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.89 |
| FLUORANTHENE | ND | 1.8 | 0.89 |
| FLUORENE | ND | 1.8 | 0.89 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.89 |
| NAPHTHALENE | ND | 1.8 | 0.89 |
| PHENANTHRENE | ND | 1.8 | 0.89 |
| PYRENE | ND | 1.8 | 0.89 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 8.8 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 8.8 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 8.8 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 8.8 |
| DIETHYLPHTHALATE | ND | 18 | 8.8 |
| DIMETHYLPHTHALATE | ND | 18 | 8.8 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.89 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 269 | 349.7 | 76.8 | 40-130 |
| 2-FLUOROBIPHENYL | 248 | 349.7 | 70.9 | 45-130 |
| TERPHENYL-D14 | 370 | 349.7 | 106 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-070-NBZ-SS-0.0-0.5 | Date Analyzed: 03/29/12 20:22 |
| Lab Samp ID: C182-03 | Dilution Factor: 1 |
| Lab File ID: RCJ513 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 12.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.97 |
| ACENAPHTHYLENE | ND | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)PYRENE | 1.1J | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | 1.6J | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | 1.2J | 1.9 | 0.97 |
| CHRYSENE | 1.1J | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | 1.9J | 1.9 | 0.97 |
| FLUORENE | ND | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.97 |
| NAPHTHALENE | ND | 1.9 | 0.97 |
| PHENANTHRENE | ND | 1.9 | 0.97 |
| PYRENE | 1.7J | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 11J | 19 | 9.6 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.6 |
| DIETHYLPHTHALATE | ND | 19 | 9.6 |
| DIMETHYLPHTHALATE | ND | 19 | 9.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 235 | 380.5 | 61.9 | 40-130 |
| 2-FLUOROBIPHENYL | 225 | 380.5 | 59.1 | 45-130 |
| TERPHENYL-D14 | 335 | 380.5 | 88.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-075-NBZ-SS-0.0-0.5 | Date Analyzed: 03/29/12 20:40 |
| Lab Samp ID: C182-04 | Dilution Factor: 1 |
| Lab File ID: RCJ514 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 8.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)PYRENE | ND | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | 1.3J | 1.9 | 0.93 |
| CHRYSENE | 1.1J | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | 2.2 | 1.9 | 0.93 |
| FLUORENE | ND | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | 1.1J | 1.9 | 0.93 |
| PYRENE | 1.8J | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 12J | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 270 | 365.5 | 73.9 | 40-130 |
| 2-FLUOROBIPHENYL | 272 | 365.5 | 74.4 | 45-130 |
| TERPHENYL-D14 | 357 | 365.5 | 97.7 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-076-NBZ-SS-0.0-0.5 | Date Analyzed: 03/29/12 20:59 |
| Lab Samp ID: C182-05 | Dilution Factor: 1 |
| Lab File ID: RCJ515 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 12.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.97 |
| ACENAPHTHYLENE | ND | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)PYRENE | ND | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.97 |
| CHRYSENE | ND | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | ND | 1.9 | 0.97 |
| FLUORENE | ND | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.97 |
| NAPHTHALENE | ND | 1.9 | 0.97 |
| PHENANTHRENE | ND | 1.9 | 0.97 |
| PYRENE | ND | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 19 | 9.6 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.6 |
| DIETHYLPHTHALATE | ND | 19 | 9.6 |
| DIMETHYLPHTHALATE | ND | 19 | 9.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 310 | 381.8 | 81.2 | 40-130 |
| 2-FLUOROBIPHENYL | 284 | 381.8 | 74.3 | 45-130 |
| TERPHENYL-D14 | 365 | 381.8 | 95.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-077-NBZ-SS-0.0-0.5 | Date Analyzed: 03/29/12 21:18 |
| Lab Samp ID: C182-06 | Dilution Factor: 1 |
| Lab File ID: RCJ516 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 14.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 0.99 |
| ACENAPHTHYLENE | ND | 2.0 | 0.99 |
| ANTHRACENE | ND | 2.0 | 0.99 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 0.99 |
| BENZO(A)PYRENE | ND | 2.0 | 0.99 |
| BENZO(B)FLUORANTHENE | 2.7 | 2.0 | 0.99 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 0.99 |
| BENZO(G,H,I)PERYLENE | 2.0 | 2.0 | 0.99 |
| CHRYSENE | 1.8J | 2.0 | 0.99 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 0.99 |
| FLUORANTHENE | 2.7 | 2.0 | 0.99 |
| FLUORENE | ND | 2.0 | 0.99 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 0.99 |
| NAPHTHALENE | ND | 2.0 | 0.99 |
| PHENANTHRENE | 1.3J | 2.0 | 0.99 |
| PYRENE | 2.6 | 2.0 | 0.99 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 21 | 19 | 9.8 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.8 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.8 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.8 |
| DIETHYLPHTHALATE | ND | 19 | 9.8 |
| DIMETHYLPHTHALATE | ND | 19 | 9.8 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 0.99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 244 | 387.6 | 63.0 | 40-130 |
| 2-FLUOROBIPHENYL | 264 | 387.6 | 68.2 | 45-130 |
| TERPHENYL-D14 | 352 | 387.6 | 90.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-077-NBZ-SB-2.5-3.5 | Date Analyzed: 03/29/12 21:37 |
| Lab Samp ID: C182-08 | Dilution Factor: 1 |
| Lab File ID: RCJ517 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 6.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.91 |
| ACENAPHTHYLENE | ND | 1.8 | 0.91 |
| ANTHRACENE | ND | 1.8 | 0.91 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.91 |
| BENZO(A)PYRENE | ND | 1.8 | 0.91 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.91 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.91 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.91 |
| CHRYSENE | ND | 1.8 | 0.91 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.91 |
| FLUORANTHENE | ND | 1.8 | 0.91 |
| FLUORENE | ND | 1.8 | 0.91 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.91 |
| NAPHTHALENE | ND | 1.8 | 0.91 |
| PHENANTHRENE | ND | 1.8 | 0.91 |
| PYRENE | ND | 1.8 | 0.91 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.91 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 8.9 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 8.9 |
| DIETHYLPHTHALATE | ND | 18 | 8.9 |
| DIMETHYLPHTHALATE | ND | 18 | 8.9 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.91 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 260 | 355.0 | 73.2 | 40-130 |
| 2-FLUOROBIPHENYL | 256 | 355.0 | 72.1 | 45-130 |
| TERPHENYL-D14 | 328 | 355.0 | 92.4 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C182 | Date Extracted: 03/28/12 17:47 |
| Sample ID: MBLK1S | Date Analyzed: 03/29/12 16:36 |
| Lab Samp ID: SVC042SB | Dilution Factor: 1 |
| Lab File ID: RCJ502 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 266 | 333.3 | 79.9 | 40-130 |
| 2-FLUOROBIPHENYL | 250 | 333.3 | 75.0 | 45-130 |
| TERPHENYL-D14 | 313 | 333.3 | 93.8 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVC042SB | SVC042SX | SVC042SY | | |
| LAB FILE ID: | RCJ502 | RCJ500 | RCJ501 | | |
| DATE EXTRACTED: | 03/28/1217:47 | 03/28/1217:47 | 03/28/1217:47 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/29/1216:36 | 03/29/1215:58 | 03/29/1216:17 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | SVC042S | SVC042S | SVC042S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 348 | 104 | 333 | 326 | 98 | 6 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 377 | 113 | 333 | 354 | 106 | 6 | 20-130 | 50 |
| Anthracene | ND | 333 | 340 | 102 | 333 | 327 | 98 | 4 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 349 | 105 | 333 | 346 | 104 | 1 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 371 | 111 | 333 | 367 | 110 | 1 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 386 | 116 | 333 | 399 | 120 | 3 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 401 | 120 | 333 | 382 | 115 | 5 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 397 | 119 | 333 | 393 | 118 | 1 | 30-140 | 50 |
| Chrysene | ND | 333 | 339 | 102 | 333 | 335 | 101 | 1 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 410 | 123 | 333 | 405 | 122 | 1 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 364 | 109 | 333 | 365 | 110 | 0 | 30-130 | 50 |
| Fluorene | ND | 333 | 372 | 112 | 333 | 344 | 103 | 8 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 410 | 123 | 333 | 406 | 122 | 1 | 20-160 | 50 |
| Naphthalene | ND | 333 | 328 | 98 | 333 | 309 | 93 | 6 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 346 | 104 | 333 | 330 | 99 | 5 | 20-130 | 50 |
| Pyrene | ND | 333 | 348 | 105 | 333 | 346 | 104 | 1 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 354 | 106 | 333 | 335 | 101 | 5 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 353 | 106 | 333 | 333 | 100 | 6 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 330 | 99 | 333 | 327 | 98 | 1 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 314 | 94 | 333 | 315 | 94 | 0 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 332 | 100 | 333 | 329 | 99 | 1 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 316 | 95 | 333 | 315 | 95 | 0 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 358 | 107 | 333 | 333 | 100 | 7 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 353 | 106 | 333 | 326 | 98 | 8 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 318 | 95 | 333 | 296 | 89 | 7 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 296 | 89 | 333 | 282 | 85 | 40-130 |
| 2-Fluorobiphenyl | 333 | 265 | 80 | 333 | 250 | 75 | 45-130 |
| Terphenyl-d14 | 333 | 307 | 92 | 333 | 311 | 93 | 45-135 |

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/22/12 09:17 |
| Sample ID: SL-069-NBZ-SB-3.5 | Date Analyzed: 03/22/12 09:17 |
| Lab Samp ID: C182-01 | Dilution Factor: 1.04 |
| Lab File ID: EC20058A | Matrix : SOIL |
| Ext Btch ID: GMC017S | % Moisture : 6.9 |
| Calib. Ref.: EC20057A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.56 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.91 | 2.234 | 85.7 | 60-130 |

RL : Reporting Limit

METHANOL EXTRACTION: 03/21/12 10:10

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/22/12 09:59 |
| Sample ID: SL-077-NBZ-SB-3.0 | Date Analyzed: 03/22/12 09:59 |
| Lab Samp ID: C182-07 | Dilution Factor: 1.12 |
| Lab File ID: EC20059A | Matrix : SOIL |
| Ext Btch ID: GMC017S | % Moisture : 6.6 |
| Calib. Ref.: EC20057A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.2 | 0.60 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 2.10 | 2.398 | 87.5 | 60-130 |

RL : Reporting Limit

METHANOL EXTRACTION: 03/21/12 10:10

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/21/12 21:23 |
| Sample ID: TB-032012 | Date Analyzed: 03/21/12 21:23 |
| Lab Samp ID: C182-09 | Dilution Factor: 1 |
| Lab File ID: EC20041A | Matrix : WATER |
| Ext Btch ID: VA39C11 | % Moisture : NA |
| Calib. Ref.: EC20035A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 26J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 34.5 | 40.00 | 86.3 | 60-130 |

RL : Reporting Limit

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/21/12 |
| Batch No. : 12C182 | Date Extracted: 03/21/12 22:04 |
| Sample ID: MBLK1S | Date Analyzed: 03/21/12 22:04 |
| Lab Samp ID: GMC017SB | Dilution Factor: 1 |
| Lab File ID: EC20042A | Matrix : SOIL |
| Ext Btch ID: GMC017S | % Moisture : NA |
| Calib. Ref.: EC20035A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.76 | 2.000 | 88.1 | 60-130 |

RL : Reporting Limit

METHANOL EXTRACTION: 03/21/12 10:10

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/21/12 |
| Batch No. : 12C182 | Date Extracted: 03/21/12 15:07 |
| Sample ID: MBLK1W | Date Analyzed: 03/21/12 15:07 |
| Lab Samp ID: VA39C11B | Dilution Factor: 1 |
| Lab File ID: EC20032A | Matrix : WATER |
| Ext Btch ID: VA39C11 | % Moisture : NA |
| Calib. Ref.: EC20024A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 32.7 | 40.00 | 81.9 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: METHOD 5035/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | GMC017SB | GMC017SL | GMC017SC | | |
| LAB FILE ID: | EC20042A | EC20043A | EC20044A | | |
| DATE EXTRACTED: | 03/21/1222:04 | 03/21/1222:46 | 03/21/1223:28 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/21/1222:04 | 03/21/1222:46 | 03/21/1223:28 | DATE RECEIVED: | 03/21/12 |
| PREP. BATCH: | GMC017S | GMC017S | GMC017S | | |
| CALIB. REF: | EC20035A | EC20035A | EC20035A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 25.0 | 21.5 | 86 | 25.0 | 22.1 | 88 | 3 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 2.00 | 1.94 | 97 | 2.00 | 1.98 | 99 | 60-130 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: METHOD 5030B/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VA39C11B | VA39C11L | VA39C11C | | |
| LAB FILE ID: | EC20032A | EC20033A | EC20034A | | |
| DATE EXTRACTED: | 03/21/1215:07 | 03/21/1215:49 | 03/21/1216:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/21/1215:07 | 03/21/1215:49 | 03/21/1216:30 | DATE RECEIVED: | 03/21/12 |
| PREP. BATCH: | VA39C11 | VA39C11 | VA39C11 | | |
| CALIB. REF: | EC20024A | EC20024A | EC20024A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 500 | 535 | 107 | 500 | 530 | 106 | 1 | 60-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 40.0 | 40.6 | 102 | 40.0 | 39.9 | 100 | 60-130 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/22/12 12:45 |
| Sample ID: SL-069-NBZ-SB-3.0-4.0 | Date Analyzed: 03/22/12 15:05 |
| Lab Samp ID: C182-02 | Dilution Factor: 1 |
| Lab File ID: BC22011A | Matrix : SOIL |
| Ext Btch ID: MEC006S | % Moisture : 4.7 |
| Calib. Ref.: BC22002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/22/12 12:45 |
| Sample ID: SL-070-NBZ-SS-0.0-0.5 | Date Analyzed: 03/22/12 15:23 |
| Lab Samp ID: C182-03 | Dilution Factor: 1 |
| Lab File ID: BC22012A | Matrix : SOIL |
| Ext Btch ID: MEC006S | % Moisture : 12.4 |
| Calib. Ref.: BC22002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 570 | 290 |
| ISOPROPANOL | ND | 570 | 290 |
| METHANOL | ND | 570 | 290 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C182 | Date Extracted: 03/22/12 12:45 |
| Sample ID: MBLK1S | Date Analyzed: 03/22/12 13:36 |
| Lab Samp ID: MEC006SB | Dilution Factor: 1 |
| Lab File ID: BC22007A | Matrix : SOIL |
| Ext Btch ID: MEC006S | % Moisture : NA |
| Calib. Ref.: BC22002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 500 | 250 |
| ISOPROPANOL | ND | 500 | 250 |
| METHANOL | ND | 500 | 250 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | MEC006SB | MEC006SL | MEC006SY | | |
| LAB FILE ID: | BC22007A | BC22008A | BC22010A | | |
| DATE EXTRACTED: | 03/22/1212:45 | 03/22/1212:45 | 03/22/1212:45 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/22/1213:36 | 03/22/1214:15 | 03/22/1214:46 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | MEC006S | MEC006S | MEC006S | | |
| CALIB. REF: | BC22002A | BC22002A | BC22002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 9010 | 90 | 10000 | 8690 | 87 | 4 | 50-150 | 50 |
| Isopropanol | ND | 10000 | 9530 | 95 | 10000 | 8340 | 83 | 13 | 50-150 | 50 |
| Methanol | ND | 10000 | 10500 | 105 | 10000 | 10200 | 102 | 2 | 50-150 | 50 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/20/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/20/12 |
| Batch No. | : 12C182 | Date Extracted | : 03/22/12 12:45 |
| Sample ID | : SL-069-NBZ-SB-3.0-4.0 | Date Analyzed | : 03/22/12 16:22 |
| Lab Samp ID | : C182-02 | Dilution Factor | : 1 |
| Lab File ID | : TC22012A | Matrix | : SOIL |
| Ext Btch ID | : PEC004S | % Moisture | : 4.7 |
| Calib. Ref. | : TC22002A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.9 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/22/12 12:45 |
| Sample ID: SL-070-NBZ-SS-0.0-0.5 | Date Analyzed: 03/22/12 16:34 |
| Lab Samp ID: C182-03 | Dilution Factor: 1 |
| Lab File ID: TC22013A | Matrix : SOIL |
| Ext Btch ID: PEC004S | % Moisture : 12.4 |
| Calib. Ref.: TC22002A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 17 | 8.6 |
| ETHYLENE GLYCOL | ND | 11 | 5.7 |
| PROPYLENE GLYCOL | ND | 11 | 5.7 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C182 | Date Extracted | : 03/22/12 12:45 |
| Sample ID | : MBLK1S | Date Analyzed | : 03/22/12 15:21 |
| Lab Samp ID | : PEC004SB | Dilution Factor | : 1 |
| Lab File ID | : TC22009A | Matrix | : SOIL |
| Ext Btch ID | : PEC004S | % Moisture | : NA |
| Calib. Ref. | : TC22002A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.5 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 5.0 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PEC004SB | PEC004SL | PEC004SC | | |
| LAB FILE ID: | TC22009A | TC22010A | TC22011A | | |
| DATE EXTRACTED: | 03/22/1212:45 | 03/22/1212:45 | 03/22/1212:45 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/22/1215:21 | 03/22/1215:34 | 03/22/1215:46 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | PEC004S | PEC004S | PEC004S | | |
| CALIB. REF: | TC22002A | TC22002A | TC22002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 41.4 | 83 | 50.0 | 52.2 | 104 | 23 | 50-150 | 50 |
| Ethylene Glycol | ND | 50.0 | 47.2 | 94 | 50.0 | 53.1 | 106 | 12 | 50-150 | 50 |
| Propylene Glycol | ND | 25.0 | 24.5 | 98 | 25.0 | 26.2 | 105 | 6 | 50-150 | 50 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/23/12 10:45 |
| Sample ID: SL-069-NBZ-SB-3.0-4.0 | Date Analyzed: 03/24/12 01:03 |
| Lab Samp ID: C182-02 | Dilution Factor: 1 |
| Lab File ID: LC23029A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : 4.7 |
| Calib. Ref.: LC23027A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.52 |
| EFH(C12-C14) | ND | 1.0 | 0.52 |
| EFH(C15-C20) | ND | 1.0 | 0.52 |
| EFH(C21-C30) | 0.59J | 1.0 | 0.52 |
| EFH(C30-C40) | 0.80J | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | 1.4 | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.28 | 10.49 | 69.3 | 50-150 |
| HEXACOSANE | 2.11 | 2.623 | 80.6 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/23/12 10:45 |
| Sample ID: SL-075-NBZ-SS-0.0-0.5 | Date Analyzed: 03/24/12 01:37 |
| Lab Samp ID: C182-04 | Dilution Factor: 1 |
| Lab File ID: LC23031A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : 8.8 |
| Calib. Ref.: LC23027A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.58J | 1.1 | 0.55 |
| EFH(C12-C14) | ND | 1.1 | 0.55 |
| EFH(C15-C20) | 2.4 | 1.1 | 0.55 |
| EFH(C21-C30) | 45 | 1.1 | 0.55 |
| EFH(C30-C40) | 44 | 1.1 | 0.55 |
| TOTAL EFH(C8-C40) | 92 | 1.1 | 0.55 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 5.94 | 10.96 | 54.2 | 50-150 |
| HEXACOSANE | 2.56 | 2.741 | 93.4 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/23/12 10:45 |
| Sample ID: SL-076-NBZ-SS-0.0-0.5 | Date Analyzed: 03/24/12 01:54 |
| Lab Samp ID: C182-05 | Dilution Factor: 1 |
| Lab File ID: LC23032A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : 12.7 |
| Calib. Ref.: LC23027A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 2.0 | 1.1 | 0.57 |
| EFH(C12-C14) | 2.5 | 1.1 | 0.57 |
| EFH(C15-C20) | 4.1 | 1.1 | 0.57 |
| EFH(C21-C30) | 25 | 1.1 | 0.57 |
| EFH(C30-C40) | 31 | 1.1 | 0.57 |
| TOTAL EFH(C8-C40) | 65 | 1.1 | 0.57 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.90 | 11.45 | 60.2 | 50-150 |
| HEXACOSANE | 2.97 | 2.864 | 104 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/23/12 10:45 |
| Sample ID: SL-077-NBZ-SS-0.0-0.5 | Date Analyzed: 03/24/12 02:11 |
| Lab Samp ID: C182-06 | Dilution Factor: 1 |
| Lab File ID: LC23033A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : 14.0 |
| Calib. Ref.: LC23027A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.2 | 0.58 |
| EFH(C12-C14) | 0.63J | 1.2 | 0.58 |
| EFH(C15-C20) | 1.5 | 1.2 | 0.58 |
| EFH(C21-C30) | 23 | 1.2 | 0.58 |
| EFH(C30-C40) | 34 | 1.2 | 0.58 |
| TOTAL EFH(C8-C40) | 59 | 1.2 | 0.58 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.55 | 11.63 | 56.3 | 50-150 |
| HEXACOSANE | 2.89 | 2.907 | 99.4 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/23/12 10:45 |
| Sample ID: SL-077-NBZ-SB-2.5-3.5 | Date Analyzed: 03/24/12 01:20 |
| Lab Samp ID: C182-08 | Dilution Factor: 1 |
| Lab File ID: LC23030A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : 6.1 |
| Calib. Ref.: LC23027A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.53 |
| EFH(C12-C14) | ND | 1.1 | 0.53 |
| EFH(C15-C20) | ND | 1.1 | 0.53 |
| EFH(C21-C30) | 1.6 | 1.1 | 0.53 |
| EFH(C30-C40) | 1.5 | 1.1 | 0.53 |
| TOTAL EFH(C8-C40) | 3.1 | 1.1 | 0.53 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.93 | 10.65 | 65.1 | 50-150 |
| HEXACOSANE | 2.23 | 2.662 | 83.7 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C182 | Date Extracted: 03/23/12 10:45 |
| Sample ID: MBLK1S | Date Analyzed: 03/23/12 18:18 |
| Lab Samp ID: DSC026SB | Dilution Factor: 1 |
| Lab File ID: LC23005A | Matrix : SOIL |
| Ext Btch ID: DSC026S | % Moisture : NA |
| Calib. Ref.: LC23003A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.51 | 10.00 | 75.1 | 50-150 |
| HEXACOSANE | 2.04 | 2.500 | 81.6 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSC026SB | DSC026SL | DSC026SC | | |
| LAB FILE ID: | LC23005A | LC23006A | LC23007A | | |
| DATE EXTRACTED: | 03/23/1210:45 | 03/23/1210:45 | 03/23/1210:45 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1218:18 | 03/23/1218:35 | 03/23/1218:51 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | DSC026S | DSC026S | DSC026S | | |
| CALIB. REF: | LC23003A | LC23003A | LC23003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 41.8 | 84 | 50.0 | 45.6 | 91 | 9 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 7.72 | 77 | 10.0 | 7.49 | 75 | 50-150 |
| Hexacosane | 2.50 | 1.98 | 79 | 2.50 | 2.02 | 81 | 50-150 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/29/12 18:18 |
| Sample ID: SL-070-NBZ-SS-0.0-0.5 | Date Analyzed: 04/03/12 13:22 |
| Lab Samp ID: C182-03 | Dilution Factor: 1 |
| Lab File ID: LD03011A | Matrix : SOIL |
| Ext Btch ID: CPC053S | % Moisture : 12.4 |
| Calib. Ref.: LD03004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| BETA-BHC | (ND) \| 0.21 | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR | 0.37 \| (ND) | 0.19 | 0.097 \| 0.097 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| ALDRIN | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| ENDOSULFAN I | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| 4,4'-DDE | 0.38J \| (ND) | 0.39 | 0.19 \| 0.19 |
| DIELDRIN | 0.22J \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN II | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDT | (0.21J) \| 0.89 | 0.39 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| ND | 1.9 | 0.97 \| 0.97 |
| MIREX | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.5 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.091 \| (5.929) | 6.088 | 83.6 \| (97.4) | 50-130 |
| DECACHLOROBIPHENYL | (4.849) \| 4.419 | 6.088 | (79.6) \| 72.6 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/29/12 18:18 |
| Sample ID: SL-075-NBZ-SS-0.0-0.5 | Date Analyzed: 04/03/12 13:43 |
| Lab Samp ID: C182-04 | Dilution Factor: 1 |
| Lab File ID: LD03012A | Matrix : SOIL |
| Ext Btch ID: CPC053S | % Moisture : 8.8 |
| Calib. Ref.: LD03004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|43 | 0.19 | 0.093\|0.093 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.19 | 0.093\|0.093 |
| BETA-BHC | (ND)\|ND | 0.19 | 0.093\|0.093 |
| HEPTACHLOR | (ND)\|ND | 0.19 | 0.093\|0.093 |
| DELTA-BHC | (ND)\|ND | 0.19 | 0.093\|0.093 |
| ALDRIN | (ND)\|ND | 0.19 | 0.093\|0.093 |
| HEPTACHLOR EPOXIDE | 0.29\|(ND) | 0.19 | 0.093\|0.093 |
| ENDOSULFAN I | (ND)\|0.29 | 0.19 | 0.093\|0.093 |
| 4,4'-DDE | 0.50\|(ND) | 0.37 | 0.19\|0.19 |
| DIELDRIN | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.37 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDOSULFAN II | (ND)\|0.20J | 0.37 | 0.19\|0.19 |
| 4,4'-DDT | (0.24J)\|1.4 | 0.37 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|0.31J | 0.37 | 0.19\|0.19 |
| METHOXYCHLOR | (ND)\|ND | 1.9 | 0.93\|0.93 |
| MIREX | 0.54\|(ND) | 0.37 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.2 | 3.6\|3.6 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (6.673)\|6.504 | 5.848 | (114)\|111 | 50-130 |
| DECACHLOROBIPHENYL | 4.063\|(4.852) | 5.848 | 69.5\|(83.0) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/29/12 18:18 |
| Sample ID: SL-076-NBZ-SS-0.0-0.5 | Date Analyzed: 04/03/12 14:05 |
| Lab Samp ID: C182-05 | Dilution Factor: 1 |
| Lab File ID: LD03013A | Matrix : SOIL |
| Ext Btch ID: CPC053S | % Moisture : 12.7 |
| Calib. Ref.: LD03004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.89 | 0.19 | 0.097 \| 0.097 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.43 | 0.19 | 0.097 \| 0.097 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR | 0.64 \| (ND) | 0.19 | 0.097 \| 0.097 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| ALDRIN | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR EPOXIDE | 0.32 \| (ND) | 0.19 | 0.097 \| 0.097 |
| ENDOSULFAN I | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| 4,4'-DDE | (0.65) \| 0.89 | 0.39 | 0.19 \| 0.19 |
| DIELDRIN | 0.99 \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDRIN | 0.28J \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| 0.30J | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN II | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDT | (0.72) \| 3.1 | 0.39 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | 2.6 \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| METHOXYCHLOR | 4.1 \| (ND) | 1.9 | 0.97 \| 0.97 |
| MIREX | (ND) \| 1.9 | 0.39 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.686 \| (5.908) | 6.109 | 76.7 \| (96.7) | 50-130 |
| DECACHLOROBIPHENYL | (4.412) \| 4.160 | 6.109 | (72.2) \| 68.1 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/29/12 18:18 |
| Sample ID: SL-077-NBZ-SS-0.0-0.5 | Date Analyzed: 04/03/12 14:27 |
| Lab Samp ID: C182-06 | Dilution Factor: 1 |
| Lab File ID: LD03014A | Matrix : SOIL |
| Ext Btch ID: CPC053S | % Moisture : 14.0 |
| Calib. Ref.: LD03004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| BETA-BHC | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| HEPTACHLOR | 0.16J \| (ND) | 0.20 | 0.099 \| 0.099 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| ALDRIN | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| HEPTACHLOR EPOXIDE | 0.43 \| (ND) | 0.20 | 0.099 \| 0.099 |
| ENDOSULFAN I | (0.21) \| 0.11J | 0.20 | 0.099 \| 0.099 |
| 4,4'-DDE | (1.8) \| 1.8 | 0.40 | 0.20 \| 0.20 |
| DIELDRIN | 0.73 \| (ND) | 0.40 | 0.20 \| 0.20 |
| ENDRIN | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN II | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDT | (2.5) \| 9.5 | 0.40 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | 0.43 \| (ND) | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| 13 | 0.40 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| 0.23J | 0.40 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| 24 | 2.0 | 0.99 \| 0.99 |
| MIREX | 0.71 \| (ND) | 0.40 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.7 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.0 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.977 \| (6.454) | 6.201 | 96.4 \| (104) | 50-130 |
| DECACHLOROBIPHENYL | (5.331) \| 4.714 | 6.201 | (86.0) \| 76.0 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C182 | Date Extracted: 03/29/12 18:18 |
| Sample ID: MBLK1S | Date Analyzed: 04/03/12 12:16 |
| Lab Samp ID: CPC053SB | Dilution Factor: 1 |
| Lab File ID: LD03008A | Matrix : SOIL |
| Ext Btch ID: CPC053S | % Moisture : NA |
| Calib. Ref.: LD03004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.842\|(4.646) | 5.333 | 72.0\|(87.1) | 50-130 |
| DECACHLOROBIPHENYL | 4.743\|(5.438) | 5.333 | 88.9\|(102) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPC053SB CPC053SL CPC053SC
LAB FILE ID: LD03008A LD03009A LD03010A
DATE EXTRACTED: 03/29/1218:18 03/29/1218:18 03/29/1218:18 DATE COLLECTED: NA
DATE ANALYZED: 04/03/1212:16 04/03/1212:38 04/03/1212:59 DATE RECEIVED: 03/29/12
PREP. BATCH: CPC053S CPC053S CPC053S
CALIB. REF: LD03004A LD03004A LD03004A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 2.67 | 2.38\|(3.32) | 89\|(124) | 2.67 | 2.28\|(3.01) | 85\|(113) | 4\|(10) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|ND | 2.67 | 2.51\|(3.18) | 94\|(119) | 2.67 | 2.47\|(2.93) | 93\|(110) | 2\|(8) | 40-130 | 50 |
| beta-BHC | (ND)\|ND | 2.67 | (2.23)\|2.22 | (84)\|83 | 2.67 | 2.26\|(2.29) | 85\|(86) | 1\|(3) | 50-140 | 50 |
| Heptachlor | (ND)\|ND | 2.67 | (3.07)\|2.60 | (115)\|97 | 2.67 | 2.92\|(3.08) | 109\|(115) | 5\|(17) | 30-130 | 50 |
| delta-BHC | (ND)\|ND | 2.67 | (3.22)\|2.91 | (121)\|109 | 2.67 | 3.11\|(3.50) | 116\|(131) | 3\|(18) | 30-150 | 50 |
| Aldrin | (ND)\|ND | 2.67 | (2.81)\|2.75 | (105)\|103 | 2.67 | 2.54\|(2.59) | 95\|(97) | 10\|(6) | 30-130 | 50 |
| Heptachlor Epoxide | (ND)\|ND | 2.67 | 2.81\|(3.11) | 105\|(116) | 2.67 | 2.79\|(2.81) | 104\|(105) | 1\|(10) | 60-140 | 50 |
| Endosulfan I | (ND)\|ND | 2.67 | 2.51\|(2.81) | 94\|(105) | 2.67 | 2.46\|(2.86) | 92\|(107) | 2\|(2) | 50-150 | 50 |
| 4,4'-DDE | (ND)\|ND | 2.67 | (3.09)\|2.89 | (116)\|108 | 2.67 | 2.99\|(3.03) | 112\|(113) | 3\|(5) | 50-150 | 50 |
| Dieldrin | (ND)\|ND | 2.67 | (3.24)\|3.04 | (121)\|114 | 2.67 | 2.86\|(2.97) | 107\|(111) | 12\|(2) | 60-130 | 50 |
| Endrin | (ND)\|ND | 2.67 | 2.88\|(3.03) | 108\|(113) | 2.67 | 2.80\|(2.90) | 105\|(109) | 3\|(4) | 50-140 | 50 |
| 4,4'-DDD | (ND)\|ND | 2.67 | 2.96\|(3.02) | 111\|(113) | 2.67 | 2.92\|(2.97) | 109\|(111) | 1\|(2) | 50-160 | 50 |
| Endosulfan II | (ND)\|ND | 2.67 | 3.01\|(3.13) | 113\|(117) | 2.67 | 3.02\|(3.13) | 113\|(117) | 0\|(0) | 60-150 | 50 |
| 4,4'-DDT | (ND)\|ND | 2.67 | (3.27)\|3.22 | (122)\|121 | 2.67 | (3.31)\|3.13 | (124)\|117 | (1)\|3 | 60-140 | 50 |
| Endrin aldehyde | (ND)\|ND | 2.67 | 2.93\|(3.04) | 110\|(114) | 2.67 | (3.05)\|2.97 | (114)\|111 | (4)\|2 | 50-160 | 50 |
| Endosulfan Sulfate | (ND)\|ND | 2.67 | 3.15\|(3.31) | 118\|(124) | 2.67 | 3.11\|(3.29) | 116\|(123) | 1\|(1) | 70-140 | 50 |
| Endrin Ketone | (ND)\|ND | 2.67 | 3.07\|(3.20) | 115\|(120) | 2.67 | 3.05\|(3.19) | 114\|(119) | 1\|(0) | 70-160 | 50 |
| Methoxychlor | (ND)\|ND | 26.7 | 27.8\|(31.1) | 104\|(116) | 26.7 | 27.9\|(31.2) | 104\|(117) | 0\|(0) | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 4.557\|(5.253) | 85.5\|(98.5) | 5.333 | 4.237\|(5.007) | 79.5\|(93.9) | 50-130 |
| Decachlorobiphenyl | 5.333 | 5.175\|(5.818) | 97.0\|(109) | 5.333 | 5.326\|(5.689) | 99.9\|(107) | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/24/12 12:30 |
| Sample ID: SL-069-NBZ-SB-3.0-4.0 | Date Analyzed: 03/27/12 03:13 |
| Lab Samp ID: C182-02 | Dilution Factor: 1 |
| Lab File ID: KC26033A | Matrix : SOIL |
| Ext Btch ID: CPC036S | % Moisture : 4.7 |
| Calib. Ref.: KC26025A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.555)\|4.920 | 5.596 | (117)\|87.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.254)\|4.614 | 5.596 | (112)\|82.4 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/24/12 12:30 |
| Sample ID: SL-070-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 04:09 |
| Lab Samp ID: C182-03 | Dilution Factor: 1 |
| Lab File ID: KC26034A | Matrix : SOIL |
| Ext Btch ID: CPC036S | % Moisture : 12.4 |
| Calib. Ref.: KC26025A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1254 | 2.6\|(2.0) | 1.9 | 0.97\|0.97 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.716)\|5.292 | 6.088 | (110)\|86.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.697)\|5.510 | 6.088 | (110)\|90.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/24/12 12:30 |
| Sample ID: SL-075-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 05:04 |
| Lab Samp ID: C182-04 | Dilution Factor: 1 |
| Lab File ID: KC26035A | Matrix : SOIL |
| Ext Btch ID: CPC036S | % Moisture : 8.8 |
| Calib. Ref.: KC26025A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | 7.2\|(5.2) | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (5.1)\|8.7 | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.813)\|3.887 | 5.848 | (99.4)\|66.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.743)\|5.157 | 5.848 | (115)\|88.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/24/12 12:30 |
| Sample ID: SL-076-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 05:58 |
| Lab Samp ID: C182-05 | Dilution Factor: 1 |
| Lab File ID: KC26036A | Matrix : SOIL |
| Ext Btch ID: CPC036S | % Moisture : 12.7 |
| Calib. Ref.: KC26025A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1254 | 5.9\|(4.2) | 1.9 | 0.97\|0.97 |
| AROCLOR 1260 | (3.9)\|4.4 | 1.9 | 0.97\|0.97 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5460 | 7.1\|(6.2) | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.461)\|4.747 | 6.109 | (106)\|77.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.797)\|4.503 | 6.109 | (111)\|73.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/24/12 12:30 |
| Sample ID: SL-077-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 06:53 |
| Lab Samp ID: C182-06 | Dilution Factor: 1 |
| Lab File ID: KC26037A | Matrix : SOIL |
| Ext Btch ID: CPC036S | % Moisture : 14.0 |
| Calib. Ref.: KC26025A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1254 | 5.9\|(3.8) | 2.0 | 0.99\|0.99 |
| AROCLOR 1260 | (3.6)\|5.0 | 2.0 | 0.99\|0.99 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.139)\|5.030 | 6.201 | (115)\|81.1 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.515)\|5.454 | 6.201 | (121)\|88.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/24/12 12:30 |
| Sample ID: SL-077-NBZ-SB-2.5-3.5 | Date Analyzed: 03/27/12 07:48 |
| Lab Samp ID: C182-08 | Dilution Factor: 1 |
| Lab File ID: KC26038A | Matrix : SOIL |
| Ext Btch ID: CPC036S | % Moisture : 6.1 |
| Calib. Ref.: KC26025A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1254 | 5.7\|(4.2) | 1.8 | 0.91\|0.91 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.337)\|4.397 | 5.679 | (112)\|77.4 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.392)\|4.665 | 5.679 | (113)\|82.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/24/12 |
| Batch No. : 12C182 | Date Extracted: 03/24/12 12:30 |
| Sample ID: MBLK1S | Date Analyzed: 03/27/12 00:28 |
| Lab Samp ID: 60C036SB | Dilution Factor: 1 |
| Lab File ID: KC26030A | Matrix : SOIL |
| Ext Btch ID: CPC036S | % Moisture : NA |
| Calib. Ref.: KC26025A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.254)\|4.713 | 5.333 | (117)\|88.4 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.904)\|4.811 | 5.333 | (111)\|90.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60C036SB | 60C036SL | 60C036SC | | |
| LAB FILE ID: | KC26030A | KC26031A | KC26032A | | |
| DATE EXTRACTED: | 03/24/1212:30 | 03/24/1212:30 | 03/24/1212:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/27/1200:28 | 03/27/1201:23 | 03/27/1202:18 | DATE RECEIVED: | 03/24/12 |
| PREP. BATCH: | CPC036S | CPC036S | CPC036S | | |
| CALIB. REF: | KC26025A | KC26025A | KC26025A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (60.5)\|50.2 | (91)\|75 | 66.7 | (70.3)\|58.2 | (105)\|87 | (15)\|15 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (76.7)\|62.4 | (115)\|94 | 66.7 | (88.6)\|71.6 | (133)\|107 | (14)\|14 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | (69.3)\|65.5 | (104)\|98 | 66.7 | (69.6)\|65.6 | (104)\|98 | (0)\|0 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | 6.491\|(4.874) | 122*\|(91.4) | 5.333 | (6.234)\|4.695 | (117)\|88.0 | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (6.105)\|4.755 | (114)\|89.2 | 5.333 | (5.644)\|4.467 | (106)\|83.8 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/24/12 10:54 |
| Sample ID: SL-070-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 01:39 |
| Lab Samp ID: C182-03 | Dilution Factor: 1 |
| Lab File ID: WC26031A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : 12.4 |
| Calib. Ref.: WC26028A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | 8.7\|(ND) | 4.1 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.097\|0.097 |
| 2,4,5-TP(SILVEX) | (ND)\|22 | 0.19 | 0.097\|0.097 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.68\|0.68 |
| DICHLOROPROP | (ND)\|8.8 | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| MCPA | 2300\|(ND) | 290 | 140\|140 |
| MCPP | (ND)\|400 | 290 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (91.28)\|71.04 | 171.2 | (53.3)\|41.5 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/24/12 10:54 |
| Sample ID: SL-075-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 01:59 |
| Lab Samp ID: C182-04 | Dilution Factor: 1 |
| Lab File ID: WC26032A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : 8.8 |
| Calib. Ref.: WC26028A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | 11\|(ND) | 3.9 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| 2,4,5-T | 0.61\|(ND) | 0.19 | 0.093\|0.093 |
| 2,4,5-TP(SILVEX) | 0.47\|(ND) | 0.19 | 0.093\|0.093 |
| DALAPON | (ND)\|ND | 9.9 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.66\|0.66 |
| DICHLOROPROP | (ND)\|19 | 2.6 | 1.3\|1.3 |
| DINOSEB | 3.7\|(ND) | 1.9 | 0.93\|0.93 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (51.82)\|39.42 | 164.5 | (31.5)\|24.0 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/24/12 10:54 |
| Sample ID: SL-076-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 02:20 |
| Lab Samp ID: C182-05 | Dilution Factor: 1 |
| Lab File ID: WC26033A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : 12.7 |
| Calib. Ref.: WC26028A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|2.4J | 4.1 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| 2,4,5-T | (ND)\|0.42 | 0.19 | 0.097\|0.097 |
| 2,4,5-TP(SILVEX) | 0.23\|(ND) | 0.19 | 0.097\|0.097 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.69\|0.69 |
| DICHLOROPROP | (ND)\|18 | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| MCPA | (ND)\|ND | 290 | 140\|140 |
| MCPP | (ND)\|ND | 290 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (71.97)\|55.35 | 171.8 | (41.9)\|32.2 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/24/12 10:54 |
| Sample ID: SL-077-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 02:40 |
| Lab Samp ID: C182-06 | Dilution Factor: 1 |
| Lab File ID: WC26034A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : 14.0 |
| Calib. Ref.: WC26028A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | (ND)\|37 | 2.0 | 0.99\|0.99 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.099\|0.099 |
| 2,4,5-TP(SILVEX) | (ND)\|0.40 | 0.20 | 0.099\|0.099 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|0.70J | 1.4 | 0.70\|0.70 |
| DICHLOROPROP | (ND)\|8.5 | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 0.99\|0.99 |
| MCPA | (ND)\|ND | 290 | 150\|150 |
| MCPP | (ND)\|ND | 290 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (73.19)\|58.59 | 174.4 | (42.0)\|33.6 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/24/12 |
| Batch No. : 12C182 | Date Extracted: 03/24/12 10:54 |
| Sample ID: MBLK1S | Date Analyzed: 03/26/12 20:56 |
| Lab Samp ID: HEC010SB | Dilution Factor: 1 |
| Lab File ID: WC26017A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : NA |
| Calib. Ref.: WC26016A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (94.05)\|83.92 | 150.0 | (62.7)\|55.9 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HEC010SB | HEC010SL | HEC010SC | | |
| LAB FILE ID: | WC26017A | WC26018A | WC26019A | | |
| DATE EXTRACTED: | 03/24/1210:54 | 03/24/1210:54 | 03/24/1210:54 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/26/1220:56 | 03/26/1221:16 | 03/26/1221:36 | DATE RECEIVED: | 03/24/12 |
| PREP. BATCH: | HEC010S | HEC010S | HEC010S | | |
| CALIB. REF: | WC26016A | WC26016A | WC26016A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | (6.24)\|5.21 | (42)\|35 | 15.0 | (6.67)\|6.36 | (44)\|42 | (7)\|20 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 6.56\|(11.2) | 44\|(75) | 15.0 | 7.46\|(13.4) | 50\|(89) | 13\|(18) | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | 9.58\|(10.5) | 64\|(70) | 15.0 | 10.6\|(12.8) | 71\|(85) | 10\|(20) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 15.0 | (16.2)\|13.6 | (108)\|91 | 15.0 | 15.5\|(18.1) | 103\|(121) | 4\|(28) | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | (10.4)\|9.77 | (69)\|65 | 15.0 | (10.7)\|9.82 | (71)\|65 | (3)\|1 | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (10.6)\|10.1 | (71)\|67 | 15.0 | (11.4)\|11.0 | (76)\|73 | (7)\|9 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | (13.0)\|31.4 | (87)\|209* | 15.0 | (13.5)\|33.0 | (90)\|220* | (4)\|5 | 60-160 | 50 |
| Dinoseb | (ND)\|ND | 15.0 | (11.6)\|10.5 | (77)\|70 | 15.0 | (11.9)\|10.6 | (79)\|71 | (3)\|1 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (805)\|377 | (107)\|50 | 750 | (989)\|394 | (132)\|53 | (21)\|4 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | 355\|(526) | 47\|(70) | 750 | 368\|(562) | 49\|(75) | 4\|(7) | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 (108.8)\|99.46 | (72.5)\|66.3 | 150.0 | (113.9)\|103.9 | (75.9)\|69.2 | 10-150 | |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/27/12 19:18 |
| Sample ID: SL-069-NBZ-SB-3.0-4.0 | Date Analyzed: 03/28/12 22:18 |
| Lab Samp ID: C182-02 | Dilution Factor: 1 |
| Lab File ID: XC28019A | Matrix : SOIL |
| Ext Btch ID: EXC023S | % Moisture : NA |
| Calib. Ref.: XC28014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1860 | 2000 | 92.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/27/12 19:18 |
| Sample ID: SL-075-NBZ-SS-0.0-0.5 | Date Analyzed: 03/28/12 22:52 |
| Lab Samp ID: C182-04 | Dilution Factor: 1 |
| Lab File ID: XC28020A | Matrix : SOIL |
| Ext Btch ID: EXC023S | % Moisture : NA |
| Calib. Ref.: XC28014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1840 | 2000 | 92.1 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/27/12 19:18 |
| Sample ID: SL-076-NBZ-SS-0.0-0.5 | Date Analyzed: 03/28/12 23:26 |
| Lab Samp ID: C182-05 | Dilution Factor: .99 |
| Lab File ID: XC28021A | Matrix : SOIL |
| Ext Btch ID: EXC023S | % Moisture : NA |
| Calib. Ref.: XC28014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1830 | 1980 | 92.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/27/12 19:18 |
| Sample ID: SL-077-NBZ-SS-0.0-0.5 | Date Analyzed: 03/29/12 00:00 |
| Lab Samp ID: C182-06 | Dilution Factor: .99 |
| Lab File ID: XC28022A | Matrix : SOIL |
| Ext Btch ID: EXC023S | % Moisture : NA |
| Calib. Ref.: XC28014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1930 | 1980 | 97.2 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/27/12 19:18 |
| Sample ID: SL-077-NBZ-SB-2.5-3.5 | Date Analyzed: 03/29/12 00:34 |
| Lab Samp ID: C182-08 | Dilution Factor: 1 |
| Lab File ID: XC28023A | Matrix : SOIL |
| Ext Btch ID: EXC023S | % Moisture : NA |
| Calib. Ref.: XC28014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1940 | 2000 | 96.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C182 | Date Extracted: 03/27/12 19:18 |
| Sample ID: MBLK1S | Date Analyzed: 03/28/12 16:37 |
| Lab Samp ID: EXC023SB | Dilution Factor: 1 |
| Lab File ID: XC28009A | Matrix : SOIL |
| Ext Btch ID: EXC023S | % Moisture : NA |
| Calib. Ref.: XC28002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1900 | 2000 | 94.8 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: METHOD 8330A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXC023SB | EXC023SL | EXC023SC | | |
| LAB FILE ID: | XC28009A | XC28010A | XC28011A | | |
| DATE EXTRACTED: | 03/27/1219:18 | 03/27/1219:18 | 03/27/1219:18 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/28/1216:37 | 03/28/1217:11 | 03/28/1217:46 | DATE RECEIVED: | 03/27/12 |
| PREP. BATCH: | EXC023S | EXC023S | EXC023S | | |
| CALIB. REF: | XC28002A | XC28002A | XC28002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 2400 | 120 | 2000 | 2110 | 105 | 13 | 70-130 | 50 |
| RDX | ND | 2000 | 2120 | 106 | 2000 | 2130 | 106 | 0 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2380 | 119 | 2000 | 2370 | 118 | 0 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2130 | 107 | 2000 | 2170 | 108 | 2 | 70-130 | 50 |
| Tetryl | ND | 2000 | 2480 | 124 | 2000 | 2460 | 123 | 1 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 1900 | 95 | 2000 | 1940 | 97 | 2 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 2120 | 106 | 2000 | 2160 | 108 | 2 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 2140 | 107 | 2000 | 2180 | 109 | 2 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 2120 | 106 | 2000 | 2130 | 107 | 0 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2340 | 117 | 2000 | 2240 | 112 | 4 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2300 | 115 | 2000 | 2290 | 114 | 0 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 2170 | 108 | 2000 | 2270 | 114 | 5 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1940 | 97 | 2000 | 2050 | 102 | 5 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 2240 | 112 | 2000 | 2270 | 113 | 1 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1720 | 86 | 2000 | 1790 | 89 | 4 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2000 | 100 | 2000 | 2160 | 108 | 8 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1910 | 95 | 2000 | 1860 | 93 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/20/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/20/12 |
| Batch No. | : 12C182 | Date Extracted | : 03/27/12 19:18 |
| Sample ID | : SL-069-NBZ-SB-3.0-4.0 | Date Analyzed | : 03/28/12 17:22 |
| Lab Samp ID | : C182-02 | Dilution Factor | : 1 |
| Lab File ID | : PC28012A | Matrix | : SOIL |
| Ext Btch ID | : EXC023S | % Moisture | : NA |
| Calib. Ref. | : PC28002A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2370 | 2000 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/20/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/20/12 |
| Batch No. | : 12C182 | Date Extracted | : 03/27/12 19:18 |
| Sample ID | : SL-075-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/28/12 17:50 |
| Lab Samp ID | : C182-04 | Dilution Factor | : 1 |
| Lab File ID | : PC28014A | Matrix | : SOIL |
| Ext Btch ID | : EXC023S | % Moisture | : NA |
| Calib. Ref. | : PC28013A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2610 | 2000 | 130 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/20/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/20/12 |
| Batch No. | : 12C182 | Date Extracted | : 03/27/12 19:18 |
| Sample ID | : SL-076-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/28/12 18:04 |
| Lab Samp ID | : C182-05 | Dilution Factor | : .99 |
| Lab File ID | : PC28015A | Matrix | : SOIL |
| Ext Btch ID | : EXC023S | % Moisture | : NA |
| Calib. Ref. | : PC28013A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2460 | 1980 | 124 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/20/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/20/12 |
| Batch No. | : 12C182 | Date Extracted | : 03/27/12 19:18 |
| Sample ID | : SL-077-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/28/12 18:18 |
| Lab Samp ID | : C182-06 | Dilution Factor | : .99 |
| Lab File ID | : PC28016A | Matrix | : SOIL |
| Ext Btch ID | : EXC023S | % Moisture | : NA |
| Calib. Ref. | : PC28013A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2550 | 1980 | 129 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| Batch No. : 12C182 | Date Extracted: 03/27/12 19:18 |
| Sample ID: SL-077-NBZ-SB-2.5-3.5 | Date Analyzed: 03/28/12 18:31 |
| Lab Samp ID: C182-08 | Dilution Factor: 1 |
| Lab File ID: PC28017A | Matrix : SOIL |
| Ext Btch ID: EXC023S | % Moisture : NA |
| Calib. Ref.: PC28013A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2540 | 2000 | 127 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/27/12 |
| Batch No. | : 12C182 | Date Extracted | : 03/27/12 19:18 |
| Sample ID | : MBLK1S | Date Analyzed | : 03/28/12 15:20 |
| Lab Samp ID | : EXC023SB | Dilution Factor | : 1 |
| Lab File ID | : PC28003A | Matrix | : SOIL |
| Ext Btch ID | : EXC023S | % Moisture | : NA |
| Calib. Ref. | : PC28002A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2340 | 2000 | 117 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXC023SB | EXC023SX | EXC023SY | | |
| LAB FILE ID: | PC28003A | PC28004A | PC28005A | | |
| DATE EXTRACTED: | 03/27/1219:18 | 03/27/1219:18 | 03/27/1219:18 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/28/1215:20 | 03/28/1215:34 | 03/28/1215:48 | DATE RECEIVED: | 03/27/12 |
| PREP. BATCH: | EXC023S | EXC023S | EXC023S | | |
| CALIB. REF: | PC28002A | PC28002A | PC28002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7440 | 99 | 7500 | 7670 | 102 | 3 | 50-150 | 50 |
| PETN | ND | 7500 | 7850 | 105 | 7500 | 7860 | 105 | 0 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2360 | 118 | 2000 | 2370 | 118 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/20/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/20/12 |
| SDG NO. | : 12C182 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-069-NBZ-SB-3.0-4.0 | Date Analyzed | : 03/28/12 13:59 |
| Lab Samp ID | : C182-02 | Dilution Factor | : 0.980 |
| Lab File ID | : 98C14048 | Matrix | : SOIL |
| Ext Btch ID | : IMC033S | % Moisture | : 4.7 |
| Calib. Ref. | : 98C14038 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11400 | 24.7 | 12.3 |
| Antimony | 0.138J | 0.206 | 0.103 |
| Arsenic | 3.55 | 0.411 | 0.206 |
| Barium | 77.9 | 0.411 | 0.206 |
| Beryllium | 0.523 | 0.103 | 0.0514 |
| Boron | ND | 5.14 | 2.57 |
| Cadmium | 0.0901J | 0.103 | 0.0514 |
| Calcium | 1170 | 20.6 | 10.3 |
| Chromium | 10.1 | 0.411 | 0.206 |
| Cobalt | 3.88 | 0.103 | 0.0514 |
| Copper | 3.82 | 0.411 | 0.206 |
| Iron | 17000 | 20.6 | 10.3 |
| Lead | 4.79 | 0.206 | 0.103 |
| Magnesium | 3050 | 10.3 | 5.14 |
| Manganese | 217 | 0.514 | 0.257 |
| Molybdenum | 0.448 | 0.103 | 0.0514 |
| Nickel | 6.44 | 0.411 | 0.206 |
| Potassium | 2230 | 61.7 | 30.8 |
| Selenium | ND | 0.411 | 0.206 |
| Silver | ND | 0.103 | 0.0514 |
| Sodium | 78.7J | 103 | 51.4 |
| Strontium | 11.1 | 0.514 | 0.257 |
| Thallium | 0.213 | 0.103 | 0.0514 |
| Tin | ND | 10.3 | 5.14 |
| Titanium | 816 | 1.03 | 0.514 |
| Vanadium | 22.9 | 0.103 | 0.0514 |
| Zinc | 46.6 | 3.08 | 1.54 |
| Lithium | 27.1 | 2.06 | 1.03 |
| Phosphorus | 143 | 12.3 | 6.17 |
| Zirconium | ND | 5.14 | 2.57 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/20/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/20/12 |
| SDG NO. | : 12C182 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-070-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/28/12 14:18 |
| Lab Samp ID | : C182-03 | Dilution Factor | : 0.971 |
| Lab File ID | : 98C14052 | Matrix | : SOIL |
| Ext Btch ID | : IMC033S | % Moisture | : 12.4 |
| Calib. Ref. | : 98C14050 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10900 | 26.6 | 13.3 |
| Antimony | 0.439 | 0.222 | 0.111 |
| Arsenic | 5.87 | 0.443 | 0.222 |
| Barium | 137 | 0.443 | 0.222 |
| Beryllium | 0.572 | 0.111 | 0.0554 |
| Boron | ND | 5.54 | 2.77 |
| Cadmium | 0.234 | 0.111 | 0.0554 |
| Calcium | 2980 | 22.2 | 11.1 |
| Chromium | 18.7 | 0.443 | 0.222 |
| Cobalt | 6.14 | 0.111 | 0.0554 |
| Copper | 10.8 | 0.443 | 0.222 |
| Iron | 21700 | 22.2 | 11.1 |
| Lead | 8.06 | 0.222 | 0.111 |
| Magnesium | 4900 | 11.1 | 5.54 |
| Manganese | 293 | 0.554 | 0.277 |
| Molybdenum | 0.517 | 0.111 | 0.0554 |
| Nickel | 12.0 | 0.443 | 0.222 |
| Potassium | 3690 | 66.5 | 33.3 |
| Selenium | ND | 0.443 | 0.222 |
| Silver | 0.153 | 0.111 | 0.0554 |
| Sodium | 69.3J | 111 | 55.4 |
| Strontium | 29.6 | 0.554 | 0.277 |
| Thallium | 0.273 | 0.111 | 0.0554 |
| Tin | ND | 11.1 | 5.54 |
| Titanium | 906 | 1.11 | 0.554 |
| Vanadium | 37.0 | 0.111 | 0.0554 |
| Zinc | 80.0 | 3.33 | 1.66 |
| Lithium | 23.6 | 2.22 | 1.11 |
| Phosphorus | 344 | 13.3 | 6.65 |
| Zirconium | ND | 5.54 | 2.77 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/20/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/20/12 |
| SDG NO. | : 12C182 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-075-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/28/12 14:22 |
| Lab Samp ID | : C182-04 | Dilution Factor | : 0.985 |
| Lab File ID | : 98C14053 | Matrix | : SOIL |
| Ext Btch ID | : IMC033S | % Moisture | : 8.8 |
| Calib. Ref. | : 98C14050 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 8810 | 25.9 | 13.0 |
| Antimony | 0.249 | 0.216 | 0.108 |
| Arsenic | 4.64 | 0.432 | 0.216 |
| Barium | 73.6 | 0.432 | 0.216 |
| Beryllium | 0.450 | 0.108 | 0.0540 |
| Boron | ND | 5.40 | 2.70 |
| Cadmium | 0.220 | 0.108 | 0.0540 |
| Calcium | 2440 | 21.6 | 10.8 |
| Chromium | 14.6 | 0.432 | 0.216 |
| Cobalt | 5.01 | 0.108 | 0.0540 |
| Copper | 6.92 | 0.432 | 0.216 |
| Iron | 18500 | 21.6 | 10.8 |
| Lead | 6.71 | 0.216 | 0.108 |
| Magnesium | 4320 | 10.8 | 5.40 |
| Manganese | 251 | 0.540 | 0.270 |
| Molybdenum | 0.347 | 0.108 | 0.0540 |
| Nickel | 8.17 | 0.432 | 0.216 |
| Potassium | 3010 | 64.8 | 32.4 |
| Selenium | ND | 0.432 | 0.216 |
| Silver | ND | 0.108 | 0.0540 |
| Sodium | 69.0J | 108 | 54.0 |
| Strontium | 13.0 | 0.540 | 0.270 |
| Thallium | 0.231 | 0.108 | 0.0540 |
| Tin | ND | 10.8 | 5.40 |
| Titanium | 1000 | 1.08 | 0.540 |
| Vanadium | 29.9 | 0.108 | 0.0540 |
| Zinc | 56.2 | 3.24 | 1.62 |
| Lithium | 22.4 | 2.16 | 1.08 |
| Phosphorus | 332 | 13.0 | 6.48 |
| Zirconium | ND | 5.40 | 2.70 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/20/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/20/12 |
| SDG NO. | : 12C182 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-076-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/28/12 14:27 |
| Lab Samp ID | : C182-05 | Dilution Factor | : 0.971 |
| Lab File ID | : 98C14054 | Matrix | : SOIL |
| Ext Btch ID | : IMC033S | % Moisture | : 12.7 |
| Calib. Ref. | : 98C14050 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11000 | 26.7 | 13.3 |
| Antimony | 0.281 | 0.222 | 0.111 |
| Arsenic | 5.24 | 0.445 | 0.222 |
| Barium | 94.9 | 0.445 | 0.222 |
| Beryllium | 0.554 | 0.111 | 0.0556 |
| Boron | ND | 5.56 | 2.78 |
| Cadmium | 0.241 | 0.111 | 0.0556 |
| Calcium | 2550 | 22.2 | 11.1 |
| Chromium | 17.1 | 0.445 | 0.222 |
| Cobalt | 5.69 | 0.111 | 0.0556 |
| Copper | 8.29 | 0.445 | 0.222 |
| Iron | 20700 | 22.2 | 11.1 |
| Lead | 9.80 | 0.222 | 0.111 |
| Magnesium | 4600 | 11.1 | 5.56 |
| Manganese | 283 | 0.556 | 0.278 |
| Molybdenum | 0.608 | 0.111 | 0.0556 |
| Nickel | 10.8 | 0.445 | 0.222 |
| Potassium | 3520 | 66.7 | 33.4 |
| Selenium | ND | 0.445 | 0.222 |
| Silver | 0.0616J | 0.111 | 0.0556 |
| Sodium | 91.6J | 111 | 55.6 |
| Strontium | 16.4 | 0.556 | 0.278 |
| Thallium | 0.249 | 0.111 | 0.0556 |
| Tin | ND | 11.1 | 5.56 |
| Titanium | 994 | 1.11 | 0.556 |
| Vanadium | 34.4 | 0.111 | 0.0556 |
| Zinc | 58.1 | 3.34 | 1.67 |
| Lithium | 22.6 | 2.22 | 1.11 |
| Phosphorus | 311 | 13.3 | 6.67 |
| Zirconium | ND | 5.56 | 2.78 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/20/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/20/12 |
| SDG NO. | : 12C182 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-077-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/28/12 14:31 |
| Lab Samp ID | : C182-06 | Dilution Factor | : 0.962 |
| Lab File ID | : 98C14055 | Matrix | : SOIL |
| Ext Btch ID | : IMC033S | % Moisture | : 14.0 |
| Calib. Ref. | : 98C14050 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9320 | 26.8 | 13.4 |
| Antimony | 0.255 | 0.224 | 0.112 |
| Arsenic | 4.07 | 0.447 | 0.224 |
| Barium | 93.6 | 0.447 | 0.224 |
| Beryllium | 0.435 | 0.112 | 0.0559 |
| Boron | ND | 5.59 | 2.80 |
| Cadmium | 0.268 | 0.112 | 0.0559 |
| Calcium | 2820 | 22.4 | 11.2 |
| Chromium | 15.7 | 0.447 | 0.224 |
| Cobalt | 5.17 | 0.112 | 0.0559 |
| Copper | 7.85 | 0.447 | 0.224 |
| Iron | 18500 | 22.4 | 11.2 |
| Lead | 15.0 | 0.224 | 0.112 |
| Magnesium | 4270 | 11.2 | 5.59 |
| Manganese | 286 | 0.559 | 0.280 |
| Molybdenum | 0.478 | 0.112 | 0.0559 |
| Nickel | 9.93 | 0.447 | 0.224 |
| Potassium | 3720 | 67.1 | 33.6 |
| Selenium | ND | 0.447 | 0.224 |
| Silver | 0.0597J | 0.112 | 0.0559 |
| Sodium | 62.5J | 112 | 55.9 |
| Strontium | 16.4 | 0.559 | 0.280 |
| Thallium | 0.213 | 0.112 | 0.0559 |
| Tin | ND | 11.2 | 5.59 |
| Titanium | 921 | 1.12 | 0.559 |
| Vanadium | 30.5 | 0.112 | 0.0559 |
| Zinc | 58.8 | 3.36 | 1.68 |
| Lithium | 19.9 | 2.24 | 1.12 |
| Phosphorus | 379 | 13.4 | 6.71 |
| Zirconium | ND | 5.59 | 2.80 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/20/12 |
| SDG NO. : 12C182 | Date Extracted: 03/27/12 11:30 |
| Sample ID: SL-077-NBZ-SB-2.5-3.5 | Date Analyzed: 03/28/12 15:05 # 03/28/12 15:09 |
| Lab Samp ID: C182-08W #C182-08T | Dilution Factor: 0.990 # 4.95 |
| Lab File ID: 98C14058 #98C14059 | Matrix : SOIL |
| Ext Btch ID: IMC033S | % Moisture : 6.1 |
| Calib. Ref.: 98C14050 | Instrument ID : T-I98 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 21700 | 25.3 | 12.7 |
| | Antimony | 0.319 | 0.211 | 0.105 |
| | Arsenic | 10.0 | 0.422 | 0.211 |
| | Barium | 161 | 0.422 | 0.211 |
| | Beryllium | 0.942 | 0.105 | 0.0527 |
| | Boron | ND | 5.27 | 2.64 |
| | Cadmium | 0.163 | 0.105 | 0.0527 |
| | Calcium | 3100 | 21.1 | 10.5 |
| | Chromium | 29.5 | 0.422 | 0.211 |
| | Cobalt | 9.10 | 0.105 | 0.0527 |
| | Copper | 13.7 | 0.422 | 0.211 |
| | Iron | 34200 | 21.1 | 10.5 |
| | Lead | 8.71 | 0.211 | 0.105 |
| | Magnesium | 7560 | 10.5 | 5.27 |
| | Manganese | 280 | 0.527 | 0.264 |
| | Molybdenum | 1.56 | 0.105 | 0.0527 |
| | Nickel | 15.0 | 0.422 | 0.211 |
| | Potassium | 3110 | 63.3 | 31.6 |
| | Selenium | 0.336J | 0.422 | 0.211 |
| | Silver | ND | 0.105 | 0.0527 |
| | Sodium | 183 | 105 | 52.7 |
| | Strontium | 20.1 | 0.527 | 0.264 |
| | Thallium | 0.372 | 0.105 | 0.0527 |
| | Tin | ND | 10.5 | 5.27 |
| # | Titanium | 1730 | 5.27 | 2.64 |
| | Vanadium | 55.4 | 0.105 | 0.0527 |
| | Zinc | 70.7 | 3.16 | 1.58 |
| | Lithium | 36.7 | 2.11 | 1.05 |
| | Phosphorus | 627 | 12.7 | 6.33 |
| | Zirconium | ND | 5.27 | 2.64 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/27/12 |
| SDG NO. | : 12C182 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : MBLK1S | Date Analyzed | : 03/28/12 12:29 |
| Lab Samp ID | : IMC033SB | Dilution Factor | : 1 |
| Lab File ID | : 98C14028 | Matrix | : SOIL |
| Ext Btch ID | : IMC033S | % Moisture | : NA |
| Calib. Ref. | : 98C14026 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C182
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IMC033SB | IMC033SL | IMC033SC | | |
| LAB FILE ID: | 98C14028 | 98C14029 | 98C14030 | | |
| DATIME EXTRCTD: | 03/27/1211:30 | 03/27/1211:30 | 03/27/1211:30 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 03/28/1212:29 | 03/28/1212:33 | 03/28/1212:38 | DATE RECEIVED: | 03/27/12 |
| PREP. BATCH: | IMC033S | IMC033S | IMC033S | | |
| CALIB. REF: | 98C14026 | 98C14026 | 98C14026 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2530 | 101 | 2500 | 2500 | 100 | 1 | 80-120 | 20 |
| Antimony | ND | 25.0 | 26.1 | 104 | 25.0 | 25.7 | 103 | 1 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 25.2 | 101 | 25.0 | 25.1 | 100 | 0 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.7 | 103 | 25.0 | 25.4 | 102 | 1 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 26.0 | 104 | 25.0 | 25.4 | 101 | 2 | 80-120 | 20 |
| Boron | ND | 25.0 | 26.5 | 106 | 25.0 | 25.8 | 103 | 2 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 25.4 | 102 | 25.0 | 24.9 | 100 | 2 | 80-120 | 20 |
| Calcium | ND | 2500 | 2700 | 108 | 2500 | 2670 | 107 | 1 | 80-120 | 20 |
| Chromium | ND | 25.0 | 25.2 | 101 | 25.0 | 24.6 | 99 | 2 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 25.9 | 104 | 25.0 | 26.0 | 104 | 1 | 80-120 | 20 |
| Copper | ND | 25.0 | 24.6 | 98 | 25.0 | 24.2 | 97 | 1 | 80-120 | 20 |
| Iron | ND | 2500 | 2690 | 108 | 2500 | 2670 | 107 | 1 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.5 | 102 | 25.0 | 24.8 | 99 | 3 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2500 | 100 | 2500 | 2490 | 100 | 1 | 80-120 | 20 |
| Manganese | ND | 25.0 | 26.3 | 105 | 25.0 | 26.3 | 105 | 0 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 25.1 | 100 | 25.0 | 25.0 | 100 | 0 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.6 | 98 | 25.0 | 24.2 | 97 | 2 | 80-120 | 20 |
| Potassium | ND | 2500 | 2670 | 107 | 2500 | 2620 | 105 | 2 | 80-120 | 20 |
| Selenium | ND | 25.0 | 25.9 | 103 | 25.0 | 25.6 | 102 | 1 | 80-120 | 20 |
| Silver | ND | 25.0 | 25.2 | 101 | 25.0 | 25.0 | 100 | 1 | 80-120 | 20 |
| Sodium | ND | 2500 | 2530 | 101 | 2500 | 2470 | 99 | 2 | 80-120 | 20 |
| Strontium | ND | 25.0 | 26.4 | 106 | 25.0 | 26.3 | 105 | 1 | 80-120 | 20 |
| Thallium | ND | 25.0 | 25.8 | 103 | 25.0 | 25.4 | 102 | 1 | 80-120 | 20 |
| Tin | ND | 25.0 | 27.8 | 111 | 25.0 | 27.6 | 110 | 1 | 80-120 | 20 |
| Titanium | ND | 25.0 | 25.9 | 104 | 25.0 | 25.7 | 103 | 1 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 25.2 | 101 | 25.0 | 24.8 | 99 | 2 | 80-120 | 20 |
| Zinc | ND | 50.0 | 48.6 | 97 | 50.0 | 48.3 | 97 | 1 | 80-120 | 20 |
| Lithium | ND | 25.0 | 26.4 | 105 | 25.0 | 25.2 | 101 | 4 | 80-120 | 20 |
| Phosphorus | ND | 250 | 242 | 97 | 250 | 238 | 95 | 2 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 26.2 | 105 | 25.0 | 25.9 | 104 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C182
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 9.8
DILTN FACTR: 0.957 0.957
SAMPLE ID: SL-105-NBZ-SS-0.0-0.5
CONTROL NO.: C209-12 C209-12A
LAB FILE ID: 98C14034 98C14033
DATIME EXTRCTD: 03/27/1211:30 03/27/1211:30 DATE COLLECTED: 03/21/12
DATIME ANALYZD: 03/28/1212:56 03/28/1212:51 DATE RECEIVED: 03/22/12
PREP. BATCH: IMC033S IMC033S
CALIB. REF: 98C14026 98C14026

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 10900 | 2650 | 13400 | 94 | 75-125 |
| Antimony | 0.189J | 26.5 | 27.1 | 102 | 75-125 |
| Arsenic | 3.00 | 26.5 | 28.0 | 94 | 75-125 |
| Barium | 82.9 | 26.5 | 116 | 127* | 75-125 |
| Beryllium | 0.456 | 26.5 | 27.4 | 101 | 75-125 |
| Boron | ND | 26.5 | 28.8 | 109 | 75-125 |
| Cadmium | 0.178 | 26.5 | 25.9 | 97 | 75-125 |
| Calcium | 2860 | 2650 | 5450 | 98 | 75-125 |
| Chromium | 16.7 | 26.5 | 40.5 | 90 | 75-125 |
| Cobalt | 5.62 | 26.5 | 30.0 | 92 | 75-125 |
| Copper | 6.89 | 26.5 | 29.9 | 87 | 75-125 |
| Iron | 20000 | 2650 | 22800 | 106 | 75-125 |
| Lead | 6.25 | 26.5 | 32.1 | 97 | 75-125 |
| Magnesium | 5360 | 2650 | 7840 | 93 | 75-125 |
| Manganese | 292 | 26.5 | 320 | 107 | 75-125 |
| Molybdenum | 0.461 | 26.5 | 26.4 | 98 | 75-125 |
| Nickel | 9.82 | 26.5 | 32.6 | 86 | 75-125 |
| Potassium | 3520 | 2650 | 6060 | 96 | 75-125 |
| Selenium | ND | 26.5 | 26.4 | 100 | 75-125 |
| Silver | ND | 26.5 | 25.5 | 96 | 75-125 |
| Sodium | 65.2J | 2650 | 2410 | 88 | 75-125 |
| Strontium | 14.6 | 26.5 | 41.9 | 103 | 75-125 |
| Thallium | 0.231 | 26.5 | 26.2 | 98 | 75-125 |
| Tin | ND | 26.5 | 29.3 | 111 | 75-125 |
| Titanium | 956 | 26.5 | 997 | 156* | 75-125 |
| Vanadium | 35.5 | 26.5 | 60.1 | 93 | 75-125 |
| Zinc | 49.6 | 53.0 | 98.0 | 91 | 75-125 |
| Lithium | 23.9 | 26.5 | 51.6 | 105 | 75-125 |
| Phosphorus | 391 | 265 | 639 | 94 | 75-125 |
| Zirconium | ND | 26.5 | 25.8 | 97 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 9.8
DILUTION FACTOR: 0.957 4.78
SAMPLE ID: SL-105-NBZ-SS- SL-105-NBZ-SS-
EMAX SAMP ID: C209-12 C209-12J
LAB FILE ID: 98C14034 98C14035
DATE EXTRACTED: 03/27/1211:30 03/27/1211:30 DATE COLLECTED: 03/21/12
DATE ANALYZED: 03/28/1212:56 03/28/1213:00 DATE RECEIVED: 03/22/12
PREP. BATCH: IMC033S IMC033S
CALIB. REF: 98C14026 98C14026

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 10900 | 11100 | 2 | 10 |
| Antimony | 0.189J | ND | NA | 10 |
| Arsenic | 3.00 | 3.06 | 2 | 10 |
| Barium | 82.9 | 80.0 | 3 | 10 |
| Beryllium | 0.456 | 0.437J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.178 | ND | NA | 10 |
| Calcium | 2860 | 2990 | 5 | 10 |
| Chromium | 16.7 | 17.1 | 2 | 10 |
| Cobalt | 5.62 | 5.88 | 5 | 10 |
| Copper | 6.89 | 7.43 | 8 | 10 |
| Iron | 20000 | 20900 | 5 | 10 |
| Lead | 6.25 | 6.22 | 1 | 10 |
| Magnesium | 5360 | 5560 | 4 | 10 |
| Manganese | 292 | 307 | 5 | 10 |
| Molybdenum | 0.461 | 0.464J | NA | 10 |
| Nickel | 9.82 | 10.3 | 5 | 10 |
| Potassium | 3520 | 3440 | 2 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | 65.2J | ND | NA | 10 |
| Strontium | 14.6 | 14.3 | 3 | 10 |
| Thallium | 0.231 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 956 | 946 | 1 | 10 |
| Vanadium | 35.5 | 36.0 | 2 | 10 |
| Zinc | 49.6 | 49.5 | 0 | 10 |
| Lithium | 23.9 | 22.3 | 7 | 10 |
| Phosphorus | 391 | 373 | 4 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C182
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGC021SB | ND | 1 | NA | 0.100 | 0.0500 | 03/26/1218:52 | 03/26/1215:00 | M47C021041 | M47C021032 | HGC021S | NA | 03/26/12 |
| LCS1S | HGC021SL | 0.902 | 1 | NA | 0.100 | 0.0500 | 03/26/1218:54 | 03/26/1215:00 | M47C021042 | M47C021032 | HGC021S | NA | 03/26/12 |
| LCD1S | HGC021SC | 0.900 | 1 | NA | 0.100 | 0.0500 | 03/26/1218:56 | 03/26/1215:00 | M47C021043 | M47C021032 | HGC021S | NA | 03/26/12 |
| SL-069-NBZ-SB-3.0-4.0 | C182-02 | ND | 1.00 | 4.7 | 0.105 | 0.0525 | 03/26/1220:16 | 03/26/1215:00 | M47C021079 | M47C021068 | HGC021S | 03/20/12 | 03/20/12 |
| SL-070-NBZ-SS-0.0-0.5 | C182-03 | ND | 0.997 | 12.4 | 0.114 | 0.0569 | 03/26/1220:22 | 03/26/1215:00 | M47C021082 | M47C021080 | HGC021S | 03/20/12 | 03/20/12 |
| SL-075-NBZ-SS-0.0-0.5 | C182-04 | ND | 0.998 | 8.8 | 0.109 | 0.0547 | 03/26/1220:25 | 03/26/1215:00 | M47C021083 | M47C021080 | HGC021S | 03/20/12 | 03/20/12 |
| SL-076-NBZ-SS-0.0-0.5 | C182-05 | ND | 0.993 | 12.7 | 0.114 | 0.0569 | 03/26/1220:27 | 03/26/1215:00 | M47C021084 | M47C021080 | HGC021S | 03/20/12 | 03/20/12 |
| SL-077-NBZ-SS-0.0-0.5 | C182-06 | ND | 0.997 | 14.0 | 0.116 | 0.0580 | 03/26/1220:29 | 03/26/1215:00 | M47C021085 | M47C021080 | HGC021S | 03/20/12 | 03/20/12 |
| SL-077-NBZ-SB-2.5-3.5 | C182-08 | ND | 0.990 | 6.1 | 0.105 | 0.0527 | 03/26/1220:31 | 03/26/1215:00 | M47C021086 | M47C021080 | HGC021S | 03/20/12 | 03/20/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C182
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGC021SB | HGC021SL | HGC021SC | | |
| LAB FILE ID: | M47C021041 | M47C021042 | M47C021043 | | |
| DATIME EXTRCTD: | 03/26/1215:00 | 03/26/1215:00 | 03/26/1215:00 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 03/26/1218:52 | 03/26/1218:54 | 03/26/1218:56 | DATE RECEIVED: | 03/26/12 |
| PREP. BATCH: | HGC021S | HGC021S | HGC021S | | |
| CALIB. REF: | M47C021032 | M47C021032 | M47C021032 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .902 | 108 | .833 | .9 | 108 | 0 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C182
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 14.9 |
| DILTN FACTR: | 1.00 | 1.00 | | |
| SAMPLE ID: | I-545-HB02-SS10.0 | | | |
| CONTROL NO.: | C190-05 | C190-05A | | |
| LAB FILE ID: | M47C021047 | M47C021046 | | |
| DATIME EXTRCTD: | 03/26/1215:00 | 03/26/1215:00 | DATE COLLECTED: | 03/20/12 |
| DATIME ANALYZD: | 03/26/1219:05 | 03/26/1219:03 | DATE RECEIVED: | 03/21/12 |
| PREP. BATCH: | HGC021S | HGC021S | | |
| CALIB. REF: | M47C021044 | M47C021044 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .979 | 1.04 | 106 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 14.9

| | | | | |
|---|---|---|---|---|
| DILUTION FACTOR: | 1.00 | 5.00 | | |
| SAMPLE ID: | I-545-HB02-SS10.0 | I-545-HB02-SS10.0DL | | |
| EMAX SAMP ID: | C190-05 | C190-05J | | |
| LAB FILE ID: | M47C021047 | M47C021048 | | |
| DATE EXTRACTED: | 03/26/1215:00 | 03/26/1215:00 | DATE COLLECTED: | 03/20/12 |
| DATE ANALYZED: | 03/26/1219:05 | 03/26/1219:07 | DATE RECEIVED: | 03/21/12 |
| PREP. BATCH: | HGC021S | HGC021S | | |
| CALIB. REF: | M47C021044 | M47C021044 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C182
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC005SB | ND | 1 | NA | 1.50 | 0.750 | 03/22/1217:35 | 03/22/1212:30 | AC29-21 | AC29-19 | ICC005S | NA | 03/22/12 |
| LCS1S | ICC005SL | 25.9 | 1 | NA | 1.50 | 0.750 | 03/22/1217:51 | 03/22/1212:30 | AC29-22 | AC29-19 | ICC005S | NA | 03/22/12 |
| LCD1S | ICC005SC | 25.7 | 1 | NA | 1.50 | 0.750 | 03/22/1218:07 | 03/22/1212:30 | AC29-23 | AC29-19 | ICC005S | NA | 03/22/12 |
| SL-069-NBZ-SB-3.0-4.0 | C182-02 | 2.03 | 1 | 4.7 | 1.57 | 0.787 | 03/22/1218:23 | 03/22/1212:30 | AC29-24 | AC29-19 | ICC005S | 03/20/1214:30 | 03/20/12 |
| SL-075-NBZ-SS-0.0-0.5 | C182-04 | 5.34 | 1 | 8.8 | 1.64 | 0.822 | 03/22/1218:55 | 03/22/1212:30 | AC29-26 | AC29-19 | ICC005S | 03/20/1209:00 | 03/20/12 |
| SL-076-NBZ-SS-0.0-0.5 | C182-05 | 7.11 | 1 | 12.7 | 1.72 | 0.859 | 03/22/1219:12 | 03/22/1212:30 | AC29-27 | AC29-19 | ICC005S | 03/20/1209:35 | 03/20/12 |
| SL-077-NBZ-SS-0.0-0.5 | C182-06 | 8.53 | 1 | 14.0 | 1.74 | 0.872 | 03/22/1219:28 | 03/22/1212:30 | AC29-28 | AC29-19 | ICC005S | 03/20/1210:20 | 03/20/12 |
| SL-077-NBZ-SB-2.5-3.5 | C182-08 | 0.912J | 1 | 6.1 | 1.60 | 0.799 | 03/22/1219:44 | 03/22/1212:30 | AC29-29 | AC29-19 | ICC005S | 03/20/1210:50 | 03/20/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC005SB | ICC005SL | ICC005SC | | |
| LAB FILE ID: | AC29-21 | AC29-22 | AC29-23 | | |
| DATE EXTRACTED: | 03/22/1212:30 | 03/22/1212:30 | 03/22/1212:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/22/1217:35 | 03/22/1217:51 | 03/22/1218:07 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | ICC005S | ICC005S | ICC005S | | |
| CALIB. REF: | AC29-19 | AC29-19 | AC29-19 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 25.9 | 97 | 26.6 | 25.7 | 97 | 1 | 90-110 | 20 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C182
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC005SB | ND | 1 | NA | 1.00 | 0.500 | 03/22/1217:35 | 03/22/1212:30 | AC29-21 | AC29-19 | ICC005S | NA | 03/22/12 |
| LCS1S | ICC005SL | 5.79 | 1 | NA | 1.00 | 0.500 | 03/22/1217:51 | 03/22/1212:30 | AC29-22 | AC29-19 | ICC005S | NA | 03/22/12 |
| LCD1S | ICC005SC | 5.79 | 1 | NA | 1.00 | 0.500 | 03/22/1218:07 | 03/22/1212:30 | AC29-23 | AC29-19 | ICC005S | NA | 03/22/12 |
| SL-069-NBZ-SB-3.0-4.0 | C182-02 | 1.40 | 1 | 4.7 | 1.05 | 0.525 | 03/22/1218:23 | 03/22/1212:30 | AC29-24 | AC29-19 | ICC005S | 03/20/1214:30 | 03/20/12 |
| SL-070-NBZ-SS-0.0-0.5 | C182-03 | 1.61 | 1 | 12.4 | 1.14 | 0.571 | 03/22/1218:39 | 03/22/1212:30 | AC29-25 | AC29-19 | ICC005S | 03/20/1215:25 | 03/20/12 |
| SL-075-NBZ-SS-0.0-0.5 | C182-04 | 0.597J | 1 | 8.8 | 1.10 | 0.548 | 03/22/1218:55 | 03/22/1212:30 | AC29-26 | AC29-19 | ICC005S | 03/20/1209:00 | 03/20/12 |
| SL-076-NBZ-SS-0.0-0.5 | C182-05 | 1.13J | 1 | 12.7 | 1.15 | 0.573 | 03/22/1219:12 | 03/22/1212:30 | AC29-27 | AC29-19 | ICC005S | 03/20/1209:35 | 03/20/12 |
| SL-077-NBZ-SS-0.0-0.5 | C182-06 | 0.882J | 1 | 14.0 | 1.16 | 0.581 | 03/22/1219:28 | 03/22/1212:30 | AC29-28 | AC29-19 | ICC005S | 03/20/1210:20 | 03/20/12 |
| SL-077-NBZ-SB-2.5-3.5 | C182-08 | 2.49 | 1 | 6.1 | 1.06 | 0.532 | 03/22/1219:44 | 03/22/1212:30 | AC29-29 | AC29-19 | ICC005S | 03/20/1210:50 | 03/20/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC005SB | ICC005SL | ICC005SC | | |
| LAB FILE ID: | AC29-21 | AC29-22 | AC29-23 | | |
| DATE EXTRACTED: | 03/22/1212:30 | 03/22/1212:30 | 03/22/1212:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/22/1217:35 | 03/22/1217:51 | 03/22/1218:07 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | ICC005S | ICC005S | ICC005S | | |
| CALIB. REF: | AC29-19 | AC29-19 | AC29-19 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 5.79 | 97 | 6.00 | 5.79 | 96 | 0 | 90-110 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C182
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCC013SB | ND | 1 | NA | 20.0 | 10.0 | 03/23/1220:54 | 03/23/1211:00 | JC23022 | JC23021 | PCC013S | NA | 03/23/12 |
| LCS1S | PCC013SL | 241 | 1 | NA | 20.0 | 10.0 | 03/23/1221:36 | 03/23/1211:00 | JC23024 | JC23021 | PCC013S | NA | 03/23/12 |
| LCD1S | PCC013SC | 248 | 1 | NA | 20.0 | 10.0 | 03/23/1221:57 | 03/23/1211:00 | JC23025 | JC23021 | PCC013S | NA | 03/23/12 |
| SL-069-NBZ-SB-3.0-4.0 | C182-02 | ND | 1 | 4.7 | 21.0 | 10.5 | 03/23/1222:18 | 03/23/1211:00 | JC23026 | JC23021 | PCC013S | 03/20/1214:30 | 03/20/12 |
| SL-070-NBZ-SS-0.0-0.5 | C182-03 | ND | 1 | 12.4 | 22.8 | 11.4 | 03/23/1223:00 | 03/23/1211:00 | JC23028 | JC23021 | PCC013S | 03/20/1215:25 | 03/20/12 |
| SL-075-NBZ-SS-0.0-0.5 | C182-04 | ND | 1 | 8.8 | 21.9 | 11.0 | 03/23/1223:42 | 03/23/1211:00 | JC23030 | JC23021 | PCC013S | 03/20/1209:00 | 03/20/12 |
| SL-076-NBZ-SS-0.0-0.5 | C182-05 | ND | 1 | 12.7 | 22.9 | 11.5 | 03/24/1200:45 | 03/23/1211:00 | JC23033 | JC23032 | PCC013S | 03/20/1209:35 | 03/20/12 |
| SL-077-NBZ-SS-0.0-0.5 | C182-06 | ND | 1 | 14.0 | 23.3 | 11.6 | 03/24/1201:27 | 03/23/1211:00 | JC23035 | JC23032 | PCC013S | 03/20/1210:20 | 03/20/12 |
| SL-077-NBZ-SB-2.5-3.5 | C182-08 | ND | 1 | 6.1 | 21.3 | 10.6 | 03/24/1202:09 | 03/23/1211:00 | JC23037 | JC23032 | PCC013S | 03/20/1210:50 | 03/20/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCC013SB | PCC013SL | PCC013SC | | |
| LAB FILE ID: | JC23022 | JC23024 | JC23025 | | |
| DATE EXTRACTED: | 03/23/1211:00 | 03/23/1211:00 | 03/23/1211:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1220:54 | 03/23/1221:36 | 03/23/1221:57 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | PCC013S | PCC013S | PCC013S | | |
| CALIB. REF: | JC23021 | JC23021 | JC23021 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 241 | 96 | 250 | 248 | 99 | 3 | 85-115 | 15 |

METHOD 6850
PERCHLORATE BY LC/MS

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C182
Matrix : SOIL
Instrument ID : G0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PLC003SB | ND | 1 | NA | 5.00 | 2.50 | 03/30/1208:01 | 03/29/1216:32 | NC30004 | NC30003 | PLC003S | NA | 03/29/12 |
| LCS1S | PLC003SL | 22.6 | 1 | NA | 5.00 | 2.50 | 03/30/1208:15 | 03/29/1216:32 | NC30005 | NC30003 | PLC003S | NA | 03/29/12 |
| LCD1S | PLC003SC | 22.9 | 1 | NA | 5.00 | 2.50 | 03/30/1208:29 | 03/29/1216:32 | NC30006 | NC30003 | PLC003S | NA | 03/29/12 |
| SL-070-NBZ-SS-0.0-0.5 | C182-03 | ND | 1 | 12.4 | 5.71 | 2.85 | 03/30/1208:44 | 03/29/1216:32 | NC30007 | NC30003 | PLC003S | 03/20/1215:25 | 03/20/12 |
| SL-075-NBZ-SS-0.0-0.5 | C182-04 | ND | 1 | 8.8 | 5.48 | 2.74 | 03/30/1208:58 | 03/29/1216:32 | NC30008 | NC30003 | PLC003S | 03/20/1209:00 | 03/20/12 |
| SL-077-NBZ-SS-0.0-0.5 | C182-06 | ND | 1 | 14.0 | 5.81 | 2.91 | 03/30/1209:12 | 03/29/1216:32 | NC30009 | NC30003 | PLC003S | 03/20/1210:20 | 03/20/12 |
| SL-077-NBZ-SB-2.5-3.5 | C182-08 | ND | 1 | 6.1 | 5.32 | 2.66 | 03/30/1209:26 | 03/29/1216:32 | NC30010 | NC30003 | PLC003S | 03/20/1210:50 | 03/20/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: METHOD 6850

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PLC003SB | PLC003SL | PLC003SC | | |
| LAB FILE ID: | NC30004 | NC30005 | NC30006 | | |
| DATE EXTRACTED: | 03/29/1216:32 | 03/29/1216:32 | 03/29/1216:32 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1208:01 | 03/30/1208:15 | 03/30/1208:29 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | PLC003S | PLC003S | PLC003S | | |
| CALIB. REF: | NC30003 | NC30003 | NC30003 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 25.0 | 22.6 | 90 | 25.0 | 22.9 | 92 | 1 | 85-115 | 15 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C182
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCC006SB | ND | 1 | NA | 1.00 | 0.500 | 03/27/1215:40 | 03/26/1217:30 | IC29003 | IC29001 | HCC006S | NA | 03/26/12 |
| MBLK1S | HCC006SQ | ND | 1 | NA | 1.00 | 0.500 | 03/27/1215:50 | 03/26/1217:30 | IC29004 | IC29001 | HCC006S | NA | 03/26/12 |
| LCS1S | CSC006SL | 10.7 | 1 | NA | 1.00 | 0.500 | 03/27/1216:01 | 03/26/1217:30 | IC29005 | IC29001 | HCC006S | NA | 03/26/12 |
| LCS1S | CSC006SX | 11.0 | 1 | NA | 1.00 | 0.500 | 03/27/1216:11 | 03/26/1217:30 | IC29006 | IC29001 | HCC006S | NA | 03/26/12 |
| LCS2S | CIC006SL | 377 | 20 | NA | 20.0 | 10.0 | 03/27/1216:22 | 03/26/1217:30 | IC29007 | IC29001 | HCC006S | NA | 03/26/12 |
| LCS2S | CIC006SX | 370 | 20 | NA | 20.0 | 10.0 | 03/27/1216:32 | 03/26/1217:30 | IC29008 | IC29001 | HCC006S | NA | 03/26/12 |
| SL-069-NBZ-SB-3.0-4.0 | C182-02 | ND | 1 | 4.7 | 1.05 | 0.525 | 03/27/1216:42 | 03/26/1217:30 | IC29009 | IC29001 | HCC006S | 03/20/1214:30 | 03/20/12 |
| SL-069-NBZ-SB-3.0-4.0 | C182-02R | ND | 1 | 4.7 | 1.05 | 0.525 | 03/27/1216:53 | 03/26/1217:30 | IC29010 | IC29001 | HCC006S | 03/20/1214:30 | 03/20/12 |
| SL-070-NBZ-SS-0.0-0.5 | C182-03 | ND | 1 | 12.4 | 1.14 | 0.571 | 03/27/1217:22 | 03/26/1217:30 | IC29011 | IC29001 | HCC006S | 03/20/1215:25 | 03/20/12 |
| SL-070-NBZ-SS-0.0-0.5 | C182-03R | ND | 1 | 12.4 | 1.14 | 0.571 | 03/27/1217:32 | 03/26/1217:30 | IC29012 | IC29001 | HCC006S | 03/20/1215:25 | 03/20/12 |
| SL-075-NBZ-SS-0.0-0.5 | C182-04 | ND | 1 | 8.8 | 1.10 | 0.548 | 03/27/1218:04 | 03/26/1217:30 | IC29015 | IC29013 | HCC006S | 03/20/1209:00 | 03/20/12 |
| SL-075-NBZ-SS-0.0-0.5 | C182-04R | ND | 1 | 8.8 | 1.10 | 0.548 | 03/27/1218:15 | 03/26/1217:30 | IC29016 | IC29013 | HCC006S | 03/20/1209:00 | 03/20/12 |
| SL-076-NBZ-SS-0.0-0.5 | C182-05 | ND | 1 | 12.7 | 1.15 | 0.573 | 03/27/1218:25 | 03/26/1217:30 | IC29017 | IC29013 | HCC006S | 03/20/1209:35 | 03/20/12 |
| SL-076-NBZ-SS-0.0-0.5 | C182-05R | ND | 1 | 12.7 | 1.15 | 0.573 | 03/27/1218:35 | 03/26/1217:30 | IC29018 | IC29013 | HCC006S | 03/20/1209:35 | 03/20/12 |
| SL-077-NBZ-SS-0.0-0.5 | C182-06 | ND | 1 | 14.0 | 1.16 | 0.581 | 03/27/1218:46 | 03/26/1217:30 | IC29019 | IC29013 | HCC006S | 03/20/1210:20 | 03/20/12 |
| SL-077-NBZ-SS-0.0-0.5 | C182-06R | ND | 1 | 14.0 | 1.16 | 0.581 | 03/27/1218:56 | 03/26/1217:30 | IC29020 | IC29013 | HCC006S | 03/20/1210:20 | 03/20/12 |
| SL-077-NBZ-SB-2.5-3.5 | C182-08 | ND | 1 | 6.1 | 1.06 | 0.532 | 03/27/1219:07 | 03/26/1217:30 | IC29021 | IC29013 | HCC006S | 03/20/1210:50 | 03/20/12 |
| SL-077-NBZ-SB-2.5-3.5 | C182-08R | ND | 1 | 6.1 | 1.06 | 0.532 | 03/27/1219:17 | 03/26/1217:30 | IC29022 | IC29013 | HCC006S | 03/20/1210:50 | 03/20/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCC006SQ CIC006SX
LAB FILE ID: IC29004 IC29008
DATE EXTRACTED: 03/26/1217:30 03/26/1217:30 DATE COLLECTED: NA
DATE ANALYZED: 03/27/1215:50 03/27/1216:32 DATE RECEIVED: 03/26/12
PREP. BATCH: HCC006S HCC006S
CALIB. REF: IC29001 IC29001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 400 | 370 | 92 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCC006SB CIC006SL
LAB FILE ID: IC29003 IC29007
DATE EXTRACTED: 03/26/1217:30 03/26/1217:30 DATE COLLECTED: NA
DATE ANALYZED: 03/27/1215:40 03/27/1216:22 DATE RECEIVED: 03/26/12
PREP. BATCH: HCC006S HCC006S
CALIB. REF: IC29001 IC29001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 400 | 377 | 94 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCC006SQ | CSC006SX | | |
| LAB FILE ID: | IC29004 | IC29006 | | |
| DATE EXTRACTED: | 03/26/1217:30 | 03/26/1217:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/27/1215:50 | 03/27/1216:11 | DATE RECEIVED: | 03/26/12 |
| PREP. BATCH: | HCC006S | HCC006S | | |
| CALIB. REF: | IC29001 | IC29001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 11.0 | 110 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C182
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCC006SB | CSC006SL | | |
| LAB FILE ID: | IC29003 | IC29005 | | |
| DATE EXTRACTED: | 03/26/1217:30 | 03/26/1217:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/27/1215:40 | 03/27/1216:01 | DATE RECEIVED: | 03/26/12 |
| PREP. BATCH: | HCC006S | HCC006S | | |
| CALIB. REF: | IC29001 | IC29001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 10.7 | 107 | 80-120 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C182

Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CNC012SB | ND | 1 | NA | 0.500 | 0.250 | 03/27/1218:14 | 03/27/1210:30 | CNC01210 | CNC01208 | CNC012S | NA | 03/27/12 |
| LCS1S | CNC012SL | 2.84 | 1 | NA | 0.500 | 0.250 | 03/27/1218:14 | 03/27/1210:30 | CNC01211 | CNC01208 | CNC012S | NA | 03/27/12 |
| LCD1S | CNC012SC | 2.66 | 1 | NA | 0.500 | 0.250 | 03/27/1218:15 | 03/27/1210:30 | CNC01212 | CNC01208 | CNC012S | NA | 03/27/12 |
| SL-069-NBZ-SB-3.0-4.0 | C182-02 | ND | 1 | 4.7 | 0.525 | 0.262 | 03/27/1218:15 | 03/27/1210:30 | CNC01213 | CNC01208 | CNC012S | 03/20/1214:30 | 03/20/12 |
| SL-075-NBZ-SS-0.0-0.5 | C182-04 | ND | 1 | 8.8 | 0.548 | 0.274 | 03/27/1218:15 | 03/27/1210:30 | CNC01214 | CNC01208 | CNC012S | 03/20/1209:00 | 03/20/12 |
| SL-076-NBZ-SS-0.0-0.5 | C182-05 | ND | 1 | 12.7 | 0.573 | 0.286 | 03/27/1218:16 | 03/27/1210:30 | CNC01215 | CNC01208 | CNC012S | 03/20/1209:35 | 03/20/12 |
| SL-077-NBZ-SS-0.0-0.5 | C182-06 | ND | 1 | 14.0 | 0.581 | 0.291 | 03/27/1218:16 | 03/27/1210:30 | CNC01216 | CNC01208 | CNC012S | 03/20/1210:20 | 03/20/12 |
| SL-077-NBZ-SB-2.5-3.5 | C182-08 | ND | 1 | 6.1 | 0.532 | 0.266 | 03/27/1218:16 | 03/27/1210:30 | CNC01217 | CNC01208 | CNC012S | 03/20/1210:50 | 03/20/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C182
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CNC012SL/C

DATE RECEIVED: 03/27/12
DATE EXTRACTED: 03/27/1210:30
DATE ANALYZED: 03/27/1218:14/18:15

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.84 | 114 | 2.50 | 2.66 | 106 | 7 | 85-125 | 20 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C182
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-069-NBZ-SB-3.0-4.0 | C182-02 | 6.99 | 1 | NA | NA | NA | 03/21/1216:53 | 03/21/1216:53 | 12PHC015S01 | PHC015S | PHC015S | 03/20/1214:30 | 03/20/12 |
| SL-070-NBZ-SS-0.0-0.5 | C182-03 | 7.60 | 1 | NA | NA | NA | 03/21/1216:57 | 03/21/1216:53 | 12PHC015S02 | PHC015S | PHC015S | 03/20/1215:25 | 03/20/12 |
| SL-075-NBZ-SS-0.0-0.5 | C182-04 | 7.05 | 1 | NA | NA | NA | 03/21/1216:59 | 03/21/1216:53 | 12PHC015S03 | PHC015S | PHC015S | 03/20/1209:00 | 03/20/12 |
| SL-076-NBZ-SS-0.0-0.5 | C182-05 | 7.26 | 1 | NA | NA | NA | 03/21/1217:01 | 03/21/1216:53 | 12PHC015S04 | PHC015S | PHC015S | 03/20/1209:35 | 03/20/12 |
| SL-077-NBZ-SS-0.0-0.5 | C182-06 | 6.85 | 1 | NA | NA | NA | 03/21/1217:06 | 03/21/1216:53 | 12PHC015S05 | PHC015S | PHC015S | 03/20/1210:20 | 03/20/12 |
| SL-077-NBZ-SB-2.5-3.5 | C182-08 | 5.93 | 1 | NA | NA | NA | 03/21/1217:08 | 03/21/1216:53 | 12PHC015S06 | PHC015S | PHC015S | 03/20/1210:50 | 03/20/12 |
| SL-077-NBZ-SB-2.5-3.5DUP | C182-08D | 5.93 | 1 | NA | NA | NA | 03/21/1217:11 | 03/21/1216:53 | 12PHC015S07 | PHC015S | PHC015S | 03/20/1210:50 | 03/20/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C182 DATE RECEIVED: 03/20/12
SAMPLE ID: SL-077-NBZ-SB-2.5-3.5DUP DATE EXTRACTED: 03/21/1216:53
CONTROL NO.: C182-08D DATE ANALYZED: 03/21/1217:11

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 5.93 | 5.93 | 0 | 0.10 |

# SAMPLE DELIVERY GROUP

# 12C209

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/22/12 16:15 |
| Sample ID: EB-NBZ-SS-032112 | Date Analyzed: 03/26/12 18:33 |
| Lab Samp ID: C209-01 | Dilution Factor: 1.05 |
| Lab File ID: RCJ398 | Matrix : WATER |
| Ext Btch ID: SVC031W | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 11 | 5.2 |
| 1,2-DICHLOROBENZENE | ND | 11 | 5.2 |
| 1,3-DICHLOROBENZENE | ND | 11 | 5.2 |
| 1,4-DICHLOROBENZENE | ND | 11 | 5.2 |
| 2,4,5-TRICHLOROPHENOL | ND | 11 | 5.2 |
| 2,4,6-TRICHLOROPHENOL | ND | 11 | 5.2 |
| 2,4-DICHLOROPHENOL | ND | 11 | 5.2 |
| 2,4-DIMETHYLPHENOL | ND | 11 | 5.2 |
| 2,4-DINITROPHENOL | ND | 21 | 5.2 |
| 2,4-DINITROTOLUENE | ND | 11 | 5.2 |
| 2,6-DINITROTOLUENE | ND | 11 | 5.2 |
| 2-CHLORONAPHTHALENE | ND | 11 | 5.2 |
| 2-CHLOROPHENOL | ND | 11 | 5.2 |
| 2-METHYLNAPHTHALENE | ND | 11 | 5.2 |
| 2-METHYLPHENOL | ND | 11 | 5.2 |
| 2-NITROANILINE | ND | 11 | 5.2 |
| 2-NITROPHENOL | ND | 11 | 5.2 |
| 3,3'-DICHLOROBENZIDINE | ND | 11 | 5.2 |
| 3-NITROANILINE | ND | 11 | 5.2 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 21 | 5.2 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 11 | 5.2 |
| 4-CHLORO-3-METHYLPHENOL | ND | 11 | 5.2 |
| 4-CHLOROANILINE | ND | 11 | 5.2 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 11 | 5.2 |
| 4-METHYLPHENOL (1) | ND | 11 | 5.2 |
| 4-NITROANILINE | ND | 11 | 5.2 |
| 4-NITROPHENOL | ND | 21 | 5.2 |
| ACENAPHTHENE | ND | 11 | 5.2 |
| ACENAPHTHYLENE | ND | 11 | 5.2 |
| ANTHRACENE | ND | 11 | 5.2 |
| BENZO(A)ANTHRACENE | ND | 11 | 5.2 |
| BENZO(A)PYRENE | ND | 11 | 5.2 |
| BENZO(B)FLUORANTHENE | ND | 11 | 5.2 |
| BENZO(K)FLUORANTHENE | ND | 11 | 5.2 |
| BENZO(G,H,I)PERYLENE | ND | 11 | 5.2 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 11 | 5.2 |
| BIS(2-CHLOROETHYL)ETHER | ND | 11 | 5.2 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 11 | 5.2 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 21 | 5.2 |
| BUTYLBENZYLPHTHALATE | ND | 11 | 5.2 |
| CHRYSENE | ND | 11 | 5.2 |
| DI-N-BUTYLPHTHALATE | ND | 11 | 5.2 |
| DI-N-OCTYLPHTHALATE | ND | 11 | 5.2 |
| DIBENZO(A,H)ANTHRACENE | ND | 11 | 5.2 |
| DIBENZOFURAN | ND | 11 | 5.2 |
| DIETHYLPHTHALATE | ND | 11 | 5.2 |
| DIMETHYLPHTHALATE | ND | 11 | 5.2 |
| FLUORANTHENE | ND | 11 | 5.2 |
| FLUORENE | ND | 11 | 5.2 |
| HEXACHLOROBENZENE | ND | 11 | 5.2 |
| HEXACHLOROBUTADIENE | ND | 11 | 5.2 |
| HEXACHLOROCYCLOPENTADIENE | ND | 21 | 5.2 |
| HEXACHLOROETHANE | ND | 11 | 5.2 |
| INDENO(1,2,3-CD)PYRENE | ND | 11 | 5.2 |
| ISOPHORONE | ND | 11 | 5.2 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 11 | 5.2 |
| N-NITROSODIPHENYLAMINE (2) | ND | 11 | 5.2 |
| NAPHTHALENE | ND | 11 | 5.2 |
| NITROBENZENE | ND | 11 | 5.2 |
| PENTACHLOROPHENOL | ND | 21 | 5.2 |
| PHENANTHRENE | ND | 11 | 5.2 |
| PHENOL | ND | 11 | 5.2 |
| PYRENE | ND | 11 | 5.2 |
| BENZYL ALCOHOL | ND | 11 | 5.2 |
| 1-METHYLNAPHTHALENE | ND | 11 | 5.2 |
| 1,2-DIPHENYLHYDRAZINE | ND | 11 | 5.2 |
| 3,5-DIMETHYLPHENOL | ND | 21 | 5.2 |
| ANILINE | ND | 21 | 11 |
| BENZIDINE | ND | 52 | 21 |
| BENZOIC ACID | ND | 42 | 21 |
| CARBAZOLE | ND | 11 | 5.2 |
| N-NITROSODIMETHYLAMINE | ND | 11 | 5.2 |
| TETRALIN | ND | 11 | 11 |
| 2-BUTOXYETHANOL | ND | 11 | 11 |
| 2-PHENOXYETHANOL | ND | 11 | 11 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 36.3 | 63.00 | 57.6 | 30-130 |
| 2-FLUOROBIPHENYL | 11.2 | 21.00 | 53.5 | 45-130 |
| 2-FLUOROPHENOL | 30.8 | 63.00 | 48.9 | 20-130 |
| NITROBENZENE-D5 | 10.7 | 21.00 | 51.2 | 40-130 |
| PHENOL-D5 | 33.4 | 63.00 | 53.0 | 20-120 |
| TERPHENYL-D14 | 19.3 | 21.00 | 91.8 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/22/12 16:15 |
| Sample ID: MBLK1W | Date Analyzed: 03/26/12 14:29 |
| Lab Samp ID: SVC031WB | Dilution Factor: 1 |
| Lab File ID: RCJ385 | Matrix : WATER |
| Ext Btch ID: SVC031W | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 10 | 5.0 |
| 1,2-DICHLOROBENZENE | ND | 10 | 5.0 |
| 1,3-DICHLOROBENZENE | ND | 10 | 5.0 |
| 1,4-DICHLOROBENZENE | ND | 10 | 5.0 |
| 2,4,5-TRICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4,6-TRICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4-DICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4-DIMETHYLPHENOL | ND | 10 | 5.0 |
| 2,4-DINITROPHENOL | ND | 20 | 5.0 |
| 2,4-DINITROTOLUENE | ND | 10 | 5.0 |
| 2,6-DINITROTOLUENE | ND | 10 | 5.0 |
| 2-CHLORONAPHTHALENE | ND | 10 | 5.0 |
| 2-CHLOROPHENOL | ND | 10 | 5.0 |
| 2-METHYLNAPHTHALENE | ND | 10 | 5.0 |
| 2-METHYLPHENOL | ND | 10 | 5.0 |
| 2-NITROANILINE | ND | 10 | 5.0 |
| 2-NITROPHENOL | ND | 10 | 5.0 |
| 3,3'-DICHLOROBENZIDINE | ND | 10 | 5.0 |
| 3-NITROANILINE | ND | 10 | 5.0 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 20 | 5.0 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 10 | 5.0 |
| 4-CHLORO-3-METHYLPHENOL | ND | 10 | 5.0 |
| 4-CHLOROANILINE | ND | 10 | 5.0 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 10 | 5.0 |
| 4-METHYLPHENOL (1) | ND | 10 | 5.0 |
| 4-NITROANILINE | ND | 10 | 5.0 |
| 4-NITROPHENOL | ND | 20 | 5.0 |
| ACENAPHTHENE | ND | 10 | 5.0 |
| ACENAPHTHYLENE | ND | 10 | 5.0 |
| ANTHRACENE | ND | 10 | 5.0 |
| BENZO(A)ANTHRACENE | ND | 10 | 5.0 |
| BENZO(A)PYRENE | ND | 10 | 5.0 |
| BENZO(B)FLUORANTHENE | ND | 10 | 5.0 |
| BENZO(K)FLUORANTHENE | ND | 10 | 5.0 |
| BENZO(G,H,I)PERYLENE | ND | 10 | 5.0 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 10 | 5.0 |
| BIS(2-CHLOROETHYL)ETHER | ND | 10 | 5.0 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 10 | 5.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 20 | 5.0 |
| BUTYLBENZYLPHTHALATE | ND | 10 | 5.0 |
| CHRYSENE | ND | 10 | 5.0 |
| DI-N-BUTYLPHTHALATE | ND | 10 | 5.0 |
| DI-N-OCTYLPHTHALATE | ND | 10 | 5.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 10 | 5.0 |
| DIBENZOFURAN | ND | 10 | 5.0 |
| DIETHYLPHTHALATE | ND | 10 | 5.0 |
| DIMETHYLPHTHALATE | ND | 10 | 5.0 |
| FLUORANTHENE | ND | 10 | 5.0 |
| FLUORENE | ND | 10 | 5.0 |
| HEXACHLOROBENZENE | ND | 10 | 5.0 |
| HEXACHLOROBUTADIENE | ND | 10 | 5.0 |
| HEXACHLOROCYCLOPENTADIENE | ND | 20 | 5.0 |
| HEXACHLOROETHANE | ND | 10 | 5.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 10 | 5.0 |
| ISOPHORONE | ND | 10 | 5.0 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 10 | 5.0 |
| N-NITROSODIPHENYLAMINE (2) | ND | 10 | 5.0 |
| NAPHTHALENE | ND | 10 | 5.0 |
| NITROBENZENE | ND | 10 | 5.0 |
| PENTACHLOROPHENOL | ND | 20 | 5.0 |
| PHENANTHRENE | ND | 10 | 5.0 |
| PHENOL | ND | 10 | 5.0 |
| PYRENE | ND | 10 | 5.0 |
| BENZYL ALCOHOL | ND | 10 | 5.0 |
| 1-METHYLNAPHTHALENE | ND | 10 | 5.0 |
| 1,2-DIPHENYLHYDRAZINE | ND | 10 | 5.0 |
| 3,5-DIMETHYLPHENOL | ND | 20 | 5.0 |
| ANILINE | ND | 20 | 10 |
| BENZIDINE | ND | 50 | 20 |
| BENZOIC ACID | ND | 40 | 20 |
| CARBAZOLE | ND | 10 | 5.0 |
| N-NITROSODIMETHYLAMINE | ND | 10 | 5.0 |
| TETRALIN | ND | 10 | 10 |
| 2-BUTOXYETHANOL | ND | 10 | 10 |
| 2-PHENOXYETHANOL | ND | 10 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 32.6 | 60.00 | 54.4 | 30-130 |
| 2-FLUOROBIPHENYL | 11.2 | 20.00 | 56.1 | 45-130 |
| 2-FLUOROPHENOL | 27.4 | 60.00 | 45.6 | 20-130 |
| NITROBENZENE-D5 | 10.3 | 20.00 | 51.4 | 40-130 |
| PHENOL-D5 | 30.4 | 60.00 | 50.7 | 20-120 |
| TERPHENYL-D14 | 16.7 | 20.00 | 83.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 3520C/8270C

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: SVC031WB SVC031WL SVC031WC
LAB FILE ID: RCJ385 RDJ013 RCJ387
DATE EXTRACTED: 03/22/1216:15 03/22/1216:15 03/22/1216:15 DATE COLLECTED: NA
DATE ANALYZED: 03/26/1214:29 04/02/1215:51 03/26/1215:07 DATE RECEIVED: 03/22/12
PREP. BATCH: SVC031W SVC031W SVC031W
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 40.0 | 25.0 | 63 | 40.0 | 19.0 | 48 | 27 | 30-130 | 30 |
| 1,2-Dichlorobenzene | ND | 40.0 | 26.1 | 65 | 40.0 | 19.4 | 48 | 29 | 30-130 | 30 |
| 1,3-Dichlorobenzene | ND | 40.0 | 25.6 | 64 | 40.0 | 19.0 | 47 | 30 | 30-130 | 30 |
| 1,4-Dichlorobenzene | ND | 40.0 | 25.9 | 65 | 40.0 | 18.9 | 47 | 31* | 30-130 | 30 |
| 2,4,5-Trichlorophenol | ND | 40.0 | 26.2 | 65 | 40.0 | 22.7 | 57 | 14 | 30-130 | 30 |
| 2,4,6-Trichlorophenol | ND | 40.0 | 28.7 | 72 | 40.0 | 23.6 | 59 | 19 | 30-130 | 30 |
| 2,4-Dichlorophenol | ND | 40.0 | 27.5 | 69 | 40.0 | 22.0 | 55 | 22 | 40-130 | 30 |
| 2,4-Dimethylphenol | ND | 40.0 | 26.6 | 67 | 40.0 | 21.3 | 53 | 22 | 30-130 | 30 |
| 2,4-Dinitrophenol | ND | 40.0 | 29.1 | 73 | 40.0 | 26.9 | 67 | 8 | 30-130 | 30 |
| 2,4-Dinitrotoluene | ND | 40.0 | 38.5 | 96 | 40.0 | 33.6 | 84 | 13 | 40-130 | 30 |
| 2,6-Dinitrotoluene | ND | 40.0 | 34.8 | 87 | 40.0 | 30.5 | 76 | 13 | 40-130 | 30 |
| 2-Chloronaphthalene | ND | 40.0 | 27.1 | 68 | 40.0 | 23.0 | 58 | 17 | 40-130 | 30 |
| 2-Chlorophenol | ND | 40.0 | 28.6 | 72 | 40.0 | 20.3 | 51 | 34* | 30-130 | 30 |
| 2-Methylnaphthalene | ND | 40.0 | 30.9 | 77 | 40.0 | 24.4 | 61 | 23 | 40-130 | 30 |
| 2-Methylphenol | ND | 40.0 | 27.0 | 68 | 40.0 | 19.5 | 49 | 33* | 30-130 | 30 |
| 2-Nitroaniline | ND | 40.0 | 31.6 | 79 | 40.0 | 26.1 | 65 | 19 | 40-130 | 30 |
| 2-Nitrophenol | ND | 40.0 | 30.1 | 75 | 40.0 | 21.7 | 54 | 32* | 40-130 | 30 |
| 3,3'-Dichlorobenzidine | ND | 40.0 | 31.6 | 79 | 40.0 | 28.3 | 71 | 11 | 20-140 | 30 |
| 3-Nitroaniline | ND | 40.0 | 32.1 | 80 | 40.0 | 26.3 | 66 | 20 | 30-130 | 30 |
| 4,6-Dinitro-2-Methylphenol | ND | 40.0 | 35.6 | 89 | 40.0 | 32.3 | 81 | 10 | 40-130 | 30 |
| 4-Bromophenyl-phenylether | ND | 40.0 | 32.6 | 81 | 40.0 | 29.3 | 73 | 10 | 50-130 | 30 |
| 4-Chloro-3-Methylphenol | ND | 40.0 | 27.3 | 68 | 40.0 | 23.5 | 59 | 15 | 30-130 | 30 |
| 4-Chloroaniline | ND | 40.0 | 24.5 | 61 | 40.0 | 20.1 | 50 | 19 | 30-130 | 30 |
| 4-Chlorophenyl-phenylether | ND | 40.0 | 33.6 | 84 | 40.0 | 29.0 | 72 | 15 | 50-130 | 30 |
| 4-Methylphenol | ND | 40.0 | 26.8 | 67 | 40.0 | 19.4 | 49 | 32* | 30-130 | 30 |
| 4-Nitroaniline | ND | 40.0 | 37.3 | 93 | 40.0 | 26.9 | 67 | 32* | 30-130 | 30 |
| 4-Nitrophenol | ND | 40.0 | 24.3 | 61 | 40.0 | 22.2 | 56 | 9 | 30-130 | 30 |
| Acenaphthene | ND | 40.0 | 31.4 | 79 | 40.0 | 25.6 | 64 | 20 | 40-130 | 30 |
| Acenaphthylene | ND | 40.0 | 31.3 | 78 | 40.0 | 25.9 | 65 | 19 | 40-130 | 30 |
| Anthracene | ND | 40.0 | 35.7 | 89 | 40.0 | 31.8 | 79 | 12 | 50-130 | 30 |
| Benzo(a)anthracene | ND | 40.0 | 36.8 | 92 | 40.0 | 33.1 | 83 | 11 | 50-130 | 30 |
| Benzo(a)pyrene | ND | 40.0 | 35.0 | 88 | 40.0 | 31.5 | 79 | 11 | 50-130 | 30 |
| Benzo(b)fluoranthene | ND | 40.0 | 38.4 | 96 | 40.0 | 32.7 | 82 | 16 | 40-140 | 30 |
| Benzo(k)fluoranthene | ND | 40.0 | 36.0 | 90 | 40.0 | 35.0 | 87 | 3 | 40-130 | 30 |
| Benzo(g,h,i)perylene | ND | 40.0 | 37.0 | 93 | 40.0 | 33.4 | 83 | 10 | 40-130 | 30 |
| bis(2-Chloroethoxy)methane | ND | 40.0 | 28.8 | 72 | 40.0 | 22.1 | 55 | 26 | 40-130 | 30 |
| bis(2-Chloroethyl)ether | ND | 40.0 | 30.9 | 77 | 40.0 | 22.5 | 56 | 32* | 30-130 | 30 |
| bis(2-Chloroisopropyl)ether | ND | 40.0 | 32.5 | 81 | 40.0 | 23.7 | 59 | 31* | 20-130 | 30 |
| bis(2-Ethylhexyl)phthalate | ND | 40.0 | 35.4 | 89 | 40.0 | 34.0 | 85 | 4 | 20-140 | 30 |
| Butylbenzylphthalate | ND | 40.0 | 36.8 | 92 | 40.0 | 31.9 | 80 | 14 | 40-130 | 30 |
| Chrysene | ND | 40.0 | 38.4 | 96 | 40.0 | 34.4 | 86 | 11 | 40-130 | 30 |
| Di-n-butylphthalate | ND | 40.0 | 35.5 | 89 | 40.0 | 30.8 | 77 | 14 | 30-160 | 30 |
| Di-n-octylphthalate | ND | 40.0 | 35.5 | 89 | 40.0 | 30.2 | 76 | 16 | 20-150 | 30 |
| Dibenzo(a,h)anthracene | ND | 40.0 | 37.5 | 94 | 40.0 | 33.7 | 84 | 11 | 40-130 | 30 |
| Dibenzofuran | ND | 40.0 | 30.4 | 76 | 40.0 | 26.0 | 65 | 16 | 40-130 | 30 |
| Diethylphthalate | ND | 40.0 | 34.9 | 87 | 40.0 | 30.9 | 77 | 12 | 30-140 | 30 |
| Dimethylphthalate | ND | 40.0 | 33.5 | 84 | 40.0 | 29.6 | 74 | 13 | 30-130 | 30 |
| Fluoranthene | ND | 40.0 | 38.7 | 97 | 40.0 | 33.5 | 84 | 15 | 40-130 | 30 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 40.0 | 34.6 | 87 | 40.0 | 29.5 | 74 | 16 | 40-130 | 30 |
| Hexachlorobenzene | ND | 40.0 | 32.7 | 82 | 40.0 | 30.4 | 76 | 7 | 30-130 | 30 |
| Hexachlorobutadiene | ND | 40.0 | 26.9 | 67 | 40.0 | 19.7 | 49 | 31* | 10-130 | 30 |
| Hexachlorocyclopentadiene | ND | 40.0 | 12.5J | 31 | 40.0 | 10.9J | 27 | 14 | 10-130 | 30 |
| Hexachloroethane | ND | 40.0 | 25.3 | 63 | 40.0 | 18.9 | 47 | 29 | 20-130 | 30 |
| Indeno(1,2,3-cd)pyrene | ND | 40.0 | 37.5 | 94 | 40.0 | 33.9 | 85 | 10 | 50-130 | 30 |
| Isophorone | ND | 40.0 | 28.8 | 72 | 40.0 | 23.0 | 58 | 22 | 40-130 | 30 |
| n-Nitroso-di-n-propylamine | ND | 40.0 | 23.3 | 58 | 40.0 | 17.8 | 45 | 27 | 30-130 | 30 |
| n-Nitrosodiphenylamine | ND | 40.0 | 25.9 | 65 | 40.0 | 23.9 | 60 | 8 | 10-150 | 30 |
| Naphthalene | ND | 40.0 | 31.3 | 78 | 40.0 | 24.0 | 60 | 27 | 20-130 | 30 |
| Nitrobenzene | ND | 40.0 | 31.3 | 78 | 40.0 | 24.5 | 61 | 25 | 30-130 | 30 |
| Pentachlorophenol | ND | 40.0 | 30.9 | 77 | 40.0 | 27.6 | 69 | 11 | 30-130 | 30 |
| Phenanthrene | ND | 40.0 | 37.3 | 93 | 40.0 | 33.2 | 83 | 12 | 40-130 | 30 |
| Phenol | ND | 40.0 | 27.0 | 67 | 40.0 | 21.2 | 53 | 24 | 20-130 | 30 |
| Pyrene | ND | 40.0 | 36.2 | 91 | 40.0 | 34.2 | 85 | 6 | 40-130 | 30 |
| Benzyl Alcohol | ND | 40.0 | 26.0 | 65 | 40.0 | 20.1 | 50 | 25 | 30-130 | 30 |
| 1-Methylnaphthalene | ND | 40.0 | 30.9 | 77 | 40.0 | 24.1 | 60 | 25 | 40-130 | 30 |
| 1,2-Diphenylhydrazine | ND | 40.0 | 28.8 | 72 | 40.0 | 26.3 | 66 | 9 | 30-130 | 30 |
| 3,5-Dimethylphenol | ND | 40.0 | 26.3 | 66 | 40.0 | 21.9 | 55 | 18 | 20-150 | 30 |
| Aniline | ND | 40.0 | 20.7 | 52 | 40.0 | 16.2J | 40 | 25 | 10-130 | 30 |
| Benzidine | ND | 80.0 | 15.9J | 20 | 80.0 | 22.9J | 29 | 37* | 20-130 | 30 |
| Benzoic Acid | ND | 80.0 | 32.1J | 40 | 80.0 | 30.5J | 38 | 5 | 10-130 | 30 |
| Carbazole | ND | 40.0 | 35.1 | 88 | 40.0 | 30.0 | 75 | 16 | 50-130 | 30 |
| N-Nitrosodimethylamine | ND | 40.0 | 30.1 | 75 | 40.0 | 22.5 | 56 | 29 | 30-150 | 30 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 60.0 | 50.1 | 83 | 60.0 | 48.2 | 80 | 30-130 |
| 2-Fluorobiphenyl | 20.0 | 13.2 | 66 | 20.0 | 10.5 | 53 | 45-130 |
| 2-Fluorophenol | 60.0 | 36.2 | 60 | 60.0 | 26.9 | 45 | 20-130 |
| Nitrobenzene-d5 | 20.0 | 13.2 | 66 | 20.0 | 10.5 | 53 | 40-130 |
| Phenol-d5 | 60.0 | 38.3 | 64 | 60.0 | 30.0 | 50 | 20-120 |
| Terphenyl-d14 | 20.0 | 17.8 | 89 | 20.0 | 17.3 | 87 | 45-135 |

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-062-NBZ-SB-2.5-3.5 | Date Analyzed: 03/29/12 21:55 |
| Lab Samp ID: C209-03 | Dilution Factor: 1 |
| Lab File ID: RCJ518 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 3.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 87 |
| 1,2-DICHLOROBENZENE | ND | 170 | 87 |
| 1,3-DICHLOROBENZENE | ND | 170 | 87 |
| 1,4-DICHLOROBENZENE | ND | 170 | 87 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 87 |
| 2,4-DINITROPHENOL | ND | 340 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 87 |
| 2,6-DINITROTOLUENE | ND | 170 | 87 |
| 2-CHLORONAPHTHALENE | ND | 170 | 87 |
| 2-CHLOROPHENOL | ND | 170 | 87 |
| 2-METHYLNAPHTHALENE | ND | 170 | 87 |
| 2-METHYLPHENOL | ND | 170 | 87 |
| 2-NITROANILINE | ND | 170 | 87 |
| 2-NITROPHENOL | ND | 170 | 87 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 87 |
| 3-NITROANILINE | ND | 170 | 87 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 340 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 87 |
| 4-CHLOROANILINE | ND | 170 | 87 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-METHYLPHENOL (1) | ND | 170 | 87 |
| 4-NITROANILINE | ND | 170 | 87 |
| 4-NITROPHENOL | ND | 340 | 170 |
| ACENAPHTHENE | ND | 170 | 87 |
| ACENAPHTHYLENE | ND | 170 | 87 |
| ANTHRACENE | ND | 170 | 87 |
| BENZO(A)ANTHRACENE | ND | 170 | 87 |
| BENZO(A)PYRENE | ND | 170 | 87 |
| BENZO(B)FLUORANTHENE | ND | 170 | 87 |
| BENZO(K)FLUORANTHENE | ND | 170 | 87 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 87 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 87 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 87 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 87 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 87 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 87 |
| CHRYSENE | ND | 170 | 87 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 87 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 87 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 87 |
| DIBENZOFURAN | ND | 170 | 87 |
| DIETHYLPHTHALATE | ND | 170 | 87 |
| DIMETHYLPHTHALATE | ND | 170 | 87 |
| FLUORANTHENE | ND | 170 | 87 |
| FLUORENE | ND | 170 | 87 |
| HEXACHLOROBENZENE | ND | 170 | 87 |
| HEXACHLOROBUTADIENE | ND | 170 | 87 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 87 |
| HEXACHLOROETHANE | ND | 170 | 87 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 87 |
| ISOPHORONE | ND | 170 | 87 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 87 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 87 |
| NAPHTHALENE | ND | 170 | 87 |
| NITROBENZENE | ND | 170 | 87 |
| PENTACHLOROPHENOL | ND | 340 | 170 |
| PHENANTHRENE | ND | 170 | 87 |
| PHENOL | ND | 170 | 87 |
| PYRENE | ND | 170 | 87 |
| BENZYL ALCOHOL | ND | 170 | 87 |
| 1-METHYLNAPHTHALENE | ND | 170 | 87 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 87 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 87 |
| ANILINE | ND | 340 | 170 |
| BENZIDINE | ND | 860 | 430 |
| BENZOIC ACID | ND | 690 | 350 |
| CARBAZOLE | ND | 170 | 87 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 87 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 637 | 1035 | 61.5 | 35-130 |
| 2-FLUOROBIPHENYL | 181 | 345.0 | 52.5 | 45-130 |
| 2-FLUOROPHENOL | 559 | 1035 | 54.0 | 25-130 |
| NITROBENZENE-D5 | 166 | 345.0 | 48.2 | 40-130 |
| PHENOL-D5 | 586 | 1035 | 56.6 | 25-120 |
| TERPHENYL-D14 | 245 | 345.0 | 71.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-063-NBZ-SB-0.5-1.5 | Date Analyzed: 03/29/12 22:14 |
| Lab Samp ID: C209-05 | Dilution Factor: 1 |
| Lab File ID: RCJ519 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 12.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 96 |
| 1,2-DICHLOROBENZENE | ND | 190 | 96 |
| 1,3-DICHLOROBENZENE | ND | 190 | 96 |
| 1,4-DICHLOROBENZENE | ND | 190 | 96 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 96 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 96 |
| 2,6-DINITROTOLUENE | ND | 190 | 96 |
| 2-CHLORONAPHTHALENE | ND | 190 | 96 |
| 2-CHLOROPHENOL | ND | 190 | 96 |
| 2-METHYLNAPHTHALENE | ND | 190 | 96 |
| 2-METHYLPHENOL | ND | 190 | 96 |
| 2-NITROANILINE | ND | 190 | 96 |
| 2-NITROPHENOL | ND | 190 | 96 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 96 |
| 3-NITROANILINE | ND | 190 | 96 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 96 |
| 4-CHLOROANILINE | ND | 190 | 96 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-METHYLPHENOL (1) | ND | 190 | 96 |
| 4-NITROANILINE | ND | 190 | 96 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 96 |
| ACENAPHTHYLENE | ND | 190 | 96 |
| ANTHRACENE | ND | 190 | 96 |
| BENZO(A)ANTHRACENE | ND | 190 | 96 |
| BENZO(A)PYRENE | ND | 190 | 96 |
| BENZO(B)FLUORANTHENE | ND | 190 | 96 |
| BENZO(K)FLUORANTHENE | ND | 190 | 96 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 96 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 96 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 96 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 96 |
| CHRYSENE | ND | 190 | 96 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 96 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 96 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 96 |
| DIBENZOFURAN | ND | 190 | 96 |
| DIETHYLPHTHALATE | ND | 190 | 96 |
| DIMETHYLPHTHALATE | ND | 190 | 96 |
| FLUORANTHENE | ND | 190 | 96 |
| FLUORENE | ND | 190 | 96 |
| HEXACHLOROBENZENE | ND | 190 | 96 |
| HEXACHLOROBUTADIENE | ND | 190 | 96 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 96 |
| HEXACHLOROETHANE | ND | 190 | 96 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 96 |
| ISOPHORONE | ND | 190 | 96 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 96 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 96 |
| NAPHTHALENE | ND | 190 | 96 |
| NITROBENZENE | ND | 190 | 96 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 96 |
| PHENOL | ND | 190 | 96 |
| PYRENE | ND | 190 | 96 |
| BENZYL ALCOHOL | ND | 190 | 96 |
| 1-METHYLNAPHTHALENE | ND | 190 | 96 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 96 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 96 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 950 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 96 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 96 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 616 | 1139 | 54.1 | 35-130 |
| 2-FLUOROBIPHENYL | 189 | 379.6 | 49.9 | 45-130 |
| 2-FLUOROPHENOL | 589 | 1139 | 51.7 | 25-130 |
| NITROBENZENE-D5 | 206 | 379.6 | 54.3 | 40-130 |
| PHENOL-D5 | 613 | 1139 | 53.8 | 25-120 |
| TERPHENYL-D14 | 223 | 379.6 | 58.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-064-NBZ-SB-0.5-1.5 | Date Analyzed: 03/29/12 22:33 |
| Lab Samp ID: C209-07 | Dilution Factor: 1 |
| Lab File ID: RCJ520 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 4.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 88 |
| 1,2-DICHLOROBENZENE | ND | 180 | 88 |
| 1,3-DICHLOROBENZENE | ND | 180 | 88 |
| 1,4-DICHLOROBENZENE | ND | 180 | 88 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 88 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 88 |
| 2,4-DICHLOROPHENOL | ND | 180 | 88 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 88 |
| 2,4-DINITROPHENOL | ND | 350 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 88 |
| 2,6-DINITROTOLUENE | ND | 180 | 88 |
| 2-CHLORONAPHTHALENE | ND | 180 | 88 |
| 2-CHLOROPHENOL | ND | 180 | 88 |
| 2-METHYLNAPHTHALENE | ND | 180 | 88 |
| 2-METHYLPHENOL | ND | 180 | 88 |
| 2-NITROANILINE | ND | 180 | 88 |
| 2-NITROPHENOL | ND | 180 | 88 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 88 |
| 3-NITROANILINE | ND | 180 | 88 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 88 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 88 |
| 4-CHLOROANILINE | ND | 180 | 88 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 88 |
| 4-METHYLPHENOL (1) | ND | 180 | 88 |
| 4-NITROANILINE | ND | 180 | 88 |
| 4-NITROPHENOL | ND | 350 | 180 |
| ACENAPHTHENE | ND | 180 | 88 |
| ACENAPHTHYLENE | ND | 180 | 88 |
| ANTHRACENE | ND | 180 | 88 |
| BENZO(A)ANTHRACENE | ND | 180 | 88 |
| BENZO(A)PYRENE | ND | 180 | 88 |
| BENZO(B)FLUORANTHENE | ND | 180 | 88 |
| BENZO(K)FLUORANTHENE | ND | 180 | 88 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 88 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 88 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 88 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 88 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 88 |
| CHRYSENE | ND | 180 | 88 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 88 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 88 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 88 |
| DIBENZOFURAN | ND | 180 | 88 |
| DIETHYLPHTHALATE | ND | 180 | 88 |
| DIMETHYLPHTHALATE | ND | 180 | 88 |
| FLUORANTHENE | ND | 180 | 88 |
| FLUORENE | ND | 180 | 88 |
| HEXACHLOROBENZENE | ND | 180 | 88 |
| HEXACHLOROBUTADIENE | ND | 180 | 88 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 88 |
| HEXACHLOROETHANE | ND | 180 | 88 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 88 |
| ISOPHORONE | ND | 180 | 88 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 88 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 88 |
| NAPHTHALENE | ND | 180 | 88 |
| NITROBENZENE | ND | 180 | 88 |
| PENTACHLOROPHENOL | ND | 350 | 180 |
| PHENANTHRENE | ND | 180 | 88 |
| PHENOL | ND | 180 | 88 |
| PYRENE | ND | 180 | 88 |
| BENZYL ALCOHOL | ND | 180 | 88 |
| 1-METHYLNAPHTHALENE | ND | 180 | 88 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 88 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 88 |
| ANILINE | ND | 350 | 180 |
| BENZIDINE | ND | 870 | 440 |
| BENZOIC ACID | ND | 700 | 350 |
| CARBAZOLE | ND | 180 | 88 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 88 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 919 | 1050 | 87.5 | 35-130 |
| 2-FLUOROBIPHENYL | 275 | 350.1 | 78.4 | 45-130 |
| 2-FLUOROPHENOL | 822 | 1050 | 78.2 | 25-130 |
| NITROBENZENE-D5 | 253 | 350.1 | 72.2 | 40-130 |
| PHENOL-D5 | 850 | 1050 | 80.9 | 25-120 |
| TERPHENYL-D14 | 390 | 350.1 | 112 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-065-NBZ-SB-1.0-2.0 | Date Analyzed: 03/29/12 22:52 |
| Lab Samp ID: C209-09 | Dilution Factor: 1 |
| Lab File ID: RCJ521 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 7.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 460 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 751 | 1083 | 69.3 | 35-130 |
| 2-FLUOROBIPHENYL | 216 | 361.1 | 59.9 | 45-130 |
| 2-FLUOROPHENOL | 649 | 1083 | 59.9 | 25-130 |
| NITROBENZENE-D5 | 226 | 361.1 | 62.5 | 40-130 |
| PHENOL-D5 | 662 | 1083 | 61.1 | 25-120 |
| TERPHENYL-D14 | 340 | 361.1 | 94.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-066-NBZ-SB-2.0-3.0 | Date Analyzed: 03/29/12 23:11 |
| Lab Samp ID: C209-11 | Dilution Factor: 1 |
| Lab File ID: RCJ522 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 3.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 87 |
| 1,2-DICHLOROBENZENE | ND | 170 | 87 |
| 1,3-DICHLOROBENZENE | ND | 170 | 87 |
| 1,4-DICHLOROBENZENE | ND | 170 | 87 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 87 |
| 2,4-DINITROPHENOL | ND | 340 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 87 |
| 2,6-DINITROTOLUENE | ND | 170 | 87 |
| 2-CHLORONAPHTHALENE | ND | 170 | 87 |
| 2-CHLOROPHENOL | ND | 170 | 87 |
| 2-METHYLNAPHTHALENE | ND | 170 | 87 |
| 2-METHYLPHENOL | ND | 170 | 87 |
| 2-NITROANILINE | ND | 170 | 87 |
| 2-NITROPHENOL | ND | 170 | 87 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 87 |
| 3-NITROANILINE | ND | 170 | 87 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 340 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 87 |
| 4-CHLOROANILINE | ND | 170 | 87 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-METHYLPHENOL (1) | ND | 170 | 87 |
| 4-NITROANILINE | ND | 170 | 87 |
| 4-NITROPHENOL | ND | 340 | 170 |
| ACENAPHTHENE | ND | 170 | 87 |
| ACENAPHTHYLENE | ND | 170 | 87 |
| ANTHRACENE | ND | 170 | 87 |
| BENZO(A)ANTHRACENE | ND | 170 | 87 |
| BENZO(A)PYRENE | ND | 170 | 87 |
| BENZO(B)FLUORANTHENE | ND | 170 | 87 |
| BENZO(K)FLUORANTHENE | ND | 170 | 87 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 87 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 87 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 87 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 87 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 87 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 87 |
| CHRYSENE | ND | 170 | 87 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 87 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 87 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 87 |
| DIBENZOFURAN | ND | 170 | 87 |
| DIETHYLPHTHALATE | ND | 170 | 87 |
| DIMETHYLPHTHALATE | ND | 170 | 87 |
| FLUORANTHENE | ND | 170 | 87 |
| FLUORENE | ND | 170 | 87 |
| HEXACHLOROBENZENE | ND | 170 | 87 |
| HEXACHLOROBUTADIENE | ND | 170 | 87 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 87 |
| HEXACHLOROETHANE | ND | 170 | 87 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 87 |
| ISOPHORONE | ND | 170 | 87 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 87 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 87 |
| NAPHTHALENE | ND | 170 | 87 |
| NITROBENZENE | ND | 170 | 87 |
| PENTACHLOROPHENOL | ND | 340 | 170 |
| PHENANTHRENE | ND | 170 | 87 |
| PHENOL | ND | 170 | 87 |
| PYRENE | ND | 170 | 87 |
| BENZYL ALCOHOL | ND | 170 | 87 |
| 1-METHYLNAPHTHALENE | ND | 170 | 87 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 87 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 87 |
| ANILINE | ND | 340 | 170 |
| BENZIDINE | ND | 860 | 430 |
| BENZOIC ACID | ND | 690 | 340 |
| CARBAZOLE | ND | 170 | 87 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 87 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 899 | 1031 | 87.2 | 35-130 |
| 2-FLUOROBIPHENYL | 249 | 343.6 | 72.4 | 45-130 |
| 2-FLUOROPHENOL | 732 | 1031 | 71.0 | 25-130 |
| NITROBENZENE-D5 | 226 | 343.6 | 65.9 | 40-130 |
| PHENOL-D5 | 781 | 1031 | 75.7 | 25-120 |
| TERPHENYL-D14 | 340 | 343.6 | 98.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-105-NBZ-SS-0.0-0.5 | Date Analyzed: 03/29/12 23:30 |
| Lab Samp ID: C209-12 | Dilution Factor: 1 |
| Lab File ID: RCJ523 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 9.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 93 |
| 1,2-DICHLOROBENZENE | ND | 190 | 93 |
| 1,3-DICHLOROBENZENE | ND | 190 | 93 |
| 1,4-DICHLOROBENZENE | ND | 190 | 93 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 93 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 93 |
| 2,4-DICHLOROPHENOL | ND | 190 | 93 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 93 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 93 |
| 2,6-DINITROTOLUENE | ND | 190 | 93 |
| 2-CHLORONAPHTHALENE | ND | 190 | 93 |
| 2-CHLOROPHENOL | ND | 190 | 93 |
| 2-METHYLNAPHTHALENE | ND | 190 | 93 |
| 2-METHYLPHENOL | ND | 190 | 93 |
| 2-NITROANILINE | ND | 190 | 93 |
| 2-NITROPHENOL | ND | 190 | 93 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 93 |
| 3-NITROANILINE | ND | 190 | 93 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 93 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 93 |
| 4-CHLOROANILINE | ND | 190 | 93 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 93 |
| 4-METHYLPHENOL (1) | ND | 190 | 93 |
| 4-NITROANILINE | ND | 190 | 93 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 93 |
| ACENAPHTHYLENE | ND | 190 | 93 |
| ANTHRACENE | ND | 190 | 93 |
| BENZO(A)ANTHRACENE | ND | 190 | 93 |
| BENZO(A)PYRENE | ND | 190 | 93 |
| BENZO(B)FLUORANTHENE | ND | 190 | 93 |
| BENZO(K)FLUORANTHENE | ND | 190 | 93 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 93 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 93 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 93 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 93 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 93 |
| CHRYSENE | ND | 190 | 93 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 93 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 93 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 93 |
| DIBENZOFURAN | ND | 190 | 93 |
| DIETHYLPHTHALATE | ND | 190 | 93 |
| DIMETHYLPHTHALATE | ND | 190 | 93 |
| FLUORANTHENE | ND | 190 | 93 |
| FLUORENE | ND | 190 | 93 |
| HEXACHLOROBENZENE | ND | 190 | 93 |
| HEXACHLOROBUTADIENE | ND | 190 | 93 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 93 |
| HEXACHLOROETHANE | ND | 190 | 93 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 93 |
| ISOPHORONE | ND | 190 | 93 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 93 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 93 |
| NAPHTHALENE | ND | 190 | 93 |
| NITROBENZENE | ND | 190 | 93 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 93 |
| PHENOL | ND | 190 | 93 |
| PYRENE | ND | 190 | 93 |
| BENZYL ALCOHOL | ND | 190 | 93 |
| 1-METHYLNAPHTHALENE | ND | 190 | 93 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 93 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 93 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 920 | 470 |
| BENZOIC ACID | ND | 740 | 370 |
| CARBAZOLE | ND | 190 | 93 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 93 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 963 | 1109 | 86.9 | 35-130 |
| 2-FLUOROBIPHENYL | 288 | 369.5 | 77.9 | 45-130 |
| 2-FLUOROPHENOL | 822 | 1109 | 74.2 | 25-130 |
| NITROBENZENE-D5 | 263 | 369.5 | 71.1 | 40-130 |
| PHENOL-D5 | 848 | 1109 | 76.5 | 25-120 |
| TERPHENYL-D14 | 338 | 369.5 | 91.4 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C209 | Date Extracted: 03/28/12 17:47 |
| Sample ID: MBLK1S | Date Analyzed: 03/29/12 16:36 |
| Lab Samp ID: SVC042SB | Dilution Factor: 1 |
| Lab File ID: RCJ502 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 806 | 1000 | 80.6 | 35-130 |
| 2-FLUOROBIPHENYL | 273 | 333.3 | 81.8 | 45-130 |
| 2-FLUOROPHENOL | 776 | 1000 | 77.6 | 25-130 |
| NITROBENZENE-D5 | 236 | 333.3 | 70.9 | 40-130 |
| PHENOL-D5 | 771 | 1000 | 77.1 | 25-120 |
| TERPHENYL-D14 | 306 | 333.3 | 91.9 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVC042SB SVC042SL SVC042SC
LAB FILE ID: RCJ502 RCJ498 RCJ499
DATE EXTRACTED: 03/28/1217:47 03/28/1217:47 03/28/1217:47 DATE COLLECTED: NA
DATE ANALYZED: 03/29/1216:36 03/29/1215:21 03/29/1215:40 DATE RECEIVED: 03/28/12
PREP. BATCH: SVC042S SVC042S SVC042S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 555 | 83 | 667 | 538 | 81 | 3 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 582 | 87 | 667 | 547 | 82 | 6 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 573 | 86 | 667 | 541 | 81 | 6 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 582 | 87 | 667 | 547 | 82 | 6 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 583 | 87 | 667 | 560 | 84 | 4 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 658 | 99 | 667 | 627 | 94 | 5 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 675 | 101 | 667 | 635 | 95 | 6 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 650 | 98 | 667 | 615 | 92 | 6 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 557 | 84 | 667 | 484 | 73 | 14 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 757 | 114 | 667 | 716 | 107 | 6 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 724 | 109 | 667 | 660 | 99 | 9 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 629 | 94 | 667 | 592 | 89 | 6 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 634 | 95 | 667 | 642 | 96 | 1 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 763 | 114 | 667 | 674 | 101 | 12 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 588 | 88 | 667 | 546 | 82 | 7 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 649 | 97 | 667 | 604 | 91 | 7 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 691 | 104 | 667 | 655 | 98 | 5 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 692 | 104 | 667 | 653 | 98 | 6 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 620 | 93 | 667 | 574 | 86 | 8 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 730 | 109 | 667 | 675 | 101 | 8 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 670 | 100 | 667 | 639 | 96 | 5 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 642 | 96 | 667 | 598 | 90 | 7 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 574 | 86 | 667 | 524 | 79 | 9 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 716 | 107 | 667 | 675 | 101 | 6 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 610 | 92 | 667 | 581 | 87 | 5 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 745 | 112 | 667 | 620 | 93 | 18 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 521 | 78 | 667 | 506 | 76 | 3 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 698 | 105 | 667 | 667 | 100 | 5 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 714 | 107 | 667 | 674 | 101 | 6 | 30-130 | 50 |
| Anthracene | ND | 667 | 723 | 108 | 667 | 679 | 102 | 6 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 771 | 116 | 667 | 745 | 112 | 3 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 746 | 112 | 667 | 715 | 107 | 4 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 778 | 117 | 667 | 760 | 114 | 2 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 810 | 121 | 667 | 772 | 116 | 5 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 789 | 118 | 667 | 753 | 113 | 5 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 683 | 102 | 667 | 642 | 96 | 6 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 667 | 100 | 667 | 626 | 94 | 6 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 726 | 109 | 667 | 672 | 101 | 8 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 774 | 116 | 667 | 750 | 113 | 3 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 795 | 119 | 667 | 760 | 114 | 5 | 40-150 | 50 |
| Chrysene | ND | 667 | 806 | 121 | 667 | 776 | 116 | 4 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 739 | 111 | 667 | 719 | 108 | 3 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 776 | 116 | 667 | 739 | 111 | 5 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 799 | 120 | 667 | 765 | 115 | 4 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 659 | 99 | 667 | 630 | 94 | 4 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 690 | 103 | 667 | 649 | 97 | 6 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 668 | 100 | 667 | 637 | 95 | 5 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 790 | 119 | 667 | 764 | 115 | 3 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 711 | 107 | 667 | 668 | 100 | 6 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 677 | 102 | 667 | 644 | 97 | 5 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 610 | 92 | 667 | 578 | 87 | 5 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 369 | 55 | 667 | 354 | 53 | 4 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 580 | 87 | 667 | 547 | 82 | 6 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 793 | 119 | 667 | 766 | 115 | 3 | 30-140 | 50 |
| Isophorone | ND | 667 | 684 | 103 | 667 | 635 | 95 | 7 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 551 | 83 | 667 | 517 | 78 | 6 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 532 | 80 | 667 | 508 | 76 | 5 | 30-140 | 50 |
| Naphthalene | ND | 667 | 689 | 103 | 667 | 649 | 97 | 6 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 710 | 107 | 667 | 667 | 100 | 6 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 622 | 93 | 667 | 574 | 86 | 8 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 757 | 114 | 667 | 718 | 108 | 5 | 30-130 | 50 |
| Phenol | ND | 667 | 619 | 93 | 667 | 601 | 90 | 3 | 30-130 | 50 |
| Pyrene | ND | 667 | 782 | 117 | 667 | 744 | 112 | 5 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 592 | 89 | 667 | 572 | 86 | 4 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 706 | 106 | 667 | 669 | 100 | 5 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 617 | 93 | 667 | 580 | 87 | 6 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 604 | 91 | 667 | 587 | 88 | 3 | 20-150 | 50 |
| Aniline | ND | 667 | 442 | 66 | 667 | 415 | 62 | 6 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1440 | 54 | 2670 | 1400 | 52 | 3 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 1160 | 43 | 2670 | 922 | 35 | 23 | 10-130 | 50 |
| Carbazole | ND | 667 | 701 | 105 | 667 | 683 | 103 | 3 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 663 | 99 | 667 | 626 | 94 | 6 | 30-150 | 50 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 927 | 93 | 1000 | 859 | 86 | 35-130 |
| 2-Fluorobiphenyl | 333 | 278 | 83 | 333 | 264 | 79 | 45-130 |
| 2-Fluorophenol | 1000 | 808 | 81 | 1000 | 747 | 75 | 25-130 |
| Nitrobenzene-d5 | 333 | 271 | 81 | 333 | 248 | 75 | 40-130 |
| Phenol-d5 | 1000 | 842 | 84 | 1000 | 757 | 76 | 25-120 |
| Terphenyl-d14 | 333 | 349 | 105 | 333 | 331 | 99 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: 3.0
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-066-NBZ-SB-2.0-3.0
LAB SAMP ID: C209-11 C209-11M C209-11S
LAB FILE ID: RCJ522 RCJ524 RCJ525
DATE EXTRACTED: 03/28/1217:47 03/28/1217:47 03/28/1217:47 DATE COLLECTED: 03/21/12
DATE ANALYZED: 03/29/1223:11 03/29/1223:49 03/30/1200:07 DATE RECEIVED: 03/22/12
PREP. BATCH: SVC042S SVC042S SVC042S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 687 | 327 | 48 | 687 | 464 | 67 | 34 | 10-130 | 50 |
| 1,2-Dichlorobenzene | ND | 687 | 315 | 46 | 687 | 406 | 59 | 25 | 30-130 | 50 |
| 1,3-Dichlorobenzene | ND | 687 | 290 | 42 | 687 | 373 | 54 | 25 | 30-130 | 50 |
| 1,4-Dichlorobenzene | ND | 687 | 303 | 44 | 687 | 383 | 56 | 23 | 10-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 687 | 387 | 56 | 687 | 554 | 81 | 36 | 30-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 687 | 399 | 58 | 687 | 604 | 88 | 41 | 30-130 | 50 |
| 2,4-Dichlorophenol | ND | 687 | 399 | 58 | 687 | 578 | 84 | 37 | 30-130 | 50 |
| 2,4-Dimethylphenol | ND | 687 | 378 | 55 | 687 | 546 | 79 | 36 | 30-130 | 50 |
| 2,4-Dinitrophenol | ND | 687 | 443 | 64 | 687 | 555 | 81 | 23 | 10-130 | 50 |
| 2,4-Dinitrotoluene | ND | 687 | 530 | 77 | 687 | 686 | 100 | 26 | 20-130 | 50 |
| 2,6-Dinitrotoluene | ND | 687 | 476 | 69 | 687 | 654 | 95 | 31 | 30-130 | 50 |
| 2-Chloronaphthalene | ND | 687 | 392 | 57 | 687 | 552 | 80 | 34 | 30-130 | 50 |
| 2-Chlorophenol | ND | 687 | 390 | 57 | 687 | 584 | 85 | 40 | 20-130 | 50 |
| 2-Methylnaphthalene | ND | 687 | 417 | 61 | 687 | 610 | 89 | 37 | 30-130 | 50 |
| 2-Methylphenol | ND | 687 | 370 | 54 | 687 | 521 | 76 | 34 | 30-130 | 50 |
| 2-Nitroaniline | ND | 687 | 428 | 62 | 687 | 610 | 89 | 35 | 30-130 | 50 |
| 2-Nitrophenol | ND | 687 | 413 | 60 | 687 | 615 | 90 | 39 | 30-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 687 | 460 | 67 | 687 | 561 | 82 | 20 | 30-130 | 50 |
| 3-Nitroaniline | ND | 687 | 423 | 62 | 687 | 564 | 82 | 28 | 30-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 687 | 528 | 77 | 687 | 661 | 96 | 22 | 30-130 | 50 |
| 4-Bromophenyl-phenylether | ND | 687 | 466 | 68 | 687 | 593 | 86 | 24 | 30-130 | 50 |
| 4-Chloro-3-Methylphenol | ND | 687 | 392 | 57 | 687 | 585 | 85 | 39 | 20-130 | 50 |
| 4-Chloroaniline | ND | 687 | 334 | 49 | 687 | 474 | 69 | 35 | 30-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 687 | 449 | 65 | 687 | 634 | 92 | 34 | 30-130 | 50 |
| 4-Methylphenol | ND | 687 | 368 | 54 | 687 | 544 | 79 | 39 | 20-130 | 50 |
| 4-Nitroaniline | ND | 687 | 515 | 75 | 687 | 591 | 86 | 14 | 40-130 | 50 |
| 4-Nitrophenol | ND | 687 | 387 | 56 | 687 | 497 | 72 | 25 | 10-130 | 50 |
| Acenaphthene | ND | 687 | 411 | 60 | 687 | 615 | 90 | 40 | 20-130 | 50 |
| Acenaphthylene | ND | 687 | 417 | 61 | 687 | 621 | 90 | 39 | 20-130 | 50 |
| Anthracene | ND | 687 | 523 | 76 | 687 | 624 | 91 | 17 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 687 | 561 | 82 | 687 | 679 | 99 | 19 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 687 | 528 | 77 | 687 | 637 | 93 | 19 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 687 | 594 | 86 | 687 | 728 | 106 | 20 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 687 | 556 | 81 | 687 | 689 | 100 | 21 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 687 | 553 | 80 | 687 | 688 | 100 | 22 | 30-130 | 50 |
| bis(2-Chloroethoxy)methane | ND | 687 | 397 | 58 | 687 | 605 | 88 | 41 | 30-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 687 | 405 | 59 | 687 | 563 | 82 | 33 | 30-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 687 | 387 | 56 | 687 | 593 | 86 | 42 | 20-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 687 | 609 | 89 | 687 | 725 | 105 | 17 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 687 | 627 | 91 | 687 | 745 | 108 | 17 | 30-130 | 50 |
| Chrysene | ND | 687 | 583 | 85 | 687 | 696 | 101 | 18 | 30-130 | 50 |
| Di-n-butylphthalate | ND | 687 | 559 | 81 | 687 | 687 | 100 | 20 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 687 | 624 | 91 | 687 | 759 | 110 | 19 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 687 | 562 | 82 | 687 | 700 | 102 | 22 | 30-130 | 50 |
| Dibenzofuran | ND | 687 | 404 | 59 | 687 | 585 | 85 | 37 | 30-130 | 50 |
| Diethylphthalate | ND | 687 | 489 | 71 | 687 | 626 | 91 | 25 | 30-130 | 50 |
| Dimethylphthalate | ND | 687 | 449 | 65 | 687 | 609 | 89 | 30 | 30-130 | 50 |
| Fluoranthene | ND | 687 | 565 | 82 | 687 | 701 | 102 | 21 | 30-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 687 | 458 | 67 | 687 | 633 | 92 | 32 | 20-130 | 50 |
| Hexachlorobenzene | ND | 687 | 488 | 71 | 687 | 598 | 87 | 20 | 10-160 | 50 |
| Hexachlorobutadiene | ND | 687 | 334 | 49 | 687 | 473 | 69 | 34 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 687 | ND | 0* | 687 | 136J | 20 | 200* | 10-130 | 50 |
| Hexachloroethane | ND | 687 | 256 | 37 | 687 | 399 | 58 | 44 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 687 | 561 | 82 | 687 | 692 | 101 | 21 | 20-130 | 50 |
| Isophorone | ND | 687 | 394 | 57 | 687 | 598 | 87 | 41 | 30-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 687 | 319 | 46 | 687 | 482 | 70 | 41 | 20-130 | 50 |
| n-Nitrosodiphenylamine | ND | 687 | 393 | 57 | 687 | 477 | 69 | 19 | 20-140 | 50 |
| Naphthalene | ND | 687 | 411 | 60 | 687 | 577 | 84 | 34 | 30-130 | 50 |
| Nitrobenzene | ND | 687 | 439 | 64 | 687 | 556 | 81 | 24 | 30-130 | 50 |
| Pentachlorophenol | ND | 687 | 483 | 70 | 687 | 586 | 85 | 19 | 10-130 | 50 |
| Phenanthrene | ND | 687 | 550 | 80 | 687 | 669 | 97 | 20 | 20-130 | 50 |
| Phenol | ND | 687 | 399 | 58 | 687 | 563 | 82 | 34 | 20-130 | 50 |
| Pyrene | ND | 687 | 589 | 86 | 687 | 688 | 100 | 16 | 10-160 | 50 |
| Benzyl Alcohol | ND | 687 | 384 | 56 | 687 | 574 | 84 | 40 | 30-130 | 50 |
| 1-Methylnaphthalene | ND | 687 | 425 | 62 | 687 | 611 | 89 | 36 | 20-130 | 50 |
| 1,2-Diphenylhydrazine | ND | 687 | 431 | 63 | 687 | 550 | 80 | 24 | 20-150 | 50 |
| 3,5-Dimethylphenol | ND | 687 | 362 | 53 | 687 | 538 | 78 | 39 | 20-130 | 50 |
| Aniline | ND | 687 | 265J | 39 | 687 | 344 | 50 | 26 | 10-150 | 50 |
| Benzidine | ND | 2750 | ND | 0* | 2750 | ND | 0* | 0 | 10-150 | 50 |
| Benzoic Acid | ND | 2750 | 1130 | 41 | 2750 | 1740 | 63 | 43 | 10-130 | 50 |
| Carbazole | ND | 687 | 522 | 76 | 687 | 644 | 94 | 21 | 30-130 | 50 |
| N-Nitrosodimethylamine | ND | 687 | 431 | 63 | 687 | 628 | 91 | 37 | 20-130 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1030 | 695 | 67 | 1030 | 854 | 83 | 35-130 |
| 2-Fluorobiphenyl | 344 | 163 | 47 | 344 | 254 | 74 | 45-130 |
| 2-Fluorophenol | 1030 | 509 | 49 | 1030 | 755 | 73 | 25-130 |
| Nitrobenzene-d5 | 344 | 165 | 48 | 344 | 247 | 72 | 40-130 |
| Phenol-d5 | 1030 | 517 | 50 | 1030 | 767 | 74 | 25-120 |
| Terphenyl-d14 | 344 | 261 | 76 | 344 | 324 | 94 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-062-NBZ-SB-2.5-3.5 | Date Analyzed: 03/29/12 21:55 |
| Lab Samp ID: C209-03 | Dilution Factor: 1 |
| Lab File ID: RCJ518 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 3.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.88 |
| ACENAPHTHYLENE | ND | 1.8 | 0.88 |
| ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)PYRENE | ND | 1.8 | 0.88 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.88 |
| CHRYSENE | ND | 1.8 | 0.88 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.88 |
| FLUORANTHENE | ND | 1.8 | 0.88 |
| FLUORENE | ND | 1.8 | 0.88 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.88 |
| NAPHTHALENE | ND | 1.8 | 0.88 |
| PHENANTHRENE | ND | 1.8 | 0.88 |
| PYRENE | ND | 1.8 | 0.88 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 11J | 17 | 8.7 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.7 |
| DIETHYLPHTHALATE | ND | 17 | 8.7 |
| DIMETHYLPHTHALATE | ND | 17 | 8.7 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.88 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 192 | 345.0 | 55.6 | 40-130 |
| 2-FLUOROBIPHENYL | 179 | 345.0 | 51.9 | 45-130 |
| TERPHENYL-D14 | 236 | 345.0 | 68.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-063-NBZ-SB-0.5-1.5 | Date Analyzed: 03/29/12 22:14 |
| Lab Samp ID: C209-05 | Dilution Factor: 1 |
| Lab File ID: RCJ519 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 12.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.97 |
| ACENAPHTHYLENE | ND | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)PYRENE | ND | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.97 |
| CHRYSENE | ND | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | ND | 1.9 | 0.97 |
| FLUORENE | ND | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.97 |
| NAPHTHALENE | ND | 1.9 | 0.97 |
| PHENANTHRENE | ND | 1.9 | 0.97 |
| PYRENE | ND | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 19 | 9.6 |
| BUTYLBENZYLPHTHALATE | 15J | 19 | 9.6 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.6 |
| DIETHYLPHTHALATE | ND | 19 | 9.6 |
| DIMETHYLPHTHALATE | ND | 19 | 9.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 203 | 379.6 | 53.4 | 40-130 |
| 2-FLUOROBIPHENYL | 182 | 379.6 | 48.0 | 45-130 |
| TERPHENYL-D14 | 214 | 379.6 | 56.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-064-NBZ-SB-0.5-1.5 | Date Analyzed: 03/29/12 22:33 |
| Lab Samp ID: C209-07 | Dilution Factor: 1 |
| Lab File ID: RCJ520 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 4.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.89 |
| ACENAPHTHYLENE | ND | 1.8 | 0.89 |
| ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)PYRENE | ND | 1.8 | 0.89 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.89 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.89 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.89 |
| CHRYSENE | ND | 1.8 | 0.89 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.89 |
| FLUORANTHENE | ND | 1.8 | 0.89 |
| FLUORENE | ND | 1.8 | 0.89 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.89 |
| NAPHTHALENE | ND | 1.8 | 0.89 |
| PHENANTHRENE | ND | 1.8 | 0.89 |
| PYRENE | ND | 1.8 | 0.89 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 8.8 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 8.8 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 8.8 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 8.8 |
| DIETHYLPHTHALATE | ND | 18 | 8.8 |
| DIMETHYLPHTHALATE | ND | 18 | 8.8 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.89 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 284 | 350.1 | 81.2 | 40-130 |
| 2-FLUOROBIPHENYL | 272 | 350.1 | 77.8 | 45-130 |
| TERPHENYL-D14 | 363 | 350.1 | 104 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-065-NBZ-SB-1.0-2.0 | Date Analyzed: 03/29/12 22:52 |
| Lab Samp ID: C209-09 | Dilution Factor: 1 |
| Lab File ID: RCJ521 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 7.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | ND | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | ND | 1.8 | 0.92 |
| PYRENE | ND | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 213 | 361.1 | 58.9 | 40-130 |
| 2-FLUOROBIPHENYL | 204 | 361.1 | 56.6 | 45-130 |
| TERPHENYL-D14 | 336 | 361.1 | 93.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-066-NBZ-SB-2.0-3.0 | Date Analyzed: 03/29/12 23:11 |
| Lab Samp ID: C209-11 | Dilution Factor: 1 |
| Lab File ID: RCJ522 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 3.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.88 |
| ACENAPHTHYLENE | ND | 1.8 | 0.88 |
| ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)PYRENE | ND | 1.8 | 0.88 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.88 |
| CHRYSENE | ND | 1.8 | 0.88 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.88 |
| FLUORANTHENE | ND | 1.8 | 0.88 |
| FLUORENE | ND | 1.8 | 0.88 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.88 |
| NAPHTHALENE | ND | 1.8 | 0.88 |
| PHENANTHRENE | ND | 1.8 | 0.88 |
| PYRENE | ND | 1.8 | 0.88 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 9.9J | 17 | 8.7 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.7 |
| DIETHYLPHTHALATE | ND | 17 | 8.7 |
| DIMETHYLPHTHALATE | ND | 17 | 8.7 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.88 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 262 | 343.6 | 76.1 | 40-130 |
| 2-FLUOROBIPHENYL | 247 | 343.6 | 71.9 | 45-130 |
| TERPHENYL-D14 | 326 | 343.6 | 94.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/28/12 17:47 |
| Sample ID: SL-105-NBZ-SS-0.0-0.5 | Date Analyzed: 03/29/12 23:30 |
| Lab Samp ID: C209-12 | Dilution Factor: 1 |
| Lab File ID: RCJ523 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : 9.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.94 |
| ACENAPHTHYLENE | ND | 1.9 | 0.94 |
| ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)PYRENE | ND | 1.9 | 0.94 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.94 |
| CHRYSENE | 1.1J | 1.9 | 0.94 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.94 |
| FLUORANTHENE | 1.8J | 1.9 | 0.94 |
| FLUORENE | ND | 1.9 | 0.94 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.94 |
| NAPHTHALENE | ND | 1.9 | 0.94 |
| PHENANTHRENE | ND | 1.9 | 0.94 |
| PYRENE | 1.6J | 1.9 | 0.94 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 21 | 19 | 9.3 |
| BUTYLBENZYLPHTHALATE | 38 | 19 | 9.3 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.3 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.3 |
| DIETHYLPHTHALATE | ND | 19 | 9.3 |
| DIMETHYLPHTHALATE | ND | 19 | 9.3 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.94 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 272 | 369.5 | 73.7 | 40-130 |
| 2-FLUOROBIPHENYL | 269 | 369.5 | 72.9 | 45-130 |
| TERPHENYL-D14 | 324 | 369.5 | 87.7 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C209 | Date Extracted: 03/28/12 17:47 |
| Sample ID: MBLK1S | Date Analyzed: 03/29/12 16:36 |
| Lab Samp ID: SVC042SB | Dilution Factor: 1 |
| Lab File ID: RCJ502 | Matrix : SOIL |
| Ext Btch ID: SVC042S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 266 | 333.3 | 79.9 | 40-130 |
| 2-FLUOROBIPHENYL | 250 | 333.3 | 75.0 | 45-130 |
| TERPHENYL-D14 | 313 | 333.3 | 93.8 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVC042SB | SVC042SX | SVC042SY | | |
| LAB FILE ID: | RCJ502 | RCJ500 | RCJ501 | | |
| DATE EXTRACTED: | 03/28/1217:47 | 03/28/1217:47 | 03/28/1217:47 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/29/1216:36 | 03/29/1215:58 | 03/29/1216:17 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | SVC042S | SVC042S | SVC042S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 348 | 104 | 333 | 326 | 98 | 6 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 377 | 113 | 333 | 354 | 106 | 6 | 20-130 | 50 |
| Anthracene | ND | 333 | 340 | 102 | 333 | 327 | 98 | 4 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 349 | 105 | 333 | 346 | 104 | 1 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 371 | 111 | 333 | 367 | 110 | 1 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 386 | 116 | 333 | 399 | 120 | 3 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 401 | 120 | 333 | 382 | 115 | 5 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 397 | 119 | 333 | 393 | 118 | 1 | 30-140 | 50 |
| Chrysene | ND | 333 | 339 | 102 | 333 | 335 | 101 | 1 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 410 | 123 | 333 | 405 | 122 | 1 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 364 | 109 | 333 | 365 | 110 | 0 | 30-130 | 50 |
| Fluorene | ND | 333 | 372 | 112 | 333 | 344 | 103 | 8 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 410 | 123 | 333 | 406 | 122 | 1 | 20-160 | 50 |
| Naphthalene | ND | 333 | 328 | 98 | 333 | 309 | 93 | 6 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 346 | 104 | 333 | 330 | 99 | 5 | 20-130 | 50 |
| Pyrene | ND | 333 | 348 | 105 | 333 | 346 | 104 | 1 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 354 | 106 | 333 | 335 | 101 | 5 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 353 | 106 | 333 | 333 | 100 | 6 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 330 | 99 | 333 | 327 | 98 | 1 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 314 | 94 | 333 | 315 | 94 | 0 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 332 | 100 | 333 | 329 | 99 | 1 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 316 | 95 | 333 | 315 | 95 | 0 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 358 | 107 | 333 | 333 | 100 | 7 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 353 | 106 | 333 | 326 | 98 | 8 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 318 | 95 | 333 | 296 | 89 | 7 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 296 | 89 | 333 | 282 | 85 | 40-130 |
| 2-Fluorobiphenyl | 333 | 265 | 80 | 333 | 250 | 75 | 45-130 |
| Terphenyl-d14 | 333 | 307 | 92 | 333 | 311 | 93 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: 3.0

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-066-NBZ-SB-2.0-3.0 | | | | |
| LAB SAMP ID: | C209-11 | C209-11M | C209-11S | | |
| LAB FILE ID: | RCJ522 | RCJ526 | RCJ527 | | |
| DATE EXTRACTED: | 03/28/1217:47 | 03/28/1217:47 | 03/28/1217:47 | DATE COLLECTED: | 03/21/12 |
| DATE ANALYZED: | 03/29/1223:11 | 03/30/1200:26 | 03/30/1200:45 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | SVC042S | SVC042S | SVC042S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 344 | 302 | 88 | 344 | 298 | 87 | 1 | 10-130 | 50 |
| Acenaphthylene | ND | 344 | 332 | 97 | 344 | 326 | 95 | 2 | 20-130 | 50 |
| Anthracene | ND | 344 | 312 | 91 | 344 | 306 | 89 | 2 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 344 | 331 | 96 | 344 | 339 | 99 | 3 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 344 | 351 | 102 | 344 | 344 | 100 | 2 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 344 | 373 | 108 | 344 | 382 | 111 | 2 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 344 | 384 | 112 | 344 | 388 | 113 | 1 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 344 | 378 | 110 | 344 | 381 | 111 | 1 | 30-140 | 50 |
| Chrysene | ND | 344 | 315 | 92 | 344 | 325 | 95 | 3 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 344 | 390 | 114 | 344 | 392 | 114 | 0 | 30-130 | 50 |
| Fluoranthene | ND | 344 | 354 | 103 | 344 | 363 | 106 | 3 | 30-130 | 50 |
| Fluorene | ND | 344 | 327 | 95 | 344 | 325 | 95 | 0 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 344 | 388 | 113 | 344 | 393 | 114 | 1 | 20-160 | 50 |
| Naphthalene | ND | 344 | 266 | 77 | 344 | 257 | 75 | 3 | 10-130 | 50 |
| Phenanthrene | ND | 344 | 323 | 94 | 344 | 324 | 94 | 0 | 20-130 | 50 |
| Pyrene | ND | 344 | 336 | 98 | 344 | 345 | 100 | 3 | 10-160 | 50 |
| 2-Methylnaphthalene | ND | 344 | 304 | 88 | 344 | 294 | 85 | 3 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 344 | 303 | 88 | 344 | 295 | 86 | 3 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | 9.90J | 344 | 347 | 98 | 344 | 357 | 101 | 3 | 20-150 | 50 |
| Butylbenzylphthalate | ND | 344 | 337 | 98 | 344 | 345 | 101 | 2 | 20-150 | 50 |
| Di-n-butylphthalate | ND | 344 | 338 | 99 | 344 | 345 | 100 | 2 | 20-150 | 50 |
| Di-n-octylphthalate | ND | 344 | 369 | 107 | 344 | 374 | 109 | 1 | 10-150 | 50 |
| Diethylphthalate | ND | 344 | 327 | 95 | 344 | 332 | 97 | 1 | 20-150 | 50 |
| Dimethylphthalate | ND | 344 | 314 | 91 | 344 | 315 | 92 | 0 | 20-150 | 50 |
| N-Nitrosodimethylamine | ND | 344 | 277 | 81 | 344 | 271 | 79 | 2 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 344 | 252 | 73 | 344 | 256 | 74 | 40-130 |
| 2-Fluorobiphenyl | 344 | 229 | 67 | 344 | 234 | 68 | 45-130 |
| Terphenyl-d14 | 344 | 296 | 86 | 344 | 311 | 91 | 45-135 |

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/24/12 18:35 |
| Sample ID: SL-062-NBZ-SB-3.0 | Date Analyzed: 03/24/12 18:35 |
| Lab Samp ID: C209-02 | Dilution Factor: 1.09 |
| Lab File ID: EC22075A | Matrix : SOIL |
| Ext Btch ID: GMC020S | % Moisture : 4.0 |
| Calib. Ref.: EC22070A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.57 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.87 | 2.271 | 82.5 | 60-130 |

RL : Reporting Limit

METHANOL EXTRACTION: 03/22/12 16:16

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/24/12 19:17 |
| Sample ID: SL-063-NBZ-SB-1.0 | Date Analyzed: 03/24/12 19:17 |
| Lab Samp ID: C209-04 | Dilution Factor: 0.95 |
| Lab File ID: EC22076A | Matrix : SOIL |
| Ext Btch ID: GMC020S | % Moisture : 10.7 |
| Calib. Ref.: EC22070A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.53 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.63 | 2.128 | 76.6 | 60-130 |

RL : Reporting Limit

METHANOL EXTRACTION: 03/22/12 16:16

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/24/12 19:59 |
| Sample ID: SL-064-NBZ-SB-1.0 | Date Analyzed: 03/24/12 19:59 |
| Lab Samp ID: C209-06 | Dilution Factor: 1.14 |
| Lab File ID: EC22077A | Matrix : SOIL |
| Ext Btch ID: GMC020S | % Moisture : 2.4 |
| Calib. Ref.: EC22070A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.2 | 0.58 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.98 | 2.336 | 84.9 | 60-130 |

RL : Reporting Limit

METHANOL EXTRACTION: 03/22/12 16:16

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/24/12 20:41 |
| Sample ID: SL-065-NBZ-SB-1.5 | Date Analyzed: 03/24/12 20:41 |
| Lab Samp ID: C209-08 | Dilution Factor: 0.95 |
| Lab File ID: EC22078A | Matrix : SOIL |
| Ext Btch ID: GMC020S | % Moisture : 3.5 |
| Calib. Ref.: EC22070A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 0.98 | 0.49 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.63 | 1.969 | 83.0 | 60-130 |

RL : Reporting Limit

METHANOL EXTRACTION: 03/22/12 16:16

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/24/12 21:23 |
| Sample ID: SL-066-NBZ-SB-2.5 | Date Analyzed: 03/24/12 21:23 |
| Lab Samp ID: C209-10 | Dilution Factor: 1 |
| Lab File ID: EC22079A | Matrix : SOIL |
| Ext Btch ID: GMC020S | % Moisture : 4.1 |
| Calib. Ref.: EC22070A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.71 | 2.086 | 81.8 | 60-130 |

RL : Reporting Limit

METHANOL EXTRACTION: 03/22/12 16:16

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/24/12 |
| Batch No. : 12C209 | Date Extracted: 03/24/12 16:30 |
| Sample ID: MBLK1S | Date Analyzed: 03/24/12 16:30 |
| Lab Samp ID: GMC020SB | Dilution Factor: 1 |
| Lab File ID: EC22072A | Matrix : SOIL |
| Ext Btch ID: GMC020S | % Moisture : NA |
| Calib. Ref.: EC22070A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.62 | 2.000 | 80.8 | 60-130 |

RL : Reporting Limit

METHANOL EXTRACTION: 03/22/12 16:16

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 5035/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | GMC020SB | GMC020SL | GMC020SC | | |
| LAB FILE ID: | EC22072A | EC22073A | EC22074A | | |
| DATE EXTRACTED: | 03/24/1216:30 | 03/24/1217:12 | 03/24/1217:53 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/24/1216:30 | 03/24/1217:12 | 03/24/1217:53 | DATE RECEIVED: | 03/24/12 |
| PREP. BATCH: | GMC020S | GMC020S | GMC020S | | |
| CALIB. REF: | EC22070A | EC22070A | EC22070A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 25.0 | 24.5 | 98 | 25.0 | 24.1 | 97 | 2 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 2.00 | 1.99 | 100 | 2.00 | 2.01 | 100 | 60-130 |

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/23/12 14:37 |
| Sample ID: TB-032112 | Date Analyzed: 03/23/12 14:37 |
| Lab Samp ID: C209-13 | Dilution Factor: 1 |
| Lab File ID: EC22035A | Matrix : WATER |
| Ext Btch ID: VA39C12 | % Moisture : NA |
| Calib. Ref.: EC22024A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12)** | 59 | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 35.0 | 40.00 | 87.5 | 60-130 |

RL : Reporting Limit

**: Presence of discrete peak(s) only

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C209 | Date Extracted: 03/23/12 10:26 |
| Sample ID: MBLK1W | Date Analyzed: 03/23/12 10:26 |
| Lab Samp ID: VA39C12B | Dilution Factor: 1 |
| Lab File ID: EC22029A | Matrix : WATER |
| Ext Btch ID: VA39C12 | % Moisture : NA |
| Calib. Ref.: EC22024A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 35.0 | 40.00 | 87.4 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 5030B/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VA39C12B | VA39C12L | VA39C12C | | |
| LAB FILE ID: | EC22029A | EC22030A | EC22031A | | |
| DATE EXTRACTED: | 03/23/1210:26 | 03/23/1211:08 | 03/23/1211:50 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1210:26 | 03/23/1211:08 | 03/23/1211:50 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | VA39C12 | VA39C12 | VA39C12 | | |
| CALIB. REF: | EC22024A | EC22024A | EC22024A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 500 | 503 | 101 | 500 | 513 | 103 | 2 | 60-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 40.0 | 42.2 | 105 | 40.0 | 41.5 | 104 | 60-130 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/22/12 13:12 |
| Sample ID: EB-NBZ-SS-032112 | Date Analyzed: 03/22/12 13:12 |
| Lab Samp ID: C209-01 | Dilution Factor: 1 |
| Lab File ID: BC22006A | Matrix : WATER |
| Ext Btch ID: MEC003W | % Moisture : NA |
| Calib. Ref.: BC22002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/22/12 11:50 |
| Sample ID: MBLK1W | Date Analyzed: 03/22/12 11:50 |
| Lab Samp ID: MEC003WB | Dilution Factor: 1 |
| Lab File ID: BC22003A | Matrix : WATER |
| Ext Btch ID: MEC003W | % Moisture : NA |
| Calib. Ref.: BC22002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | MEC003WB | MEC003WL | MEC003WC | | |
| LAB FILE ID: | BC22003A | BC22004A | BC22005A | | |
| DATE EXTRACTED: | 03/22/1211:50 | 03/22/1212:12 | 03/22/1212:31 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/22/1211:50 | 03/22/1212:12 | 03/22/1212:31 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | MEC003W | MEC003W | MEC003W | | |
| CALIB. REF: | BC22002A | BC22002A | BC22002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 7570 | 76 | 10000 | 7560 | 76 | 0 | 50-150 | 30 |
| Isopropanol | ND | 10000 | 9280 | 93 | 10000 | 8940 | 89 | 4 | 50-150 | 30 |
| Methanol | ND | 10000 | 10300 | 103 | 10000 | 9030 | 90 | 13 | 50-150 | 30 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/22/12 12:45 |
| Sample ID: SL-062-NBZ-SB-2.5-3.5 | Date Analyzed: 03/22/12 15:55 |
| Lab Samp ID: C209-03 | Dilution Factor: 1 |
| Lab File ID: BC22014A | Matrix : SOIL |
| Ext Btch ID: MEC006S | % Moisture : 3.4 |
| Calib. Ref.: BC22013A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/22/12 12:45 |
| Sample ID: SL-063-NBZ-SB-0.5-1.5 | Date Analyzed: 03/22/12 16:11 |
| Lab Samp ID: C209-05 | Dilution Factor: 1 |
| Lab File ID: BC22015A | Matrix : SOIL |
| Ext Btch ID: MEC006S | % Moisture : 12.2 |
| Calib. Ref.: BC22013A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 570 | 280 |
| ISOPROPANOL | ND | 570 | 280 |
| METHANOL | ND | 570 | 280 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/22/12 12:45 |
| Sample ID: SL-064-NBZ-SB-0.5-1.5 | Date Analyzed: 03/22/12 16:25 |
| Lab Samp ID: C209-07 | Dilution Factor: 1 |
| Lab File ID: BC22016A | Matrix : SOIL |
| Ext Btch ID: MEC006S | % Moisture : 4.8 |
| Calib. Ref.: BC22013A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 530 | 260 |
| ISOPROPANOL | ND | 530 | 260 |
| METHANOL | ND | 530 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/22/12 12:45 |
| Sample ID: SL-065-NBZ-SB-1.0-2.0 | Date Analyzed: 03/22/12 16:41 |
| Lab Samp ID: C209-09 | Dilution Factor: 1 |
| Lab File ID: BC22017A | Matrix : SOIL |
| Ext Btch ID: MEC006S | % Moisture : 7.7 |
| Calib. Ref.: BC22013A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 540 | 270 |
| ISOPROPANOL | ND | 540 | 270 |
| METHANOL | ND | 540 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/22/12 12:45 |
| Sample ID: SL-066-NBZ-SB-2.0-3.0 | Date Analyzed: 03/22/12 16:54 |
| Lab Samp ID: C209-11 | Dilution Factor: 1 |
| Lab File ID: BC22018A | Matrix : SOIL |
| Ext Btch ID: MEC006S | % Moisture : 3.0 |
| Calib. Ref.: BC22013A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/22/12 12:45 |
| Sample ID: MBLK1S | Date Analyzed: 03/22/12 13:36 |
| Lab Samp ID: MEC006SB | Dilution Factor: 1 |
| Lab File ID: BC22007A | Matrix : SOIL |
| Ext Btch ID: MEC006S | % Moisture : NA |
| Calib. Ref.: BC22002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 500 | 250 |
| ISOPROPANOL | ND | 500 | 250 |
| METHANOL | ND | 500 | 250 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | MEC006SB | MEC006SL | MEC006SY | | |
| LAB FILE ID: | BC22007A | BC22008A | BC22010A | | |
| DATE EXTRACTED: | 03/22/1212:45 | 03/22/1212:45 | 03/22/1212:45 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/22/1213:36 | 03/22/1214:15 | 03/22/1214:46 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | MEC006S | MEC006S | MEC006S | | |
| CALIB. REF: | BC22002A | BC22002A | BC22002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 9010 | 90 | 10000 | 8690 | 87 | 4 | 50-150 | 50 |
| Isopropanol | ND | 10000 | 9530 | 95 | 10000 | 8340 | 83 | 13 | 50-150 | 50 |
| Methanol | ND | 10000 | 10500 | 105 | 10000 | 10200 | 102 | 2 | 50-150 | 50 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/22/12 14:48 |
| Sample ID: EB-NBZ-SS-032112 | Date Analyzed: 03/22/12 14:48 |
| Lab Samp ID: C209-01 | Dilution Factor: 1 |
| Lab File ID: TC22007A | Matrix : WATER |
| Ext Btch ID: PEC005W | % Moisture : NA |
| Calib. Ref.: TC22002A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/22/12 12:20 |
| Sample ID: MBLK1W | Date Analyzed: 03/22/12 12:20 |
| Lab Samp ID: PEC005WB | Dilution Factor: 1 |
| Lab File ID: TC22003A | Matrix : WATER |
| Ext Btch ID: PEC005W | % Moisture : NA |
| Calib. Ref.: TC22002A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | PEC005WB | PEC005WL | PEC005WC | | |
| LAB FILE ID: | TC22003A | TC22005A | TC22006A | | |
| DATE EXTRACTED: | 03/22/1212:20 | 03/22/1213:24 | 03/22/1213:38 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/22/1212:20 | 03/22/1213:24 | 03/22/1213:38 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | PEC005W | PEC005W | PEC005W | | |
| CALIB. REF: | TC22002A | TC22002A | TC22002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 42.3 | 85 | 50.0 | 52.7 | 105 | 22 | 50-150 | 30 |
| Ethylene Glycol | ND | 50.0 | 50.8 | 102 | 50.0 | 50.9 | 102 | 0 | 50-150 | 30 |
| Propylene Glycol | ND | 25.0 | 26.2 | 105 | 25.0 | 25.5 | 102 | 3 | 50-150 | 30 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/21/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C209 | Date Extracted | : 03/22/12 12:45 |
| Sample ID | : SL-062-NBZ-SB-2.5-3.5 | Date Analyzed | : 03/22/12 16:45 |
| Lab Samp ID | : C209-03 | Dilution Factor | : 1 |
| Lab File ID | : TC22014A | Matrix | : SOIL |
| Ext Btch ID | : PEC004S | % Moisture | : 3.4 |
| Calib. Ref. | : TC22002A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.8 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/21/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C209 | Date Extracted | : 03/22/12 12:45 |
| Sample ID | : SL-063-NBZ-SB-0.5-1.5 | Date Analyzed | : 03/22/12 16:59 |
| Lab Samp ID | : C209-05 | Dilution Factor | : 1 |
| Lab File ID | : TC22015A | Matrix | : SOIL |
| Ext Btch ID | : PEC004S | % Moisture | : 12.2 |
| Calib. Ref. | : TC22002A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 17 | 8.5 |
| ETHYLENE GLYCOL | ND | 11 | 5.7 |
| PROPYLENE GLYCOL | ND | 11 | 5.7 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/22/12 12:45 |
| Sample ID: SL-064-NBZ-SB-0.5-1.5 | Date Analyzed: 03/22/12 17:13 |
| Lab Samp ID: C209-07 | Dilution Factor: 1 |
| Lab File ID: TC22016A | Matrix : SOIL |
| Ext Btch ID: PEC004S | % Moisture : 4.8 |
| Calib. Ref.: TC22002A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.9 |
| ETHYLENE GLYCOL | ND | 11 | 5.3 |
| PROPYLENE GLYCOL | ND | 11 | 5.3 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/22/12 12:45 |
| Sample ID: SL-065-NBZ-SB-1.0-2.0 | Date Analyzed: 03/22/12 17:26 |
| Lab Samp ID: C209-09 | Dilution Factor: 1 |
| Lab File ID: TC22017A | Matrix : SOIL |
| Ext Btch ID: PEC004S | % Moisture : 7.7 |
| Calib. Ref.: TC22002A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.1 |
| ETHYLENE GLYCOL | ND | 11 | 5.4 |
| PROPYLENE GLYCOL | ND | 11 | 5.4 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/21/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C209 | Date Extracted | : 03/22/12 12:45 |
| Sample ID | : SL-066-NBZ-SB-2.0-3.0 | Date Analyzed | : 03/22/12 17:40 |
| Lab Samp ID | : C209-11 | Dilution Factor | : 1 |
| Lab File ID | : TC22018A | Matrix | : SOIL |
| Ext Btch ID | : PEC004S | % Moisture | : 3.0 |
| Calib. Ref. | : TC22002A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.7 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/22/12 12:45 |
| Sample ID: MBLK1S | Date Analyzed: 03/22/12 15:21 |
| Lab Samp ID: PEC004SB | Dilution Factor: 1 |
| Lab File ID: TC22009A | Matrix : SOIL |
| Ext Btch ID: PEC004S | % Moisture : NA |
| Calib. Ref.: TC22002A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.5 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 5.0 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PEC004SB | PEC004SL | PEC004SC | | |
| LAB FILE ID: | TC22009A | TC22010A | TC22011A | | |
| DATE EXTRACTED: | 03/22/1212:45 | 03/22/1212:45 | 03/22/1212:45 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/22/1215:21 | 03/22/1215:34 | 03/22/1215:46 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | PEC004S | PEC004S | PEC004S | | |
| CALIB. REF: | TC22002A | TC22002A | TC22002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 41.4 | 83 | 50.0 | 52.2 | 104 | 23 | 50-150 | 50 |
| Ethylene Glycol | ND | 50.0 | 47.2 | 94 | 50.0 | 53.1 | 106 | 12 | 50-150 | 50 |
| Propylene Glycol | ND | 25.0 | 24.5 | 98 | 25.0 | 26.2 | 105 | 6 | 50-150 | 50 |

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/26/12 13:00 |
| Sample ID: EB-NBZ-SS-032112 | Date Analyzed: 03/27/12 17:29 |
| Lab Samp ID: C209-01 | Dilution Factor: 1.05 |
| Lab File ID: LC27010A | Matrix : WATER |
| Ext Btch ID: DSC030W | % Moisture : NA |
| Calib. Ref.: LC27003A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.52 | 0.10 |
| EFH(C12-C14) | ND | 0.52 | 0.10 |
| EFH(C15-C20) | ND | 0.52 | 0.10 |
| EFH(C21-C30) | ND | 0.52 | 0.10 |
| EFH(C30-C40) | ND | 0.52 | 0.10 |
| TOTAL EFH(C8-C40) | ND | 0.52 | 0.10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.876 | 1.050 | 83.4 | 40-130 |
| HEXACOSANE | 0.244 | 0.2625 | 92.8 | 40-150 |

RL : Reporting Limit

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C209 | Date Extracted: 03/26/12 13:00 |
| Sample ID: MBLK1W | Date Analyzed: 03/27/12 17:12 |
| Lab Samp ID: DSC030WB | Dilution Factor: 1 |
| Lab File ID: LC27009A | Matrix : WATER |
| Ext Btch ID: DSC030W | % Moisture : NA |
| Calib. Ref.: LC27003A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.50 | 0.10 |
| EFH(C12-C14) | ND | 0.50 | 0.10 |
| EFH(C15-C20) | ND | 0.50 | 0.10 |
| EFH(C21-C30) | ND | 0.50 | 0.10 |
| EFH(C30-C40) | ND | 0.50 | 0.10 |
| TOTAL EFH(C8-C40) | ND | 0.50 | 0.10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.821 | 1.000 | 82.1 | 40-130 |
| HEXACOSANE | 0.225 | 0.2500 | 89.8 | 40-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 3520C/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | DSC030WB | DSC030WL | DSC030WC | | |
| LAB FILE ID: | LC27009A | LC27007A | LC27008A | | |
| DATE EXTRACTED: | 03/26/1213:00 | 03/26/1213:00 | 03/26/1213:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/27/1217:12 | 03/27/1216:38 | 03/27/1216:55 | DATE RECEIVED: | 03/26/12 |
| PREP. BATCH: | DSC030W | DSC030W | DSC030W | | |
| CALIB. REF: | LC27003A | LC27003A | LC27003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 5.00 | 5.73 | 115 | 5.00 | 5.31 | 106 | 8 | 20-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 1.00 | 0.870 | 87 | 1.00 | 0.876 | 88 | 40-130 |
| Hexacosane | 0.250 | 0.234 | 93 | 0.250 | 0.231 | 92 | 40-150 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/29/12 16:35 |
| Sample ID: SL-062-NBZ-SB-2.5-3.5 | Date Analyzed: 03/30/12 12:23 |
| Lab Samp ID: C209-03 | Dilution Factor: 1 |
| Lab File ID: LC30007A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : 3.4 |
| Calib. Ref.: LC30002A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.61J | 1.0 | 0.52 |
| EFH(C12-C14) | ND | 1.0 | 0.52 |
| EFH(C15-C20) | ND | 1.0 | 0.52 |
| EFH(C21-C30) | 2.6 | 1.0 | 0.52 |
| EFH(C30-C40) | 6.7 | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | 9.9 | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.32 | 10.35 | 70.7 | 50-150 |
| HEXACOSANE | 2.27 | 2.588 | 87.9 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/29/12 16:35 |
| Sample ID: SL-063-NBZ-SB-0.5-1.5 | Date Analyzed: 03/30/12 12:40 |
| Lab Samp ID: C209-05 | Dilution Factor: 1 |
| Lab File ID: LC30008A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : 12.2 |
| Calib. Ref.: LC30002A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.69J | 1.1 | 0.57 |
| EFH(C12-C14) | ND | 1.1 | 0.57 |
| EFH(C15-C20) | 0.64J | 1.1 | 0.57 |
| EFH(C21-C30) | 6.7 | 1.1 | 0.57 |
| EFH(C30-C40) | 11 | 1.1 | 0.57 |
| TOTAL EFH(C8-C40) | 19 | 1.1 | 0.57 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.66 | 11.39 | 67.2 | 50-150 |
| HEXACOSANE | 2.47 | 2.847 | 86.7 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/29/12 16:35 |
| Sample ID: SL-064-NBZ-SB-0.5-1.5 | Date Analyzed: 03/30/12 12:57 |
| Lab Samp ID: C209-07 | Dilution Factor: 1 |
| Lab File ID: LC30009A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : 4.8 |
| Calib. Ref.: LC30002A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.53 |
| EFH(C12-C14) | ND | 1.1 | 0.53 |
| EFH(C15-C20) | ND | 1.1 | 0.53 |
| EFH(C21-C30) | 0.98J | 1.1 | 0.53 |
| EFH(C30-C40) | 2.7 | 1.1 | 0.53 |
| TOTAL EFH(C8-C40) | 3.7 | 1.1 | 0.53 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.40 | 10.50 | 70.5 | 50-150 |
| HEXACOSANE | 2.31 | 2.626 | 88.0 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/29/12 16:35 |
| Sample ID: SL-065-NBZ-SB-1.0-2.0 | Date Analyzed: 03/30/12 13:14 |
| Lab Samp ID: C209-09 | Dilution Factor: 1 |
| Lab File ID: LC30010A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : 7.7 |
| Calib. Ref.: LC30002A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.90J | 1.1 | 0.54 |
| EFH(C12-C14) | ND | 1.1 | 0.54 |
| EFH(C15-C20) | ND | 1.1 | 0.54 |
| EFH(C21-C30) | 1.8 | 1.1 | 0.54 |
| EFH(C30-C40) | 3.8 | 1.1 | 0.54 |
| TOTAL EFH(C8-C40) | 6.5 | 1.1 | 0.54 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.39 | 10.83 | 68.2 | 50-150 |
| HEXACOSANE | 2.29 | 2.709 | 84.4 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/29/12 16:35 |
| Sample ID: SL-066-NBZ-SB-2.0-3.0 | Date Analyzed: 03/30/12 13:31 |
| Lab Samp ID: C209-11 | Dilution Factor: 1 |
| Lab File ID: LC30011A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : 3.0 |
| Calib. Ref.: LC30002A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.52 |
| EFH(C12-C14) | ND | 1.0 | 0.52 |
| EFH(C15-C20) | ND | 1.0 | 0.52 |
| EFH(C21-C30) | ND | 1.0 | 0.52 |
| EFH(C30-C40) | 1.7 | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | 1.7 | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.22 | 10.31 | 70.0 | 50-150 |
| HEXACOSANE | 2.15 | 2.577 | 83.5 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C209 | Date Extracted: 03/29/12 16:35 |
| Sample ID: MBLK1S | Date Analyzed: 03/30/12 11:33 |
| Lab Samp ID: DSC037SB | Dilution Factor: 1 |
| Lab File ID: LC30004A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : NA |
| Calib. Ref.: LC30002A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.02 | 10.00 | 70.2 | 50-150 |
| HEXACOSANE | 2.02 | 2.500 | 80.7 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSC037SB | DSC037SL | DSC037SC | | |
| LAB FILE ID: | LC30004A | LC30005A | LC30006A | | |
| DATE EXTRACTED: | 03/29/1216:35 | 03/29/1216:35 | 03/29/1216:35 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1211:33 | 03/30/1211:50 | 03/30/1212:07 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | DSC037S | DSC037S | DSC037S | | |
| CALIB. REF: | LC30002A | LC30002A | LC30002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 48.5 | 97 | 50.0 | 48.3 | 97 | 0 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 6.95 | 69 | 10.0 | 7.30 | 73 | 50-150 |
| Hexacosane | 2.50 | 2.06 | 82 | 2.50 | 1.98 | 79 | 50-150 |

METHOD 3520C/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/23/12 16:15 |
| Sample ID: EB-NBZ-SS-032112 | Date Analyzed: 04/03/12 12:31 |
| Lab Samp ID: C209-01 | Dilution Factor: 0.95 |
| Lab File ID: MD02061A | Matrix : WATER |
| Ext Btch ID: CPC034W | % Moisture : NA |
| Calib. Ref.: MD02057A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ALPHA-BHC | 0.088J \| (ND) | 0.095 | 0.0095 \| 0.0095 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.095 | 0.0095 \| 0.0095 |
| BETA-BHC | (ND) \| 0.023J | 0.095 | 0.0095 \| 0.0095 |
| HEPTACHLOR | (ND) \| ND | 0.095 | 0.0095 \| 0.0095 |
| DELTA-BHC | (ND) \| 0.012J | 0.095 | 0.0095 \| 0.0095 |
| ALDRIN | (ND) \| ND | 0.095 | 0.0095 \| 0.0095 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.095 | 0.0095 \| 0.0095 |
| ENDOSULFAN I | (ND) \| ND | 0.095 | 0.0095 \| 0.0095 |
| 4,4'-DDE | 0.018J \| (ND) | 0.095 | 0.0095 \| 0.0095 |
| DIELDRIN | 0.056J \| (ND) | 0.095 | 0.0095 \| 0.0095 |
| ENDRIN | (ND) \| ND | 0.095 | 0.0095 \| 0.0095 |
| 4,4'-DDD | (ND) \| ND | 0.095 | 0.0095 \| 0.0095 |
| ENDOSULFAN II | 0.023J \| (ND) | 0.095 | 0.0095 \| 0.0095 |
| 4,4'-DDT | (ND) \| ND | 0.095 | 0.0095 \| 0.0095 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.095 | 0.0095 \| 0.0095 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.095 | 0.0095 \| 0.0095 |
| ENDRIN KETONE | (ND) \| ND | 0.095 | 0.0095 \| 0.0095 |
| METHOXYCHLOR | (ND) \| ND | 0.95 | 0.095 \| 0.095 |
| MIREX | (ND) \| ND | 0.095 | 0.0095 \| 0.0095 |
| TOXAPHENE | (ND) \| ND | 1.9 | 0.48 \| 0.48 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 0.95 | 0.24 \| 0.24 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (0.2773) \| 0.2644 | 0.3800 | (73.0) \| 69.6 | 60-140 |
| DECACHLOROBIPHENYL | 0.3594 \| (0.3610) | 0.3800 | 94.6 \| (95.0) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3520C/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C209 | Date Extracted: 03/23/12 16:15 |
| Sample ID: MBLK1W | Date Analyzed: 04/03/12 06:41 |
| Lab Samp ID: CPC034WB | Dilution Factor: 1 |
| Lab File ID: MD02046A | Matrix : WATER |
| Ext Btch ID: CPC034W | % Moisture : NA |
| Calib. Ref.: MD02043A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.10 | 0.010\|0.010 |
| BETA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| HEPTACHLOR | (ND)\|ND | 0.10 | 0.010\|0.010 |
| DELTA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ALDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN I | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| DIELDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDD | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN II | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDT | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN KETONE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| METHOXYCHLOR | (ND)\|ND | 1.0 | 0.10\|0.10 |
| MIREX | (ND)\|ND | 0.10 | 0.010\|0.010 |
| TOXAPHENE | (ND)\|ND | 2.0 | 0.50\|0.50 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 1.0 | 0.25\|0.25 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (0.3608)\|0.3566 | 0.4000 | (90.2)\|89.1 | 60-140 |
| DECACHLOROBIPHENYL | (0.3893)\|0.3881 | 0.4000 | (97.3)\|97.0 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 3520C/8081A

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: CPC034WB CPC034WL CPC034WC
LAB FILE ID: MD02046A MD02047A MD02048A
DATE EXTRACTED: 03/23/1216:15 03/23/1216:15 03/23/1216:15 DATE COLLECTED: NA
DATE ANALYZED: 04/03/1206:41 04/03/1207:04 04/03/1207:28 DATE RECEIVED: 03/23/12
PREP. BATCH: CPC034W CPC034W CPC034W
CALIB. REF: MD02043A MD02043A MD02043A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND) \| ND | 0.200 | 0.222 \| (0.224) | 111 \| (112) | 0.200 | 0.215 \| (0.219) | 108 \| (110) | 3 \| (2) | 30-150 | 30 |
| gamma-BHC (Lindane) | (ND) \| ND | 0.200 | (0.232) \| 0.230 | (116) \| 115 | 0.200 | (0.225) \| 0.225 | (112) \| 112 | (3) \| 2 | 40-130 | 30 |
| beta-BHC | (ND) \| ND | 0.200 | (0.230) \| 0.227 | (115) \| 114 | 0.200 | 0.225 \| (0.242) | 112 \| (121) | 2 \| (6) | 60-130 | 30 |
| Heptachlor | (ND) \| ND | 0.200 | (0.233) \| 0.227 | (116) \| 114 | 0.200 | (0.223) \| 0.218 | (112) \| 109 | (4) \| 4 | 30-140 | 30 |
| delta-BHC | (ND) \| ND | 0.200 | (0.242) \| 0.241 | (121) \| 120 | 0.200 | (0.239) \| 0.229 | (119) \| 114 | (1) \| 5 | 30-150 | 30 |
| Aldrin | (ND) \| ND | 0.200 | (0.234) \| 0.221 | (117) \| 110 | 0.200 | (0.230) \| 0.214 | (115) \| 107 | (2) \| 3 | 40-130 | 30 |
| Heptachlor Epoxide | (ND) \| ND | 0.200 | 0.229 \| (0.233) | 114 \| (116) | 0.200 | 0.215 \| (0.227) | 108 \| (114) | 6 \| (3) | 50-140 | 30 |
| Endosulfan I | (ND) \| ND | 0.200 | 0.211 \| (0.220) | 105 \| (110) | 0.200 | (0.210) \| 0.210 | (105) \| 105 | (0) \| 5 | 60-140 | 30 |
| 4,4'-DDE | (ND) \| ND | 0.200 | 0.217 \| (0.228) | 108 \| (114) | 0.200 | 0.217 \| (0.226) | 108 \| (113) | 0 \| (1) | 50-140 | 30 |
| Dieldrin | (ND) \| ND | 0.200 | 0.233 \| (0.238) | 116 \| (119) | 0.200 | (0.247) \| 0.234 | (123) \| 117 | (6) \| 2 | 60-140 | 30 |
| Endrin | (ND) \| ND | 0.200 | (0.235) \| 0.225 | (118) \| 112 | 0.200 | (0.234) \| 0.225 | (117) \| 112 | (0) \| 0 | 50-140 | 30 |
| 4,4'-DDD | (ND) \| ND | 0.200 | 0.229 \| (0.233) | 114 \| (116) | 0.200 | 0.227 \| (0.249) | 114 \| (124) | 1 \| (7) | 50-160 | 30 |
| Endosulfan II | (ND) \| ND | 0.200 | (0.225) \| 0.223 | (112) \| 112 | 0.200 | 0.227 \| (0.234) | 114 \| (117) | 1 \| (5) | 60-150 | 30 |
| 4,4'-DDT | (ND) \| ND | 0.200 | 0.283 \| (0.264) | 142* \| (132) | 0.200 | 0.273 \| (0.250) | 136 \| (125) | 4 \| (5) | 60-140 | 30 |
| Endrin aldehyde | (ND) \| ND | 0.200 | (0.235) \| 0.228 | (118) \| 114 | 0.200 | (0.249) \| 0.240 | (124) \| 120 | (6) \| 5 | 60-160 | 30 |
| Endosulfan Sulfate | (ND) \| ND | 0.200 | 0.226 \| (0.231) | 113 \| (116) | 0.200 | 0.231 \| (0.234) | 116 \| (117) | 2 \| (1) | 70-140 | 30 |
| Endrin Ketone | (ND) \| ND | 0.200 | 0.219 \| (0.230) | 110 \| (115) | 0.200 | (0.232) \| 0.221 | (116) \| 110 | (6) \| 4 | 30-150 | 30 |
| Methoxychlor | (ND) \| ND | 2.00 | 2.19 \| (2.26) | 110 \| (113) | 2.00 | 2.33 \| (2.43) | 116 \| (122) | 6 \| (7) | 70-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 0.4000 | (0.3817) \| 0.3754 | (95.4) \| 93.8 | 0.4000 | (0.3846) \| 0.3779 | (96.2) \| 94.5 | 60-140 |
| Decachlorobiphenyl | 0.4000 | 0.3757 \| (0.3835) | 93.9 \| (95.9) | 0.4000 | (0.4082) \| 0.3923 | (102) \| 98.1 | 20-120 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/29/12 17:10 |
| Sample ID: SL-105-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 19:29 |
| Lab Samp ID: C209-12 | Dilution Factor: 1 |
| Lab File ID: MD11012A | Matrix : SOIL |
| Ext Btch ID: CPC049S | % Moisture : 9.8 |
| Calib. Ref.: MD11005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.20 | 0.19 | 0.094 \| 0.094 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| HEPTACHLOR | 0.41 \| (ND) | 0.19 | 0.094 \| 0.094 |
| DELTA-BHC | (ND) \| 0.19 | 0.19 | 0.094 \| 0.094 |
| ALDRIN | (ND) \| 0.32 | 0.19 | 0.094 \| 0.094 |
| HEPTACHLOR EPOXIDE | 0.75 \| (ND) | 0.19 | 0.094 \| 0.094 |
| ENDOSULFAN I | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| 4,4'-DDE | (0.55) \| 0.39 | 0.38 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN II | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDT | 1.6 \| (ND) | 0.38 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (1.3) \| 0.70 | 0.38 | 0.19 \| 0.19 |
| ENDRIN KETONE | 0.57 \| (ND) | 0.38 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| 1.3J | 1.9 | 0.94 \| 0.94 |
| MIREX | 0.74 \| (ND) | 0.38 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.3 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.8 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.964 \| (6.356) | 5.912 | 84.0 \| (108) | 50-130 |
| DECACHLOROBIPHENYL | (6.049) \| 5.675 | 5.912 | (102) \| 96.0 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C209 | Date Extracted: 03/29/12 17:10 |
| Sample ID: MBLK1S | Date Analyzed: 04/11/12 18:20 |
| Lab Samp ID: CPC049SB | Dilution Factor: 1 |
| Lab File ID: MD11009A | Matrix : SOIL |
| Ext Btch ID: CPC049S | % Moisture : NA |
| Calib. Ref.: MD11005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.43 | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | 0.20\|(ND) | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.535\|(5.635) | 5.333 | 104\|(106) | 50-130 |
| DECACHLOROBIPHENYL | 5.686\|(5.694) | 5.333 | 107\|(107) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | CPC049SB | CPC049SL | CPC049SC | | |
| LAB FILE ID: | MD11009A | MD11010A | MD11011A | | |
| DATE EXTRACTED: | 03/29/1217:10 | 03/29/1217:10 | 03/29/1217:10 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1218:20 | 04/11/1218:43 | 04/11/1219:06 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | CPC049S | CPC049S | CPC049S | | |
| CALIB. REF: | MD11005A | MD11005A | MD11005A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND) \| 0.43 | 2.67 | 2.81 \| (3.22) | 105 \| (121) | 2.67 | 2.82 \| (3.32) | 106 \| (124) | 0 \| (3) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND) \| ND | 2.67 | 2.65 \| (3.09) | 99 \| (116) | 2.67 | 2.62 \| (3.02) | 98 \| (113) | 1 \| (2) | 40-130 | 50 |
| beta-BHC | (ND) \| ND | 2.67 | (3.03) \| 2.95 | (113) \| 110 | 2.67 | (3.12) \| 2.91 | (117) \| 109 | (3) \| 1 | 50-140 | 50 |
| Heptachlor | 0.20 \| (ND) | 2.67 | 3.22 \| (3.32) | 121 \| (124) | 2.67 | 3.05 \| (3.20) | 114 \| (120) | 5 \| (4) | 30-130 | 50 |
| delta-BHC | (ND) \| ND | 2.67 | 3.28 \| (3.57) | 123 \| (134) | 2.67 | (3.25) \| 3.22 | (122) \| 121 | (1) \| 10 | 30-150 | 50 |
| Aldrin | (ND) \| ND | 2.67 | (2.76) \| 2.56 | (103) \| 96 | 2.67 | (2.70) \| 2.47 | (101) \| 93 | (2) \| 4 | 30-130 | 50 |
| Heptachlor Epoxide | (ND) \| ND | 2.67 | (2.92) \| 2.81 | (109) \| 105 | 2.67 | (2.95) \| 2.88 | (110) \| 108 | (1) \| 2 | 60-140 | 50 |
| Endosulfan I | (ND) \| ND | 2.67 | 2.42 \| (2.65) | 91 \| (99) | 2.67 | 2.61 \| (2.67) | 98 \| (100) | 8 \| (1) | 50-150 | 50 |
| 4,4'-DDE | (ND) \| ND | 2.67 | 2.88 \| (2.99) | 108 \| (112) | 2.67 | (3.12) \| 3.00 | (117) \| 112 | (8) \| 0 | 50-150 | 50 |
| Dieldrin | (ND) \| ND | 2.67 | (3.21) \| 2.83 | (120) \| 106 | 2.67 | (3.17) \| 2.80 | (119) \| 105 | (1) \| 1 | 60-130 | 50 |
| Endrin | (ND) \| ND | 2.67 | (3.01) \| 2.89 | (113) \| 108 | 2.67 | 2.81 \| (2.86) | 105 \| (107) | 7 \| (1) | 50-140 | 50 |
| 4,4'-DDD | (ND) \| ND | 2.67 | (2.99) \| 2.99 | (112) \| 112 | 2.67 | (3.00) \| 3.00 | (112) \| 112 | (0) \| 0 | 50-160 | 50 |
| Endosulfan II | (ND) \| ND | 2.67 | (2.96) \| 2.80 | (111) \| 105 | 2.67 | (2.96) \| 2.80 | (111) \| 105 | (0) \| 0 | 60-150 | 50 |
| 4,4'-DDT | (ND) \| ND | 2.67 | 3.89 \| (3.53) | 146* \| (132) | 2.67 | 3.65 \| (3.38) | 137 \| (127) | 6 \| (4) | 60-140 | 50 |
| Endrin aldehyde | (ND) \| ND | 2.67 | 3.00 \| (3.03) | 112 \| (113) | 2.67 | 2.93 \| (2.95) | 110 \| (110) | 2 \| (3) | 50-160 | 50 |
| Endosulfan Sulfate | (ND) \| ND | 2.67 | (3.19) \| 3.04 | (119) \| 114 | 2.67 | (3.12) \| 3.03 | (117) \| 113 | (2) \| 0 | 70-140 | 50 |
| Endrin Ketone | (ND) \| ND | 2.67 | 3.02 \| (3.10) | 113 \| (116) | 2.67 | 3.06 \| (3.11) | 115 \| (116) | 1 \| (0) | 70-160 | 50 |
| Methoxychlor | (ND) \| ND | 26.7 | 32.1 \| (34.2) | 120 \| (128) | 26.7 | 32.3 \| (34.6) | 121 \| (130) | 1 \| (1) | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 5.041 \| (5.326) | 94.5 \| (99.9) | 5.333 | 4.717 \| (5.505) | 88.5 \| (103) | 50-130 |
| Decachlorobiphenyl | 5.333 | (5.075) \| 5.072 | (95.2) \| 95.1 | 5.333 | (5.224) \| 5.113 | (98.0) \| 95.9 | 20-120 |

METHOD 3520C/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/23/12 16:15 |
| Sample ID: EB-NBZ-SS-032112 | Date Analyzed: 04/05/12 14:31 |
| Lab Samp ID: C209-01 | Dilution Factor: 0.95 |
| Lab File ID: KD04022A | Matrix : WATER |
| Ext Btch ID: CPC034W | % Moisture : NA |
| Calib. Ref.: KD04014A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 0.95 | 0.48\|0.48 |
| AROCLOR 1221 | (ND)\|ND | 0.95 | 0.48\|0.48 |
| AROCLOR 1232 | (ND)\|ND | 0.95 | 0.48\|0.48 |
| AROCLOR 1242 | (ND)\|ND | 0.95 | 0.48\|0.48 |
| AROCLOR 1248 | (ND)\|ND | 0.95 | 0.48\|0.48 |
| AROCLOR 1254 | (ND)\|ND | 0.95 | 0.48\|0.48 |
| AROCLOR 1260 | (ND)\|ND | 0.95 | 0.48\|0.48 |
| AROCLOR 1262 | (ND)\|ND | 0.95 | 0.48\|0.48 |
| AROCLOR 1268 | (ND)\|ND | 0.95 | 0.48\|0.48 |
| AROCLOR 5432 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 5442 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 5460 | (ND)\|ND | 1.9 | 0.95\|0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (0.3899)\|0.2848 | 0.3800 | (103)\|74.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (0.2973)\|0.2397 | 0.3800 | (78.2)\|63.1 | 30-140 |

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Final result indicated by ( )
* Out side of QC Limit

METHOD 3520C/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C209 | Date Extracted: 03/23/12 16:15 |
| Sample ID: MBLK1W | Date Analyzed: 04/05/12 11:46 |
| Lab Samp ID: CPC034WB | Dilution Factor: 1 |
| Lab File ID: KD04019A | Matrix : WATER |
| Ext Btch ID: CPC034W | % Moisture : NA |
| Calib. Ref.: KD04014A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1221 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1232 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1242 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1248 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1254 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1260 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1262 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1268 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 5432 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5442 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5460 | (ND)\|ND | 2.0 | 1.0\|1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (0.4513)\|0.3272 | 0.4000 | (113)\|81.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (0.4311)\|0.3738 | 0.4000 | (108)\|93.5 | 30-140 |

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Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 3520C/8082

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | CPC034WB | 60C034WX | 60C034WY | | |
| LAB FILE ID: | KD04019A | KD04020A | KD04021A | | |
| DATE EXTRACTED: | 03/23/1216:15 | 03/23/1216:15 | 03/23/1216:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/05/1211:46 | 04/05/1212:41 | 04/05/1213:36 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | CPC034W | CPC034W | CPC034W | | |
| CALIB. REF: | KD04014A | KD04014A | KD04014A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 5.00 | (4.70)\|3.88 | (94)\|78 | 5.00 | (4.66)\|3.89 | (93)\|78 | (1)\|0 | 50-130 | 30 |
| Aroclor 1260 | (ND)\|ND | 5.00 | (5.30)\|4.17 | (106)\|83 | 5.00 | (5.19)\|4.12 | (104)\|82 | (2)\|1 | 60-150 | 30 |
| Aroclor 5460 | (ND)\|ND | 5.00 | (5.10)\|5.06 | (102)\|101 | 5.00 | (5.13)\|5.04 | (103)\|101 | (1)\|0 | 50-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 0.4000 | (0.4271)\|0.3095 | (107)\|77.4 | 0.4000 | (0.4211)\|0.3069 | (105)\|76.7 | 45-120 |
| Tetrachloro-m-xylene | 0.4000 | (0.4037)\|0.3307 | (101)\|82.7 | 0.4000 | (0.4069)\|0.3342 | (102)\|83.5 | 30-140 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/30/12 16:21 |
| Sample ID: SL-062-NBZ-SB-2.5-3.5 | Date Analyzed: 04/05/12 18:12 |
| Lab Samp ID: C209-03 | Dilution Factor: 1 |
| Lab File ID: KD04026A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : 3.4 |
| Calib. Ref.: KD04014A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1248 | (240E)\|190 | 1.8 | 0.88\|0.88 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 5432 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.4 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.367)\|4.886 | 5.521 | (115)\|88.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.970)\|4.358 | 5.521 | (126)\|78.9 | 10-160 |

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Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/30/12 16:21 |
| Sample ID: SL-062-NBZ-SB-2.5-3.5DL | Date Analyzed: 04/05/12 19:07 |
| Lab Samp ID: C209-03T | Dilution Factor: 5 |
| Lab File ID: KD04027A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : 3.4 |
| Calib. Ref.: KD04014A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 8.8 | 4.4\|4.4 |
| AROCLOR 1221 | (ND)\|ND | 8.8 | 4.4\|4.4 |
| AROCLOR 1232 | (ND)\|ND | 8.8 | 4.4\|4.4 |
| AROCLOR 1242 | (ND)\|ND | 8.8 | 4.4\|4.4 |
| AROCLOR 1248 | (220)\|210 | 8.8 | 4.4\|4.4 |
| AROCLOR 1254 | (ND)\|ND | 8.8 | 4.4\|4.4 |
| AROCLOR 1260 | (ND)\|ND | 8.8 | 4.4\|4.4 |
| AROCLOR 1262 | (ND)\|ND | 8.8 | 4.4\|4.4 |
| AROCLOR 1268 | (ND)\|ND | 8.8 | 4.4\|4.4 |
| AROCLOR 5432 | (ND)\|ND | 17 | 8.8\|8.8 |
| AROCLOR 5442 | (ND)\|ND | 17 | 8.8\|8.8 |
| AROCLOR 5460 | (ND)\|ND | 17 | 8.8\|8.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.990)\|5.344 | 5.521 | (108)\|96.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.182)\|4.272 | 5.521 | (93.9)\|77.4 | 10-160 |

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Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/30/12 16:21 |
| Sample ID: SL-063-NBZ-SB-0.5-1.5 | Date Analyzed: 04/05/12 20:57 |
| Lab Samp ID: C209-05 | Dilution Factor: 1 |
| Lab File ID: KD04029A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : 12.2 |
| Calib. Ref.: KD04014A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.660)\|4.847 | 6.074 | (110)\|79.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.550)\|4.330 | 6.074 | (124)\|71.3 | 10-160 |

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Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/30/12 16:21 |
| Sample ID: SL-064-NBZ-SB-0.5-1.5 | Date Analyzed: 04/05/12 21:52 |
| Lab Samp ID: C209-07 | Dilution Factor: 1 |
| Lab File ID: KD04030A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : 4.8 |
| Calib. Ref.: KD04014A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.052)\|4.487 | 5.602 | (108)\|80.1 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.726)\|4.061 | 5.602 | (120)\|72.5 | 10-160 |

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Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/30/12 16:21 |
| Sample ID: SL-065-NBZ-SB-1.0-2.0 | Date Analyzed: 04/06/12 09:37 |
| Lab Samp ID: C209-09W | Dilution Factor: 1 |
| Lab File ID: KD04040A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : 7.7 |
| Calib. Ref.: KD04039A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.089\|(5.173) | 5.778 | 123*\|(89.5) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.637)\|4.831 | 5.778 | (132)\|83.6 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/30/12 16:21 |
| Sample ID: SL-066-NBZ-SB-2.0-3.0 | Date Analyzed: 04/06/12 10:32 |
| Lab Samp ID: C209-11 | Dilution Factor: 1 |
| Lab File ID: KD04041A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : 3.0 |
| Calib. Ref.: KD04039A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 5432 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.4 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.223)\|4.537 | 5.498 | (113)\|82.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.867)\|4.959 | 5.498 | (125)\|90.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/30/12 16:21 |
| Sample ID: SL-105-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 11:27 |
| Lab Samp ID: C209-12 | Dilution Factor: 1 |
| Lab File ID: KD04042A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : 9.8 |
| Calib. Ref.: KD04039A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.351)\|4.637 | 5.912 | (107)\|78.4 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.624)\|4.802 | 5.912 | (112)\|81.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C209 | Date Extracted: 03/30/12 16:21 |
| Sample ID: MBLK1S | Date Analyzed: 04/05/12 15:27 |
| Lab Samp ID: 60C055SB | Dilution Factor: 1 |
| Lab File ID: KD04023A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : NA |
| Calib. Ref.: KD04014A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.185)\|4.524 | 5.333 | (116)\|84.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.175)\|5.031 | 5.333 | (116)\|94.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 3550B/8082

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60C055SB | 60C055SL | 60C055SC | | |
| LAB FILE ID: | KD04023A | KD04024A | KD04025A | | |
| DATE EXTRACTED: | 03/30/1216:21 | 03/30/1216:21 | 03/30/1216:21 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/05/1215:27 | 04/05/1216:22 | 04/05/1217:17 | DATE RECEIVED: | 03/30/12 |
| PREP. BATCH: | CPC055S | CPC055S | CPC055S | | |
| CALIB. REF: | KD04014A | KD04014A | KD04014A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (63.5)\|50.9 | (95)\|76 | 66.7 | (64.6)\|51.0 | (97)\|76 | (2)\|0 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (86.1)\|60.9 | (129)\|91 | 66.7 | (74.7)\|59.2 | (112)\|89 | (14)\|3 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | 73.3\|(73.7) | 110\|(111) | 66.7 | (77.0)\|76.5 | (115)\|115 | (5)\|4 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | 6.555\|(4.723) | 123*\|(88.6) | 5.333 | 6.471\|(4.703) | 121*\|(88.2) | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (6.512)\|5.280 | (122)\|99.0 | 5.333 | (6.601)\|5.227 | (124)\|98.0 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/22/12 17:39 |
| Sample ID: EB-NBZ-SS-032112 | Date Analyzed: 03/26/12 18:36 |
| Lab Samp ID: C209-01 | Dilution Factor: 1 |
| Lab File ID: WC26010A | Matrix : WATER |
| Ext Btch ID: HEC009W | % Moisture : NA |
| Calib. Ref.: WC26003A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4-DB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-T | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DALAPON | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICAMBA | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICHLOROPROP | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DINOSEB | (ND)\|0.31J | 0.80 | 0.20\|0.20 |
| MCPA | 36J\|(ND) | 100 | 20\|20 |
| MCPP | (ND)\|ND | 100 | 20\|20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (10.44)\|9.480 | 10.00 | (104)\|94.8 | 40-140 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/22/12 17:39 |
| Sample ID: MBLK1W | Date Analyzed: 03/26/12 16:35 |
| Lab Samp ID: HEC009WB | Dilution Factor: 1 |
| Lab File ID: WC26004A | Matrix : WATER |
| Ext Btch ID: HEC009W | % Moisture : NA |
| Calib. Ref.: WC26003A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4-DB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-T | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DALAPON | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICAMBA | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICHLOROPROP | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DINOSEB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| MCPA | (ND)\|ND | 100 | 20\|20 |
| MCPP | (ND)\|ND | 100 | 20\|20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (10.00)\|9.208 | 10.00 | (100)\|92.1 | 40-140 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 8151A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HEC009WB | HEC009WL | HEC009WC | | |
| LAB FILE ID: | WC26004A | WC26005A | WC26006A | | |
| DATE EXTRACTED: | 03/22/1217:39 | 03/22/1217:39 | 03/22/1217:39 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/26/1216:35 | 03/26/1216:55 | 03/26/1217:16 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | HEC009W | HEC009W | HEC009W | | |
| CALIB. REF: | WC26003A | WC26003A | WC26003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 1.00 | (1.06)\|0.982 | (106)\|98 | 1.00 | (0.970)\|0.902 | (97)\|90 | (9)\|8 | 40-130 | 30 |
| 2,4-DB | (ND)\|ND | 1.00 | (0.999)\|1.28 | (100)\|128 | 1.00 | (0.966)\|1.15 | (97)\|115 | (3)\|11 | 30-160 | 30 |
| 2,4,5-T | (ND)\|ND | 1.00 | (1.01)\|1.07 | (101)\|107 | 1.00 | (0.927)\|0.936 | (93)\|94 | (9)\|13 | 40-140 | 30 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 1.00 | (1.03)\|0.996 | (103)\|100 | 1.00 | (0.968)\|0.924 | (97)\|92 | (6)\|7 | 60-140 | 30 |
| Dalapon | (ND)\|ND | 1.00 | (0.628J)\|0.728J | (63)\|73 | 1.00 | (0.484J)\|0.544J | (48)\|54 | (26)\|29 | 30-130 | 30 |
| Dicamba | (ND)\|ND | 1.00 | (0.951)\|0.948 | (95)\|95 | 1.00 | (0.856)\|0.842 | (86)\|84 | (11)\|12 | 50-130 | 30 |
| Dichloroprop | (ND)\|ND | 1.00 | (1.03)\|1.05 | (103)\|105 | 1.00 | (0.937)\|0.962 | (94)\|96 | (9)\|9 | 70-150 | 30 |
| Dinoseb | (ND)\|ND | 1.00 | (0.840)\|0.873 | (84)\|87 | 1.00 | (0.722J)\|0.713J | (72)\|71 | (15)\|20 | 20-130 | 30 |
| MCPA | (ND)\|ND | 50.0 | 74.4J\|(54.7J) | 149\|(109) | 50.0 | 76.7J\|(49.2J) | 153*\|(98) | 3\|(11) | 30-150 | 30 |
| MCPP | (ND)\|ND | 50.0 | (58.5J)\|41.9J | (117)\|84 | 50.0 | (46.8J)\|38.6J | (94)\|77 | (22)\|8 | 30-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 10.00 | (11.14)\|10.28 | (111)\|103 | 10.00 | (10.31)\|9.554 | (103)\|95.5 | 40-140 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/24/12 10:54 |
| Sample ID: SL-105-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 03:00 |
| Lab Samp ID: C209-12 | Dilution Factor: 1 |
| Lab File ID: WC26035A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : 9.8 |
| Calib. Ref.: WC26028A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|5.6 | 1.9 | 0.94\|0.94 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.094\|0.094 |
| 2,4,5-TP(SILVEX) | 0.55\|(ND) | 0.19 | 0.094\|0.094 |
| DALAPON | (ND)\|ND | 10 | 5.0\|5.0 |
| DICAMBA | (ND)\|ND | 1.3 | 0.67\|0.67 |
| DICHLOROPROP | (ND)\|26 | 2.7 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.94\|0.94 |
| MCPA | 1900\|(ND) | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (78.33)\|63.77 | 166.3 | (47.1)\|38.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/24/12 |
| Batch No. : 12C209 | Date Extracted: 03/24/12 10:54 |
| Sample ID: MBLK1S | Date Analyzed: 03/26/12 20:56 |
| Lab Samp ID: HEC010SB | Dilution Factor: 1 |
| Lab File ID: WC26017A | Matrix : SOIL |
| Ext Btch ID: HEC010S | % Moisture : NA |
| Calib. Ref.: WC26016A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (94.05)\|83.92 | 150.0 | (62.7)\|55.9 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HEC010SB | HEC010SL | HEC010SC | | |
| LAB FILE ID: | WC26017A | WC26018A | WC26019A | | |
| DATE EXTRACTED: | 03/24/1210:54 | 03/24/1210:54 | 03/24/1210:54 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/26/1220:56 | 03/26/1221:16 | 03/26/1221:36 | DATE RECEIVED: | 03/24/12 |
| PREP. BATCH: | HEC010S | HEC010S | HEC010S | | |
| CALIB. REF: | WC26016A | WC26016A | WC26016A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | (6.24)\|5.21 | (42)\|35 | 15.0 | (6.67)\|6.36 | (44)\|42 | (7)\|20 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 6.56\|(11.2) | 44\|(75) | 15.0 | 7.46\|(13.4) | 50\|(89) | 13\|(18) | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | 9.58\|(10.5) | 64\|(70) | 15.0 | 10.6\|(12.8) | 71\|(85) | 10\|(20) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 15.0 | (16.2)\|13.6 | (108)\|91 | 15.0 | 15.5\|(18.1) | 103\|(121) | 4\|(28) | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | (10.4)\|9.77 | (69)\|65 | 15.0 | (10.7)\|9.82 | (71)\|65 | (3)\|1 | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (10.6)\|10.1 | (71)\|67 | 15.0 | (11.4)\|11.0 | (76)\|73 | (7)\|9 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | (13.0)\|31.4 | (87)\|209* | 15.0 | (13.5)\|33.0 | (90)\|220* | (4)\|5 | 60-160 | 50 |
| Dinoseb | (ND)\|ND | 15.0 | (11.6)\|10.5 | (77)\|70 | 15.0 | (11.9)\|10.6 | (79)\|71 | (3)\|1 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (805)\|377 | (107)\|50 | 750 | (989)\|394 | (132)\|53 | (21)\|4 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | 355\|(526) | 47\|(70) | 750 | 368\|(562) | 49\|(75) | 4\|(7) | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 | (108.8)\|99.46 | (72.5)\|66.3 | 150.0 | (113.9)\|103.9 | (75.9)\|69.2 | 10-150 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/25/12 09:58 |
| Sample ID: EB-NBZ-SS-032112 | Date Analyzed: 03/28/12 15:29 |
| Lab Samp ID: C209-01 | Dilution Factor: 1 |
| Lab File ID: XC28007A | Matrix : WATER |
| Ext Btch ID: EXC020W | % Moisture : NA |
| Calib. Ref.: XC28002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | ND | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 3.26 | 4.000 | 81.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/25/12 |
| Batch No. : 12C209 | Date Extracted: 03/25/12 09:58 |
| Sample ID: MBLK1W | Date Analyzed: 03/28/12 13:13 |
| Lab Samp ID: EXC020WB | Dilution Factor: 1 |
| Lab File ID: XC28003A | Matrix : WATER |
| Ext Btch ID: EXC020W | % Moisture : NA |
| Calib. Ref.: XC28002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | ND | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 3.36 | 4.000 | 84.1 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 8330A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | EXC020WB | EXC020WL | EXC020WC | | |
| LAB FILE ID: | XC28003A | XC28004A | XC28005A | | |
| DATE EXTRACTED: | 03/25/1209:58 | 03/25/1209:58 | 03/25/1209:58 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/28/1213:13 | 03/28/1213:47 | 03/28/1214:21 | DATE RECEIVED: | 03/25/12 |
| PREP. BATCH: | EXC020W | EXC020W | EXC020W | | |
| CALIB. REF: | XC28002A | XC28002A | XC28002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 4.00 | 3.84 | 96 | 4.00 | 3.46 | 86 | 10 | 70-130 | 30 |
| RDX | ND | 4.00 | 3.02 | 75 | 4.00 | 2.89 | 72 | 4 | 60-130 | 30 |
| 1,3,5-Trinitrobenzene | ND | 4.00 | 3.90 | 97 | 4.00 | 3.55 | 89 | 9 | 70-130 | 30 |
| 1,3-Dinitrobenzene | ND | 4.00 | 3.20 | 80 | 4.00 | 2.97 | 74 | 8 | 70-130 | 30 |
| Tetryl | ND | 4.00 | 3.38 | 85 | 4.00 | 3.16 | 79 | 7 | 70-130 | 30 |
| Nitrobenzene | ND | 4.00 | 3.43 | 86 | 4.00 | 3.13 | 78 | 9 | 70-130 | 30 |
| 2,4,6-Trinitrotoluene | ND | 4.00 | 3.90 | 98 | 4.00 | 3.58 | 89 | 9 | 70-130 | 30 |
| 4-Amino-2,6-Dinitrotoluene | ND | 4.00 | 3.73 | 93 | 4.00 | 3.12 | 78 | 18 | 70-130 | 30 |
| 2-Amino-4,6-Dinitrotoluene | ND | 4.00 | 3.58 | 90 | 4.00 | 3.12 | 78 | 14 | 70-130 | 30 |
| 2,6-Dinitrotoluene | ND | 4.00 | 3.91 | 98 | 4.00 | 3.46 | 87 | 12 | 70-130 | 30 |
| 2,4-Dinitrotoluene | ND | 4.00 | 3.86 | 96 | 4.00 | 3.57 | 89 | 8 | 70-130 | 30 |
| 2-Nitrotoluene | ND | 4.00 | 3.98 | 99 | 4.00 | 3.17 | 79 | 22 | 70-130 | 30 |
| 3-Nitrotoluene | ND | 4.00 | 3.28 | 82 | 4.00 | 3.33 | 83 | 1 | 70-130 | 30 |
| 4-Nitrotoluene | ND | 4.00 | 3.41 | 85 | 4.00 | 3.39 | 85 | 1 | 70-130 | 30 |
| 2,4-Diamino-6-nitrotoluene | ND | 4.00 | 1.21J | 30 | 4.00 | 1.19J | 30 | 2 | 20-130 | 30 |
| 2,6-Diamino-4-nitrotoluene | ND | 4.00 | 1.22J | 31 | 4.00 | 1.19J | 30 | 3 | 20-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 4.00 | 3.41 | 85 | 4.00 | 3.16 | 79 | 65-135 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/27/12 19:18 |
| Sample ID: SL-062-NBZ-SB-2.5-3.5 | Date Analyzed: 03/29/12 03:24 |
| Lab Samp ID: C209-03 | Dilution Factor: 1 |
| Lab File ID: XC28028A | Matrix : SOIL |
| Ext Btch ID: EXC023S | % Moisture : NA |
| Calib. Ref.: XC28025A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1770 | 2000 | 88.3 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/27/12 19:18 |
| Sample ID: SL-063-NBZ-SB-0.5-1.5 | Date Analyzed: 03/29/12 03:58 |
| Lab Samp ID: C209-05 | Dilution Factor: 1 |
| Lab File ID: XC28029A | Matrix : SOIL |
| Ext Btch ID: EXC023S | % Moisture : NA |
| Calib. Ref.: XC28025A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1790 | 2000 | 89.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/27/12 19:18 |
| Sample ID: SL-064-NBZ-SB-0.5-1.5 | Date Analyzed: 03/29/12 04:32 |
| Lab Samp ID: C209-07 | Dilution Factor: .99 |
| Lab File ID: XC28030A | Matrix : SOIL |
| Ext Btch ID: EXC023S | % Moisture : NA |
| Calib. Ref.: XC28025A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1830 | 1980 | 92.4 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/27/12 19:18 |
| Sample ID: SL-065-NBZ-SB-1.0-2.0 | Date Analyzed: 03/29/12 05:06 |
| Lab Samp ID: C209-09 | Dilution Factor: 1 |
| Lab File ID: XC28031A | Matrix : SOIL |
| Ext Btch ID: EXC023S | % Moisture : NA |
| Calib. Ref.: XC28025A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1830 | 2000 | 91.4 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/27/12 19:18 |
| Sample ID: SL-066-NBZ-SB-2.0-3.0 | Date Analyzed: 03/29/12 05:40 |
| Lab Samp ID: C209-11 | Dilution Factor: .99 |
| Lab File ID: XC28032A | Matrix : SOIL |
| Ext Btch ID: EXC023S | % Moisture : NA |
| Calib. Ref.: XC28025A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1830 | 1980 | 92.3 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C209 | Date Extracted: 03/27/12 19:18 |
| Sample ID: MBLK1S | Date Analyzed: 03/28/12 16:37 |
| Lab Samp ID: EXC023SB | Dilution Factor: 1 |
| Lab File ID: XC28009A | Matrix : SOIL |
| Ext Btch ID: EXC023S | % Moisture : NA |
| Calib. Ref.: XC28002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1900 | 2000 | 94.8 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 8330A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXC023SB | EXC023SL | EXC023SC | | |
| LAB FILE ID: | XC28009A | XC28010A | XC28011A | | |
| DATE EXTRACTED: | 03/27/1219:18 | 03/27/1219:18 | 03/27/1219:18 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/28/1216:37 | 03/28/1217:11 | 03/28/1217:46 | DATE RECEIVED: | 03/27/12 |
| PREP. BATCH: | EXC023S | EXC023S | EXC023S | | |
| CALIB. REF: | XC28002A | XC28002A | XC28002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 2400 | 120 | 2000 | 2110 | 105 | 13 | 70-130 | 50 |
| RDX | ND | 2000 | 2120 | 106 | 2000 | 2130 | 106 | 0 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2380 | 119 | 2000 | 2370 | 118 | 0 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2130 | 107 | 2000 | 2170 | 108 | 2 | 70-130 | 50 |
| Tetryl | ND | 2000 | 2480 | 124 | 2000 | 2460 | 123 | 1 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 1900 | 95 | 2000 | 1940 | 97 | 2 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 2120 | 106 | 2000 | 2160 | 108 | 2 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 2140 | 107 | 2000 | 2180 | 109 | 2 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 2120 | 106 | 2000 | 2130 | 107 | 0 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2340 | 117 | 2000 | 2240 | 112 | 4 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2300 | 115 | 2000 | 2290 | 114 | 0 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 2170 | 108 | 2000 | 2270 | 114 | 5 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1940 | 97 | 2000 | 2050 | 102 | 5 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 2240 | 112 | 2000 | 2270 | 113 | 1 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1720 | 86 | 2000 | 1790 | 89 | 4 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2000 | 100 | 2000 | 2160 | 108 | 8 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1910 | 95 | 2000 | 1860 | 93 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/21/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C209 | Date Extracted | : 03/25/12 09:33 |
| Sample ID | : EB-NBZ-SS-032112 | Date Analyzed | : 03/26/12 17:35 |
| Lab Samp ID | : C209-01 | Dilution Factor | : 1 |
| Lab File ID | : PC26034A | Matrix | : WATER |
| Ext Btch ID | : EXC019W | % Moisture | : NA |
| Calib. Ref. | : PC26024A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 597 | 500.0 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/25/12 |
| Batch No. | : 12C209 | Date Extracted | : 03/25/12 09:33 |
| Sample ID | : MBLK1W | Date Analyzed | : 03/26/12 16:32 |
| Lab Samp ID | : EXC019WB | Dilution Factor | : 1 |
| Lab File ID | : PC26030A | Matrix | : WATER |
| Ext Btch ID | : EXC019W | % Moisture | : NA |
| Calib. Ref. | : PC26024A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 589 | 500.0 | 118 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | EXC019WB | EXC019WL | EXC019WC | | |
| LAB FILE ID: | PC26030A | PC26031A | PC26032A | | |
| DATE EXTRACTED: | 03/25/1209:33 | 03/25/1209:33 | 03/25/1209:33 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/26/1216:32 | 03/26/1216:46 | 03/26/1217:00 | DATE RECEIVED: | 03/25/12 |
| PREP. BATCH: | EXC019W | EXC019W | EXC019W | | |
| CALIB. REF: | PC26024A | PC26024A | PC26024A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 1870 | 1900 | 101 | 1870 | 1930 | 103 | 2 | 50-150 | 30 |
| PETN | ND | 1870 | 1900 | 102 | 1870 | 1920 | 103 | 1 | 50-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 500 | 599 | 120 | 500 | 602 | 120 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/21/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C209 | Date Extracted | : 03/27/12 19:18 |
| Sample ID | : SL-062-NBZ-SB-2.5-3.5 | Date Analyzed | : 03/28/12 19:27 |
| Lab Samp ID | : C209-03 | Dilution Factor | : 1 |
| Lab File ID | : PC28021A | Matrix | : SOIL |
| Ext Btch ID | : EXC023S | % Moisture | : NA |
| Calib. Ref. | : PC28013A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2400 | 2000 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/21/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C209 | Date Extracted | : 03/27/12 19:18 |
| Sample ID | : SL-063-NBZ-SB-0.5-1.5 | Date Analyzed | : 03/28/12 19:41 |
| Lab Samp ID | : C209-05 | Dilution Factor | : 1 |
| Lab File ID | : PC28022A | Matrix | : SOIL |
| Ext Btch ID | : EXC023S | % Moisture | : NA |
| Calib. Ref. | : PC28013A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2420 | 2000 | 121 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/21/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C209 | Date Extracted | : 03/27/12 19:18 |
| Sample ID | : SL-064-NBZ-SB-0.5-1.5 | Date Analyzed | : 03/28/12 19:55 |
| Lab Samp ID | : C209-07 | Dilution Factor | : .99 |
| Lab File ID | : PC28023A | Matrix | : SOIL |
| Ext Btch ID | : EXC023S | % Moisture | : NA |
| Calib. Ref. | : PC28013A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2350 | 1980 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C209 | Date Extracted: 03/27/12 19:18 |
| Sample ID: SL-065-NBZ-SB-1.0-2.0 | Date Analyzed: 03/28/12 20:23 |
| Lab Samp ID: C209-09 | Dilution Factor: 1 |
| Lab File ID: PC28025A | Matrix : SOIL |
| Ext Btch ID: EXC023S | % Moisture : NA |
| Calib. Ref.: PC28024A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2460 | 2000 | 123 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/21/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C209 | Date Extracted | : 03/27/12 19:18 |
| Sample ID | : SL-066-NBZ-SB-2.0-3.0 | Date Analyzed | : 03/28/12 20:43 |
| Lab Samp ID | : C209-11 | Dilution Factor | : .99 |
| Lab File ID | : PC28026A | Matrix | : SOIL |
| Ext Btch ID | : EXC023S | % Moisture | : NA |
| Calib. Ref. | : PC28024A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2380 | 1980 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/27/12 |
| Batch No. | : 12C209 | Date Extracted | : 03/27/12 19:18 |
| Sample ID | : MBLK1S | Date Analyzed | : 03/28/12 15:20 |
| Lab Samp ID | : EXC023SB | Dilution Factor | : 1 |
| Lab File ID | : PC28003A | Matrix | : SOIL |
| Ext Btch ID | : EXC023S | % Moisture | : NA |
| Calib. Ref. | : PC28002A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2340 | 2000 | 117 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXC023SB | EXC023SX | EXC023SY | | |
| LAB FILE ID: | PC28003A | PC28004A | PC28005A | | |
| DATE EXTRACTED: | 03/27/1219:18 | 03/27/1219:18 | 03/27/1219:18 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/28/1215:20 | 03/28/1215:34 | 03/28/1215:48 | DATE RECEIVED: | 03/27/12 |
| PREP. BATCH: | EXC023S | EXC023S | EXC023S | | |
| CALIB. REF: | PC28002A | PC28002A | PC28002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7440 | 99 | 7500 | 7670 | 102 | 3 | 50-150 | 50 |
| PETN | ND | 7500 | 7850 | 105 | 7500 | 7860 | 105 | 0 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2360 | 118 | 2000 | 2370 | 118 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/21/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| SDG NO. | : 12C209 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-062-NBZ-SB-2.5-3.5 | Date Analyzed | : 03/28/12 13:05 |
| Lab Samp ID | : C209-03 | Dilution Factor | : 0.980 |
| Lab File ID | : 98C14036 | Matrix | : SOIL |
| Ext Btch ID | : IMC033S | % Moisture | : 3.4 |
| Calib. Ref. | : 98C14026 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10100 | 24.3 | 12.2 |
| Antimony | 0.295 | 0.203 | 0.101 |
| Arsenic | 4.01 | 0.406 | 0.203 |
| Barium | 93.0 | 0.406 | 0.203 |
| Beryllium | 0.471 | 0.101 | 0.0507 |
| Boron | ND | 5.07 | 2.54 |
| Cadmium | 0.282 | 0.101 | 0.0507 |
| Calcium | 2990 | 20.3 | 10.1 |
| Chromium | 18.2 | 0.406 | 0.203 |
| Cobalt | 5.29 | 0.101 | 0.0507 |
| Copper | 7.73 | 0.406 | 0.203 |
| Iron | 18900 | 20.3 | 10.1 |
| Lead | 15.6 | 0.203 | 0.101 |
| Magnesium | 4870 | 10.1 | 5.07 |
| Manganese | 284 | 0.507 | 0.254 |
| Molybdenum | 0.458 | 0.101 | 0.0507 |
| Nickel | 11.0 | 0.406 | 0.203 |
| Potassium | 3410 | 60.9 | 30.4 |
| Selenium | ND | 0.406 | 0.203 |
| Silver | 0.0608J | 0.101 | 0.0507 |
| Sodium | 56.6J | 101 | 50.7 |
| Strontium | 15.0 | 0.507 | 0.254 |
| Thallium | 0.232 | 0.101 | 0.0507 |
| Tin | ND | 10.1 | 5.07 |
| Titanium | 852 | 1.01 | 0.507 |
| Vanadium | 33.7 | 0.101 | 0.0507 |
| Zinc | 52.7 | 3.04 | 1.52 |
| Lithium | 22.8 | 2.03 | 1.01 |
| Phosphorus | 394 | 12.2 | 6.09 |
| Zirconium | ND | 5.07 | 2.54 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/21/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| SDG NO. | : 12C209 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-063-NBZ-SB-0.5-1.5 | Date Analyzed | : 03/28/12 13:23 |
| Lab Samp ID | : C209-05 | Dilution Factor | : 0.980 |
| Lab File ID | : 98C14040 | Matrix | : SOIL |
| Ext Btch ID | : IMC033S | % Moisture | : 12.2 |
| Calib. Ref. | : 98C14038 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10000 | 26.8 | 13.4 |
| Antimony | 0.212J | 0.223 | 0.112 |
| Arsenic | 3.25 | 0.446 | 0.223 |
| Barium | 73.3 | 0.446 | 0.223 |
| Beryllium | 0.406 | 0.112 | 0.0558 |
| Boron | ND | 5.58 | 2.79 |
| Cadmium | 0.274 | 0.112 | 0.0558 |
| Calcium | 2280 | 22.3 | 11.2 |
| Chromium | 15.7 | 0.446 | 0.223 |
| Cobalt | 5.30 | 0.112 | 0.0558 |
| Copper | 6.70 | 0.446 | 0.223 |
| Iron | 19000 | 22.3 | 11.2 |
| Lead | 8.51 | 0.223 | 0.112 |
| Magnesium | 4950 | 11.2 | 5.58 |
| Manganese | 266 | 0.558 | 0.279 |
| Molybdenum | 0.465 | 0.112 | 0.0558 |
| Nickel | 8.88 | 0.446 | 0.223 |
| Potassium | 3260 | 67.0 | 33.5 |
| Selenium | ND | 0.446 | 0.223 |
| Silver | ND | 0.112 | 0.0558 |
| Sodium | 57.0J | 112 | 55.8 |
| Strontium | 11.6 | 0.558 | 0.279 |
| Thallium | 0.212 | 0.112 | 0.0558 |
| Tin | ND | 11.2 | 5.58 |
| Titanium | 897 | 1.12 | 0.558 |
| Vanadium | 34.7 | 0.112 | 0.0558 |
| Zinc | 48.7 | 3.35 | 1.67 |
| Lithium | 24.2 | 2.23 | 1.12 |
| Phosphorus | 351 | 13.4 | 6.70 |
| Zirconium | ND | 5.58 | 2.79 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/21/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| SDG NO. | : 12C209 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-064-NBZ-SB-0.5-1.5 | Date Analyzed | : 03/28/12 13:28 |
| Lab Samp ID | : C209-07 | Dilution Factor | : 0.971 |
| Lab File ID | : 98C14041 | Matrix | : SOIL |
| Ext Btch ID | : IMC033S | % Moisture | : 4.8 |
| Calib. Ref. | : 98C14038 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10100 | 24.5 | 12.2 |
| Antimony | 0.198J | 0.204 | 0.102 |
| Arsenic | 3.46 | 0.408 | 0.204 |
| Barium | 107 | 0.408 | 0.204 |
| Beryllium | 0.515 | 0.102 | 0.0510 |
| Boron | ND | 5.10 | 2.55 |
| Cadmium | 0.180 | 0.102 | 0.0510 |
| Calcium | 1950 | 20.4 | 10.2 |
| Chromium | 15.9 | 0.408 | 0.204 |
| Cobalt | 5.75 | 0.102 | 0.0510 |
| Copper | 5.69 | 0.408 | 0.204 |
| Iron | 19200 | 20.4 | 10.2 |
| Lead | 3.79 | 0.204 | 0.102 |
| Magnesium | 4840 | 10.2 | 5.10 |
| Manganese | 748 | 0.510 | 0.255 |
| Molybdenum | 0.363 | 0.102 | 0.0510 |
| Nickel | 10.9 | 0.408 | 0.204 |
| Potassium | 3220 | 61.2 | 30.6 |
| Selenium | ND | 0.408 | 0.204 |
| Silver | ND | 0.102 | 0.0510 |
| Sodium | 59.8J | 102 | 51.0 |
| Strontium | 10.7 | 0.510 | 0.255 |
| Thallium | 0.232 | 0.102 | 0.0510 |
| Tin | ND | 10.2 | 5.10 |
| Titanium | 1030 | 1.02 | 0.510 |
| Vanadium | 35.8 | 0.102 | 0.0510 |
| Zinc | 48.3 | 3.06 | 1.53 |
| Lithium | 26.6 | 2.04 | 1.02 |
| Phosphorus | 380 | 12.2 | 6.12 |
| Zirconium | ND | 5.10 | 2.55 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/21/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| SDG NO. | : 12C209 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-065-NBZ-SB-1.0-2.0 | Date Analyzed | : 03/28/12 13:32 |
| Lab Samp ID | : C209-09 | Dilution Factor | : 0.995 |
| Lab File ID | : 98C14042 | Matrix | : SOIL |
| Ext Btch ID | : IMC033S | % Moisture | : 7.7 |
| Calib. Ref. | : 98C14038 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10100 | 25.9 | 12.9 |
| Antimony | 0.201J | 0.216 | 0.108 |
| Arsenic | 2.91 | 0.431 | 0.216 |
| Barium | 69.7 | 0.431 | 0.216 |
| Beryllium | 0.445 | 0.108 | 0.0539 |
| Boron | ND | 5.39 | 2.70 |
| Cadmium | 0.147 | 0.108 | 0.0539 |
| Calcium | 1980 | 21.6 | 10.8 |
| Chromium | 17.4 | 0.431 | 0.216 |
| Cobalt | 5.29 | 0.108 | 0.0539 |
| Copper | 7.12 | 0.431 | 0.216 |
| Iron | 18700 | 21.6 | 10.8 |
| Lead | 5.47 | 0.216 | 0.108 |
| Magnesium | 4870 | 10.8 | 5.39 |
| Manganese | 309 | 0.539 | 0.270 |
| Molybdenum | 0.455 | 0.108 | 0.0539 |
| Nickel | 10.5 | 0.431 | 0.216 |
| Potassium | 2990 | 64.7 | 32.3 |
| Selenium | 0.262J | 0.431 | 0.216 |
| Silver | ND | 0.108 | 0.0539 |
| Sodium | 59.6J | 108 | 53.9 |
| Strontium | 10.1 | 0.539 | 0.270 |
| Thallium | 0.227 | 0.108 | 0.0539 |
| Tin | ND | 10.8 | 5.39 |
| Titanium | 901 | 1.08 | 0.539 |
| Vanadium | 35.7 | 0.108 | 0.0539 |
| Zinc | 46.6 | 3.23 | 1.62 |
| Lithium | 22.6 | 2.16 | 1.08 |
| Phosphorus | 326 | 12.9 | 6.47 |
| Zirconium | ND | 5.39 | 2.70 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/21/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| SDG NO. : 12C209 | Date Extracted: 03/27/12 11:30 |
| Sample ID: SL-066-NBZ-SB-2.0-3.0 | Date Analyzed: 03/28/12 13:37 |
| Lab Samp ID: C209-11 | Dilution Factor: 0.962 |
| Lab File ID: 98C14043 | Matrix : SOIL |
| Ext Btch ID: IMC033S | % Moisture : 3.0 |
| Calib. Ref.: 98C14038 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 8830 | 23.8 | 11.9 |
| Antimony | ND | 0.198 | 0.0992 |
| Arsenic | 3.22 | 0.397 | 0.198 |
| Barium | 45.1 | 0.397 | 0.198 |
| Beryllium | 0.383 | 0.0992 | 0.0496 |
| Boron | ND | 4.96 | 2.48 |
| Cadmium | ND | 0.0992 | 0.0496 |
| Calcium | 954 | 19.8 | 9.92 |
| Chromium | 7.19 | 0.397 | 0.198 |
| Cobalt | 2.73 | 0.0992 | 0.0496 |
| Copper | 2.34 | 0.397 | 0.198 |
| Iron | 14200 | 19.8 | 9.92 |
| Lead | 3.03 | 0.198 | 0.0992 |
| Magnesium | 2480 | 9.92 | 4.96 |
| Manganese | 172 | 0.496 | 0.248 |
| Molybdenum | 0.285 | 0.0992 | 0.0496 |
| Nickel | 3.76 | 0.397 | 0.198 |
| Potassium | 2560 | 59.5 | 29.8 |
| Selenium | ND | 0.397 | 0.198 |
| Silver | ND | 0.0992 | 0.0496 |
| Sodium | 67.3J | 99.2 | 49.6 |
| Strontium | 8.02 | 0.496 | 0.248 |
| Thallium | 0.211 | 0.0992 | 0.0496 |
| Tin | ND | 9.92 | 4.96 |
| Titanium | 881 | 0.992 | 0.496 |
| Vanadium | 15.8 | 0.0992 | 0.0496 |
| Zinc | 40.2 | 2.98 | 1.49 |
| Lithium | 17.2 | 1.98 | 0.992 |
| Phosphorus | 147 | 11.9 | 5.95 |
| Zirconium | ND | 4.96 | 2.48 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/21/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| SDG NO. | : 12C209 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-105-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/28/12 12:56 |
| Lab Samp ID | : C209-12 | Dilution Factor | : 0.957 |
| Lab File ID | : 98C14034 | Matrix | : SOIL |
| Ext Btch ID | : IMC033S | % Moisture | : 9.8 |
| Calib. Ref. | : 98C14026 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10900 | 25.5 | 12.7 |
| Antimony | 0.189J | 0.212 | 0.106 |
| Arsenic | 3.00 | 0.424 | 0.212 |
| Barium | 82.9 | 0.424 | 0.212 |
| Beryllium | 0.456 | 0.106 | 0.0530 |
| Boron | ND | 5.30 | 2.65 |
| Cadmium | 0.178 | 0.106 | 0.0530 |
| Calcium | 2860 | 21.2 | 10.6 |
| Chromium | 16.7 | 0.424 | 0.212 |
| Cobalt | 5.62 | 0.106 | 0.0530 |
| Copper | 6.89 | 0.424 | 0.212 |
| Iron | 20000 | 21.2 | 10.6 |
| Lead | 6.25 | 0.212 | 0.106 |
| Magnesium | 5360 | 10.6 | 5.30 |
| Manganese | 292 | 0.530 | 0.265 |
| Molybdenum | 0.461 | 0.106 | 0.0530 |
| Nickel | 9.82 | 0.424 | 0.212 |
| Potassium | 3520 | 63.7 | 31.8 |
| Selenium | ND | 0.424 | 0.212 |
| Silver | ND | 0.106 | 0.0530 |
| Sodium | 65.2J | 106 | 53.0 |
| Strontium | 14.6 | 0.530 | 0.265 |
| Thallium | 0.231 | 0.106 | 0.0530 |
| Tin | ND | 10.6 | 5.30 |
| Titanium | 956 | 1.06 | 0.530 |
| Vanadium | 35.5 | 0.106 | 0.0530 |
| Zinc | 49.6 | 3.18 | 1.59 |
| Lithium | 23.9 | 2.12 | 1.06 |
| Phosphorus | 391 | 12.7 | 6.37 |
| Zirconium | ND | 5.30 | 2.65 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| SDG NO. : 12C209 | Date Extracted: 03/27/12 11:30 |
| Sample ID: MBLK1S | Date Analyzed: 03/28/12 12:29 |
| Lab Samp ID: IMC033SB | Dilution Factor: 1 |
| Lab File ID: 98C14028 | Matrix : SOIL |
| Ext Btch ID: IMC033S | % Moisture : NA |
| Calib. Ref.: 98C14026 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C209
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: NA
DILTN FACTR: 1 1 1
SAMPLE ID: MBLK1S
CONTROL NO.: IMC033SB IMC033SL IMC033SC
LAB FILE ID: 98C14028 98C14029 98C14030
DATIME EXTRCTD: 03/27/1211:30 03/27/1211:30 03/27/1211:30 DATE COLLECTED: NA
DATIME ANALYZD: 03/28/1212:29 03/28/1212:33 03/28/1212:38 DATE RECEIVED: 03/27/12
PREP. BATCH: IMC033S IMC033S IMC033S
CALIB. REF: 98C14026 98C14026 98C14026

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2530 | 101 | 2500 | 2500 | 100 | 1 | 80-120 | 20 |
| Antimony | ND | 25.0 | 26.1 | 104 | 25.0 | 25.7 | 103 | 1 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 25.2 | 101 | 25.0 | 25.1 | 100 | 0 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.7 | 103 | 25.0 | 25.4 | 102 | 1 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 26.0 | 104 | 25.0 | 25.4 | 101 | 2 | 80-120 | 20 |
| Boron | ND | 25.0 | 26.5 | 106 | 25.0 | 25.8 | 103 | 2 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 25.4 | 102 | 25.0 | 24.9 | 100 | 2 | 80-120 | 20 |
| Calcium | ND | 2500 | 2700 | 108 | 2500 | 2670 | 107 | 1 | 80-120 | 20 |
| Chromium | ND | 25.0 | 25.2 | 101 | 25.0 | 24.6 | 99 | 2 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 25.9 | 104 | 25.0 | 26.0 | 104 | 1 | 80-120 | 20 |
| Copper | ND | 25.0 | 24.6 | 98 | 25.0 | 24.2 | 97 | 1 | 80-120 | 20 |
| Iron | ND | 2500 | 2690 | 108 | 2500 | 2670 | 107 | 1 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.5 | 102 | 25.0 | 24.8 | 99 | 3 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2500 | 100 | 2500 | 2490 | 100 | 1 | 80-120 | 20 |
| Manganese | ND | 25.0 | 26.3 | 105 | 25.0 | 26.3 | 105 | 0 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 25.1 | 100 | 25.0 | 25.0 | 100 | 0 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.6 | 98 | 25.0 | 24.2 | 97 | 2 | 80-120 | 20 |
| Potassium | ND | 2500 | 2670 | 107 | 2500 | 2620 | 105 | 2 | 80-120 | 20 |
| Selenium | ND | 25.0 | 25.9 | 103 | 25.0 | 25.6 | 102 | 1 | 80-120 | 20 |
| Silver | ND | 25.0 | 25.2 | 101 | 25.0 | 25.0 | 100 | 1 | 80-120 | 20 |
| Sodium | ND | 2500 | 2530 | 101 | 2500 | 2470 | 99 | 2 | 80-120 | 20 |
| Strontium | ND | 25.0 | 26.4 | 106 | 25.0 | 26.3 | 105 | 1 | 80-120 | 20 |
| Thallium | ND | 25.0 | 25.8 | 103 | 25.0 | 25.4 | 102 | 1 | 80-120 | 20 |
| Tin | ND | 25.0 | 27.8 | 111 | 25.0 | 27.6 | 110 | 1 | 80-120 | 20 |
| Titanium | ND | 25.0 | 25.9 | 104 | 25.0 | 25.7 | 103 | 1 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 25.2 | 101 | 25.0 | 24.8 | 99 | 2 | 80-120 | 20 |
| Zinc | ND | 50.0 | 48.6 | 97 | 50.0 | 48.3 | 97 | 1 | 80-120 | 20 |
| Lithium | ND | 25.0 | 26.4 | 105 | 25.0 | 25.2 | 101 | 4 | 80-120 | 20 |
| Phosphorus | ND | 250 | 242 | 97 | 250 | 238 | 95 | 2 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 26.2 | 105 | 25.0 | 25.9 | 104 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C209
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 9.8

| | | | | | |
|---|---|---|---|---|---|
| DILTN FACTR: | 0.957 | 0.966 | 0.971 | | |
| SAMPLE ID: | SL-105-NBZ-SS-0.0-0.5 | | | | |
| CONTROL NO.: | C209-12 | C209-12M | C209-12S | | |
| LAB FILE ID: | 98C14034 | 98C14031 | 98C14032 | | |
| DATIME EXTRCTD: | 03/27/1211:30 | 03/27/1211:30 | 03/27/1211:30 | DATE COLLECTED: | 03/21/12 |
| DATIME ANALYZD: | 03/28/1212:56 | 03/28/1212:42 | 03/28/1212:47 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | IMC033S | IMC033S | IMC033S | | |
| CALIB. REF: | 98C14026 | 98C14026 | 98C14026 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 10900 | 2680 | 12700 | 67* | 2690 | 13000 | 79 | 2 | 75-125 | 20 |
| Antimony | 0.189J | 26.8 | 21.2 | 79 | 26.9 | 22.3 | 82 | 5 | 75-125 | 20 |
| Arsenic | 3.00 | 26.8 | 26.9 | 89 | 26.9 | 27.5 | 91 | 2 | 75-125 | 20 |
| Barium | 82.9 | 26.8 | 109 | 99 | 26.9 | 113 | 112 | 3 | 75-125 | 20 |
| Beryllium | 0.456 | 26.8 | 26.6 | 98 | 26.9 | 26.9 | 98 | 1 | 75-125 | 20 |
| Boron | ND | 26.8 | 26.9 | 101 | 26.9 | 27.1 | 101 | 1 | 75-125 | 20 |
| Cadmium | 0.178 | 26.8 | 25.2 | 93 | 26.9 | 25.8 | 95 | 2 | 75-125 | 20 |
| Calcium | 2860 | 2680 | 5360 | 93 | 2690 | 5390 | 94 | 1 | 75-125 | 20 |
| Chromium | 16.7 | 26.8 | 39.6 | 85 | 26.9 | 41.1 | 91 | 4 | 75-125 | 20 |
| Cobalt | 5.62 | 26.8 | 29.3 | 88 | 26.9 | 29.7 | 90 | 1 | 75-125 | 20 |
| Copper | 6.89 | 26.8 | 28.8 | 82 | 26.9 | 29.6 | 84 | 3 | 75-125 | 20 |
| Iron | 20000 | 2680 | 21500 | 56* | 2690 | 22400 | 89 | 4 | 75-125 | 20 |
| Lead | 6.25 | 26.8 | 31.3 | 94 | 26.9 | 32.1 | 96 | 2 | 75-125 | 20 |
| Magnesium | 5360 | 2680 | 7510 | 80 | 2690 | 7720 | 88 | 3 | 75-125 | 20 |
| Manganese | 292 | 26.8 | 305 | 51* | 26.9 | 313 | 79 | 2 | 75-125 | 20 |
| Molybdenum | 0.461 | 26.8 | 25.6 | 94 | 26.9 | 25.9 | 95 | 1 | 75-125 | 20 |
| Nickel | 9.82 | 26.8 | 31.9 | 82 | 26.9 | 32.4 | 84 | 2 | 75-125 | 20 |
| Potassium | 3520 | 2680 | 5850 | 87 | 2690 | 5930 | 90 | 1 | 75-125 | 20 |
| Selenium | ND | 26.8 | 25.4 | 95 | 26.9 | 26.2 | 97 | 3 | 75-125 | 20 |
| Silver | ND | 26.8 | 24.9 | 93 | 26.9 | 25.4 | 94 | 2 | 75-125 | 20 |
| Sodium | 65.2J | 2680 | 2390 | 87 | 2690 | 2450 | 89 | 2 | 75-125 | 20 |
| Strontium | 14.6 | 26.8 | 40.8 | 98 | 26.9 | 41.3 | 99 | 1 | 75-125 | 20 |
| Thallium | 0.231 | 26.8 | 25.6 | 95 | 26.9 | 26.4 | 97 | 3 | 75-125 | 20 |
| Tin | ND | 26.8 | 28.3 | 106 | 26.9 | 29.1 | 108 | 3 | 75-125 | 20 |
| Titanium | 956 | 26.8 | 959 | 10* | 26.9 | 976 | 74* | 2 | 75-125 | 20 |
| Vanadium | 35.5 | 26.8 | 58.2 | 85 | 26.9 | 59.7 | 90 | 3 | 75-125 | 20 |
| Zinc | 49.6 | 53.5 | 94.8 | 84 | 53.8 | 96.6 | 87 | 2 | 75-125 | 20 |
| Lithium | 23.9 | 26.8 | 49.6 | 96 | 26.9 | 50.0 | 97 | 1 | 75-125 | 20 |
| Phosphorus | 391 | 268 | 606 | 80 | 269 | 612 | 82 | 1 | 75-125 | 20 |
| Zirconium | ND | 26.8 | 9.30 | 35* | 26.9 | 9.11 | 34* | 2 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C209
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 9.8
DILTN FACTR: 0.957 0.957
SAMPLE ID: SL-105-NBZ-SS-0.0-0.5
CONTROL NO.: C209-12 C209-12A
LAB FILE ID: 98C14034 98C14033
DATIME EXTRCTD: 03/27/1211:30 03/27/1211:30 DATE COLLECTED: 03/21/12
DATIME ANALYZD: 03/28/1212:56 03/28/1212:51 DATE RECEIVED: 03/22/12
PREP. BATCH: IMC033S IMC033S
CALIB. REF: 98C14026 98C14026

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 10900 | 2650 | 13400 | 94 | 75-125 |
| Antimony | 0.189J | 26.5 | 27.1 | 102 | 75-125 |
| Arsenic | 3.00 | 26.5 | 28.0 | 94 | 75-125 |
| Barium | 82.9 | 26.5 | 116 | 127* | 75-125 |
| Beryllium | 0.456 | 26.5 | 27.4 | 101 | 75-125 |
| Boron | ND | 26.5 | 28.8 | 109 | 75-125 |
| Cadmium | 0.178 | 26.5 | 25.9 | 97 | 75-125 |
| Calcium | 2860 | 2650 | 5450 | 98 | 75-125 |
| Chromium | 16.7 | 26.5 | 40.5 | 90 | 75-125 |
| Cobalt | 5.62 | 26.5 | 30.0 | 92 | 75-125 |
| Copper | 6.89 | 26.5 | 29.9 | 87 | 75-125 |
| Iron | 20000 | 2650 | 22800 | 106 | 75-125 |
| Lead | 6.25 | 26.5 | 32.1 | 97 | 75-125 |
| Magnesium | 5360 | 2650 | 7840 | 93 | 75-125 |
| Manganese | 292 | 26.5 | 320 | 107 | 75-125 |
| Molybdenum | 0.461 | 26.5 | 26.4 | 98 | 75-125 |
| Nickel | 9.82 | 26.5 | 32.6 | 86 | 75-125 |
| Potassium | 3520 | 2650 | 6060 | 96 | 75-125 |
| Selenium | ND | 26.5 | 26.4 | 100 | 75-125 |
| Silver | ND | 26.5 | 25.5 | 96 | 75-125 |
| Sodium | 65.2J | 2650 | 2410 | 88 | 75-125 |
| Strontium | 14.6 | 26.5 | 41.9 | 103 | 75-125 |
| Thallium | 0.231 | 26.5 | 26.2 | 98 | 75-125 |
| Tin | ND | 26.5 | 29.3 | 111 | 75-125 |
| Titanium | 956 | 26.5 | 997 | 156* | 75-125 |
| Vanadium | 35.5 | 26.5 | 60.1 | 93 | 75-125 |
| Zinc | 49.6 | 53.0 | 98.0 | 91 | 75-125 |
| Lithium | 23.9 | 26.5 | 51.6 | 105 | 75-125 |
| Phosphorus | 391 | 265 | 639 | 94 | 75-125 |
| Zirconium | ND | 26.5 | 25.8 | 97 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 9.8

| | | |
|---|---|---|
| DILUTION FACTOR: | 0.957 | 4.78 |
| SAMPLE ID: | SL-105-NBZ-SS- | SL-105-NBZ-SS- |
| EMAX SAMP ID: | C209-12 | C209-12J |
| LAB FILE ID: | 98C14034 | 98C14035 |
| DATE EXTRACTED: | 03/27/1211:30 | 03/27/1211:30 |
| DATE ANALYZED: | 03/28/1212:56 | 03/28/1213:00 |
| PREP. BATCH: | IMC033S | IMC033S |
| CALIB. REF: | 98C14026 | 98C14026 |

DATE COLLECTED: 03/21/12
DATE RECEIVED: 03/22/12

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 10900 | 11100 | 2 | 10 |
| Antimony | 0.189J | ND | NA | 10 |
| Arsenic | 3.00 | 3.06 | 2 | 10 |
| Barium | 82.9 | 80.0 | 3 | 10 |
| Beryllium | 0.456 | 0.437J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.178 | ND | NA | 10 |
| Calcium | 2860 | 2990 | 5 | 10 |
| Chromium | 16.7 | 17.1 | 2 | 10 |
| Cobalt | 5.62 | 5.88 | 5 | 10 |
| Copper | 6.89 | 7.43 | 8 | 10 |
| Iron | 20000 | 20900 | 5 | 10 |
| Lead | 6.25 | 6.22 | 1 | 10 |
| Magnesium | 5360 | 5560 | 4 | 10 |
| Manganese | 292 | 307 | 5 | 10 |
| Molybdenum | 0.461 | 0.464J | NA | 10 |
| Nickel | 9.82 | 10.3 | 5 | 10 |
| Potassium | 3520 | 3440 | 2 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | 65.2J | ND | NA | 10 |
| Strontium | 14.6 | 14.3 | 3 | 10 |
| Thallium | 0.231 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 956 | 946 | 1 | 10 |
| Vanadium | 35.5 | 36.0 | 2 | 10 |
| Zinc | 49.6 | 49.5 | 0 | 10 |
| Lithium | 23.9 | 22.3 | 7 | 10 |
| Phosphorus | 391 | 373 | 4 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7470A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C209
Matrix : WATER
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | HGC023WB | ND | 1 | NA | 0.000500 | 0.000100 | 03/27/1215:50 | 03/27/1212:10 | M47C022010 | M47C022008 | HGC023W | NA | 03/27/12 |
| LCS1W | HGC023WL | 0.00500 | 1 | NA | 0.000500 | 0.000100 | 03/27/1215:52 | 03/27/1212:10 | M47C022011 | M47C022008 | HGC023W | NA | 03/27/12 |
| LCD1W | HGC023WC | 0.00495 | 1 | NA | 0.000500 | 0.000100 | 03/27/1215:54 | 03/27/1212:10 | M47C022012 | M47C022008 | HGC023W | NA | 03/27/12 |
| EB-NBZ-SS-032112 | C209-01 | ND | 1 | NA | 0.000500 | 0.000100 | 03/27/1216:59 | 03/27/1212:10 | M47C022042 | M47C022032 | HGC023W | 03/21/12 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C209
METHOD: METHOD 7470A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| CONTROL NO.: | HGC023WB | HGC023WL | HGC023WC | | |
| LAB FILE ID: | M47C022010 | M47C022011 | M47C022012 | | |
| DATIME EXTRCTD: | 03/27/1212:10 | 03/27/1212:10 | 03/27/1212:10 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 03/27/1215:50 | 03/27/1215:52 | 03/27/1215:54 | DATE RECEIVED: | 03/27/12 |
| PREP. BATCH: | HGC023W | HGC023W | HGC023W | | |
| CALIB. REF: | M47C022008 | M47C022008 | M47C022008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/L | SPIKE AMT mg/L | BS RSLT mg/L | BS % REC | SPIKE AMT mg/L | BSD RSLT mg/L | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .005 | .005 | 100 | .005 | .00495 | 99 | 1 | 80-120 | 20 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C209
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGC027SB | ND | 1 | NA | 0.100 | 0.0500 | 03/28/1219:43 | 03/28/1216:00 | M47C024062 | M47C024056 | HGC027S | NA | 03/28/12 |
| LCS1S | HGC027SL | 0.853 | 1 | NA | 0.100 | 0.0500 | 03/28/1219:46 | 03/28/1216:00 | M47C024063 | M47C024056 | HGC027S | NA | 03/28/12 |
| LCD1S | HGC027SC | 0.843 | 1 | NA | 0.100 | 0.0500 | 03/28/1219:48 | 03/28/1216:00 | M47C024064 | M47C024056 | HGC027S | NA | 03/28/12 |
| SL-062-NBZ-SB-2.5-3.5 | C209-03 | ND | 0.993 | 3.4 | 0.103 | 0.0514 | 03/28/1220:31 | 03/28/1216:00 | M47C024084 | M47C024080 | HGC027S | 03/21/12 | 03/22/12 |
| SL-063-NBZ-SB-0.5-1.5 | C209-05 | ND | 0.985 | 12.2 | 0.112 | 0.0561 | 03/28/1220:34 | 03/28/1216:00 | M47C024085 | M47C024080 | HGC027S | 03/21/12 | 03/22/12 |
| SL-064-NBZ-SB-0.5-1.5 | C209-07 | ND | 0.993 | 4.8 | 0.104 | 0.0522 | 03/28/1220:36 | 03/28/1216:00 | M47C024086 | M47C024080 | HGC027S | 03/21/12 | 03/22/12 |
| SL-065-NBZ-SB-1.0-2.0 | C209-09 | ND | 1.01 | 7.7 | 0.109 | 0.0547 | 03/28/1220:38 | 03/28/1216:00 | M47C024087 | M47C024080 | HGC027S | 03/21/12 | 03/22/12 |
| SL-066-NBZ-SB-2.0-3.0 | C209-11 | ND | 0.993 | 3.0 | 0.102 | 0.0512 | 03/28/1220:40 | 03/28/1216:00 | M47C024088 | M47C024080 | HGC027S | 03/21/12 | 03/22/12 |
| SL-105-NBZ-SS-0.0-0.5 | C209-12 | ND | 1.01 | 9.8 | 0.112 | 0.0560 | 03/28/1220:42 | 03/28/1216:00 | M47C024089 | M47C024080 | HGC027S | 03/21/12 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C209
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGC027SB | HGC027SL | HGC027SC | | |
| LAB FILE ID: | M47C024062 | M47C024063 | M47C024064 | | |
| DATIME EXTRCTD: | 03/28/1216:00 | 03/28/1216:00 | 03/28/1216:00 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 03/28/1219:43 | 03/28/1219:46 | 03/28/1219:48 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | HGC027S | HGC027S | HGC027S | | |
| CALIB. REF: | M47C024056 | M47C024056 | M47C024056 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .853 | 102 | .833 | .843 | 101 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C209
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 5.1
DILTN FACTR: 0.998 0.998
SAMPLE ID: B5-SB02-02
CONTROL NO.: C206-10 C206-10A
LAB FILE ID: M47C024066 M47C024065
DATIME EXTRCTD: 03/28/1216:00 03/28/1216:00 DATE COLLECTED: 03/20/12
DATIME ANALYZD: 03/28/1219:52 03/28/1219:50 DATE RECEIVED: 03/21/12
PREP. BATCH: HGC027S HGC027S
CALIB. REF: M47C024056 M47C024056

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .876 | .855 | 98 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 5.1

| | | | | |
|---|---|---|---|---|
| DILUTION FACTOR: | 0.998 | 4.99 | | |
| SAMPLE ID: | B5-SB02-02 | B5-SB02-02DL | | |
| EMAX SAMP ID: | C206-10 | C206-10J | | |
| LAB FILE ID: | M47C024066 | M47C024067 | | |
| DATE EXTRACTED: | 03/28/1216:00 | 03/28/1216:00 | DATE COLLECTED: | 03/20/12 |
| DATE ANALYZED: | 03/28/1219:52 | 03/28/1219:54 | DATE RECEIVED: | 03/21/12 |
| PREP. BATCH: | HGC027S | HGC027S | | |
| CALIB. REF: | M47C024056 | M47C024056 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C209
Matrix : WATER
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | ICC045WB | ND | 1 | NA | 0.100 | 0.0500 | 03/22/1209:44 | NA | AC29-03 | AC29-01 | ICC045W | NA | NA |
| LCS1W | ICC045WL | 1.90 | 1 | NA | 0.100 | 0.0500 | 03/22/1210:00 | NA | AC29-04 | AC29-01 | ICC045W | NA | NA |
| LCD1W | ICC045WC | 1.93 | 1 | NA | 0.100 | 0.0500 | 03/22/1210:16 | NA | AC29-05 | AC29-01 | ICC045W | NA | NA |
| EB-NBZ-SS-032112 | C209-01 | ND | 1 | NA | 0.100 | 0.0500 | 03/22/1210:49 | NA | AC29-07 | AC29-01 | ICC045W | 03/21/1215:00 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | ICC045WB | ICC045WL | ICC045WC | | |
| LAB FILE ID: | AC29-03 | AC29-04 | AC29-05 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/22/1209:44 | 03/22/1210:00 | 03/22/1210:16 | DATE RECEIVED: | NA |
| PREP. BATCH: | ICC045W | ICC045W | ICC045W | | |
| CALIB. REF: | AC29-01 | AC29-01 | AC29-01 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 2.00 | 1.90 | 95 | 2.00 | 1.93 | 97 | 2 | 90-110 | 20 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C209
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC006SB | ND | 1 | NA | 1.00 | 0.500 | 03/23/1213:23 | 03/23/1210:43 | AC31-12 | AC31-10 | ICC006S | NA | 03/23/12 |
| LCS1S | ICC006SL | 5.83 | 1 | NA | 1.00 | 0.500 | 03/23/1213:39 | 03/23/1210:43 | AC31-13 | AC31-10 | ICC006S | NA | 03/23/12 |
| LCD1S | ICC006SC | 5.87 | 1 | NA | 1.00 | 0.500 | 03/23/1213:55 | 03/23/1210:43 | AC31-14 | AC31-10 | ICC006S | NA | 03/23/12 |
| SL-062-NBZ-SB-2.5-3.5 | C209-03 | 0.705J | 1 | 3.4 | 1.04 | 0.518 | 03/23/1214:11 | 03/23/1210:43 | AC31-15 | AC31-10 | ICC006S | 03/21/1215:40 | 03/22/12 |
| SL-063-NBZ-SB-0.5-1.5 | C209-05 | ND | 1 | 12.2 | 1.14 | 0.569 | 03/23/1214:27 | 03/23/1210:43 | AC31-16 | AC31-10 | ICC006S | 03/21/1214:45 | 03/22/12 |
| SL-064-NBZ-SB-0.5-1.5 | C209-07 | 0.577J | 1 | 4.8 | 1.05 | 0.525 | 03/23/1214:43 | 03/23/1210:43 | AC31-17 | AC31-10 | ICC006S | 03/21/1213:30 | 03/22/12 |
| SL-065-NBZ-SB-1.0-2.0 | C209-09 | ND | 1 | 7.7 | 1.08 | 0.542 | 03/23/1214:59 | 03/23/1210:43 | AC31-18 | AC31-10 | ICC006S | 03/21/1210:50 | 03/22/12 |
| SL-066-NBZ-SB-2.0-3.0 | C209-11 | ND | 1 | 3.0 | 1.03 | 0.515 | 03/23/1215:16 | 03/23/1210:43 | AC31-19 | AC31-10 | ICC006S | 03/21/1209:30 | 03/22/12 |
| SL-105-NBZ-SS-0.0-0.5 | C209-12 | 0.707J | 1 | 9.8 | 1.11 | 0.554 | 03/23/1215:32 | 03/23/1210:43 | AC31-20 | AC31-10 | ICC006S | 03/21/1213:45 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC006SB | ICC006SL | ICC006SC | | |
| LAB FILE ID: | AC31-12 | AC31-13 | AC31-14 | | |
| DATE EXTRACTED: | 03/23/1210:43 | 03/23/1210:43 | 03/23/1210:43 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1213:23 | 03/23/1213:39 | 03/23/1213:55 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | ICC006S | ICC006S | ICC006S | | |
| CALIB. REF: | AC31-10 | AC31-10 | AC31-10 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 5.83 | 97 | 6.00 | 5.87 | 98 | 1 | 90-110 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C209
Matrix : WATER
Instrument ID : DO

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | ICC045WB | ND | 1 | NA | 0.443 | 0.222 | 03/22/1209:44 | NA | AC29-03 | AC29-01 | ICC045W | NA | NA |
| LCS1W | ICC045WL | 8.13 | 1 | NA | 0.443 | 0.222 | 03/22/1210:00 | NA | AC29-04 | AC29-01 | ICC045W | NA | NA |
| LCD1W | ICC045WC | 8.71 | 1 | NA | 0.443 | 0.222 | 03/22/1210:16 | NA | AC29-05 | AC29-01 | ICC045W | NA | NA |
| EB-NBZ-SS-032112 | C209-01 | ND | 1 | NA | 0.443 | 0.222 | 03/22/1210:49 | NA | AC29-07 | AC29-01 | ICC045W | 03/21/1215:00 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | ICC045WB | ICC045WL | ICC045WC | | |
| LAB FILE ID: | AC29-03 | AC29-04 | AC29-05 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/22/1209:44 | 03/22/1210:00 | 03/22/1210:16 | DATE RECEIVED: | NA |
| PREP. BATCH: | ICC045W | ICC045W | ICC045W | | |
| CALIB. REF: | AC29-01 | AC29-01 | AC29-01 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 8.86 | 8.13 | 92 | 8.86 | 8.71 | 98 | 7 | 90-110 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C209
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC006SB | ND | 1 | NA | 1.50 | 0.750 | 03/23/1213:23 | 03/23/1210:43 | AC31-12 | AC31-10 | ICC006S | NA | 03/23/12 |
| LCS1S | ICC006SL | 26.0 | 1 | NA | 1.50 | 0.750 | 03/23/1213:39 | 03/23/1210:43 | AC31-13 | AC31-10 | ICC006S | NA | 03/23/12 |
| LCD1S | ICC006SC | 26.0 | 1 | NA | 1.50 | 0.750 | 03/23/1213:55 | 03/23/1210:43 | AC31-14 | AC31-10 | ICC006S | NA | 03/23/12 |
| SL-062-NBZ-SB-2.5-3.5 | C209-03 | 7.09 | 1 | 3.4 | 1.55 | 0.776 | 03/23/1214:11 | 03/23/1210:43 | AC31-15 | AC31-10 | ICC006S | 03/21/1215:40 | 03/22/12 |
| SL-063-NBZ-SB-0.5-1.5 | C209-05 | 4.55 | 1 | 12.2 | 1.71 | 0.854 | 03/23/1214:27 | 03/23/1210:43 | AC31-16 | AC31-10 | ICC006S | 03/21/1214:45 | 03/22/12 |
| SL-064-NBZ-SB-0.5-1.5 | C209-07 | 2.18 | 1 | 4.8 | 1.58 | 0.788 | 03/23/1214:43 | 03/23/1210:43 | AC31-17 | AC31-10 | ICC006S | 03/21/1213:30 | 03/22/12 |
| SL-065-NBZ-SB-1.0-2.0 | C209-09 | 10.2 | 1 | 7.7 | 1.63 | 0.813 | 03/23/1214:59 | 03/23/1210:43 | AC31-18 | AC31-10 | ICC006S | 03/21/1210:50 | 03/22/12 |
| SL-066-NBZ-SB-2.0-3.0 | C209-11 | 1.34J | 1 | 3.0 | 1.55 | 0.773 | 03/23/1215:16 | 03/23/1210:43 | AC31-19 | AC31-10 | ICC006S | 03/21/1209:30 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC006SB | ICC006SL | ICC006SC | | |
| LAB FILE ID: | AC31-12 | AC31-13 | AC31-14 | | |
| DATE EXTRACTED: | 03/23/1210:43 | 03/23/1210:43 | 03/23/1210:43 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1213:23 | 03/23/1213:39 | 03/23/1213:55 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | ICC006S | ICC006S | ICC006S | | |
| CALIB. REF: | AC31-10 | AC31-10 | AC31-10 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 26.0 | 98 | 26.6 | 26.0 | 98 | 0 | 90-110 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C209
Matrix : WATER
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | PCC011WB | ND | 1 | NA | 2.00 | 1.00 | 03/23/1211:39 | NA | JC23002 | JC23001 | PCC011W | NA | NA |
| LCS1W | PCC011WL | 23.3 | 1 | NA | 2.00 | 1.00 | 03/23/1213:05 | NA | JC23004 | JC23001 | PCC011W | NA | NA |
| LCD1W | PCC011WC | 23.5 | 1 | NA | 2.00 | 1.00 | 03/23/1213:32 | NA | JC23005 | JC23001 | PCC011W | NA | NA |
| EB-NBZ-SS-032112 | C209-01 | ND | 1 | NA | 2.00 | 1.00 | 03/23/1214:14 | NA | JC23007 | JC23001 | PCC011W | 03/21/1215:00 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | PCC011WB | PCC011WL | PCC011WC | | |
| LAB FILE ID: | JC23002 | JC23004 | JC23005 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1211:39 | 03/23/1213:05 | 03/23/1213:32 | DATE RECEIVED: | NA |
| PREP. BATCH: | PCC011W | PCC011W | PCC011W | | |
| CALIB. REF: | JC23001 | JC23001 | JC23001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 25.0 | 23.3 | 93 | 25.0 | 23.5 | 94 | 1 | 85-115 | 15 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C209
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCC015SB | ND | 1 | NA | 20.0 | 10.0 | 03/26/1222:49 | 03/26/1211:10 | JC26024 | JC26023 | PCC015S | NA | 03/26/12 |
| LCS1S | PCC015SL | 238 | 1 | NA | 20.0 | 10.0 | 03/26/1223:31 | 03/26/1211:10 | JC26026 | JC26023 | PCC015S | NA | 03/26/12 |
| LCD1S | PCC015SC | 244 | 1 | NA | 20.0 | 10.0 | 03/26/1223:52 | 03/26/1211:10 | JC26027 | JC26023 | PCC015S | NA | 03/26/12 |
| SL-062-NBZ-SB-2.5-3.5 | C209-03 | ND | 1 | 3.4 | 20.7 | 10.4 | 03/27/1200:13 | 03/26/1211:10 | JC26028 | JC26023 | PCC015S | 03/21/1215:40 | 03/22/12 |
| SL-063-NBZ-SB-0.5-1.5 | C209-05 | ND | 1 | 12.2 | 22.8 | 11.4 | 03/27/1200:34 | 03/26/1211:10 | JC26029 | JC26023 | PCC015S | 03/21/1214:45 | 03/22/12 |
| SL-064-NBZ-SB-0.5-1.5 | C209-07 | ND | 1 | 4.8 | 21.0 | 10.5 | 03/27/1200:55 | 03/26/1211:10 | JC26030 | JC26023 | PCC015S | 03/21/1213:30 | 03/22/12 |
| SL-065-NBZ-SB-1.0-2.0 | C209-09 | ND | 1 | 7.7 | 21.7 | 10.8 | 03/27/1201:16 | 03/26/1211:10 | JC26031 | JC26023 | PCC015S | 03/21/1210:50 | 03/22/12 |
| SL-066-NBZ-SB-2.0-3.0 | C209-11 | ND | 1 | 3.0 | 20.6 | 10.3 | 03/27/1201:37 | 03/26/1211:10 | JC26032 | JC26023 | PCC015S | 03/21/1209:30 | 03/22/12 |
| SL-105-NBZ-SS-0.0-0.5 | C209-12 | ND | 1 | 9.8 | 22.2 | 11.1 | 03/27/1202:40 | 03/26/1211:10 | JC26035 | JC26034 | PCC015S | 03/21/1213:45 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCC015SB | PCC015SL | PCC015SC | | |
| LAB FILE ID: | JC26024 | JC26026 | JC26027 | | |
| DATE EXTRACTED: | 03/26/1211:10 | 03/26/1211:10 | 03/26/1211:10 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/26/1222:49 | 03/26/1223:31 | 03/26/1223:52 | DATE RECEIVED: | 03/26/12 |
| PREP. BATCH: | PCC015S | PCC015S | PCC015S | | |
| CALIB. REF: | JC26023 | JC26023 | JC26023 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 238 | 95 | 250 | 244 | 98 | 2 | 85-115 | 15 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C209
Matrix : WATER
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | HCC011WB | ND | 1 | NA | 0.200 | 0.100 | 03/22/1212:08 | NA | IC23003 | IC23001 | HCC011W | NA | NA |
| MBLK1W | HCC011WQ | ND | 1 | NA | 0.200 | 0.100 | 03/22/1212:19 | NA | IC23004 | IC23001 | HCC011W | NA | NA |
| LCS1W | HCC011WL | 1.73 | 1 | NA | 0.200 | 0.100 | 03/22/1212:50 | NA | IC23007 | IC23001 | HCC011W | NA | NA |
| LCS1W | HCC011WX | 1.85 | 1 | NA | 0.200 | 0.100 | 03/22/1213:11 | NA | IC23008 | IC23001 | HCC011W | NA | NA |
| LCD1W | HCC011WC | 1.83 | 1 | NA | 0.200 | 0.100 | 03/22/1213:21 | NA | IC23009 | IC23001 | HCC011W | NA | NA |
| LCD1W | HCC011WY | 1.83 | 1 | NA | 0.200 | 0.100 | 03/22/1213:31 | NA | IC23010 | IC23001 | HCC011W | NA | NA |
| EB-NBZ-SS-032112 | C209-01 | ND | 1 | NA | 0.200 | 0.100 | 03/22/1212:29 | NA | IC23005 | IC23001 | HCC011W | 03/21/1215:00 | 03/22/12 |
| EB-NBZ-SS-032112 | C209-01R | ND | 1 | NA | 0.200 | 0.100 | 03/22/1212:39 | NA | IC23006 | IC23001 | HCC011W | 03/21/1215:00 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: 7199

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HCC011WB | HCC011WL | HCC011WC | | |
| LAB FILE ID: | IC23003 | IC23007 | IC23009 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/22/1212:08 | 03/22/1212:50 | 03/22/1213:21 | DATE RECEIVED: | NA |
| PREP. BATCH: | HCC011W | HCC011W | HCC011W | | |
| CALIB. REF: | IC23001 | IC23001 | IC23001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 2.00 | 1.73 | 86 | 2.00 | 1.83 | 91 | 6 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: 7199

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HCC011WQ | HCC011WX | HCC011WY | | |
| LAB FILE ID: | IC23004 | IC23008 | IC23010 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/22/1212:19 | 03/22/1213:11 | 03/22/1213:31 | DATE RECEIVED: | NA |
| PREP. BATCH: | HCC011W | HCC011W | HCC011W | | |
| CALIB. REF: | IC23001 | IC23001 | IC23001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 2.00 | 1.85 | 92 | 2.00 | 1.83 | 91 | 1 | 80-120 | 20 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C209
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCC006SB | ND | 1 | NA | 1.00 | 0.500 | 03/27/1215:40 | 03/26/1217:30 | IC29003 | IC29001 | HCC006S | NA | 03/26/12 |
| MBLK1S | HCC006SQ | ND | 1 | NA | 1.00 | 0.500 | 03/27/1215:50 | 03/26/1217:30 | IC29004 | IC29001 | HCC006S | NA | 03/26/12 |
| LCS1S | CSC006SL | 10.7 | 1 | NA | 1.00 | 0.500 | 03/27/1216:01 | 03/26/1217:30 | IC29005 | IC29001 | HCC006S | NA | 03/26/12 |
| LCS1S | CSC006SX | 11.0 | 1 | NA | 1.00 | 0.500 | 03/27/1216:11 | 03/26/1217:30 | IC29006 | IC29001 | HCC006S | NA | 03/26/12 |
| LCS2S | CIC006SL | 377 | 20 | NA | 20.0 | 10.0 | 03/27/1216:22 | 03/26/1217:30 | IC29007 | IC29001 | HCC006S | NA | 03/26/12 |
| LCS2S | CIC006SX | 370 | 20 | NA | 20.0 | 10.0 | 03/27/1216:32 | 03/26/1217:30 | IC29008 | IC29001 | HCC006S | NA | 03/26/12 |
| SL-062-NBZ-SB-2.5-3.5 | C209-03 | ND | 1 | 3.4 | 1.04 | 0.518 | 03/27/1219:27 | 03/26/1217:30 | IC29023 | IC29013 | HCC006S | 03/21/1215:40 | 03/22/12 |
| SL-062-NBZ-SB-2.5-3.5 | C209-03R | ND | 1 | 3.4 | 1.04 | 0.518 | 03/27/1219:38 | 03/26/1217:30 | IC29024 | IC29013 | HCC006S | 03/21/1215:40 | 03/22/12 |
| SL-062-NBZ-SB-2.5-3.5MS | C209-03M | 11.4 | 1 | 3.4 | 1.04 | 0.518 | 03/27/1220:19 | 03/26/1217:30 | IC29027 | IC29025 | HCC006S | 03/21/1215:40 | 03/22/12 |
| SL-062-NBZ-SB-2.5-3.5MS | C209-03M1 | 11.7 | 1 | 3.4 | 1.04 | 0.518 | 03/27/1220:30 | 03/26/1217:30 | IC29028 | IC29025 | CIC006S | 03/21/1215:40 | 03/22/12 |
| SL-062-NBZ-SB-2.5-3.5MS | C209-03G | 366 | 20 | 3.4 | 20.7 | 10.4 | 03/27/1221:01 | 03/26/1217:30 | IC29031 | IC29025 | HCC006S | 03/21/1215:40 | 03/22/12 |
| SL-062-NBZ-SB-2.5-3.5MS | C209-03G1 | 355 | 20 | 3.4 | 20.7 | 10.4 | 03/27/1221:11 | 03/26/1217:30 | IC29032 | IC29025 | CIC006S | 03/21/1215:40 | 03/22/12 |
| SL-063-NBZ-SB-0.5-1.5 | C209-05 | ND | 1 | 12.2 | 1.14 | 0.569 | 03/27/1221:43 | 03/26/1217:30 | IC29035 | IC29025 | HCC006S | 03/21/1214:45 | 03/22/12 |
| SL-063-NBZ-SB-0.5-1.5 | C209-05R | ND | 1 | 12.2 | 1.14 | 0.569 | 03/27/1221:53 | 03/26/1217:30 | IC29036 | IC29025 | HCC006S | 03/21/1214:45 | 03/22/12 |
| SL-064-NBZ-SB-0.5-1.5 | C209-07 | ND | 1 | 4.8 | 1.05 | 0.525 | 03/27/1222:35 | 03/26/1217:30 | IC29039 | IC29037 | HCC006S | 03/21/1213:30 | 03/22/12 |
| SL-064-NBZ-SB-0.5-1.5 | C209-07R | ND | 1 | 4.8 | 1.05 | 0.525 | 03/27/1222:45 | 03/26/1217:30 | IC29040 | IC29037 | HCC006S | 03/21/1213:30 | 03/22/12 |
| SL-065-NBZ-SB-1.0-2.0 | C209-09 | ND | 1 | 7.7 | 1.08 | 0.542 | 03/27/1222:55 | 03/26/1217:30 | IC29041 | IC29037 | HCC006S | 03/21/1210:50 | 03/22/12 |
| SL-065-NBZ-SB-1.0-2.0 | C209-09R | ND | 1 | 7.7 | 1.08 | 0.542 | 03/27/1223:06 | 03/26/1217:30 | IC29042 | IC29037 | HCC006S | 03/21/1210:50 | 03/22/12 |
| SL-066-NBZ-SB-2.0-3.0 | C209-11 | ND | 1 | 3.0 | 1.03 | 0.515 | 03/27/1223:16 | 03/26/1217:30 | IC29043 | IC29037 | HCC006S | 03/21/1209:30 | 03/22/12 |
| SL-066-NBZ-SB-2.0-3.0 | C209-11R | ND | 1 | 3.0 | 1.03 | 0.515 | 03/27/1223:27 | 03/26/1217:30 | IC29044 | IC29037 | HCC006S | 03/21/1209:30 | 03/22/12 |
| SL-105-NBZ-SS-0.0-0.5 | C209-12 | ND | 1 | 9.8 | 1.11 | 0.554 | 03/27/1223:37 | 03/26/1217:30 | IC29045 | IC29037 | HCC006S | 03/21/1213:45 | 03/22/12 |
| SL-105-NBZ-SS-0.0-0.5 | C209-12R | ND | 1 | 9.8 | 1.11 | 0.554 | 03/27/1223:47 | 03/26/1217:30 | IC29046 | IC29037 | HCC006S | 03/21/1213:45 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 20 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCC006SQ | CIC006SX | | |
| LAB FILE ID: | IC29004 | IC29008 | | |
| DATE EXTRACTED: | 03/26/1217:30 | 03/26/1217:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/27/1215:50 | 03/27/1216:32 | DATE RECEIVED: | 03/26/12 |
| PREP. BATCH: | HCC006S | HCC006S | | |
| CALIB. REF: | IC29001 | IC29001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 400 | 370 | 92 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCC006SB CIC006SL
LAB FILE ID: IC29003 IC29007
DATE EXTRACTED: 03/26/1217:30 03/26/1217:30 DATE COLLECTED: NA
DATE ANALYZED: 03/27/1215:40 03/27/1216:22 DATE RECEIVED: 03/26/12
PREP. BATCH: HCC006S HCC006S
CALIB. REF: IC29001 IC29001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 400 | 377 | 94 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCC006SQ | CSC006SX | | |
| LAB FILE ID: | IC29004 | IC29006 | | |
| DATE EXTRACTED: | 03/26/1217:30 | 03/26/1217:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/27/1215:50 | 03/27/1216:11 | DATE RECEIVED: | 03/26/12 |
| PREP. BATCH: | HCC006S | HCC006S | | |
| CALIB. REF: | IC29001 | IC29001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 11.0 | 110 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCC006SB | CSC006SL | | |
| LAB FILE ID: | IC29003 | IC29005 | | |
| DATE EXTRACTED: | 03/26/1217:30 | 03/26/1217:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/27/1215:40 | 03/27/1216:01 | DATE RECEIVED: | 03/26/12 |
| PREP. BATCH: | HCC006S | HCC006S | | |
| CALIB. REF: | IC29001 | IC29001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 10.7 | 107 | 80-120 |

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: 7199

MATRIX: SOIL % MOISTURE: 3.4
DILUTION FACTOR: 1 20
SAMPLE ID: SL-062-NBZ-SB-2.5-3.5
LAB SAMP ID: C209-03R C209-03G1
LAB FILE ID: IC29024 IC29032
DATE EXTRACTED: 03/26/1217:30 03/26/1217:30 DATE COLLECTED: 03/21/12 15:40
DATE ANALYZED: 03/27/1219:38 03/27/1221:11 DATE RECEIVED: 03/22/12
PREP. BATCH: HCC006S CIC006S
CALIB. REF: IC29013 IC29025

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 380 | 355 | 93 | 75-125 |

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: 7199

MATRIX: SOIL % MOISTURE: 3.4
DILUTION FACTOR: 1 1
SAMPLE ID: SL-062-NBZ-SB-2.5-3.5
LAB SAMP ID: C209-03R C209-03M1
LAB FILE ID: IC29024 IC29028
DATE EXTRACTED: 03/26/1217:30 03/26/1217:30 DATE COLLECTED: 03/21/12 15:40
DATE ANALYZED: 03/27/1219:38 03/27/1220:30 DATE RECEIVED: 03/22/12
PREP. BATCH: HCC006S CIC006S
CALIB. REF: IC29013 IC29025

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.4 | 11.7 | 113 | 75-125 |

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: 7199

MATRIX: SOIL % MOISTURE: 3.4
DILUTION FACTOR: 1 1
SAMPLE ID: SL-062-NBZ-SB-2.5-3.5
LAB SAMP ID: C209-03 C209-03M
LAB FILE ID: IC29023 IC29027
DATE EXTRACTED: 03/26/1217:30 03/26/1217:30 DATE COLLECTED: 03/21/12 15:40
DATE ANALYZED: 03/27/1219:27 03/27/1220:19 DATE RECEIVED: 03/22/12
PREP. BATCH: HCC006S HCC006S
CALIB. REF: IC29013 IC29025

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.4 | 11.4 | 111 | 75-125 |

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C209
METHOD: 7199

MATRIX: SOIL % MOISTURE: 3.4
DILUTION FACTOR: 1 20
SAMPLE ID: SL-062-NBZ-SB-2.5-3.5
LAB SAMP ID: C209-03 C209-03G
LAB FILE ID: IC29023 IC29031
DATE EXTRACTED: 03/26/1217:30 03/26/1217:30 DATE COLLECTED: 03/21/12 15:40
DATE ANALYZED: 03/27/1219:27 03/27/1221:01 DATE RECEIVED: 03/22/12
PREP. BATCH: HCC006S HCC006S
CALIB. REF: IC29013 IC29025

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 380 | 366 | 96 | 75-125 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C209
Matrix : WATER
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | CNC014WB | ND | 1 | NA | 0.0100 | 0.00500 | 03/30/1218:22 | 03/30/1213:05 | CNC01410 | CNC01408 | CNC014W | NA | 03/30/12 |
| LCS1W | CNC014WL | 0.0889 | 1 | NA | 0.0100 | 0.00500 | 03/30/1218:22 | 03/30/1213:05 | CNC01411 | CNC01408 | CNC014W | NA | 03/30/12 |
| LCD1W | CNC014WC | 0.0873 | 1 | NA | 0.0100 | 0.00500 | 03/30/1218:22 | 03/30/1213:05 | CNC01412 | CNC01408 | CNC014W | NA | 03/30/12 |
| EB-NBZ-SS-032112 | C209-01 | ND | 1 | NA | 0.0100 | 0.00500 | 03/30/1218:22 | 03/30/1213:05 | CNC01413 | CNC01408 | CNC014W | 03/21/1215:00 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 12C209
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: CNC014WL/C

DATE RECEIVED: 03/30/12
DATE EXTRACTED: 03/30/1213:05
DATE ANALYZED: 03/30/1218:22/18:22

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 0.100 | 0.0889 | 89 | 0.100 | 0.0873 | 87 | 2 | 85-115 | 20 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C209

Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CNC012SB | ND | 1 | NA | 0.500 | 0.250 | 03/27/1218:14 | 03/27/1210:30 | CNC01210 | CNC01208 | CNC012S | NA | 03/27/12 |
| LCS1S | CNC012SL | 2.84 | 1 | NA | 0.500 | 0.250 | 03/27/1218:14 | 03/27/1210:30 | CNC01211 | CNC01208 | CNC012S | NA | 03/27/12 |
| LCD1S | CNC012SC | 2.66 | 1 | NA | 0.500 | 0.250 | 03/27/1218:15 | 03/27/1210:30 | CNC01212 | CNC01208 | CNC012S | NA | 03/27/12 |
| SL-062-NBZ-SB-2.5-3.5 | C209-03 | ND | 1 | 3.4 | 0.518 | 0.259 | 03/27/1218:17 | 03/27/1210:30 | CNC01218 | CNC01208 | CNC012S | 03/21/1215:40 | 03/22/12 |
| SL-063-NBZ-SB-0.5-1.5 | C209-05 | ND | 1 | 12.2 | 0.569 | 0.285 | 03/27/1218:17 | 03/27/1210:30 | CNC01219 | CNC01208 | CNC012S | 03/21/1214:45 | 03/22/12 |
| SL-064-NBZ-SB-0.5-1.5 | C209-07 | ND | 1 | 4.8 | 0.525 | 0.263 | 03/27/1218:18 | 03/27/1210:30 | CNC01222 | CNC01220 | CNC012S | 03/21/1213:30 | 03/22/12 |
| SL-065-NBZ-SB-1.0-2.0 | C209-09 | ND | 1 | 7.7 | 0.542 | 0.271 | 03/27/1218:18 | 03/27/1210:30 | CNC01223 | CNC01220 | CNC012S | 03/21/1210:50 | 03/22/12 |
| SL-066-NBZ-SB-2.0-3.0 | C209-11 | ND | 1 | 3.0 | 0.515 | 0.258 | 03/27/1218:18 | 03/27/1210:30 | CNC01224 | CNC01220 | CNC012S | 03/21/1209:30 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C209
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CNC012SL/C

DATE RECEIVED: 03/27/12
DATE EXTRACTED: 03/27/1210:30
DATE ANALYZED: 03/27/1218:14/18:15

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.84 | 114 | 2.50 | 2.66 | 106 | 7 | 85-125 | 20 |

METHOD 9040C
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C209
Matrix : WATER
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EB-NBZ-SS-032112 | C209-01 | 5.55 | 1 | NA | NA | NA | 03/22/1211:22 | NA | 12PHC018W01 | PHC018W | PHC018W | 03/21/1215:00 | 03/22/12 |
| EB-NBZ-SS-032112DUP | C209-01D | 5.56 | 1 | NA | NA | NA | 03/22/1211:25 | NA | 12PHC018W02 | PHC018W | PHC018W | 03/21/1215:00 | 03/22/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9040C
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 12C209 DATE RECEIVED: 03/22/12
SAMPLE ID: EB-NBZ-SS-032112DUP DATE EXTRACTED: NA
CONTROL NO.: C209-01D DATE ANALYZED: 03/22/1211:25

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 5.55 | 5.56 | -0.01 | 0.10 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C209

Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-062-NBZ-SB-2.5-3.5 | C209-03 | 7.62 | 1 | NA | NA | NA | 03/23/1213:21 | 03/23/1213:21 | 12PHC020S01 | PHC020S | PHC020S | 03/21/1215:40 | 03/22/12 |
| SL-062-NBZ-SB-2.5-3.5DUP | C209-03D | 7.65 | 1 | NA | NA | NA | 03/23/1213:23 | 03/23/1213:21 | 12PHC020S02 | PHC020S | PHC020S | 03/21/1215:40 | 03/22/12 |
| SL-063-NBZ-SB-0.5-1.5 | C209-05 | 6.61 | 1 | NA | NA | NA | 03/23/1213:27 | 03/23/1213:21 | 12PHC020S03 | PHC020S | PHC020S | 03/21/1214:45 | 03/22/12 |
| SL-064-NBZ-SB-0.5-1.5 | C209-07 | 6.83 | 1 | NA | NA | NA | 03/23/1213:31 | 03/23/1213:21 | 12PHC020S04 | PHC020S | PHC020S | 03/21/1213:30 | 03/22/12 |
| SL-065-NBZ-SB-1.0-2.0 | C209-09 | 6.06 | 1 | NA | NA | NA | 03/23/1213:35 | 03/23/1213:21 | 12PHC020S05 | PHC020S | PHC020S | 03/21/1210:50 | 03/22/12 |
| SL-066-NBZ-SB-2.0-3.0 | C209-11 | 6.06 | 1 | NA | NA | NA | 03/23/1213:40 | 03/23/1213:21 | 12PHC020S06 | PHC020S | PHC020S | 03/21/1209:30 | 03/22/12 |
| SL-105-NBZ-SS-0.0-0.5 | C209-12 | 6.67 | 1 | NA | NA | NA | 03/23/1213:45 | 03/23/1213:21 | 12PHC020S07 | PHC020S | PHC020S | 03/21/1213:45 | 03/22/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C209 DATE RECEIVED: 03/22/12
SAMPLE ID: SL-062-NBZ-SB-2.5-3.5DUP DATE EXTRACTED: 03/23/1213:21
CONTROL NO.: C209-03D DATE ANALYZED: 03/23/1213:23

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 7.62 | 7.65 | -0.03 | 0.10 |

# SAMPLE DELIVERY GROUP

# 12C229

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/26/12 12:00 |
| Sample ID: EB-NBZ-SB-032212 | Date Analyzed: 03/28/12 19:44 |
| Lab Samp ID: C229-01 | Dilution Factor: 1.12 |
| Lab File ID: RCJ470 | Matrix : WATER |
| Ext Btch ID: SVC037W | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 11 | 5.6 |
| 1,2-DICHLOROBENZENE | ND | 11 | 5.6 |
| 1,3-DICHLOROBENZENE | ND | 11 | 5.6 |
| 1,4-DICHLOROBENZENE | ND | 11 | 5.6 |
| 2,4,5-TRICHLOROPHENOL | ND | 11 | 5.6 |
| 2,4,6-TRICHLOROPHENOL | ND | 11 | 5.6 |
| 2,4-DICHLOROPHENOL | ND | 11 | 5.6 |
| 2,4-DIMETHYLPHENOL | ND | 11 | 5.6 |
| 2,4-DINITROPHENOL | ND | 22 | 5.6 |
| 2,4-DINITROTOLUENE | ND | 11 | 5.6 |
| 2,6-DINITROTOLUENE | ND | 11 | 5.6 |
| 2-CHLORONAPHTHALENE | ND | 11 | 5.6 |
| 2-CHLOROPHENOL | ND | 11 | 5.6 |
| 2-METHYLNAPHTHALENE | ND | 11 | 5.6 |
| 2-METHYLPHENOL | ND | 11 | 5.6 |
| 2-NITROANILINE | ND | 11 | 5.6 |
| 2-NITROPHENOL | ND | 11 | 5.6 |
| 3,3'-DICHLOROBENZIDINE | ND | 11 | 5.6 |
| 3-NITROANILINE | ND | 11 | 5.6 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 22 | 5.6 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 11 | 5.6 |
| 4-CHLORO-3-METHYLPHENOL | ND | 11 | 5.6 |
| 4-CHLOROANILINE | ND | 11 | 5.6 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 11 | 5.6 |
| 4-METHYLPHENOL (1) | ND | 11 | 5.6 |
| 4-NITROANILINE | ND | 11 | 5.6 |
| 4-NITROPHENOL | ND | 22 | 5.6 |
| ACENAPHTHENE | ND | 11 | 5.6 |
| ACENAPHTHYLENE | ND | 11 | 5.6 |
| ANTHRACENE | ND | 11 | 5.6 |
| BENZO(A)ANTHRACENE | ND | 11 | 5.6 |
| BENZO(A)PYRENE | ND | 11 | 5.6 |
| BENZO(B)FLUORANTHENE | ND | 11 | 5.6 |
| BENZO(K)FLUORANTHENE | ND | 11 | 5.6 |
| BENZO(G,H,I)PERYLENE | ND | 11 | 5.6 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 11 | 5.6 |
| BIS(2-CHLOROETHYL)ETHER | ND | 11 | 5.6 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 11 | 5.6 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 6.6J | 22 | 5.6 |
| BUTYLBENZYLPHTHALATE | ND | 11 | 5.6 |
| CHRYSENE | ND | 11 | 5.6 |
| DI-N-BUTYLPHTHALATE | ND | 11 | 5.6 |
| DI-N-OCTYLPHTHALATE | ND | 11 | 5.6 |
| DIBENZO(A,H)ANTHRACENE | ND | 11 | 5.6 |
| DIBENZOFURAN | ND | 11 | 5.6 |
| DIETHYLPHTHALATE | ND | 11 | 5.6 |
| DIMETHYLPHTHALATE | ND | 11 | 5.6 |
| FLUORANTHENE | ND | 11 | 5.6 |
| FLUORENE | ND | 11 | 5.6 |
| HEXACHLOROBENZENE | ND | 11 | 5.6 |
| HEXACHLOROBUTADIENE | ND | 11 | 5.6 |
| HEXACHLOROCYCLOPENTADIENE | ND | 22 | 5.6 |
| HEXACHLOROETHANE | ND | 11 | 5.6 |
| INDENO(1,2,3-CD)PYRENE | ND | 11 | 5.6 |
| ISOPHORONE | ND | 11 | 5.6 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 11 | 5.6 |
| N-NITROSODIPHENYLAMINE (2) | ND | 11 | 5.6 |
| NAPHTHALENE | ND | 11 | 5.6 |
| NITROBENZENE | ND | 11 | 5.6 |
| PENTACHLOROPHENOL | ND | 22 | 5.6 |
| PHENANTHRENE | ND | 11 | 5.6 |
| PHENOL | ND | 11 | 5.6 |
| PYRENE | ND | 11 | 5.6 |
| BENZYL ALCOHOL | ND | 11 | 5.6 |
| 1-METHYLNAPHTHALENE | ND | 11 | 5.6 |
| 1,2-DIPHENYLHYDRAZINE | ND | 11 | 5.6 |
| 3,5-DIMETHYLPHENOL | ND | 22 | 5.6 |
| ANILINE | ND | 22 | 11 |
| BENZIDINE | ND | 56 | 22 |
| BENZOIC ACID | ND | 45 | 22 |
| CARBAZOLE | ND | 11 | 5.6 |
| N-NITROSODIMETHYLAMINE | ND | 11 | 5.6 |
| TETRALIN | ND | 11 | 11 |
| 2-BUTOXYETHANOL | ND | 11 | 11 |
| 2-PHENOXYETHANOL | ND | 11 | 11 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 54.1 | 67.20 | 80.6 | 30-130 |
| 2-FLUOROBIPHENYL | 17.1 | 22.40 | 76.5 | 45-130 |
| 2-FLUOROPHENOL | 46.0 | 67.20 | 68.4 | 20-130 |
| NITROBENZENE-D5 | 16.5 | 22.40 | 73.5 | 40-130 |
| PHENOL-D5 | 51.0 | 67.20 | 76.0 | 20-120 |
| TERPHENYL-D14 | 20.4 | 22.40 | 91.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C229 | Date Extracted: 03/26/12 12:00 |
| Sample ID: MBLK1W | Date Analyzed: 03/28/12 18:29 |
| Lab Samp ID: SVC037WB | Dilution Factor: 1 |
| Lab File ID: RCJ466 | Matrix : WATER |
| Ext Btch ID: SVC037W | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 10 | 5.0 |
| 1,2-DICHLOROBENZENE | ND | 10 | 5.0 |
| 1,3-DICHLOROBENZENE | ND | 10 | 5.0 |
| 1,4-DICHLOROBENZENE | ND | 10 | 5.0 |
| 2,4,5-TRICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4,6-TRICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4-DICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4-DIMETHYLPHENOL | ND | 10 | 5.0 |
| 2,4-DINITROPHENOL | ND | 20 | 5.0 |
| 2,4-DINITROTOLUENE | ND | 10 | 5.0 |
| 2,6-DINITROTOLUENE | ND | 10 | 5.0 |
| 2-CHLORONAPHTHALENE | ND | 10 | 5.0 |
| 2-CHLOROPHENOL | ND | 10 | 5.0 |
| 2-METHYLNAPHTHALENE | ND | 10 | 5.0 |
| 2-METHYLPHENOL | ND | 10 | 5.0 |
| 2-NITROANILINE | ND | 10 | 5.0 |
| 2-NITROPHENOL | ND | 10 | 5.0 |
| 3,3'-DICHLOROBENZIDINE | ND | 10 | 5.0 |
| 3-NITROANILINE | ND | 10 | 5.0 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 20 | 5.0 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 10 | 5.0 |
| 4-CHLORO-3-METHYLPHENOL | ND | 10 | 5.0 |
| 4-CHLOROANILINE | ND | 10 | 5.0 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 10 | 5.0 |
| 4-METHYLPHENOL (1) | ND | 10 | 5.0 |
| 4-NITROANILINE | ND | 10 | 5.0 |
| 4-NITROPHENOL | ND | 20 | 5.0 |
| ACENAPHTHENE | ND | 10 | 5.0 |
| ACENAPHTHYLENE | ND | 10 | 5.0 |
| ANTHRACENE | ND | 10 | 5.0 |
| BENZO(A)ANTHRACENE | ND | 10 | 5.0 |
| BENZO(A)PYRENE | ND | 10 | 5.0 |
| BENZO(B)FLUORANTHENE | ND | 10 | 5.0 |
| BENZO(K)FLUORANTHENE | ND | 10 | 5.0 |
| BENZO(G,H,I)PERYLENE | ND | 10 | 5.0 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 10 | 5.0 |
| BIS(2-CHLOROETHYL)ETHER | ND | 10 | 5.0 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 10 | 5.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 20 | 5.0 |
| BUTYLBENZYLPHTHALATE | ND | 10 | 5.0 |
| CHRYSENE | ND | 10 | 5.0 |
| DI-N-BUTYLPHTHALATE | ND | 10 | 5.0 |
| DI-N-OCTYLPHTHALATE | ND | 10 | 5.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 10 | 5.0 |
| DIBENZOFURAN | ND | 10 | 5.0 |
| DIETHYLPHTHALATE | ND | 10 | 5.0 |
| DIMETHYLPHTHALATE | ND | 10 | 5.0 |
| FLUORANTHENE | ND | 10 | 5.0 |
| FLUORENE | ND | 10 | 5.0 |
| HEXACHLOROBENZENE | ND | 10 | 5.0 |
| HEXACHLOROBUTADIENE | ND | 10 | 5.0 |
| HEXACHLOROCYCLOPENTADIENE | ND | 20 | 5.0 |
| HEXACHLOROETHANE | ND | 10 | 5.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 10 | 5.0 |
| ISOPHORONE | ND | 10 | 5.0 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 10 | 5.0 |
| N-NITROSODIPHENYLAMINE (2) | ND | 10 | 5.0 |
| NAPHTHALENE | ND | 10 | 5.0 |
| NITROBENZENE | ND | 10 | 5.0 |
| PENTACHLOROPHENOL | ND | 20 | 5.0 |
| PHENANTHRENE | ND | 10 | 5.0 |
| PHENOL | ND | 10 | 5.0 |
| PYRENE | ND | 10 | 5.0 |
| BENZYL ALCOHOL | ND | 10 | 5.0 |
| 1-METHYLNAPHTHALENE | ND | 10 | 5.0 |
| 1,2-DIPHENYLHYDRAZINE | ND | 10 | 5.0 |
| 3,5-DIMETHYLPHENOL | ND | 20 | 5.0 |
| ANILINE | ND | 20 | 10 |
| BENZIDINE | ND | 50 | 20 |
| BENZOIC ACID | ND | 40 | 20 |
| CARBAZOLE | ND | 10 | 5.0 |
| N-NITROSODIMETHYLAMINE | ND | 10 | 5.0 |
| TETRALIN | ND | 10 | 10 |
| 2-BUTOXYETHANOL | ND | 10 | 10 |
| 2-PHENOXYETHANOL | ND | 10 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 49.6 | 60.00 | 82.7 | 30-130 |
| 2-FLUOROBIPHENYL | 15.1 | 20.00 | 75.6 | 45-130 |
| 2-FLUOROPHENOL | 40.8 | 60.00 | 68.0 | 20-130 |
| NITROBENZENE-D5 | 14.6 | 20.00 | 73.0 | 40-130 |
| PHENOL-D5 | 43.4 | 60.00 | 72.3 | 20-120 |
| TERPHENYL-D14 | 18.5 | 20.00 | 92.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 3520C/8270C

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: SVC037WB SVC037WL SVC037WC
LAB FILE ID: RCJ466 RCJ467 RCJ468
DATE EXTRACTED: 03/26/1212:00 03/26/1212:00 03/26/1212:00 DATE COLLECTED: NA
DATE ANALYZED: 03/28/1218:29 03/28/1218:48 03/28/1219:07 DATE RECEIVED: 03/26/12
PREP. BATCH: SVC037W SVC037W SVC037W
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 40.0 | 27.5 | 69 | 40.0 | 29.1 | 73 | 6 | 30-130 | 30 |
| 1,2-Dichlorobenzene | ND | 40.0 | 29.2 | 73 | 40.0 | 30.0 | 75 | 3 | 30-130 | 30 |
| 1,3-Dichlorobenzene | ND | 40.0 | 28.8 | 72 | 40.0 | 29.2 | 73 | 1 | 30-130 | 30 |
| 1,4-Dichlorobenzene | ND | 40.0 | 29.0 | 73 | 40.0 | 28.9 | 72 | 0 | 30-130 | 30 |
| 2,4,5-Trichlorophenol | ND | 40.0 | 32.5 | 81 | 40.0 | 32.7 | 82 | 1 | 30-130 | 30 |
| 2,4,6-Trichlorophenol | ND | 40.0 | 34.6 | 86 | 40.0 | 35.1 | 88 | 2 | 30-130 | 30 |
| 2,4-Dichlorophenol | ND | 40.0 | 31.6 | 79 | 40.0 | 33.5 | 84 | 6 | 40-130 | 30 |
| 2,4-Dimethylphenol | ND | 40.0 | 30.1 | 75 | 40.0 | 32.6 | 81 | 8 | 30-130 | 30 |
| 2,4-Dinitrophenol | ND | 40.0 | 33.7 | 84 | 40.0 | 32.5 | 81 | 4 | 30-130 | 30 |
| 2,4-Dinitrotoluene | ND | 40.0 | 41.3 | 103 | 40.0 | 40.7 | 102 | 2 | 40-130 | 30 |
| 2,6-Dinitrotoluene | ND | 40.0 | 39.8 | 99 | 40.0 | 39.9 | 100 | 0 | 40-130 | 30 |
| 2-Chloronaphthalene | ND | 40.0 | 30.9 | 77 | 40.0 | 32.6 | 81 | 5 | 40-130 | 30 |
| 2-Chlorophenol | ND | 40.0 | 34.3 | 86 | 40.0 | 31.4 | 78 | 9 | 30-130 | 30 |
| 2-Methylnaphthalene | ND | 40.0 | 34.5 | 86 | 40.0 | 36.9 | 92 | 7 | 40-130 | 30 |
| 2-Methylphenol | ND | 40.0 | 29.5 | 74 | 40.0 | 29.3 | 73 | 0 | 30-130 | 30 |
| 2-Nitroaniline | ND | 40.0 | 36.7 | 92 | 40.0 | 37.0 | 92 | 1 | 40-130 | 30 |
| 2-Nitrophenol | ND | 40.0 | 33.7 | 84 | 40.0 | 35.6 | 89 | 6 | 40-130 | 30 |
| 3,3'-Dichlorobenzidine | ND | 40.0 | 37.4 | 93 | 40.0 | 37.3 | 93 | 0 | 20-140 | 30 |
| 3-Nitroaniline | ND | 40.0 | 34.4 | 86 | 40.0 | 34.0 | 85 | 1 | 30-130 | 30 |
| 4,6-Dinitro-2-Methylphenol | ND | 40.0 | 38.3 | 96 | 40.0 | 38.2 | 96 | 0 | 40-130 | 30 |
| 4-Bromophenyl-phenylether | ND | 40.0 | 34.6 | 87 | 40.0 | 35.5 | 89 | 2 | 50-130 | 30 |
| 4-Chloro-3-Methylphenol | ND | 40.0 | 33.4 | 83 | 40.0 | 34.4 | 86 | 3 | 30-130 | 30 |
| 4-Chloroaniline | ND | 40.0 | 28.5 | 71 | 40.0 | 30.5 | 76 | 7 | 30-130 | 30 |
| 4-Chlorophenyl-phenylether | ND | 40.0 | 37.8 | 95 | 40.0 | 38.2 | 95 | 1 | 50-130 | 30 |
| 4-Methylphenol | ND | 40.0 | 30.6 | 77 | 40.0 | 31.1 | 78 | 2 | 30-130 | 30 |
| 4-Nitroaniline | ND | 40.0 | 41.9 | 105 | 40.0 | 41.4 | 104 | 1 | 30-130 | 30 |
| 4-Nitrophenol | ND | 40.0 | 31.3 | 78 | 40.0 | 32.5 | 81 | 4 | 30-130 | 30 |
| Acenaphthene | ND | 40.0 | 35.8 | 90 | 40.0 | 36.9 | 92 | 3 | 40-130 | 30 |
| Acenaphthylene | ND | 40.0 | 36.4 | 91 | 40.0 | 37.7 | 94 | 3 | 40-130 | 30 |
| Anthracene | ND | 40.0 | 37.8 | 94 | 40.0 | 37.8 | 95 | 0 | 50-130 | 30 |
| Benzo(a)anthracene | ND | 40.0 | 39.3 | 98 | 40.0 | 39.0 | 98 | 1 | 50-130 | 30 |
| Benzo(a)pyrene | ND | 40.0 | 38.3 | 96 | 40.0 | 37.5 | 94 | 2 | 50-130 | 30 |
| Benzo(b)fluoranthene | ND | 40.0 | 39.9 | 100 | 40.0 | 41.2 | 103 | 3 | 40-140 | 30 |
| Benzo(k)fluoranthene | ND | 40.0 | 39.8 | 99 | 40.0 | 38.3 | 96 | 4 | 40-130 | 30 |
| Benzo(g,h,i)perylene | ND | 40.0 | 40.2 | 101 | 40.0 | 38.9 | 97 | 3 | 40-130 | 30 |
| bis(2-Chloroethoxy)methane | ND | 40.0 | 33.1 | 83 | 40.0 | 34.9 | 87 | 5 | 40-130 | 30 |
| bis(2-Chloroethyl)ether | ND | 40.0 | 34.5 | 86 | 40.0 | 35.0 | 88 | 2 | 30-130 | 30 |
| bis(2-Chloroisopropyl)ether | ND | 40.0 | 36.0 | 90 | 40.0 | 34.5 | 86 | 4 | 20-130 | 30 |
| bis(2-Ethylhexyl)phthalate | ND | 40.0 | 40.8 | 102 | 40.0 | 41.6 | 104 | 2 | 20-140 | 30 |
| Butylbenzylphthalate | ND | 40.0 | 42.0 | 105 | 40.0 | 41.7 | 104 | 1 | 40-130 | 30 |
| Chrysene | ND | 40.0 | 40.3 | 101 | 40.0 | 40.1 | 100 | 0 | 40-130 | 30 |
| Di-n-butylphthalate | ND | 40.0 | 39.1 | 98 | 40.0 | 38.8 | 97 | 1 | 30-160 | 30 |
| Di-n-octylphthalate | ND | 40.0 | 45.9 | 115 | 40.0 | 41.4 | 104 | 10 | 20-150 | 30 |
| Dibenzo(a,h)anthracene | ND | 40.0 | 40.6 | 102 | 40.0 | 39.6 | 99 | 2 | 40-130 | 30 |
| Dibenzofuran | ND | 40.0 | 35.4 | 89 | 40.0 | 35.5 | 89 | 0 | 40-130 | 30 |
| Diethylphthalate | ND | 40.0 | 37.6 | 94 | 40.0 | 36.9 | 92 | 2 | 30-140 | 30 |
| Dimethylphthalate | ND | 40.0 | 36.3 | 91 | 40.0 | 36.2 | 90 | 0 | 30-130 | 30 |
| Fluoranthene | ND | 40.0 | 41.1 | 103 | 40.0 | 41.2 | 103 | 0 | 40-130 | 30 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 40.0 | 38.5 | 96 | 40.0 | 38.5 | 96 | 0 | 40-130 | 30 |
| Hexachlorobenzene | ND | 40.0 | 34.2 | 86 | 40.0 | 34.8 | 87 | 2 | 30-130 | 30 |
| Hexachlorobutadiene | ND | 40.0 | 29.0 | 72 | 40.0 | 31.6 | 79 | 9 | 10-130 | 30 |
| Hexachlorocyclopentadiene | ND | 40.0 | 12.2J | 31 | 40.0 | 13.8J | 34 | 12 | 10-130 | 30 |
| Hexachloroethane | ND | 40.0 | 29.0 | 73 | 40.0 | 30.0 | 75 | 3 | 20-130 | 30 |
| Indeno(1,2,3-cd)pyrene | ND | 40.0 | 40.5 | 101 | 40.0 | 39.8 | 100 | 2 | 50-130 | 30 |
| Isophorone | ND | 40.0 | 33.3 | 83 | 40.0 | 35.3 | 88 | 6 | 40-130 | 30 |
| n-Nitroso-di-n-propylamine | ND | 40.0 | 26.8 | 67 | 40.0 | 28.4 | 71 | 6 | 30-130 | 30 |
| n-Nitrosodiphenylamine | ND | 40.0 | 28.4 | 71 | 40.0 | 28.3 | 71 | 0 | 10-150 | 30 |
| Naphthalene | ND | 40.0 | 34.4 | 86 | 40.0 | 35.8 | 90 | 4 | 20-130 | 30 |
| Nitrobenzene | ND | 40.0 | 32.1 | 80 | 40.0 | 37.0 | 93 | 14 | 30-130 | 30 |
| Pentachlorophenol | ND | 40.0 | 33.5 | 84 | 40.0 | 33.7 | 84 | 1 | 30-130 | 30 |
| Phenanthrene | ND | 40.0 | 39.2 | 98 | 40.0 | 39.5 | 99 | 1 | 40-130 | 30 |
| Phenol | ND | 40.0 | 31.5 | 79 | 40.0 | 31.1 | 78 | 1 | 20-130 | 30 |
| Pyrene | ND | 40.0 | 38.9 | 97 | 40.0 | 38.9 | 97 | 0 | 40-130 | 30 |
| Benzyl Alcohol | ND | 40.0 | 31.3 | 78 | 40.0 | 32.3 | 81 | 3 | 30-130 | 30 |
| 1-Methylnaphthalene | ND | 40.0 | 34.4 | 86 | 40.0 | 36.5 | 91 | 6 | 40-130 | 30 |
| 1,2-Diphenylhydrazine | ND | 40.0 | 32.3 | 81 | 40.0 | 33.0 | 82 | 2 | 30-130 | 30 |
| 3,5-Dimethylphenol | ND | 40.0 | 29.3 | 73 | 40.0 | 31.8 | 80 | 8 | 20-150 | 30 |
| Aniline | ND | 40.0 | 24.3 | 61 | 40.0 | 24.2 | 60 | 1 | 10-130 | 30 |
| Benzidine | ND | 80.0 | 31.5J | 39 | 80.0 | 37.2J | 47 | 17 | 20-130 | 30 |
| Benzoic Acid | ND | 80.0 | 55.9 | 70 | 80.0 | 52.8 | 66 | 6 | 10-130 | 30 |
| Carbazole | ND | 40.0 | 37.4 | 94 | 40.0 | 37.1 | 93 | 1 | 50-130 | 30 |
| N-Nitrosodimethylamine | ND | 40.0 | 33.5 | 84 | 40.0 | 35.3 | 88 | 5 | 30-150 | 30 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 60.0 | 47.6 | 79 | 60.0 | 48.5 | 81 | 30-130 |
| 2-Fluorobiphenyl | 20.0 | 13.0 | 65 | 20.0 | 14.5 | 73 | 45-130 |
| 2-Fluorophenol | 60.0 | 36.7 | 61 | 60.0 | 37.1 | 62 | 20-130 |
| Nitrobenzene-d5 | 20.0 | 13.1 | 66 | 20.0 | 14.2 | 71 | 40-130 |
| Phenol-d5 | 60.0 | 39.4 | 66 | 60.0 | 40.4 | 67 | 20-120 |
| Terphenyl-d14 | 20.0 | 17.0 | 85 | 20.0 | 17.2 | 86 | 45-135 |

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-054-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 19:46 |
| Lab Samp ID: C229-02 | Dilution Factor: 1 |
| Lab File ID: RDJ024 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 8.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 460 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1110 | 1087 | 102 | 35-130 |
| 2-FLUOROBIPHENYL | 318 | 362.3 | 87.7 | 45-130 |
| 2-FLUOROPHENOL | 860 | 1087 | 79.2 | 25-130 |
| NITROBENZENE-D5 | 273 | 362.3 | 75.4 | 40-130 |
| PHENOL-D5 | 915 | 1087 | 84.2 | 25-120 |
| TERPHENYL-D14 | 381 | 362.3 | 105 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-055-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 20:05 |
| Lab Samp ID: C229-03 | Dilution Factor: 1 |
| Lab File ID: RDJ025 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 9.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 93 |
| 1,2-DICHLOROBENZENE | ND | 180 | 93 |
| 1,3-DICHLOROBENZENE | ND | 180 | 93 |
| 1,4-DICHLOROBENZENE | ND | 180 | 93 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 93 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 93 |
| 2,6-DINITROTOLUENE | ND | 180 | 93 |
| 2-CHLORONAPHTHALENE | ND | 180 | 93 |
| 2-CHLOROPHENOL | ND | 180 | 93 |
| 2-METHYLNAPHTHALENE | ND | 180 | 93 |
| 2-METHYLPHENOL | ND | 180 | 93 |
| 2-NITROANILINE | ND | 180 | 93 |
| 2-NITROPHENOL | ND | 180 | 93 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 93 |
| 3-NITROANILINE | ND | 180 | 93 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 93 |
| 4-CHLOROANILINE | ND | 180 | 93 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-METHYLPHENOL (1) | ND | 180 | 93 |
| 4-NITROANILINE | ND | 180 | 93 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 93 |
| ACENAPHTHYLENE | ND | 180 | 93 |
| ANTHRACENE | ND | 180 | 93 |
| BENZO(A)ANTHRACENE | ND | 180 | 93 |
| BENZO(A)PYRENE | ND | 180 | 93 |
| BENZO(B)FLUORANTHENE | ND | 180 | 93 |
| BENZO(K)FLUORANTHENE | ND | 180 | 93 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 93 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 93 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 93 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 93 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 93 |
| CHRYSENE | ND | 180 | 93 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 93 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 93 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 93 |
| DIBENZOFURAN | ND | 180 | 93 |
| DIETHYLPHTHALATE | ND | 180 | 93 |
| DIMETHYLPHTHALATE | ND | 180 | 93 |
| FLUORANTHENE | ND | 180 | 93 |
| FLUORENE | ND | 180 | 93 |
| HEXACHLOROBENZENE | ND | 180 | 93 |
| HEXACHLOROBUTADIENE | ND | 180 | 93 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 93 |
| HEXACHLOROETHANE | ND | 180 | 93 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 93 |
| ISOPHORONE | ND | 180 | 93 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 93 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 93 |
| NAPHTHALENE | ND | 180 | 93 |
| NITROBENZENE | ND | 180 | 93 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 93 |
| PHENOL | ND | 180 | 93 |
| PYRENE | ND | 180 | 93 |
| BENZYL ALCOHOL | ND | 180 | 93 |
| 1-METHYLNAPHTHALENE | ND | 180 | 93 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 93 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 93 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 920 | 470 |
| BENZOIC ACID | ND | 740 | 370 |
| CARBAZOLE | ND | 180 | 93 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 93 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 809 | 1107 | 73.0 | 35-130 |
| 2-FLUOROBIPHENYL | 227 | 369.1 | 61.6 | 45-130 |
| 2-FLUOROPHENOL | 650 | 1107 | 58.7 | 25-130 |
| NITROBENZENE-D5 | 200 | 369.1 | 54.3 | 40-130 |
| PHENOL-D5 | 653 | 1107 | 59.0 | 25-120 |
| TERPHENYL-D14 | 270 | 369.1 | 73.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-059-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 20:24 |
| Lab Samp ID: C229-04 | Dilution Factor: 1 |
| Lab File ID: RDJ026 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 8.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 460 |
| BENZOIC ACID | ND | 730 | 360 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 976 | 1089 | 89.6 | 35-130 |
| 2-FLUOROBIPHENYL | 293 | 363.1 | 80.7 | 45-130 |
| 2-FLUOROPHENOL | 812 | 1089 | 74.5 | 25-130 |
| NITROBENZENE-D5 | 288 | 363.1 | 79.2 | 40-130 |
| PHENOL-D5 | 840 | 1089 | 77.1 | 25-120 |
| TERPHENYL-D14 | 345 | 363.1 | 95.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-060-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 20:43 |
| Lab Samp ID: C229-05 | Dilution Factor: 1 |
| Lab File ID: RDJ027 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 5.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 89 |
| 1,2-DICHLOROBENZENE | ND | 180 | 89 |
| 1,3-DICHLOROBENZENE | ND | 180 | 89 |
| 1,4-DICHLOROBENZENE | ND | 180 | 89 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 89 |
| 2,4-DINITROPHENOL | ND | 350 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 89 |
| 2,6-DINITROTOLUENE | ND | 180 | 89 |
| 2-CHLORONAPHTHALENE | ND | 180 | 89 |
| 2-CHLOROPHENOL | ND | 180 | 89 |
| 2-METHYLNAPHTHALENE | ND | 180 | 89 |
| 2-METHYLPHENOL | ND | 180 | 89 |
| 2-NITROANILINE | ND | 180 | 89 |
| 2-NITROPHENOL | ND | 180 | 89 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 89 |
| 3-NITROANILINE | ND | 180 | 89 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 89 |
| 4-CHLOROANILINE | ND | 180 | 89 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-METHYLPHENOL (1) | ND | 180 | 89 |
| 4-NITROANILINE | ND | 180 | 89 |
| 4-NITROPHENOL | ND | 350 | 180 |
| ACENAPHTHENE | ND | 180 | 89 |
| ACENAPHTHYLENE | ND | 180 | 89 |
| ANTHRACENE | ND | 180 | 89 |
| BENZO(A)ANTHRACENE | ND | 180 | 89 |
| BENZO(A)PYRENE | ND | 180 | 89 |
| BENZO(B)FLUORANTHENE | ND | 180 | 89 |
| BENZO(K)FLUORANTHENE | ND | 180 | 89 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 89 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 89 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 89 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 89 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 89 |
| CHRYSENE | ND | 180 | 89 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 89 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 89 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 89 |
| DIBENZOFURAN | ND | 180 | 89 |
| DIETHYLPHTHALATE | ND | 180 | 89 |
| DIMETHYLPHTHALATE | ND | 180 | 89 |
| FLUORANTHENE | ND | 180 | 89 |
| FLUORENE | ND | 180 | 89 |
| HEXACHLOROBENZENE | ND | 180 | 89 |
| HEXACHLOROBUTADIENE | ND | 180 | 89 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 89 |
| HEXACHLOROETHANE | ND | 180 | 89 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 89 |
| ISOPHORONE | ND | 180 | 89 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 89 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 89 |
| NAPHTHALENE | ND | 180 | 89 |
| NITROBENZENE | ND | 180 | 89 |
| PENTACHLOROPHENOL | ND | 350 | 180 |
| PHENANTHRENE | ND | 180 | 89 |
| PHENOL | ND | 180 | 89 |
| PYRENE | ND | 180 | 89 |
| BENZYL ALCOHOL | ND | 180 | 89 |
| 1-METHYLNAPHTHALENE | ND | 180 | 89 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 89 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 89 |
| ANILINE | ND | 350 | 180 |
| BENZIDINE | ND | 880 | 440 |
| BENZOIC ACID | ND | 710 | 350 |
| CARBAZOLE | ND | 180 | 89 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 89 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 938 | 1058 | 88.6 | 35-130 |
| 2-FLUOROBIPHENYL | 220 | 352.7 | 62.4 | 45-130 |
| 2-FLUOROPHENOL | 561 | 1058 | 53.0 | 25-130 |
| NITROBENZENE-D5 | 193 | 352.7 | 54.8 | 40-130 |
| PHENOL-D5 | 650 | 1058 | 61.4 | 25-120 |
| TERPHENYL-D14 | 324 | 352.7 | 91.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-061-NBZ-SB-1.0-2.0 | Date Analyzed: 04/02/12 21:01 |
| Lab Samp ID: C229-07 | Dilution Factor: 1 |
| Lab File ID: RDJ028 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 4.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 88 |
| 1,2-DICHLOROBENZENE | ND | 180 | 88 |
| 1,3-DICHLOROBENZENE | ND | 180 | 88 |
| 1,4-DICHLOROBENZENE | ND | 180 | 88 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 88 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 88 |
| 2,4-DICHLOROPHENOL | ND | 180 | 88 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 88 |
| 2,4-DINITROPHENOL | ND | 350 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 88 |
| 2,6-DINITROTOLUENE | ND | 180 | 88 |
| 2-CHLORONAPHTHALENE | ND | 180 | 88 |
| 2-CHLOROPHENOL | ND | 180 | 88 |
| 2-METHYLNAPHTHALENE | ND | 180 | 88 |
| 2-METHYLPHENOL | ND | 180 | 88 |
| 2-NITROANILINE | ND | 180 | 88 |
| 2-NITROPHENOL | ND | 180 | 88 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 88 |
| 3-NITROANILINE | ND | 180 | 88 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 88 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 88 |
| 4-CHLOROANILINE | ND | 180 | 88 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 88 |
| 4-METHYLPHENOL (1) | ND | 180 | 88 |
| 4-NITROANILINE | ND | 180 | 88 |
| 4-NITROPHENOL | ND | 350 | 180 |
| ACENAPHTHENE | ND | 180 | 88 |
| ACENAPHTHYLENE | ND | 180 | 88 |
| ANTHRACENE | ND | 180 | 88 |
| BENZO(A)ANTHRACENE | ND | 180 | 88 |
| BENZO(A)PYRENE | ND | 180 | 88 |
| BENZO(B)FLUORANTHENE | ND | 180 | 88 |
| BENZO(K)FLUORANTHENE | ND | 180 | 88 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 88 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 88 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 88 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 88 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 88 |
| CHRYSENE | ND | 180 | 88 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 88 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 88 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 88 |
| DIBENZOFURAN | ND | 180 | 88 |
| DIETHYLPHTHALATE | ND | 180 | 88 |
| DIMETHYLPHTHALATE | ND | 180 | 88 |
| FLUORANTHENE | ND | 180 | 88 |
| FLUORENE | ND | 180 | 88 |
| HEXACHLOROBENZENE | ND | 180 | 88 |
| HEXACHLOROBUTADIENE | ND | 180 | 88 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 88 |
| HEXACHLOROETHANE | ND | 180 | 88 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 88 |
| ISOPHORONE | ND | 180 | 88 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 88 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 88 |
| NAPHTHALENE | ND | 180 | 88 |
| NITROBENZENE | ND | 180 | 88 |
| PENTACHLOROPHENOL | ND | 350 | 180 |
| PHENANTHRENE | ND | 180 | 88 |
| PHENOL | ND | 180 | 88 |
| PYRENE | ND | 180 | 88 |
| BENZYL ALCOHOL | ND | 180 | 88 |
| 1-METHYLNAPHTHALENE | ND | 180 | 88 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 88 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 88 |
| ANILINE | ND | 350 | 180 |
| BENZIDINE | ND | 870 | 440 |
| BENZOIC ACID | ND | 700 | 350 |
| CARBAZOLE | ND | 180 | 88 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 88 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 980 | 1050 | 93.3 | 35-130 |
| 2-FLUOROBIPHENYL | 300 | 350.1 | 85.8 | 45-130 |
| 2-FLUOROPHENOL | 842 | 1050 | 80.1 | 25-130 |
| NITROBENZENE-D5 | 280 | 350.1 | 79.9 | 40-130 |
| PHENOL-D5 | 880 | 1050 | 83.7 | 25-120 |
| TERPHENYL-D14 | 366 | 350.1 | 104 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-116-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 21:20 |
| Lab Samp ID: C229-08 | Dilution Factor: 1 |
| Lab File ID: RDJ029 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 10.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 750 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1030 | 1119 | 92.0 | 35-130 |
| 2-FLUOROBIPHENYL | 304 | 372.8 | 81.5 | 45-130 |
| 2-FLUOROPHENOL | 868 | 1119 | 77.6 | 25-130 |
| NITROBENZENE-D5 | 276 | 372.8 | 74.1 | 40-130 |
| PHENOL-D5 | 893 | 1119 | 79.8 | 25-120 |
| TERPHENYL-D14 | 351 | 372.8 | 94.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/31/12 |
| Batch No. : 12C229 | Date Extracted: 03/31/12 16:01 |
| Sample ID: MBLK1S | Date Analyzed: 04/02/12 15:33 |
| Lab Samp ID: SVC048SB | Dilution Factor: 1 |
| Lab File ID: RDJ012 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 852 | 1000 | 85.2 | 35-130 |
| 2-FLUOROBIPHENYL | 279 | 333.3 | 83.6 | 45-130 |
| 2-FLUOROPHENOL | 790 | 1000 | 79.0 | 25-130 |
| NITROBENZENE-D5 | 263 | 333.3 | 78.8 | 40-130 |
| PHENOL-D5 | 826 | 1000 | 82.6 | 25-120 |
| TERPHENYL-D14 | 327 | 333.3 | 98.0 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVC048SB SVC048SL SVC048SC
LAB FILE ID: RDJ012 RDJ015 RDJ016
DATE EXTRACTED: 03/31/1216:01 03/31/1216:01 03/31/1216:01 DATE COLLECTED: NA
DATE ANALYZED: 04/02/1215:33 04/02/1216:29 04/02/1216:48 DATE RECEIVED: 03/31/12
PREP. BATCH: SVC048S SVC048S SVC048S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 470 | 70 | 667 | 450 | 67 | 4 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 475 | 71 | 667 | 454 | 68 | 5 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 468 | 70 | 667 | 452 | 68 | 3 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 462 | 69 | 667 | 446 | 67 | 3 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 482 | 72 | 667 | 453 | 68 | 6 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 533 | 80 | 667 | 510 | 77 | 4 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 539 | 81 | 667 | 515 | 77 | 5 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 527 | 79 | 667 | 497 | 75 | 6 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 480 | 72 | 667 | 389 | 58 | 21 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 630 | 94 | 667 | 563 | 84 | 11 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 580 | 87 | 667 | 545 | 82 | 6 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 503 | 75 | 667 | 525 | 79 | 4 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 539 | 81 | 667 | 489 | 73 | 10 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 577 | 86 | 667 | 610 | 92 | 6 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 531 | 80 | 667 | 452 | 68 | 16 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 510 | 77 | 667 | 492 | 74 | 4 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 554 | 83 | 667 | 535 | 80 | 3 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 586 | 88 | 667 | 459 | 69 | 24 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 503 | 75 | 667 | 463 | 69 | 8 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 624 | 94 | 667 | 525 | 79 | 17 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 552 | 83 | 667 | 534 | 80 | 3 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 523 | 78 | 667 | 491 | 74 | 6 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 458 | 69 | 667 | 426 | 64 | 7 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 584 | 88 | 667 | 561 | 84 | 4 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 484 | 73 | 667 | 512 | 77 | 6 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 593 | 89 | 667 | 514 | 77 | 14 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 397 | 60 | 667 | 325J | 49 | 20 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 565 | 85 | 667 | 551 | 83 | 3 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 580 | 87 | 667 | 557 | 84 | 4 | 30-130 | 50 |
| Anthracene | ND | 667 | 605 | 91 | 667 | 540 | 81 | 11 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 666 | 100 | 667 | 554 | 83 | 18 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 641 | 96 | 667 | 532 | 80 | 18 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 687 | 103 | 667 | 581 | 87 | 17 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 690 | 104 | 667 | 588 | 88 | 16 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 687 | 103 | 667 | 566 | 85 | 19 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 559 | 84 | 667 | 536 | 80 | 4 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 540 | 81 | 667 | 518 | 78 | 4 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 593 | 89 | 667 | 522 | 78 | 13 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 680 | 102 | 667 | 565 | 85 | 18 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 677 | 102 | 667 | 570 | 86 | 17 | 40-150 | 50 |
| Chrysene | ND | 667 | 695 | 104 | 667 | 581 | 87 | 18 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 638 | 96 | 667 | 541 | 81 | 17 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 671 | 101 | 667 | 558 | 84 | 18 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 679 | 102 | 667 | 571 | 86 | 17 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 543 | 81 | 667 | 522 | 78 | 4 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 581 | 87 | 667 | 526 | 79 | 10 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 557 | 83 | 667 | 527 | 79 | 6 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 669 | 100 | 667 | 578 | 87 | 15 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 582 | 87 | 667 | 563 | 84 | 3 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 567 | 85 | 667 | 528 | 79 | 7 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 500 | 75 | 667 | 469 | 70 | 6 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 292 | 44 | 667 | 270 | 40 | 8 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 474 | 71 | 667 | 450 | 68 | 5 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 687 | 103 | 667 | 563 | 84 | 20 | 30-140 | 50 |
| Isophorone | ND | 667 | 575 | 86 | 667 | 558 | 84 | 3 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 438 | 66 | 667 | 425 | 64 | 3 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 452 | 68 | 667 | 412 | 62 | 9 | 30-140 | 50 |
| Naphthalene | ND | 667 | 559 | 84 | 667 | 536 | 80 | 4 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 567 | 85 | 667 | 539 | 81 | 5 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 508 | 76 | 667 | 427 | 64 | 17 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 633 | 95 | 667 | 574 | 86 | 10 | 30-130 | 50 |
| Phenol | ND | 667 | 507 | 76 | 667 | 493 | 74 | 3 | 30-130 | 50 |
| Pyrene | ND | 667 | 662 | 99 | 667 | 567 | 85 | 15 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 488 | 73 | 667 | 461 | 69 | 6 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 582 | 87 | 667 | 560 | 84 | 4 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 516 | 77 | 667 | 489 | 73 | 5 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 555 | 83 | 667 | 527 | 79 | 5 | 20-150 | 50 |
| Aniline | ND | 667 | 375 | 56 | 667 | 335 | 50 | 11 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1130 | 42 | 2670 | 938 | 35 | 19 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 877 | 33 | 2670 | 730 | 27 | 18 | 10-130 | 50 |
| Carbazole | ND | 667 | 590 | 89 | 667 | 513 | 77 | 14 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 566 | 85 | 667 | 497 | 75 | 13 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 800 | 80 | 1000 | 733 | 73 | 35-130 |
| 2-Fluorobiphenyl | 333 | 236 | 71 | 333 | 226 | 68 | 45-130 |
| 2-Fluorophenol | 1000 | 670 | 67 | 1000 | 634 | 63 | 25-130 |
| Nitrobenzene-d5 | 333 | 226 | 68 | 333 | 222 | 66 | 40-130 |
| Phenol-d5 | 1000 | 696 | 70 | 1000 | 673 | 67 | 25-120 |
| Terphenyl-d14 | 333 | 308 | 92 | 333 | 268 | 80 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-054-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 19:46 |
| Lab Samp ID: C229-02 | Dilution Factor: 1 |
| Lab File ID: RDJ024 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 8.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | 1.5J | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | 13 | 1.8 | 0.92 |
| BENZO(A)PYRENE | 19 | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | 22 | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | 4.9 | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | 16 | 1.8 | 0.92 |
| CHRYSENE | 20 | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | 20 | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | 9.6 | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | 5.3 | 1.8 | 0.92 |
| PYRENE | 20 | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 27 | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | 23 | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | 11J | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 274 | 362.3 | 75.7 | 40-130 |
| 2-FLUOROBIPHENYL | 275 | 362.3 | 76.0 | 45-130 |
| TERPHENYL-D14 | 359 | 362.3 | 99.0 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-055-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 20:05 |
| Lab Samp ID: C229-03 | Dilution Factor: 1 |
| Lab File ID: RDJ025 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 9.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.94 |
| ACENAPHTHYLENE | ND | 1.9 | 0.94 |
| ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)PYRENE | 1.4J | 1.9 | 0.94 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.94 |
| CHRYSENE | 1.4J | 1.9 | 0.94 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.94 |
| FLUORANTHENE | 2.6 | 1.9 | 0.94 |
| FLUORENE | ND | 1.9 | 0.94 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.94 |
| NAPHTHALENE | ND | 1.9 | 0.94 |
| PHENANTHRENE | ND | 1.9 | 0.94 |
| PYRENE | 2.5 | 1.9 | 0.94 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 9.3 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.3 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.3 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.3 |
| DIETHYLPHTHALATE | ND | 18 | 9.3 |
| DIMETHYLPHTHALATE | ND | 18 | 9.3 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.94 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 224 | 369.1 | 60.7 | 40-130 |
| 2-FLUOROBIPHENYL | 209 | 369.1 | 56.6 | 45-130 |
| TERPHENYL-D14 | 255 | 369.1 | 69.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-059-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 20:24 |
| Lab Samp ID: C229-04 | Dilution Factor: 1 |
| Lab File ID: RDJ026 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 8.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)PYRENE | ND | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | 1.7J | 1.9 | 0.93 |
| CHRYSENE | ND | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | 1.9 | 1.9 | 0.93 |
| FLUORENE | ND | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | ND | 1.9 | 0.93 |
| PYRENE | 1.8J | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 25 | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 288 | 363.1 | 79.4 | 40-130 |
| 2-FLUOROBIPHENYL | 269 | 363.1 | 74.0 | 45-130 |
| TERPHENYL-D14 | 326 | 363.1 | 89.7 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-060-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 20:43 |
| Lab Samp ID: C229-05 | Dilution Factor: 1 |
| Lab File ID: RDJ027 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 5.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.90 |
| ACENAPHTHYLENE | ND | 1.8 | 0.90 |
| ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)ANTHRACENE | 5.6 | 1.8 | 0.90 |
| BENZO(A)PYRENE | 6.7 | 1.8 | 0.90 |
| BENZO(B)FLUORANTHENE | 7.6 | 1.8 | 0.90 |
| BENZO(K)FLUORANTHENE | 3.3 | 1.8 | 0.90 |
| BENZO(G,H,I)PERYLENE | 4.9 | 1.8 | 0.90 |
| CHRYSENE | 5.8 | 1.8 | 0.90 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.90 |
| FLUORANTHENE | 9.9 | 1.8 | 0.90 |
| FLUORENE | ND | 1.8 | 0.90 |
| INDENO(1,2,3-CD)PYRENE | 4.8 | 1.8 | 0.90 |
| NAPHTHALENE | ND | 1.8 | 0.90 |
| PHENANTHRENE | 2.1 | 1.8 | 0.90 |
| PYRENE | 8.2 | 1.8 | 0.90 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 21 | 18 | 8.9 |
| BUTYLBENZYLPHTHALATE | 41 | 18 | 8.9 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 8.9 |
| DIETHYLPHTHALATE | ND | 18 | 8.9 |
| DIMETHYLPHTHALATE | ND | 18 | 8.9 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.90 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 182 | 352.7 | 51.7 | 40-130 |
| 2-FLUOROBIPHENYL | 209 | 352.7 | 59.3 | 45-130 |
| TERPHENYL-D14 | 315 | 352.7 | 89.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-061-NBZ-SB-1.0-2.0 | Date Analyzed: 04/02/12 21:01 |
| Lab Samp ID: C229-07 | Dilution Factor: 1 |
| Lab File ID: RDJ028 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 4.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.89 |
| ACENAPHTHYLENE | ND | 1.8 | 0.89 |
| ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)PYRENE | ND | 1.8 | 0.89 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.89 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.89 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.89 |
| CHRYSENE | ND | 1.8 | 0.89 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.89 |
| FLUORANTHENE | ND | 1.8 | 0.89 |
| FLUORENE | ND | 1.8 | 0.89 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.89 |
| NAPHTHALENE | ND | 1.8 | 0.89 |
| PHENANTHRENE | ND | 1.8 | 0.89 |
| PYRENE | ND | 1.8 | 0.89 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 8.8 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 8.8 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 8.8 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 8.8 |
| DIETHYLPHTHALATE | ND | 18 | 8.8 |
| DIMETHYLPHTHALATE | ND | 18 | 8.8 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.89 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 313 | 350.1 | 89.3 | 40-130 |
| 2-FLUOROBIPHENYL | 291 | 350.1 | 83.0 | 45-130 |
| TERPHENYL-D14 | 328 | 350.1 | 93.8 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-116-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 21:20 |
| Lab Samp ID: C229-08 | Dilution Factor: 1 |
| Lab File ID: RDJ029 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 10.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)PYRENE | ND | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.95 |
| CHRYSENE | ND | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | ND | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.95 |
| NAPHTHALENE | ND | 1.9 | 0.95 |
| PHENANTHRENE | ND | 1.9 | 0.95 |
| PYRENE | ND | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 310 | 372.8 | 83.2 | 40-130 |
| 2-FLUOROBIPHENYL | 284 | 372.8 | 76.1 | 45-130 |
| TERPHENYL-D14 | 343 | 372.8 | 92.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/31/12 |
| Batch No. : 12C229 | Date Extracted: 03/31/12 16:01 |
| Sample ID: MBLK1S | Date Analyzed: 04/02/12 15:33 |
| Lab Samp ID: SVC048SB | Dilution Factor: 1 |
| Lab File ID: RDJ012 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 286 | 333.3 | 85.9 | 40-130 |
| 2-FLUOROBIPHENYL | 274 | 333.3 | 82.1 | 45-130 |
| TERPHENYL-D14 | 332 | 333.3 | 99.7 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVC048SB | SVC048SX | SVC048SY | | |
| LAB FILE ID: | RDJ012 | RDJ017 | RDJ018 | | |
| DATE EXTRACTED: | 03/31/1216:01 | 03/31/1216:01 | 03/31/1216:01 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/02/1215:33 | 04/02/1217:07 | 04/02/1217:25 | DATE RECEIVED: | 03/31/12 |
| PREP. BATCH: | SVC048S | SVC048S | SVC048S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 282 | 84 | 333 | 258 | 77 | 9 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 305 | 92 | 333 | 279 | 84 | 9 | 20-130 | 50 |
| Anthracene | ND | 333 | 295 | 88 | 333 | 266 | 80 | 10 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 314 | 94 | 333 | 297 | 89 | 6 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 327 | 98 | 333 | 286 | 86 | 13 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 348 | 104 | 333 | 310 | 93 | 12 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 352 | 105 | 333 | 316 | 95 | 11 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 342 | 103 | 333 | 312 | 94 | 9 | 30-140 | 50 |
| Chrysene | ND | 333 | 304 | 91 | 333 | 288 | 86 | 5 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 353 | 106 | 333 | 321 | 96 | 9 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 329 | 99 | 333 | 304 | 91 | 8 | 30-130 | 50 |
| Fluorene | ND | 333 | 302 | 91 | 333 | 277 | 83 | 9 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 353 | 106 | 333 | 321 | 96 | 9 | 20-160 | 50 |
| Naphthalene | ND | 333 | 266 | 80 | 333 | 246 | 74 | 8 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 298 | 89 | 333 | 271 | 81 | 9 | 20-130 | 50 |
| Pyrene | ND | 333 | 313 | 94 | 333 | 291 | 87 | 7 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 285 | 85 | 333 | 265 | 79 | 7 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 284 | 85 | 333 | 264 | 79 | 7 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 300 | 90 | 333 | 284 | 85 | 6 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 289 | 87 | 333 | 270 | 81 | 7 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 297 | 89 | 333 | 273 | 82 | 9 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 291 | 87 | 333 | 260 | 78 | 11 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 298 | 89 | 333 | 271 | 81 | 9 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 288 | 87 | 333 | 262 | 79 | 10 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 257 | 77 | 333 | 238 | 71 | 8 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 256 | 77 | 333 | 248 | 75 | 40-130 |
| 2-Fluorobiphenyl | 333 | 236 | 71 | 333 | 229 | 69 | 45-130 |
| Terphenyl-d14 | 333 | 303 | 91 | 333 | 292 | 88 | 45-135 |

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/26/12 15:40 |
| Sample ID: EB-NBZ-SB-032212 | Date Analyzed: 03/26/12 15:40 |
| Lab Samp ID: C229-01 | Dilution Factor: 1 |
| Lab File ID: EC26009A | Matrix : WATER |
| Ext Btch ID: VA39C13 | % Moisture : NA |
| Calib. Ref.: EC26002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 11J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 36.0 | 40.00 | 89.9 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/26/12 16:21 |
| Sample ID: TB-032212 | Date Analyzed: 03/26/12 16:21 |
| Lab Samp ID: C229-09 | Dilution Factor: 1 |
| Lab File ID: EC26010A | Matrix : WATER |
| Ext Btch ID: VA39C13 | % Moisture : NA |
| Calib. Ref.: EC26002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 18J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 35.8 | 40.00 | 89.5 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C229 | Date Extracted: 03/26/12 12:52 |
| Sample ID: MBLK1W | Date Analyzed: 03/26/12 12:52 |
| Lab Samp ID: VA39C13B | Dilution Factor: 1 |
| Lab File ID: EC26005A | Matrix : WATER |
| Ext Btch ID: VA39C13 | % Moisture : NA |
| Calib. Ref.: EC26002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 34.4 | 40.00 | 85.9 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 5030B/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VA39C13B | VA39C13L | VA39C13C | | |
| LAB FILE ID: | EC26005A | EC26006A | EC26007A | | |
| DATE EXTRACTED: | 03/26/1212:52 | 03/26/1213:34 | 03/26/1214:16 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/26/1212:52 | 03/26/1213:34 | 03/26/1214:16 | DATE RECEIVED: | 03/26/12 |
| PREP. BATCH: | VA39C13 | VA39C13 | VA39C13 | | |
| CALIB. REF: | EC26002A | EC26002A | EC26002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 500 | 469 | 94 | 500 | 545 | 109 | 15 | 60-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 40.0 | 40.4 | 101 | 40.0 | 44.9 | 112 | 60-130 |

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/25/12 12:47 |
| Sample ID: SL-061-NBZ-SB-1.5 | Date Analyzed: 03/25/12 12:47 |
| Lab Samp ID: C229-06 | Dilution Factor: 1.11 |
| Lab File ID: EC22101A | Matrix : SOIL |
| Ext Btch ID: GMC021S | % Moisture : 4.4 |
| Calib. Ref.: EC22093A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.2 | 0.58 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.95 | 2.322 | 84.0 | 60-130 |

RL : Reporting Limit

Methanol Extraction Date: 03/23/12 13:46

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/25/12 |
| Batch No. : 12C229 | Date Extracted: 03/25/12 10:41 |
| Sample ID: MBLK1S | Date Analyzed: 03/25/12 10:41 |
| Lab Samp ID: GMC021SB | Dilution Factor: 1 |
| Lab File ID: EC22098A | Matrix : SOIL |
| Ext Btch ID: GMC021S | % Moisture : NA |
| Calib. Ref.: EC22093A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.72 | 2.000 | 85.8 | 60-130 |

RL : Reporting Limit

Methanol Extraction Date: 03/23/12 13:46

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 5035/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | GMC021SB | GMC021SL | GMC021SC | | |
| LAB FILE ID: | EC22098A | EC22099A | EC22100A | | |
| DATE EXTRACTED: | 03/25/1210:41 | 03/25/1211:23 | 03/25/1212:05 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/25/1210:41 | 03/25/1211:23 | 03/25/1212:05 | DATE RECEIVED: | 03/25/12 |
| PREP. BATCH: | GMC021S | GMC021S | GMC021S | | |
| CALIB. REF: | EC22093A | EC22093A | EC22093A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 25.0 | 23.1 | 92 | 25.0 | 23.1 | 92 | 0 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 2.00 | 1.99 | 100 | 2.00 | 1.98 | 99 | 60-130 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/28/12 11:59 |
| Sample ID: EB-NBZ-SB-032212 | Date Analyzed: 03/28/12 11:59 |
| Lab Samp ID: C229-01 | Dilution Factor: 1 |
| Lab File ID: BC28006A | Matrix : WATER |
| Ext Btch ID: MEC004W | % Moisture : NA |
| Calib. Ref.: BC28002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C229 | Date Extracted: 03/28/12 10:45 |
| Sample ID: MBLK1W | Date Analyzed: 03/28/12 10:45 |
| Lab Samp ID: MEC004WB | Dilution Factor: 1 |
| Lab File ID: BC28003A | Matrix : WATER |
| Ext Btch ID: MEC004W | % Moisture : NA |
| Calib. Ref.: BC28002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | MEC004WB | MEC004WL | MEC004WC | | |
| LAB FILE ID: | BC28003A | BC28004A | BC28005A | | |
| DATE EXTRACTED: | 03/28/1210:45 | 03/28/1211:20 | 03/28/1211:39 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/28/1210:45 | 03/28/1211:20 | 03/28/1211:39 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | MEC004W | MEC004W | MEC004W | | |
| CALIB. REF: | BC28002A | BC28002A | BC28002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 8320 | 83 | 10000 | 9480 | 95 | 13 | 50-150 | 30 |
| Isopropanol | ND | 10000 | 8390 | 84 | 10000 | 8450 | 84 | 1 | 50-150 | 30 |
| Methanol | ND | 10000 | 10600 | 106 | 10000 | 9960 | 100 | 6 | 50-150 | 30 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/26/12 14:00 |
| Sample ID: SL-054-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 09:30 |
| Lab Samp ID: C229-02 | Dilution Factor: 1 |
| Lab File ID: BC27006A | Matrix : SOIL |
| Ext Btch ID: MEC007S | % Moisture : 8.0 |
| Calib. Ref.: BC27002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 540 | 270 |
| ISOPROPANOL | ND | 540 | 270 |
| METHANOL | ND | 540 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/26/12 14:00 |
| Sample ID: SL-055-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 09:48 |
| Lab Samp ID: C229-03 | Dilution Factor: 1 |
| Lab File ID: BC27007A | Matrix : SOIL |
| Ext Btch ID: MEC007S | % Moisture : 9.7 |
| Calib. Ref.: BC27002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 550 | 280 |
| ISOPROPANOL | ND | 550 | 280 |
| METHANOL | ND | 550 | 280 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/26/12 14:00 |
| Sample ID: SL-059-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 10:04 |
| Lab Samp ID: C229-04 | Dilution Factor: 1 |
| Lab File ID: BC27008A | Matrix : SOIL |
| Ext Btch ID: MEC007S | % Moisture : 8.2 |
| Calib. Ref.: BC27002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 540 | 270 |
| ISOPROPANOL | ND | 540 | 270 |
| METHANOL | ND | 540 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/26/12 14:00 |
| Sample ID: SL-060-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 10:24 |
| Lab Samp ID: C229-05 | Dilution Factor: 1 |
| Lab File ID: BC27009A | Matrix : SOIL |
| Ext Btch ID: MEC007S | % Moisture : 5.5 |
| Calib. Ref.: BC27002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 530 | 260 |
| ISOPROPANOL | ND | 530 | 260 |
| METHANOL | ND | 530 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/26/12 14:00 |
| Sample ID: SL-061-NBZ-SB-1.0-2.0 | Date Analyzed: 03/27/12 10:55 |
| Lab Samp ID: C229-07 | Dilution Factor: 1 |
| Lab File ID: BC27010A | Matrix : SOIL |
| Ext Btch ID: MEC007S | % Moisture : 4.8 |
| Calib. Ref.: BC27002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 530 | 260 |
| ISOPROPANOL | ND | 530 | 260 |
| METHANOL | ND | 530 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C229 | Date Extracted: 03/26/12 14:00 |
| Sample ID: MBLK1S | Date Analyzed: 03/27/12 08:08 |
| Lab Samp ID: MEC007SB | Dilution Factor: 1 |
| Lab File ID: BC27003A | Matrix : SOIL |
| Ext Btch ID: MEC007S | % Moisture : NA |
| Calib. Ref.: BC27002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 500 | 250 |
| ISOPROPANOL | ND | 500 | 250 |
| METHANOL | ND | 500 | 250 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | MEC007SB | MEC007SL | MEC007SC | | |
| LAB FILE ID: | BC27003A | BC27004A | BC27005A | | |
| DATE EXTRACTED: | 03/26/1214:00 | 03/26/1214:00 | 03/26/1214:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/27/1208:08 | 03/27/1208:52 | 03/27/1209:12 | DATE RECEIVED: | 03/26/12 |
| PREP. BATCH: | MEC007S | MEC007S | MEC007S | | |
| CALIB. REF: | BC27002A | BC27002A | BC27002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 8640 | 86 | 10000 | 9480 | 95 | 9 | 50-150 | 50 |
| Isopropanol | ND | 10000 | 8720 | 87 | 10000 | 9750 | 98 | 11 | 50-150 | 50 |
| Methanol | ND | 10000 | 10600 | 106 | 10000 | 11300 | 113 | 6 | 50-150 | 50 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/28/12 13:08 |
| Sample ID: EB-NBZ-SB-032212 | Date Analyzed: 03/28/12 13:08 |
| Lab Samp ID: C229-01 | Dilution Factor: 1 |
| Lab File ID: TC28009A | Matrix : WATER |
| Ext Btch ID: PEC007W | % Moisture : NA |
| Calib. Ref.: TC28004A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/23/12 12:00 |
| Sample ID: SL-054-NBZ-SS-0.0-0.5 | Date Analyzed: 03/26/12 12:08 |
| Lab Samp ID: C229-02 | Dilution Factor: 1 |
| Lab File ID: TC26007A | Matrix : SOIL |
| Ext Btch ID: PEC006S | % Moisture : 8.0 |
| Calib. Ref.: TC26003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.2 |
| ETHYLENE GLYCOL | ND | 11 | 5.4 |
| PROPYLENE GLYCOL | ND | 11 | 5.4 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/23/12 12:00 |
| Sample ID: SL-055-NBZ-SS-0.0-0.5 | Date Analyzed: 03/26/12 12:21 |
| Lab Samp ID: C229-03 | Dilution Factor: 1 |
| Lab File ID: TC26008A | Matrix : SOIL |
| Ext Btch ID: PEC006S | % Moisture : 9.7 |
| Calib. Ref.: TC26003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 17 | 8.3 |
| ETHYLENE GLYCOL | ND | 11 | 5.5 |
| PROPYLENE GLYCOL | ND | 11 | 5.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/23/12 12:00 |
| Sample ID: SL-059-NBZ-SS-0.0-0.5 | Date Analyzed: 03/26/12 12:35 |
| Lab Samp ID: C229-04 | Dilution Factor: 1 |
| Lab File ID: TC26009A | Matrix : SOIL |
| Ext Btch ID: PEC006S | % Moisture : 8.2 |
| Calib. Ref.: TC26003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.2 |
| ETHYLENE GLYCOL | ND | 11 | 5.4 |
| PROPYLENE GLYCOL | ND | 11 | 5.4 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/22/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C229 | Date Extracted | : 03/23/12 12:00 |
| Sample ID | : SL-060-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/26/12 12:49 |
| Lab Samp ID | : C229-05 | Dilution Factor | : 1 |
| Lab File ID | : TC26010A | Matrix | : SOIL |
| Ext Btch ID | : PEC006S | % Moisture | : 5.5 |
| Calib. Ref. | : TC26003A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.9 |
| ETHYLENE GLYCOL | ND | 11 | 5.3 |
| PROPYLENE GLYCOL | ND | 11 | 5.3 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/23/12 12:00 |
| Sample ID: SL-061-NBZ-SB-1.0-2.0 | Date Analyzed: 03/26/12 13:02 |
| Lab Samp ID: C229-07 | Dilution Factor: 1 |
| Lab File ID: TC26011A | Matrix : SOIL |
| Ext Btch ID: PEC006S | % Moisture : 4.8 |
| Calib. Ref.: TC26003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.9 |
| ETHYLENE GLYCOL | ND | 11 | 5.3 |
| PROPYLENE GLYCOL | ND | 11 | 5.3 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C229 | Date Extracted: 03/23/12 12:00 |
| Sample ID: MBLK1S | Date Analyzed: 03/26/12 13:16 |
| Lab Samp ID: PEC006SQ | Dilution Factor: 1 |
| Lab File ID: TC26012A | Matrix : SOIL |
| Ext Btch ID: PEC006S | % Moisture : NA |
| Calib. Ref.: TC26003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.5 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 5.0 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C229 | Date Extracted: 03/28/12 12:55 |
| Sample ID: MBLK1W | Date Analyzed: 03/28/12 12:55 |
| Lab Samp ID: PEC007WQ | Dilution Factor: 1 |
| Lab File ID: TC28008A | Matrix : WATER |
| Ext Btch ID: PEC007W | % Moisture : NA |
| Calib. Ref.: TC28004A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PEC006SQ | PEC006SX | PEC006SY | | |
| LAB FILE ID: | TC26012A | TC26004A | TC26005A | | |
| DATE EXTRACTED: | 03/23/1212:00 | 03/23/1212:00 | 03/23/1212:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/26/1213:16 | 03/26/1210:56 | 03/26/1211:08 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | PEC006S | PEC006S | PEC006S | | |
| CALIB. REF: | TC26003A | TC26003A | TC26003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 46.7 | 93 | 50.0 | 56.2 | 112 | 19 | 50-150 | 50 |
| Ethylene Glycol | ND | 50.0 | 48.7 | 97 | 50.0 | 51.3 | 103 | 5 | 50-150 | 50 |
| Propylene Glycol | ND | 25.0 | 24.8 | 99 | 25.0 | 25.2 | 101 | 1 | 50-150 | 50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | PEC007WQ | PEC007WL | PEC007WC | | |
| LAB FILE ID: | TC28008A | TC28005A | TC28006A | | |
| DATE EXTRACTED: | 03/28/1212:55 | 03/28/1211:18 | 03/28/1211:36 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/28/1212:55 | 03/28/1211:18 | 03/28/1211:36 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | PEC007W | PEC007W | PEC007W | | |
| CALIB. REF: | TC28004A | TC28004A | TC28004A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 45.4 | 91 | 50.0 | 35.7 | 71 | 24 | 50-150 | 30 |
| Ethylene Glycol | ND | 50.0 | 49.0 | 98 | 50.0 | 43.9 | 88 | 11 | 50-150 | 30 |
| Propylene Glycol | ND | 25.0 | 25.2 | 101 | 25.0 | 23.4 | 94 | 7 | 50-150 | 30 |

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/26/12 13:00 |
| Sample ID: EB-NBZ-SB-032212 | Date Analyzed: 03/27/12 19:44 |
| Lab Samp ID: C229-01 | Dilution Factor: 1.03 |
| Lab File ID: LC27018A | Matrix : WATER |
| Ext Btch ID: DSC030W | % Moisture : NA |
| Calib. Ref.: LC27015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.52 | 0.10 |
| EFH(C12-C14) | ND | 0.52 | 0.10 |
| EFH(C15-C20) | ND | 0.52 | 0.10 |
| EFH(C21-C30) | ND | 0.52 | 0.10 |
| EFH(C30-C40) | ND | 0.52 | 0.10 |
| TOTAL EFH(C8-C40) | ND | 0.52 | 0.10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.850 | 1.030 | 82.5 | 40-130 |
| HEXACOSANE | 0.232 | 0.2575 | 90.3 | 40-150 |

RL : Reporting Limit

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C229 | Date Extracted: 03/26/12 13:00 |
| Sample ID: MBLK1W | Date Analyzed: 03/27/12 17:12 |
| Lab Samp ID: DSC030WB | Dilution Factor: 1 |
| Lab File ID: LC27009A | Matrix : WATER |
| Ext Btch ID: DSC030W | % Moisture : NA |
| Calib. Ref.: LC27003A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.50 | 0.10 |
| EFH(C12-C14) | ND | 0.50 | 0.10 |
| EFH(C15-C20) | ND | 0.50 | 0.10 |
| EFH(C21-C30) | ND | 0.50 | 0.10 |
| EFH(C30-C40) | ND | 0.50 | 0.10 |
| TOTAL EFH(C8-C40) | ND | 0.50 | 0.10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.821 | 1.000 | 82.1 | 40-130 |
| HEXACOSANE | 0.225 | 0.2500 | 89.8 | 40-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 3520C/8015B EFH

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | DSC030WB | DSC030WL | DSC030WC | | |
| LAB FILE ID: | LC27009A | LC27007A | LC27008A | | |
| DATE EXTRACTED: | 03/26/1213:00 | 03/26/1213:00 | 03/26/1213:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/27/1217:12 | 03/27/1216:38 | 03/27/1216:55 | DATE RECEIVED: | 03/26/12 |
| PREP. BATCH: | DSC030W | DSC030W | DSC030W | | |
| CALIB. REF: | LC27003A | LC27003A | LC27003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 5.00 | 5.73 | 115 | 5.00 | 5.31 | 106 | 8 | 20-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 1.00 | 0.870 | 87 | 1.00 | 0.876 | 88 | 40-130 |
| Hexacosane | 0.250 | 0.234 | 93 | 0.250 | 0.231 | 92 | 40-150 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/29/12 16:35 |
| Sample ID: SL-054-NBZ-SS-0.0-0.5 | Date Analyzed: 03/30/12 14:05 |
| Lab Samp ID: C229-02 | Dilution Factor: 1 |
| Lab File ID: LC30013A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : 8.0 |
| Calib. Ref.: LC30002A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.68J | 1.1 | 0.54 |
| EFH(C12-C14) | ND | 1.1 | 0.54 |
| EFH(C15-C20) | 0.84J | 1.1 | 0.54 |
| EFH(C21-C30) | 20 | 1.1 | 0.54 |
| EFH(C30-C40) | 44 | 1.1 | 0.54 |
| TOTAL EFH(C8-C40) | 66 | 1.1 | 0.54 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.09 | 10.87 | 65.2 | 50-150 |
| HEXACOSANE | 2.66 | 2.717 | 97.8 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/29/12 16:35 |
| Sample ID: SL-055-NBZ-SS-0.0-0.5 | Date Analyzed: 03/30/12 13:48 |
| Lab Samp ID: C229-03 | Dilution Factor: 1 |
| Lab File ID: LC30012A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : 9.7 |
| Calib. Ref.: LC30002A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.71J | 1.1 | 0.55 |
| EFH(C12-C14) | ND | 1.1 | 0.55 |
| EFH(C15-C20) | 1.2 | 1.1 | 0.55 |
| EFH(C21-C30) | 8.3 | 1.1 | 0.55 |
| EFH(C30-C40) | 24 | 1.1 | 0.55 |
| TOTAL EFH(C8-C40) | 34 | 1.1 | 0.55 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.34 | 11.07 | 66.2 | 50-150 |
| HEXACOSANE | 2.50 | 2.769 | 90.2 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/29/12 16:35 |
| Sample ID: SL-059-NBZ-SS-0.0-0.5 | Date Analyzed: 03/30/12 14:55 |
| Lab Samp ID: C229-04 | Dilution Factor: 1 |
| Lab File ID: LC30016A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : 8.2 |
| Calib. Ref.: LC30014A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.69J | 1.1 | 0.54 |
| EFH(C12-C14) | ND | 1.1 | 0.54 |
| EFH(C15-C20) | ND | 1.1 | 0.54 |
| EFH(C21-C30) | 2.2 | 1.1 | 0.54 |
| EFH(C30-C40) | 6.7 | 1.1 | 0.54 |
| TOTAL EFH(C8-C40) | 9.6 | 1.1 | 0.54 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.14 | 10.89 | 56.4 | 50-150 |
| HEXACOSANE | 2.28 | 2.723 | 83.8 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/29/12 16:35 |
| Sample ID: SL-060-NBZ-SS-0.0-0.5 | Date Analyzed: 03/30/12 17:28 |
| Lab Samp ID: C229-05 | Dilution Factor: 1 |
| Lab File ID: LC30025A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : 5.5 |
| Calib. Ref.: LC30014A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.74J | 1.1 | 0.53 |
| EFH(C12-C14) | ND | 1.1 | 0.53 |
| EFH(C15-C20) | 8.6 | 1.1 | 0.53 |
| EFH(C21-C30) | 48 | 1.1 | 0.53 |
| EFH(C30-C40) | 39 | 1.1 | 0.53 |
| TOTAL EFH(C8-C40) | 96 | 1.1 | 0.53 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.04 | 10.58 | 66.5 | 50-150 |
| HEXACOSANE | 3.04 | 2.646 | 115 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/29/12 16:35 |
| Sample ID: SL-061-NBZ-SB-1.0-2.0 | Date Analyzed: 03/30/12 15:12 |
| Lab Samp ID: C229-07 | Dilution Factor: 1 |
| Lab File ID: LC30017A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : 4.8 |
| Calib. Ref.: LC30014A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.55J | 1.1 | 0.53 |
| EFH(C12-C14) | ND | 1.1 | 0.53 |
| EFH(C15-C20) | ND | 1.1 | 0.53 |
| EFH(C21-C30) | 5.6 | 1.1 | 0.53 |
| EFH(C30-C40) | 13 | 1.1 | 0.53 |
| TOTAL EFH(C8-C40) | 19 | 1.1 | 0.53 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.70 | 10.50 | 63.8 | 50-150 |
| HEXACOSANE | 2.20 | 2.626 | 83.8 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C229 | Date Extracted: 03/29/12 16:35 |
| Sample ID: MBLK1S | Date Analyzed: 03/30/12 11:33 |
| Lab Samp ID: DSC037SB | Dilution Factor: 1 |
| Lab File ID: LC30004A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : NA |
| Calib. Ref.: LC30002A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.02 | 10.00 | 70.2 | 50-150 |
| HEXACOSANE | 2.02 | 2.500 | 80.7 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSC037SB | DSC037SL | DSC037SC | | |
| LAB FILE ID: | LC30004A | LC30005A | LC30006A | | |
| DATE EXTRACTED: | 03/29/1216:35 | 03/29/1216:35 | 03/29/1216:35 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1211:33 | 03/30/1211:50 | 03/30/1212:07 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | DSC037S | DSC037S | DSC037S | | |
| CALIB. REF: | LC30002A | LC30002A | LC30002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 48.5 | 97 | 50.0 | 48.3 | 97 | 0 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 6.95 | 69 | 10.0 | 7.30 | 73 | 50-150 |
| Hexacosane | 2.50 | 2.06 | 82 | 2.50 | 1.98 | 79 | 50-150 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/29/12 17:10 |
| Sample ID: SL-054-NBZ-SS-0.0-0.5 | Date Analyzed: 04/23/12 16:40 |
| Lab Samp ID: C229-02 | Dilution Factor: 1 |
| Lab File ID: MD23012A | Matrix : SOIL |
| Ext Btch ID: CPC049S | % Moisture : 8.0 |
| Calib. Ref.: MD23003A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.18J | 0.18 | 0.092\|0.092 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.18 | 0.092\|0.092 |
| BETA-BHC | 4.4\|(ND) | 0.18 | 0.092\|0.092 |
| HEPTACHLOR | (ND)\|0.56 | 0.18 | 0.092\|0.092 |
| DELTA-BHC | (ND)\|ND | 0.18 | 0.092\|0.092 |
| ALDRIN | (ND)\|ND | 0.18 | 0.092\|0.092 |
| HEPTACHLOR EPOXIDE | (ND)\|3.1 | 0.18 | 0.092\|0.092 |
| ENDOSULFAN I | (ND)\|0.30 | 0.18 | 0.092\|0.092 |
| 4,4'-DDE | 0.87\|(3.0) | 0.37 | 0.18\|0.18 |
| DIELDRIN | 0.71\|(ND) | 0.37 | 0.18\|0.18 |
| ENDRIN | 0.26J\|(ND) | 0.37 | 0.18\|0.18 |
| 4,4'-DDD | (ND)\|ND | 0.37 | 0.18\|0.18 |
| ENDOSULFAN II | (ND)\|ND | 0.37 | 0.18\|0.18 |
| 4,4'-DDT | (0.89)\|6.0 | 0.37 | 0.18\|0.18 |
| ENDRIN ALDEHYDE | (ND)\|1.6 | 0.37 | 0.18\|0.18 |
| ENDOSULFAN SULFATE | (ND)\|0.57 | 0.37 | 0.18\|0.18 |
| ENDRIN KETONE | 0.54\|(ND) | 0.37 | 0.18\|0.18 |
| METHOXYCHLOR | (ND)\|3.8 | 1.8 | 0.92\|0.92 |
| MIREX | 1.3\|(ND) | 0.37 | 0.18\|0.18 |
| TOXAPHENE | (ND)\|ND | 7.2 | 3.6\|3.6 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.7 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.887\|(6.057) | 5.797 | 102\|(104) | 50-130 |
| DECACHLOROBIPHENYL | (5.797)\|4.322 | 5.797 | (100)\|74.6 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/29/12 17:10 |
| Sample ID: SL-055-NBZ-SS-0.0-0.5 | Date Analyzed: 04/23/12 17:03 |
| Lab Samp ID: C229-03 | Dilution Factor: 1 |
| Lab File ID: MD23013A | Matrix : SOIL |
| Ext Btch ID: CPC049S | % Moisture : 9.7 |
| Calib. Ref.: MD23003A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.095J | 0.19 | 0.094\|0.094 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.19 | 0.094\|0.094 |
| BETA-BHC | 0.33\|(ND) | 0.19 | 0.094\|0.094 |
| HEPTACHLOR | (0.54)\|0.39 | 0.19 | 0.094\|0.094 |
| DELTA-BHC | 0.24\|(ND) | 0.19 | 0.094\|0.094 |
| ALDRIN | (ND)\|ND | 0.19 | 0.094\|0.094 |
| HEPTACHLOR EPOXIDE | 0.15J\|(ND) | 0.19 | 0.094\|0.094 |
| ENDOSULFAN I | 0.18J\|(0.19) | 0.19 | 0.094\|0.094 |
| 4,4'-DDE | 0.60\|(0.68) | 0.38 | 0.19\|0.19 |
| DIELDRIN | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.38 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|0.97 | 0.38 | 0.19\|0.19 |
| ENDOSULFAN II | (ND)\|0.32J | 0.38 | 0.19\|0.19 |
| 4,4'-DDT | 0.55\|(0.97) | 0.38 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | 0.65\|(ND) | 0.38 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDRIN KETONE | 0.29J\|(ND) | 0.38 | 0.19\|0.19 |
| METHOXYCHLOR | (ND)\|ND | 1.9 | 0.94\|0.94 |
| MIREX | 0.74\|(ND) | 0.38 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.3 | 3.7\|3.7 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.205\|(5.813) | 5.906 | 88.1\|(98.4) | 50-130 |
| DECACHLOROBIPHENYL | 4.390\|(4.414) | 5.906 | 74.3\|(74.7) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/29/12 17:10 |
| Sample ID: SL-059-NBZ-SS-0.0-0.5 | Date Analyzed: 04/23/12 17:26 |
| Lab Samp ID: C229-04 | Dilution Factor: 1 |
| Lab File ID: MD23014A | Matrix : SOIL |
| Ext Btch ID: CPC049S | % Moisture : 8.2 |
| Calib. Ref.: MD23003A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.19 | 0.093\|0.093 |
| GAMMA-BHC (LINDANE) | (ND)\|0.22 | 0.19 | 0.093\|0.093 |
| BETA-BHC | (ND)\|ND | 0.19 | 0.093\|0.093 |
| HEPTACHLOR | (ND)\|0.17J | 0.19 | 0.093\|0.093 |
| DELTA-BHC | (ND)\|ND | 0.19 | 0.093\|0.093 |
| ALDRIN | (ND)\|ND | 0.19 | 0.093\|0.093 |
| HEPTACHLOR EPOXIDE | (ND)\|0.83 | 0.19 | 0.093\|0.093 |
| ENDOSULFAN I | 0.17J\|(ND) | 0.19 | 0.093\|0.093 |
| 4,4'-DDE | 0.54\|(0.94) | 0.37 | 0.19\|0.19 |
| DIELDRIN | (ND)\|1.8 | 0.37 | 0.19\|0.19 |
| ENDRIN | (ND)\|0.20J | 0.37 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDOSULFAN II | (ND)\|ND | 0.37 | 0.19\|0.19 |
| 4,4'-DDT | (ND)\|0.93 | 0.37 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | (ND)\|0.28J | 0.37 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | 0.23J\|(ND) | 0.37 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| METHOXYCHLOR | (ND)\|ND | 1.9 | 0.93\|0.93 |
| MIREX | (ND)\|1.8 | 0.37 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.2 | 3.6\|3.6 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.317\|(4.623) | 5.809 | 74.3\|(79.6) | 50-130 |
| DECACHLOROBIPHENYL | 4.554\|(4.563) | 5.809 | 78.4\|(78.5) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/29/12 17:10 |
| Sample ID: SL-060-NBZ-SS-0.0-0.5DL | Date Analyzed: 04/23/12 16:18 |
| Lab Samp ID: C229-05T | Dilution Factor: 20 |
| Lab File ID: MD23011A | Matrix : SOIL |
| Ext Btch ID: CPC049S | % Moisture : 5.5 |
| Calib. Ref.: MD23003A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 3.6 | 1.8 \| 1.8 |
| GAMMA-BHC (LINDANE) | 14 \| (ND) | 3.6 | 1.8 \| 1.8 |
| BETA-BHC | (ND) \| 32 | 3.6 | 1.8 \| 1.8 |
| HEPTACHLOR | 50 \| (ND) | 3.6 | 1.8 \| 1.8 |
| DELTA-BHC | 280 \| (ND) | 3.6 | 1.8 \| 1.8 |
| ALDRIN | (ND) \| ND | 3.6 | 1.8 \| 1.8 |
| HEPTACHLOR EPOXIDE | (ND) \| 900 | 3.6 | 1.8 \| 1.8 |
| ENDOSULFAN I | (ND) \| 63 | 3.6 | 1.8 \| 1.8 |
| 4,4'-DDE | 300 \| (440) | 7.2 | 3.6 \| 3.6 |
| DIELDRIN | 100 \| (ND) | 7.2 | 3.6 \| 3.6 |
| ENDRIN | 32 \| (ND) | 7.2 | 3.6 \| 3.6 |
| 4,4'-DDD | (ND) \| 27 | 7.2 | 3.6 \| 3.6 |
| ENDOSULFAN II | 13 \| (ND) | 7.2 | 3.6 \| 3.6 |
| 4,4'-DDT | (ND) \| 540 | 7.2 | 3.6 \| 3.6 |
| ENDRIN ALDEHYDE | (ND) \| 150 | 7.2 | 3.6 \| 3.6 |
| ENDOSULFAN SULFATE | (ND) \| 87 | 7.2 | 3.6 \| 3.6 |
| ENDRIN KETONE | 71 \| (ND) | 7.2 | 3.6 \| 3.6 |
| METHOXYCHLOR | (ND) \| 50 | 36 | 18 \| 18 |
| MIREX | 88 \| (ND) | 7.2 | 3.6 \| 3.6 |
| TOXAPHENE | (ND) \| ND | 140 | 70 \| 70 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 72 | 36 \| 36 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.567 \| (4.702) | 5.643 | 80.9 \| (83.3) | 50-130 |
| DECACHLOROBIPHENYL | (10.98) \| 10.86 | 5.643 | (195*) \| 192* | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/29/12 17:10 |
| Sample ID: SL-116-NBZ-SS-0.0-0.5 | Date Analyzed: 04/23/12 17:48 |
| Lab Samp ID: C229-08 | Dilution Factor: 1 |
| Lab File ID: MD23015A | Matrix : SOIL |
| Ext Btch ID: CPC049S | % Moisture : 10.6 |
| Calib. Ref.: MD23003A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| HEPTACHLOR | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| DELTA-BHC | (ND) \| 0.098J | 0.19 | 0.095 \| 0.095 |
| ALDRIN | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| ENDOSULFAN I | (1.7) \| 0.35 | 0.19 | 0.095 \| 0.095 |
| 4,4'-DDE | (0.66) \| 0.53 | 0.38 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| 0.25J | 0.38 | 0.19 \| 0.19 |
| ENDRIN | 0.23J \| (ND) | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| 1.4 | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN II | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDT | (0.67) \| 0.51 | 0.38 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (6.7) \| 2.1 | 0.38 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| 0.23J | 0.38 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| 2.3 | 1.9 | 0.95 \| 0.95 |
| MIREX | 0.92 \| (ND) | 0.38 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.4 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.8 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.257 \| (5.641) | 5.965 | 88.1 \| (94.6) | 50-130 |
| DECACHLOROBIPHENYL | (5.584) \| 4.913 | 5.965 | (93.6) \| 82.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C229 | Date Extracted: 03/29/12 17:10 |
| Sample ID: MBLK1S | Date Analyzed: 04/23/12 15:11 |
| Lab Samp ID: CPC049SB | Dilution Factor: 1 |
| Lab File ID: MD23008A | Matrix : SOIL |
| Ext Btch ID: CPC049S | % Moisture : NA |
| Calib. Ref.: MD23003A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | 0.16J\|(ND) | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.028\|(4.520) | 5.333 | 75.5\|(84.8) | 50-130 |
| DECACHLOROBIPHENYL | 5.544\|(5.686) | 5.333 | 104\|(107) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | CPC049SB | CPC049SL | CPC049SC | | |
| LAB FILE ID: | MD23008A | MD23009A | MD23010A | | |
| DATE EXTRACTED: | 03/29/1217:10 | 03/29/1217:10 | 03/29/1217:10 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/23/1215:11 | 04/23/1215:33 | 04/23/1215:56 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | CPC049S | CPC049S | CPC049S | | |
| CALIB. REF: | MD23003A | MD23003A | MD23003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND) \| ND | 2.67 | 2.32 \| (2.53) | 87 \| (95) | 2.67 | 2.26 \| (2.59) | 85 \| (97) | 3 \| (2) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND) \| ND | 2.67 | 2.02 \| (2.50) | 76 \| (94) | 2.67 | 1.92 \| (2.43) | 72 \| (91) | 5 \| (3) | 40-130 | 50 |
| beta-BHC | (ND) \| ND | 2.67 | (2.39) \| 2.39 | (90) \| 90 | 2.67 | 2.16 \| (2.47) | 81 \| (93) | 10 \| (3) | 50-140 | 50 |
| Heptachlor | 0.16J \| (ND) | 2.67 | 2.51 \| (2.59) | 94 \| (97) | 2.67 | 2.41 \| (2.59) | 90 \| (97) | 4 \| (0) | 30-130 | 50 |
| delta-BHC | (ND) \| ND | 2.67 | 2.49 \| (2.69) | 93 \| (101) | 2.67 | 2.41 \| (2.81) | 90 \| (105) | 3 \| (4) | 30-150 | 50 |
| Aldrin | (ND) \| ND | 2.67 | (2.30) \| 2.29 | (86) \| 86 | 2.67 | (2.36) \| 2.16 | (88) \| 81 | (3) \| 6 | 30-130 | 50 |
| Heptachlor Epoxide | (ND) \| ND | 2.67 | 2.53 \| (2.64) | 95 \| (99) | 2.67 | 2.47 \| (2.49) | 93 \| (93) | 2 \| (6) | 60-140 | 50 |
| Endosulfan I | (ND) \| ND | 2.67 | 2.19 \| (2.46) | 82 \| (92) | 2.67 | 2.26 \| (2.34) | 85 \| (88) | 3 \| (5) | 50-150 | 50 |
| 4,4'-DDE | (ND) \| ND | 2.67 | 2.68 \| (2.71) | 100 \| (101) | 2.67 | (2.66) \| 2.58 | (100) \| 97 | (1) \| 5 | 50-150 | 50 |
| Dieldrin | (ND) \| ND | 2.67 | (2.94) \| 2.51 | (110) \| 94 | 2.67 | (2.82) \| 2.39 | (106) \| 90 | (4) \| 5 | 60-130 | 50 |
| Endrin | (ND) \| ND | 2.67 | (2.75) \| 2.53 | (103) \| 95 | 2.67 | (2.61) \| 2.41 | (98) \| 90 | (5) \| 5 | 50-140 | 50 |
| 4,4'-DDD | (ND) \| ND | 2.67 | (2.74) \| 2.57 | (103) \| 96 | 2.67 | (2.68) \| 2.48 | (100) \| 93 | (2) \| 4 | 50-160 | 50 |
| Endosulfan II | (ND) \| ND | 2.67 | (2.85) \| 2.79 | (107) \| 104 | 2.67 | (2.77) \| 2.68 | (104) \| 100 | (3) \| 4 | 60-150 | 50 |
| 4,4'-DDT | (ND) \| ND | 2.67 | (3.31) \| 2.70 | (124) \| 101 | 2.67 | (3.06) \| 2.58 | (115) \| 97 | (8) \| 5 | 60-140 | 50 |
| Endrin aldehyde | (ND) \| ND | 2.67 | 2.85 \| (2.88) | 107 \| (108) | 2.67 | 2.67 \| (2.78) | 100 \| (104) | 7 \| (4) | 50-160 | 50 |
| Endosulfan Sulfate | (ND) \| ND | 2.67 | (3.10) \| 3.00 | (116) \| 112 | 2.67 | (2.95) \| 2.83 | (110) \| 106 | (5) \| 6 | 70-140 | 50 |
| Endrin Ketone | (ND) \| ND | 2.67 | (2.96) \| 2.85 | (111) \| 107 | 2.67 | (2.84) \| 2.73 | (106) \| 102 | (4) \| 4 | 70-160 | 50 |
| Methoxychlor | (ND) \| ND | 26.7 | (28.3) \| 27.2 | (106) \| 102 | 26.7 | (27.4) \| 26.6 | (103) \| 100 | (3) \| 2 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 3.703 \| (4.246) | 69.4 \| (79.6) | 5.333 | 3.618 \| (4.457) | 67.8 \| (83.6) | 50-130 |
| Decachlorobiphenyl | 5.333 | 5.030 \| (5.150) | 94.3 \| (96.6) | 5.333 | (5.220) \| 5.139 | (97.9) \| 96.4 | 20-120 |

METHOD 3520C/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/23/12 16:15 |
| Sample ID: EB-NBZ-SB-032212 | Date Analyzed: 04/06/12 18:11 |
| Lab Samp ID: C229-01 | Dilution Factor: 1.01 |
| Lab File ID: KD06007A | Matrix : WATER |
| Ext Btch ID: CPC034W | % Moisture : NA |
| Calib. Ref.: KD06002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.0 | 0.51\|0.51 |
| AROCLOR 1221 | (ND)\|ND | 1.0 | 0.51\|0.51 |
| AROCLOR 1232 | (ND)\|ND | 1.0 | 0.51\|0.51 |
| AROCLOR 1242 | (ND)\|ND | 1.0 | 0.51\|0.51 |
| AROCLOR 1248 | (ND)\|ND | 1.0 | 0.51\|0.51 |
| AROCLOR 1254 | (ND)\|ND | 1.0 | 0.51\|0.51 |
| AROCLOR 1260 | (ND)\|ND | 1.0 | 0.51\|0.51 |
| AROCLOR 1262 | (ND)\|ND | 1.0 | 0.51\|0.51 |
| AROCLOR 1268 | (ND)\|ND | 1.0 | 0.51\|0.51 |
| AROCLOR 5432 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5442 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5460 | (ND)\|ND | 2.0 | 1.0\|1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (0.4142)\|0.3058 | 0.4040 | (103)\|75.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (0.3083)\|0.2457 | 0.4040 | (76.3)\|60.8 | 30-140 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3520C/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C229 | Date Extracted: 03/23/12 16:15 |
| Sample ID: MBLK1W | Date Analyzed: 04/05/12 11:46 |
| Lab Samp ID: CPC034WB | Dilution Factor: 1 |
| Lab File ID: KD04019A | Matrix : WATER |
| Ext Btch ID: CPC034W | % Moisture : NA |
| Calib. Ref.: KD04014A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1221 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1232 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1242 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1248 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1254 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1260 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1262 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1268 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 5432 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5442 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5460 | (ND)\|ND | 2.0 | 1.0\|1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (0.4513)\|0.3272 | 0.4000 | (113)\|81.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (0.4311)\|0.3738 | 0.4000 | (108)\|93.5 | 30-140 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 3520C/8082

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | CPC034WB | 60C034WX | 60C034WY | | |
| LAB FILE ID: | KD04019A | KD04020A | KD04021A | | |
| DATE EXTRACTED: | 03/23/1216:15 | 03/23/1216:15 | 03/23/1216:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/05/1211:46 | 04/05/1212:41 | 04/05/1213:36 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | CPC034W | CPC034W | CPC034W | | |
| CALIB. REF: | KD04014A | KD04014A | KD04014A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 5.00 | (4.70)\|3.88 | (94)\|78 | 5.00 | (4.66)\|3.89 | (93)\|78 | (1)\|0 | 50-130 | 30 |
| Aroclor 1260 | (ND)\|ND | 5.00 | (5.30)\|4.17 | (106)\|83 | 5.00 | (5.19)\|4.12 | (104)\|82 | (2)\|1 | 60-150 | 30 |
| Aroclor 5460 | (ND)\|ND | 5.00 | (5.10)\|5.06 | (102)\|101 | 5.00 | (5.13)\|5.04 | (103)\|101 | (1)\|0 | 50-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 0.4000 | (0.4271)\|0.3095 | (107)\|77.4 | 0.4000 | (0.4211)\|0.3069 | (105)\|76.7 | 45-120 |
| Tetrachloro-m-xylene | 0.4000 | (0.4037)\|0.3307 | (101)\|82.7 | 0.4000 | (0.4069)\|0.3342 | (102)\|83.5 | 30-140 |

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/22/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C229 | Date Extracted | : 03/30/12 16:21 |
| Sample ID | : SL-054-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/06/12 19:06 # 04/09/12 19:17 |
| Lab Samp ID | : C229-02 # C229-02W | Dilution Factor | : 1 |
| Lab File ID | : KD06008A # KD09006A | Matrix | : SOIL |
| Ext Btch ID | : CPC055S | % Moisture | : 8.0 |
| Calib. Ref. | : KD06002A # KD09002A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1221 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1232 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1242 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1248 # | (54) \| 40 | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1254 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1260 | (44) \| 33 | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1262 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1268 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 5432 | (ND) \| ND | 3.6 | 1.8 \| 1.8 |
| AROCLOR 5442 | (ND) \| ND | 3.6 | 1.8 \| 1.8 |
| AROCLOR 5460 | (6.0) \| 5.3 | 3.6 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (4.990) \| 3.278 | 5.797 | (86.1) \| 56.6 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.684) \| 4.763 | 5.797 | (115) \| 82.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

# Members of the associated files

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/30/12 16:21 |
| Sample ID: SL-055-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 20:01 |
| Lab Samp ID: C229-03 | Dilution Factor: 1 |
| Lab File ID: KD06009A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : 9.7 |
| Calib. Ref.: KD06002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1254 | (4.8)\|4.4 | 1.9 | 0.94\|0.94 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.031)\|4.352 | 5.906 | (102)\|73.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.521)\|4.855 | 5.906 | (110)\|82.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/22/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C229 | Date Extracted | : 03/30/12 16:21 |
| Sample ID | : SL-059-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/06/12 20:56 # 04/09/12 22:02 |
| Lab Samp ID | : C229-04 # C229-04T | Dilution Factor | : 1 # 4 |
| Lab File ID | : KD06010A # KD09009A | Matrix | : SOIL |
| Ext Btch ID | : CPC055S | % Moisture | : 8.2 |
| Calib. Ref. | : KD06002A # KD09002A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| AROCLOR 1221 | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| AROCLOR 1232 | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| AROCLOR 1242 | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| AROCLOR 1248 # | (150) \| 150 | 7.4 | 3.7 \| 3.7 |
| AROCLOR 1254 | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| AROCLOR 1260 | 50 \| (60) | 1.9 | 0.93 \| 0.93 |
| AROCLOR 1262 | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| AROCLOR 1268 | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| AROCLOR 5432 | (ND) \| ND | 3.6 | 1.9 \| 1.9 |
| AROCLOR 5442 | (ND) \| ND | 3.6 | 1.9 \| 1.9 |
| AROCLOR 5460 | (ND) \| ND | 3.6 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.022) \| 4.316 | 5.809 | (104) \| 74.3 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.792) \| 4.763 | 5.809 | (117) \| 82.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
 * Out side of QC Limit

# Members of the associated files

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/30/12 16:21 |
| Sample ID: SL-060-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 23:52 # 04/06/12 21:52 |
| Lab Samp ID: C229-05I # C229-05 | Dilution Factor: 25 # 1 |
| Lab File ID: KD09011A # KD06011A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : 5.5 |
| Calib. Ref.: KD09002A # KD06002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 45 | 22\|22 |
| AROCLOR 1221 | (ND)\|ND | 45 | 22\|22 |
| AROCLOR 1232 | (ND)\|ND | 45 | 22\|22 |
| AROCLOR 1242 | (ND)\|ND | 45 | 22\|22 |
| AROCLOR 1248 | (3200)\|3100 | 45 | 22\|22 |
| AROCLOR 1254 | (ND)\|ND | 45 | 22\|22 |
| AROCLOR 1260 | (430)\|650 | 45 | 22\|22 |
| AROCLOR 1262 | (ND)\|ND | 45 | 22\|22 |
| AROCLOR 1268 | (ND)\|ND | 45 | 22\|22 |
| AROCLOR 5432 | (ND)\|ND | 87 | 45\|45 |
| AROCLOR 5442 | (ND)\|ND | 87 | 45\|45 |
| AROCLOR 5460 # | (5.0)\|3.8 | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.837)\|5.803 | 5.643 | (103\|103 | 45-120 |
| TETRACHLORO-M-XYLENE | 4.765\|(5.199) | 5.643 | 84.4\|(92.1) | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

# Members of the associated files

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/30/12 16:21 |
| Sample ID: SL-061-NBZ-SB-1.0-2.0 | Date Analyzed: 04/10/12 00:47 |
| Lab Samp ID: C229-07W | Dilution Factor: 1 |
| Lab File ID: KD09012A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : 4.8 |
| Calib. Ref.: KD09002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1248 | (8.3)\|10 | 1.8 | 0.89\|0.89 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1260 | 3.5\|(4.9) | 1.8 | 0.89\|0.89 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.187)\|4.503 | 5.602 | (110)\|80.4 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.943)\|4.849 | 5.602 | (124)\|86.6 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/30/12 16:21 |
| Sample ID: SL-116-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 23:42 |
| Lab Samp ID: C229-08 | Dilution Factor: 1 |
| Lab File ID: KD06013A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : 10.6 |
| Calib. Ref.: KD06002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.324)\|4.501 | 5.965 | (106)\|75.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.870)\|4.819 | 5.965 | (115)\|80.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C229 | Date Extracted: 03/30/12 16:21 |
| Sample ID: MBLK1S | Date Analyzed: 04/05/12 15:27 |
| Lab Samp ID: 60C055SB | Dilution Factor: 1 |
| Lab File ID: KD04023A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : NA |
| Calib. Ref.: KD04014A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.185)\|4.524 | 5.333 | (116)\|84.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.175)\|5.031 | 5.333 | (116)\|94.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60C055SB | 60C055SL | 60C055SC | | |
| LAB FILE ID: | KD04023A | KD04024A | KD04025A | | |
| DATE EXTRACTED: | 03/30/1216:21 | 03/30/1216:21 | 03/30/1216:21 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/05/1215:27 | 04/05/1216:22 | 04/05/1217:17 | DATE RECEIVED: | 03/30/12 |
| PREP. BATCH: | CPC055S | CPC055S | CPC055S | | |
| CALIB. REF: | KD04014A | KD04014A | KD04014A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (63.5)\|50.9 | (95)\|76 | 66.7 | (64.6)\|51.0 | (97)\|76 | (2)\|0 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (86.1)\|60.9 | (129)\|91 | 66.7 | (74.7)\|59.2 | (112)\|89 | (14)\|3 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | 73.3\|(73.7) | 110\|(111) | 66.7 | (77.0)\|76.5 | (115)\|115 | (5)\|4 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | 6.555\|(4.723) | 123*\|(88.6) | 5.333 | 6.471\|(4.703) | 121*\|(88.2) | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (6.512)\|5.280 | (122)\|99.0 | 5.333 | (6.601)\|5.227 | (124)\|98.0 | 10-160 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/25/12 09:58 |
| Sample ID: EB-NBZ-SB-032212 | Date Analyzed: 03/28/12 16:03 |
| Lab Samp ID: C229-01 | Dilution Factor: 1 |
| Lab File ID: XC28008A | Matrix : WATER |
| Ext Btch ID: EXC020W | % Moisture : NA |
| Calib. Ref.: XC28002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | ND | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 3.51 | 4.000 | 87.8 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/25/12 |
| Batch No. : 12C229 | Date Extracted: 03/25/12 09:58 |
| Sample ID: MBLK1W | Date Analyzed: 03/28/12 13:13 |
| Lab Samp ID: EXC020WB | Dilution Factor: 1 |
| Lab File ID: XC28003A | Matrix : WATER |
| Ext Btch ID: EXC020W | % Moisture : NA |
| Calib. Ref.: XC28002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | ND | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 3.36 | 4.000 | 84.1 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 8330A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | EXC020WB | EXC020WL | EXC020WC | | |
| LAB FILE ID: | XC28003A | XC28004A | XC28005A | | |
| DATE EXTRACTED: | 03/25/1209:58 | 03/25/1209:58 | 03/25/1209:58 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/28/1213:13 | 03/28/1213:47 | 03/28/1214:21 | DATE RECEIVED: | 03/25/12 |
| PREP. BATCH: | EXC020W | EXC020W | EXC020W | | |
| CALIB. REF: | XC28002A | XC28002A | XC28002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 4.00 | 3.84 | 96 | 4.00 | 3.46 | 86 | 10 | 70-130 | 30 |
| RDX | ND | 4.00 | 3.02 | 75 | 4.00 | 2.89 | 72 | 4 | 60-130 | 30 |
| 1,3,5-Trinitrobenzene | ND | 4.00 | 3.90 | 97 | 4.00 | 3.55 | 89 | 9 | 70-130 | 30 |
| 1,3-Dinitrobenzene | ND | 4.00 | 3.20 | 80 | 4.00 | 2.97 | 74 | 8 | 70-130 | 30 |
| Tetryl | ND | 4.00 | 3.38 | 85 | 4.00 | 3.16 | 79 | 7 | 70-130 | 30 |
| Nitrobenzene | ND | 4.00 | 3.43 | 86 | 4.00 | 3.13 | 78 | 9 | 70-130 | 30 |
| 2,4,6-Trinitrotoluene | ND | 4.00 | 3.90 | 98 | 4.00 | 3.58 | 89 | 9 | 70-130 | 30 |
| 4-Amino-2,6-Dinitrotoluene | ND | 4.00 | 3.73 | 93 | 4.00 | 3.12 | 78 | 18 | 70-130 | 30 |
| 2-Amino-4,6-Dinitrotoluene | ND | 4.00 | 3.58 | 90 | 4.00 | 3.12 | 78 | 14 | 70-130 | 30 |
| 2,6-Dinitrotoluene | ND | 4.00 | 3.91 | 98 | 4.00 | 3.46 | 87 | 12 | 70-130 | 30 |
| 2,4-Dinitrotoluene | ND | 4.00 | 3.86 | 96 | 4.00 | 3.57 | 89 | 8 | 70-130 | 30 |
| 2-Nitrotoluene | ND | 4.00 | 3.98 | 99 | 4.00 | 3.17 | 79 | 22 | 70-130 | 30 |
| 3-Nitrotoluene | ND | 4.00 | 3.28 | 82 | 4.00 | 3.33 | 83 | 1 | 70-130 | 30 |
| 4-Nitrotoluene | ND | 4.00 | 3.41 | 85 | 4.00 | 3.39 | 85 | 1 | 70-130 | 30 |
| 2,4-Diamino-6-nitrotoluene | ND | 4.00 | 1.21J | 30 | 4.00 | 1.19J | 30 | 2 | 20-130 | 30 |
| 2,6-Diamino-4-nitrotoluene | ND | 4.00 | 1.22J | 31 | 4.00 | 1.19J | 30 | 3 | 20-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 4.00 | 3.41 | 85 | 4.00 | 3.16 | 79 | 65-135 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/30/12 19:04 |
| Sample ID: SL-054-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 18:16 |
| Lab Samp ID: C229-02 | Dilution Factor: 1 |
| Lab File ID: XD02015A | Matrix : SOIL |
| Ext Btch ID: EXC026S | % Moisture : NA |
| Calib. Ref.: XD02014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1950 | 2000 | 97.4 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/30/12 19:04 |
| Sample ID: SL-055-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 18:50 |
| Lab Samp ID: C229-03 | Dilution Factor: 1 |
| Lab File ID: XD02016A | Matrix : SOIL |
| Ext Btch ID: EXC026S | % Moisture : NA |
| Calib. Ref.: XD02014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1820 | 2000 | 91.1 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/30/12 19:04 |
| Sample ID: SL-059-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 19:24 |
| Lab Samp ID: C229-04 | Dilution Factor: .99 |
| Lab File ID: XD02017A | Matrix : SOIL |
| Ext Btch ID: EXC026S | % Moisture : NA |
| Calib. Ref.: XD02014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1860 | 1980 | 93.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/30/12 19:04 |
| Sample ID: SL-060-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 19:58 |
| Lab Samp ID: C229-05 | Dilution Factor: 1 |
| Lab File ID: XD02018A | Matrix : SOIL |
| Ext Btch ID: EXC026S | % Moisture : NA |
| Calib. Ref.: XD02014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1800 | 2000 | 89.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/30/12 19:04 |
| Sample ID: SL-061-NBZ-SB-1.0-2.0 | Date Analyzed: 04/02/12 20:32 |
| Lab Samp ID: C229-07 | Dilution Factor: .99 |
| Lab File ID: XD02019A | Matrix : SOIL |
| Ext Btch ID: EXC026S | % Moisture : NA |
| Calib. Ref.: XD02014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1850 | 1980 | 93.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C229 | Date Extracted: 03/30/12 19:04 |
| Sample ID: MBLK1S | Date Analyzed: 04/02/12 16:00 |
| Lab Samp ID: EXC026SB | Dilution Factor: 1 |
| Lab File ID: XD02011A | Matrix : SOIL |
| Ext Btch ID: EXC026S | % Moisture : NA |
| Calib. Ref.: XD02002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1820 | 2000 | 91.1 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXC026SB | EXC026SL | EXC026SC | | |
| LAB FILE ID: | XD02011A | XD02012A | XD02013A | | |
| DATE EXTRACTED: | 03/30/1219:04 | 03/30/1219:04 | 03/30/1219:04 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/02/1216:00 | 04/02/1216:34 | 04/02/1217:08 | DATE RECEIVED: | 03/30/12 |
| PREP. BATCH: | EXC026S | EXC026S | EXC026S | | |
| CALIB. REF: | XD02002A | XD02002A | XD02002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 2580 | 129 | 2000 | 2170 | 108 | 17 | 70-130 | 50 |
| RDX | ND | 2000 | 2080 | 104 | 2000 | 2140 | 107 | 2 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2420 | 121 | 2000 | 2390 | 119 | 2 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2170 | 109 | 2000 | 2130 | 107 | 2 | 70-130 | 50 |
| Tetryl | ND | 2000 | 2460 | 123 | 2000 | 2440 | 122 | 1 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 1920 | 96 | 2000 | 1920 | 96 | 0 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 2130 | 106 | 2000 | 2160 | 108 | 2 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 2090 | 104 | 2000 | 2090 | 104 | 0 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 2100 | 105 | 2000 | 2110 | 105 | 0 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2280 | 114 | 2000 | 2240 | 112 | 2 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2290 | 115 | 2000 | 2280 | 114 | 0 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 2140 | 107 | 2000 | 2170 | 108 | 1 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1940 | 97 | 2000 | 1940 | 97 | 0 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 2120 | 106 | 2000 | 2010 | 100 | 5 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1660 | 83 | 2000 | 1770 | 89 | 7 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 1840 | 92 | 2000 | 2110 | 105 | 14 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1910 | 95 | 2000 | 1900 | 95 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/22/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C229 | Date Extracted | : 03/30/12 19:04 |
| Sample ID | : SL-054-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/02/12 13:31 |
| Lab Samp ID | : C229-02 | Dilution Factor | : 1 |
| Lab File ID | : PD02015A | Matrix | : SOIL |
| Ext Btch ID | : EXC026S | % Moisture | : NA |
| Calib. Ref. | : PD02013A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2500 | 2000 | 125 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/22/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C229 | Date Extracted | : 03/30/12 19:04 |
| Sample ID | : SL-055-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/02/12 13:45 |
| Lab Samp ID | : C229-03 | Dilution Factor | : 1 |
| Lab File ID | : PD02016A | Matrix | : SOIL |
| Ext Btch ID | : EXC026S | % Moisture | : NA |
| Calib. Ref. | : PD02013A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2440 | 2000 | 122 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/22/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C229 | Date Extracted | : 03/30/12 19:04 |
| Sample ID | : SL-059-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/02/12 13:59 |
| Lab Samp ID | : C229-04 | Dilution Factor | : .99 |
| Lab File ID | : PD02017A | Matrix | : SOIL |
| Ext Btch ID | : EXC026S | % Moisture | : NA |
| Calib. Ref. | : PD02013A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2350 | 1980 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/22/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C229 | Date Extracted | : 03/30/12 19:04 |
| Sample ID | : SL-060-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/02/12 14:13 |
| Lab Samp ID | : C229-05 | Dilution Factor | : 1 |
| Lab File ID | : PD02018A | Matrix | : SOIL |
| Ext Btch ID | : EXC026S | % Moisture | : NA |
| Calib. Ref. | : PD02013A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2550 | 2000 | 127 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/22/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C229 | Date Extracted | : 03/30/12 19:04 |
| Sample ID | : SL-061-NBZ-SB-1.0-2.0 | Date Analyzed | : 04/02/12 14:27 |
| Lab Samp ID | : C229-07 | Dilution Factor | : .99 |
| Lab File ID | : PD02019A | Matrix | : SOIL |
| Ext Btch ID | : EXC026S | % Moisture | : NA |
| Calib. Ref. | : PD02013A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2360 | 1980 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C229 | Date Extracted: 03/30/12 19:04 |
| Sample ID: MBLK1S | Date Analyzed: 04/02/12 12:39 |
| Lab Samp ID: EXC026SB | Dilution Factor: 1 |
| Lab File ID: PD02011A | Matrix : SOIL |
| Ext Btch ID: EXC026S | % Moisture : NA |
| Calib. Ref.: PD02002A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2400 | 2000 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXC026SB | EXC026SX | EXC026SY | | |
| LAB FILE ID: | PD02011A | PD02012A | PD02014A | | |
| DATE EXTRACTED: | 03/30/1219:04 | 03/30/1219:04 | 03/30/1219:04 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/02/1212:39 | 04/02/1212:53 | 04/02/1213:17 | DATE RECEIVED: | 03/30/12 |
| PREP. BATCH: | EXC026S | EXC026S | EXC026S | | |
| CALIB. REF: | PD02002A | PD02002A | PD02013A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7820 | 104 | 7500 | 7970 | 106 | 2 | 50-150 | 50 |
| PETN | ND | 7500 | 7920 | 106 | 7500 | 7900 | 105 | 0 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2320 | 116 | 2000 | 2340 | 117 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/22/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C229 | Date Extracted | : 03/25/12 09:33 |
| Sample ID | : EB-NBZ-SB-032212 | Date Analyzed | : 03/26/12 17:48 |
| Lab Samp ID | : C229-01 | Dilution Factor | : 1 |
| Lab File ID | : PC26035A | Matrix | : WATER |
| Ext Btch ID | : EXC019W | % Moisture | : NA |
| Calib. Ref. | : PC26024A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 608 | 500.0 | 122 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/25/12 |
| Batch No. | : 12C229 | Date Extracted | : 03/25/12 09:33 |
| Sample ID | : MBLK1W | Date Analyzed | : 03/26/12 16:32 |
| Lab Samp ID | : EXC019WB | Dilution Factor | : 1 |
| Lab File ID | : PC26030A | Matrix | : WATER |
| Ext Btch ID | : EXC019W | % Moisture | : NA |
| Calib. Ref. | : PC26024A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 589 | 500.0 | 118 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | EXC019WB | EXC019WL | EXC019WC | | |
| LAB FILE ID: | PC26030A | PC26031A | PC26032A | | |
| DATE EXTRACTED: | 03/25/1209:33 | 03/25/1209:33 | 03/25/1209:33 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/26/1216:32 | 03/26/1216:46 | 03/26/1217:00 | DATE RECEIVED: | 03/25/12 |
| PREP. BATCH: | EXC019W | EXC019W | EXC019W | | |
| CALIB. REF: | PC26024A | PC26024A | PC26024A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 1870 | 1900 | 101 | 1870 | 1930 | 103 | 2 | 50-150 | 30 |
| PETN | ND | 1870 | 1900 | 102 | 1870 | 1920 | 103 | 1 | 50-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 500 | 599 | 120 | 500 | 602 | 120 | 65-135 |

METHOD 8151A
HERBICIDES

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/22/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C229 | Date Extracted | : 03/31/12 11:20 |
| Sample ID | : SL-054-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/02/12 18:36 |
| Lab Samp ID | : C229-02 | Dilution Factor | : 1 |
| Lab File ID | : WD02025A | Matrix | : SOIL |
| Ext Btch ID | : HEC012S | % Moisture | : 8.0 |
| Calib. Ref. | : WD02024A | Instrument ID | : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 3.9 | 2.0 \| 2.0 |
| 2,4-DB | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| 2,4,5-T | 0.46 \| (ND) | 0.18 | 0.092 \| 0.092 |
| 2,4,5-TP(SILVEX) | 0.73 \| (ND) | 0.18 | 0.092 \| 0.092 |
| DALAPON | (ND) \| ND | 9.8 | 4.9 \| 4.9 |
| DICAMBA | (ND) \| ND | 1.3 | 0.65 \| 0.65 |
| DICHLOROPROP | 1.3J \| (ND) | 2.6 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| MCPA | 1400 \| (ND) | 270 | 140 \| 140 |
| MCPP | (ND) \| 260J | 270 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (170.1) \| 137.0 | 163.0 | (104) \| 84.0 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/31/12 11:20 |
| Sample ID: SL-055-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 14:33 |
| Lab Samp ID: C229-03 | Dilution Factor: 1 |
| Lab File ID: WD02013A | Matrix : SOIL |
| Ext Btch ID: HEC012S | % Moisture : 9.7 |
| Calib. Ref.: WD02006A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | 26 \| (ND) | 4.0 | 2.0 \| 2.0 |
| 2,4-DB | (ND) \| ND | 1.9 | 0.94 \| 0.94 |
| 2,4,5-T | (ND) \| 0.53 | 0.19 | 0.094 \| 0.094 |
| 2,4,5-TP(SILVEX) | 1.2 \| (ND) | 0.19 | 0.094 \| 0.094 |
| DALAPON | 71 \| (ND) | 10 | 5.0 \| 5.0 |
| DICAMBA | 0.97J \| (ND) | 1.3 | 0.66 \| 0.66 |
| DICHLOROPROP | 1.9J \| (ND) | 2.7 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.9 | 0.94 \| 0.94 |
| MCPA | (ND) \| ND | 280 | 140 \| 140 |
| MCPP | (ND) \| ND | 280 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (57.96) \| 40.49 | 166.1 | (34.9) \| 24.4 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| Batch No. : 12C229 | Date Extracted: 03/31/12 11:20 |
| Sample ID: SL-059-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 14:53 |
| Lab Samp ID: C229-04 | Dilution Factor: 1 |
| Lab File ID: WD02014A | Matrix : SOIL |
| Ext Btch ID: HEC012S | % Moisture : 8.2 |
| Calib. Ref.: WD02006A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 2.0\|2.0 |
| 2,4-DB | (ND)\|31 | 1.9 | 0.93\|0.93 |
| 2,4,5-T | 0.39\|(ND) | 0.19 | 0.093\|0.093 |
| 2,4,5-TP(SILVEX) | 0.39\|(ND) | 0.19 | 0.093\|0.093 |
| DALAPON | 24\|(ND) | 9.8 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.65\|0.65 |
| DICHLOROPROP | 1.7J\|(ND) | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| MCPA | 880\|(ND) | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (164.6)\|127.9 | 163.4 | (101)\|78.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/22/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C229 | Date Extracted | : 03/31/12 11:20 |
| Sample ID | : SL-060-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/02/12 18:56 |
| Lab Samp ID | : C229-05 | Dilution Factor | : 1 |
| Lab File ID | : WD02026A | Matrix | : SOIL |
| Ext Btch ID | : HEC012S | % Moisture | : 5.5 |
| Calib. Ref. | : WD02024A | Instrument ID | : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 3.8 | 1.9 \| 1.9 |
| 2,4-DB | (ND) \| (1900) | 1.8 | 0.90 \| 0.90 |
| 2,4,5-T | 7.7 \| (ND) | 0.18 | 0.090 \| 0.090 |
| 2,4,5-TP(SILVEX) | 36 \| (ND) | 0.18 | 0.090 \| 0.090 |
| DALAPON | (ND) \| ND | 9.5 | 4.8 \| 4.8 |
| DICAMBA | (ND) \| ND | 1.3 | 0.63 \| 0.63 |
| DICHLOROPROP | (ND) \| 1.6J | 2.5 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.8 | 0.90 \| 0.90 |
| MCPA | (ND) \| ND | 260 | 130 \| 130 |
| MCPP | (ND) \| 170J | 260 | 130 \| 130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (122.2) \| 96.86 | 158.7 | (77.0) \| 61.0 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/22/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| Batch No. | : 12C229 | Date Extracted | : 03/31/12 11:20 |
| Sample ID | : SL-116-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/02/12 15:13 |
| Lab Samp ID | : C229-08 | Dilution Factor | : 1 |
| Lab File ID | : WD02015A | Matrix | : SOIL |
| Ext Btch ID | : HEC012S | % Moisture | : 10.6 |
| Calib. Ref. | : WD02006A | Instrument ID | : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| 12 | 4.0 | 2.0 \| 2.0 |
| 2,4-DB | (ND) \| 120 | 1.9 | 0.95 \| 0.95 |
| 2,4,5-T | 0.50 \| (ND) | 0.19 | 0.095 \| 0.095 |
| 2,4,5-TP(SILVEX) | 0.38 \| (ND) | 0.19 | 0.095 \| 0.095 |
| DALAPON | (ND) \| ND | 10 | 5.0 \| 5.0 |
| DICAMBA | (ND) \| ND | 1.3 | 0.67 \| 0.67 |
| DICHLOROPROP | 1.4J \| (ND) | 2.7 | 1.3 \| 1.3 |
| DINOSEB | 5.2 \| (ND) | 1.9 | 0.95 \| 0.95 |
| MCPA | 1800 \| (ND) | 280 | 140 \| 140 |
| MCPP | (ND) \| 490 | 280 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (139.3) \| 99.50 | 167.8 | (83.0) \| 59.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/31/12 |
| Batch No. : 12C229 | Date Extracted: 03/31/12 11:20 |
| Sample ID: MBLK1S | Date Analyzed: 04/02/12 12:32 |
| Lab Samp ID: HEC012SB | Dilution Factor: 1 |
| Lab File ID: WD02007A | Matrix : SOIL |
| Ext Btch ID: HEC012S | % Moisture : NA |
| Calib. Ref.: WD02006A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | 0.42\|(ND) | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (152.1)\|124.2 | 150.0 | (101)\|82.8 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HEC012SB | HEC012SL | HEC012SC | | |
| LAB FILE ID: | WD02007A | WD02008A | WD02009A | | |
| DATE EXTRACTED: | 03/31/1211:20 | 03/31/1211:20 | 03/31/1211:20 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/02/1212:32 | 04/02/1212:52 | 04/02/1213:12 | DATE RECEIVED: | 03/31/12 |
| PREP. BATCH: | HEC012S | HEC012S | HEC012S | | |
| CALIB. REF: | WD02006A | WD02006A | WD02006A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND) \| ND | 15.0 | (15.2) \| 13.7 | (101) \| 91 | 15.0 | (15.8) \| 14.8 | (105) \| 99 | (4) \| 8 | 20-130 | 50 |
| 2,4-DB | (ND) \| ND | 15.0 | 12.3 \| (14.3) | 82 \| (95) | 15.0 | 11.7 \| (17.8) | 78 \| (119) | 5 \| (22) | 20-160 | 50 |
| 2,4,5-T | (ND) \| ND | 15.0 | 13.7 \| (14.6) | 91 \| (97) | 15.0 | 14.1 \| (15.2) | 94 \| (101) | 3 \| (4) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | 0.42 \| (ND) | 15.0 | 15.3 \| (15.8) | 102 \| (105) | 15.0 | (15.5) \| 15.5 | (103) \| 103 | (1) \| 2 | 30-140 | 50 |
| Dalapon | (ND) \| ND | 15.0 | 5.71J \| (9.90) | 38 \| (66) | 15.0 | 7.66J \| (7.80J) | 51 \| (52) | 29 \| (24) | 20-160 | 50 |
| Dicamba | (ND) \| ND | 15.0 | (13.7) \| 12.7 | (91) \| 85 | 15.0 | (13.6) \| 13.0 | (91) \| 87 | (1) \| 2 | 50-150 | 50 |
| Dichloroprop | (ND) \| ND | 15.0 | 16.0 \| (17.3) | 107 \| (115) | 15.0 | 16.6 \| (18.8) | 111 \| (125) | 4 \| (8) | 60-160 | 50 |
| Dinoseb | (ND) \| ND | 15.0 | (8.68) \| 7.74 | (58) \| 52 | 15.0 | 10.1 \| (11.4) | 67 \| (76) | 15 \| (38) | 20-130 | 50 |
| MCPA | (ND) \| ND | 750 | 1580 \| (786) | 211* \| (105) | 750 | 1560 \| (856) | 208* \| (114) | 1 \| (9) | 20-160 | 50 |
| MCPP | (ND) \| ND | 750 | (651) \| 426 | (87) \| 57 | 750 | (860) \| 448 | (115) \| 60 | (28) \| 5 | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 (154.9) \| 130.0 | (103) \| 86.7 | 150.0 (158.5) \| 131.6 | (106) \| 87.7 | 10-150 | |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/22/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| SDG NO. | : 12C229 | Date Extracted | : 03/30/12 09:50 |
| Sample ID | : EB-NBZ-SB-032212 | Date Analyzed | : 04/04/12 18:15 |
| Lab Samp ID | : C229-01 | Dilution Factor | : 1 |
| Lab File ID | : 98D01094 | Matrix | : WATER |
| Ext Btch ID | : IMC038W | % Moisture | : NA |
| Calib. Ref. | : 98D01089 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Aluminum | 0.0458J | 0.100 | 0.0200 |
| Antimony | ND | 0.00100 | 0.000500 |
| Arsenic | ND | 0.00100 | 0.000200 |
| Barium | ND | 0.00100 | 0.000500 |
| Beryllium | ND | 0.00100 | 0.000100 |
| Boron | ND | 0.0100 | 0.00500 |
| Cadmium | ND | 0.00100 | 0.000200 |
| Calcium | 0.0365J | 0.100 | 0.0250 |
| Chromium | 0.000820J | 0.00100 | 0.000200 |
| Cobalt | ND | 0.00100 | 0.000200 |
| Copper | 0.00155 | 0.00100 | 0.000500 |
| Iron | 0.0177J | 0.100 | 0.0100 |
| Lead | 0.000121J | 0.00100 | 0.000100 |
| Magnesium | ND | 0.100 | 0.0100 |
| Manganese | 0.000213J | 0.00100 | 0.000200 |
| Molybdenum | ND | 0.00200 | 0.000500 |
| Nickel | ND | 0.00100 | 0.000200 |
| Potassium | ND | 0.100 | 0.0200 |
| Selenium | ND | 0.00100 | 0.000300 |
| Silver | ND | 0.00100 | 0.000200 |
| Sodium | 0.0505J | 0.100 | 0.0500 |
| Strontium | ND | 0.00200 | 0.00100 |
| Thallium | ND | 0.00100 | 0.000200 |
| Tin | ND | 0.00100 | 0.000200 |
| Titanium | ND | 0.00200 | 0.000500 |
| Vanadium | ND | 0.00100 | 0.000500 |
| Zinc | ND | 0.0200 | 0.0100 |
| Lithium | ND | 0.00200 | 0.000500 |
| Phosphorus | ND | 0.0500 | 0.0250 |
| Zirconium | ND | 0.00500 | 0.00200 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/30/12 |
| SDG NO. | : 12C229 | Date Extracted | : 03/30/12 09:50 |
| Sample ID | : MBLK1W | Date Analyzed | : 04/04/12 18:01 |
| Lab Samp ID | : IMC038WB | Dilution Factor | : 1 |
| Lab File ID | : 98D01091 | Matrix | : WATER |
| Ext Btch ID | : IMC038W | % Moisture | : NA |
| Calib. Ref. | : 98D01089 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Aluminum | ND | 0.100 | 0.0200 |
| Antimony | ND | 0.00100 | 0.000500 |
| Arsenic | ND | 0.00100 | 0.000200 |
| Barium | ND | 0.00100 | 0.000500 |
| Beryllium | ND | 0.00100 | 0.000100 |
| Boron | ND | 0.0100 | 0.00500 |
| Cadmium | ND | 0.00100 | 0.000200 |
| Calcium | ND | 0.100 | 0.0250 |
| Chromium | ND | 0.00100 | 0.000200 |
| Cobalt | ND | 0.00100 | 0.000200 |
| Copper | ND | 0.00100 | 0.000500 |
| Iron | ND | 0.100 | 0.0100 |
| Lead | ND | 0.00100 | 0.000100 |
| Magnesium | ND | 0.100 | 0.0100 |
| Manganese | ND | 0.00100 | 0.000200 |
| Molybdenum | ND | 0.00200 | 0.000500 |
| Nickel | ND | 0.00100 | 0.000200 |
| Potassium | ND | 0.100 | 0.0200 |
| Selenium | ND | 0.00100 | 0.000300 |
| Silver | ND | 0.00100 | 0.000200 |
| Sodium | ND | 0.100 | 0.0500 |
| Strontium | ND | 0.00200 | 0.00100 |
| Thallium | ND | 0.00100 | 0.000200 |
| Tin | ND | 0.00100 | 0.000200 |
| Titanium | ND | 0.00200 | 0.000500 |
| Vanadium | ND | 0.00100 | 0.000500 |
| Zinc | ND | 0.0200 | 0.0100 |
| Lithium | ND | 0.00200 | 0.000500 |
| Phosphorus | ND | 0.0500 | 0.0250 |
| Zirconium | ND | 0.00500 | 0.00200 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C229
METHOD: METHOD 6020

MATRIX: WATER % MOISTURE: NA
DILTN FACTR: 1 1 1
SAMPLE ID: MBLK1W
CONTROL NO.: IMC038WB IMC038WL IMC038WC
LAB FILE ID: 98D01091 98D01092 98D01093
DATIME EXTRCTD: 03/30/1209:50 03/30/1209:50 03/30/1209:50 DATE COLLECTED: NA
DATIME ANALYZD: 04/04/1218:01 04/04/1218:06 04/04/1218:10 DATE RECEIVED: 03/30/12
PREP. BATCH: IMC038W IMC038W IMC038W
CALIB. REF: 98D01089 98D01089 98D01089

ACCESSION:

| PARAMETER | BLNK RSLT mg/L | SPIKE AMT mg/L | BS RSLT mg/L | BS % REC | SPIKE AMT mg/L | BSD RSLT mg/L | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2.50 | 2.62 | 105 | 2.50 | 2.65 | 106 | 1 | 80-120 | 20 |
| Antimony | ND | 0.0250 | 0.0253 | 101 | 0.0250 | 0.0253 | 101 | 0 | 80-120 | 20 |
| Arsenic | ND | 0.0250 | 0.0247 | 99 | 0.0250 | 0.0246 | 98 | 0 | 80-120 | 20 |
| Barium | ND | 0.0250 | 0.0251 | 100 | 0.0250 | 0.0248 | 99 | 1 | 80-120 | 20 |
| Beryllium | ND | 0.0250 | 0.0238 | 95 | 0.0250 | 0.0241 | 96 | 1 | 80-120 | 20 |
| Boron | ND | 0.0250 | 0.0253 | 101 | 0.0250 | 0.0255 | 102 | 1 | 80-120 | 20 |
| Cadmium | ND | 0.0250 | 0.0249 | 100 | 0.0250 | 0.0250 | 100 | 0 | 80-120 | 20 |
| Calcium | ND | 2.50 | 2.71 | 108 | 2.50 | 2.72 | 109 | 1 | 80-120 | 20 |
| Chromium | ND | 0.0250 | 0.0236 | 94 | 0.0250 | 0.0236 | 94 | 0 | 80-120 | 20 |
| Cobalt | ND | 0.0250 | 0.0234 | 94 | 0.0250 | 0.0238 | 95 | 1 | 80-120 | 20 |
| Copper | ND | 0.0250 | 0.0232 | 93 | 0.0250 | 0.0235 | 94 | 1 | 80-120 | 20 |
| Iron | ND | 2.50 | 2.62 | 105 | 2.50 | 2.66 | 106 | 1 | 80-120 | 20 |
| Lead | ND | 0.0250 | 0.0247 | 99 | 0.0250 | 0.0245 | 98 | 1 | 80-120 | 20 |
| Magnesium | ND | 2.50 | 2.59 | 103 | 2.50 | 2.62 | 105 | 1 | 80-120 | 20 |
| Manganese | ND | 0.0250 | 0.0242 | 97 | 0.0250 | 0.0242 | 97 | 0 | 80-120 | 20 |
| Molybdenum | ND | 0.0250 | 0.0253 | 101 | 0.0250 | 0.0251 | 100 | 1 | 80-120 | 20 |
| Nickel | ND | 0.0250 | 0.0236 | 94 | 0.0250 | 0.0233 | 93 | 1 | 80-120 | 20 |
| Potassium | ND | 2.50 | 2.66 | 106 | 2.50 | 2.66 | 106 | 0 | 80-120 | 20 |
| Selenium | ND | 0.0250 | 0.0253 | 101 | 0.0250 | 0.0250 | 100 | 1 | 80-120 | 20 |
| Silver | ND | 0.0250 | 0.0254 | 101 | 0.0250 | 0.0253 | 101 | 0 | 80-120 | 20 |
| Sodium | ND | 2.50 | 2.51 | 100 | 2.50 | 2.54 | 102 | 1 | 80-120 | 20 |
| Strontium | ND | 0.0250 | 0.0251 | 100 | 0.0250 | 0.0250 | 100 | 1 | 80-120 | 20 |
| Thallium | ND | 0.0250 | 0.0245 | 98 | 0.0250 | 0.0244 | 98 | 0 | 80-120 | 20 |
| Tin | ND | 0.0250 | 0.0254 | 101 | 0.0250 | 0.0253 | 101 | 0 | 80-120 | 20 |
| Titanium | ND | 0.0250 | 0.0251 | 101 | 0.0250 | 0.0255 | 102 | 1 | 80-120 | 20 |
| Vanadium | ND | 0.0250 | 0.0239 | 96 | 0.0250 | 0.0238 | 95 | 0 | 80-120 | 20 |
| Zinc | ND | 0.0500 | 0.0525 | 105 | 0.0500 | 0.0509 | 102 | 3 | 80-120 | 20 |
| Lithium | ND | 0.0250 | 0.0245 | 98 | 0.0250 | 0.0245 | 98 | 0 | 80-120 | 20 |
| Phosphorus | ND | 0.250 | 0.255 | 102 | 0.250 | 0.259 | 104 | 2 | 80-120 | 20 |
| Zirconium | ND | 0.0250 | 0.0244 | 97 | 0.0250 | 0.0247 | 99 | 2 | 80-120 | 20 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/22/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| SDG NO. | : 12C229 | Date Extracted | : 04/02/12 11:14 |
| Sample ID | : SL-054-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/04/12 14:26 |
| Lab Samp ID | : C229-02 | Dilution Factor | : 0.976 |
| Lab File ID | : 98D01044 | Matrix | : SOIL |
| Ext Btch ID | : IMD002S | % Moisture | : 8.0 |
| Calib. Ref. | : 98D01035 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 5700 | 25.5 | 12.7 |
| Antimony | 0.768 | 0.212 | 0.106 |
| Arsenic | 5.72 | 0.424 | 0.212 |
| Barium | 83.5 | 0.424 | 0.212 |
| Beryllium | 0.242 | 0.106 | 0.0530 |
| Boron | ND | 5.30 | 2.65 |
| Cadmium | 0.462 | 0.106 | 0.0530 |
| Calcium | 157000 | 21.2 | 10.6 |
| Chromium | 31.6 | 0.424 | 0.212 |
| Cobalt | 4.35 | 0.106 | 0.0530 |
| Copper | 8.75 | 0.424 | 0.212 |
| Iron | 14100 | 21.2 | 10.6 |
| Lead | 17.8 | 0.212 | 0.106 |
| Magnesium | 9200 | 10.6 | 5.30 |
| Manganese | 182 | 0.530 | 0.265 |
| Molybdenum | 0.566 | 0.106 | 0.0530 |
| Nickel | 10.3 | 0.424 | 0.212 |
| Potassium | 2310 | 63.7 | 31.8 |
| Selenium | ND | 0.424 | 0.212 |
| Silver | ND | 0.106 | 0.0530 |
| Sodium | ND | 106 | 53.0 |
| Strontium | 283 | 0.530 | 0.265 |
| Thallium | 0.116 | 0.106 | 0.0530 |
| Tin | ND | 10.6 | 5.30 |
| Titanium | 542 | 1.06 | 0.530 |
| Vanadium | 20.2 | 0.106 | 0.0530 |
| Zinc | 56.0 | 3.18 | 1.59 |
| Lithium | 10.1 | 2.12 | 1.06 |
| Phosphorus | 381 | 12.7 | 6.37 |
| Zirconium | ND | 5.30 | 2.65 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/22/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| SDG NO. | : 12C229 | Date Extracted | : 04/02/12 11:14 |
| Sample ID | : SL-055-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/04/12 14:30 |
| Lab Samp ID | : C229-03 | Dilution Factor | : 0.980 |
| Lab File ID | : 98D01045 | Matrix | : SOIL |
| Ext Btch ID | : IMD002S | % Moisture | : 9.7 |
| Calib. Ref. | : 98D01035 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10300 | 26.0 | 13.0 |
| Antimony | 0.198J | 0.217 | 0.109 |
| Arsenic | 2.94 | 0.434 | 0.217 |
| Barium | 88.3 | 0.434 | 0.217 |
| Beryllium | 0.430 | 0.109 | 0.0543 |
| Boron | ND | 5.43 | 2.71 |
| Cadmium | 0.207 | 0.109 | 0.0543 |
| Calcium | 3030 | 21.7 | 10.9 |
| Chromium | 16.9 | 0.434 | 0.217 |
| Cobalt | 5.55 | 0.109 | 0.0543 |
| Copper | 7.80 | 0.434 | 0.217 |
| Iron | 19600 | 21.7 | 10.9 |
| Lead | 9.28 | 0.217 | 0.109 |
| Magnesium | 4980 | 10.9 | 5.43 |
| Manganese | 302 | 0.543 | 0.271 |
| Molybdenum | 0.435 | 0.109 | 0.0543 |
| Nickel | 10.5 | 0.434 | 0.217 |
| Potassium | 3740 | 65.1 | 32.6 |
| Selenium | ND | 0.434 | 0.217 |
| Silver | 0.0567J | 0.109 | 0.0543 |
| Sodium | 55.1J | 109 | 54.3 |
| Strontium | 14.0 | 0.543 | 0.271 |
| Thallium | 0.221 | 0.109 | 0.0543 |
| Tin | ND | 10.9 | 5.43 |
| Titanium | 973 | 1.09 | 0.543 |
| Vanadium | 35.5 | 0.109 | 0.0543 |
| Zinc | 56.3 | 3.26 | 1.63 |
| Lithium | 23.0 | 2.17 | 1.09 |
| Phosphorus | 464 | 13.0 | 6.51 |
| Zirconium | ND | 5.43 | 2.71 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/22/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| SDG NO. | : 12C229 | Date Extracted | : 04/02/12 11:14 |
| Sample ID | : SL-059-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/04/12 14:49 |
| Lab Samp ID | : C229-04 | Dilution Factor | : 0.980 |
| Lab File ID | : 98D01049 | Matrix | : SOIL |
| Ext Btch ID | : IMD002S | % Moisture | : 8.2 |
| Calib. Ref. | : 98D01047 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11200 | 25.6 | 12.8 |
| Antimony | 0.163J | 0.214 | 0.107 |
| Arsenic | 3.03 | 0.427 | 0.214 |
| Barium | 72.0 | 0.427 | 0.214 |
| Beryllium | 0.458 | 0.107 | 0.0534 |
| Boron | ND | 5.34 | 2.67 |
| Cadmium | 0.150 | 0.107 | 0.0534 |
| Calcium | 2270 | 21.4 | 10.7 |
| Chromium | 16.3 | 0.427 | 0.214 |
| Cobalt | 5.51 | 0.107 | 0.0534 |
| Copper | 6.98 | 0.427 | 0.214 |
| Iron | 19500 | 21.4 | 10.7 |
| Lead | 6.59 | 0.214 | 0.107 |
| Magnesium | 5510 | 10.7 | 5.34 |
| Manganese | 286 | 0.534 | 0.267 |
| Molybdenum | 0.359 | 0.107 | 0.0534 |
| Nickel | 10.1 | 0.427 | 0.214 |
| Potassium | 3570 | 64.1 | 32.0 |
| Selenium | ND | 0.427 | 0.214 |
| Silver | ND | 0.107 | 0.0534 |
| Sodium | 57.1J | 107 | 53.4 |
| Strontium | 9.99 | 0.534 | 0.267 |
| Thallium | 0.218 | 0.107 | 0.0534 |
| Tin | ND | 10.7 | 5.34 |
| Titanium | 995 | 1.07 | 0.534 |
| Vanadium | 36.0 | 0.107 | 0.0534 |
| Zinc | 52.3 | 3.20 | 1.60 |
| Lithium | 26.0 | 2.14 | 1.07 |
| Phosphorus | 379 | 12.8 | 6.41 |
| Zirconium | ND | 5.34 | 2.67 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/22/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/22/12 |
| SDG NO. | : 12C229 | Date Extracted | : 04/02/12 11:14 |
| Sample ID | : SL-060-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/04/12 14:53 |
| Lab Samp ID | : C229-05 | Dilution Factor | : 0.985 |
| Lab File ID | : 98D01050 | Matrix | : SOIL |
| Ext Btch ID | : IMD002S | % Moisture | : 5.5 |
| Calib. Ref. | : 98D01047 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9400 | 25.0 | 12.5 |
| Antimony | 1.44 | 0.208 | 0.104 |
| Arsenic | 6.88 | 0.417 | 0.208 |
| Barium | 109 | 0.417 | 0.208 |
| Beryllium | 0.410 | 0.104 | 0.0521 |
| Boron | 3.56J | 5.21 | 2.61 |
| Cadmium | 0.653 | 0.104 | 0.0521 |
| Calcium | 15900 | 20.8 | 10.4 |
| Chromium | 31.7 | 0.417 | 0.208 |
| Cobalt | 6.00 | 0.104 | 0.0521 |
| Copper | 25.8 | 0.417 | 0.208 |
| Iron | 24200 | 20.8 | 10.4 |
| Lead | 38.0 | 0.208 | 0.104 |
| Magnesium | 5560 | 10.4 | 5.21 |
| Manganese | 291 | 0.521 | 0.261 |
| Molybdenum | 1.58 | 0.104 | 0.0521 |
| Nickel | 15.8 | 0.417 | 0.208 |
| Potassium | 3600 | 62.5 | 31.3 |
| Selenium | ND | 0.417 | 0.208 |
| Silver | 0.0766J | 0.104 | 0.0521 |
| Sodium | ND | 104 | 52.1 |
| Strontium | 39.6 | 0.521 | 0.261 |
| Thallium | 0.204 | 0.104 | 0.0521 |
| Tin | 7.37J | 10.4 | 5.21 |
| Titanium | 800 | 1.04 | 0.521 |
| Vanadium | 33.0 | 0.104 | 0.0521 |
| Zinc | 84.5 | 3.13 | 1.56 |
| Lithium | 20.4 | 2.08 | 1.04 |
| Phosphorus | 500 | 12.5 | 6.25 |
| Zirconium | ND | 5.21 | 2.61 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| SDG NO. : 12C229 | Date Extracted: 04/02/12 11:14 |
| Sample ID: SL-061-NBZ-SB-1.0-2.0 | Date Analyzed: 04/04/12 14:58 |
| Lab Samp ID: C229-07 | Dilution Factor: 0.995 |
| Lab File ID: 98D01051 | Matrix : SOIL |
| Ext Btch ID: IMD002S | % Moisture : 4.8 |
| Calib. Ref.: 98D01047 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10400 | 25.1 | 12.5 |
| Antimony | 0.219 | 0.209 | 0.105 |
| Arsenic | 3.84 | 0.418 | 0.209 |
| Barium | 97.1 | 0.418 | 0.209 |
| Beryllium | 0.450 | 0.105 | 0.0523 |
| Boron | ND | 5.23 | 2.61 |
| Cadmium | 0.233 | 0.105 | 0.0523 |
| Calcium | 2660 | 20.9 | 10.5 |
| Chromium | 16.7 | 0.418 | 0.209 |
| Cobalt | 5.13 | 0.105 | 0.0523 |
| Copper | 7.34 | 0.418 | 0.209 |
| Iron | 19000 | 20.9 | 10.5 |
| Lead | 7.13 | 0.209 | 0.105 |
| Magnesium | 5010 | 10.5 | 5.23 |
| Manganese | 291 | 0.523 | 0.261 |
| Molybdenum | 0.474 | 0.105 | 0.0523 |
| Nickel | 10.9 | 0.418 | 0.209 |
| Potassium | 3590 | 62.7 | 31.4 |
| Selenium | ND | 0.418 | 0.209 |
| Silver | ND | 0.105 | 0.0523 |
| Sodium | 63.2J | 105 | 52.3 |
| Strontium | 17.7 | 0.523 | 0.261 |
| Thallium | 0.235 | 0.105 | 0.0523 |
| Tin | ND | 10.5 | 5.23 |
| Titanium | 889 | 1.05 | 0.523 |
| Vanadium | 32.9 | 0.105 | 0.0523 |
| Zinc | 54.8 | 3.14 | 1.57 |
| Lithium | 23.0 | 2.09 | 1.05 |
| Phosphorus | 429 | 12.5 | 6.27 |
| Zirconium | ND | 5.23 | 2.61 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/22/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/22/12 |
| SDG NO. : 12C229 | Date Extracted: 04/02/12 11:14 |
| Sample ID: SL-116-NBZ-SS-0.0-0.5 | Date Analyzed: 04/04/12 15:02 |
| Lab Samp ID: C229-08 | Dilution Factor: 0.980 |
| Lab File ID: 98D01052 | Matrix : SOIL |
| Ext Btch ID: IMD002S | % Moisture : 10.6 |
| Calib. Ref.: 98D01047 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11300 | 26.3 | 13.2 |
| Antimony | 0.427 | 0.219 | 0.110 |
| Arsenic | 14.8 | 0.438 | 0.219 |
| Barium | 72.7 | 0.438 | 0.219 |
| Beryllium | 0.547 | 0.110 | 0.0548 |
| Boron | ND | 5.48 | 2.74 |
| Cadmium | 0.206 | 0.110 | 0.0548 |
| Calcium | 2310 | 21.9 | 11.0 |
| Chromium | 18.1 | 0.438 | 0.219 |
| Cobalt | 5.42 | 0.110 | 0.0548 |
| Copper | 8.16 | 0.438 | 0.219 |
| Iron | 25900 | 21.9 | 11.0 |
| Lead | 9.03 | 0.219 | 0.110 |
| Magnesium | 4670 | 11.0 | 5.48 |
| Manganese | 306 | 0.548 | 0.274 |
| Molybdenum | 1.70 | 0.110 | 0.0548 |
| Nickel | 10.6 | 0.438 | 0.219 |
| Potassium | 3140 | 65.8 | 32.9 |
| Selenium | 0.291J | 0.438 | 0.219 |
| Silver | 0.0549J | 0.110 | 0.0548 |
| Sodium | 60.2J | 110 | 54.8 |
| Strontium | 14.9 | 0.548 | 0.274 |
| Thallium | 0.336 | 0.110 | 0.0548 |
| Tin | ND | 11.0 | 5.48 |
| Titanium | 976 | 1.10 | 0.548 |
| Vanadium | 49.5 | 0.110 | 0.0548 |
| Zinc | 55.5 | 3.29 | 1.64 |
| Lithium | 27.7 | 2.19 | 1.10 |
| Phosphorus | 439 | 13.2 | 6.58 |
| Zirconium | ND | 5.48 | 2.74 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/02/12 |
| SDG NO. | : 12C229 | Date Extracted | : 04/02/12 11:14 |
| Sample ID | : MBLK1S | Date Analyzed | : 04/04/12 13:01 |
| Lab Samp ID | : IMD002SB | Dilution Factor | : 1 |
| Lab File ID | : 98D01027 | Matrix | : SOIL |
| Ext Btch ID | : IMD002S | % Moisture | : NA |
| Calib. Ref. | : 98D01023 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C229
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IMD002SB | IMD002SL | IMD002SC | | |
| LAB FILE ID: | 98D01027 | 98D01028 | 98D01029 | | |
| DATIME EXTRCTD: | 04/02/1211:14 | 04/02/1211:14 | 04/02/1211:14 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/04/1213:01 | 04/04/1213:06 | 04/04/1213:11 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | IMD002S | IMD002S | IMD002S | | |
| CALIB. REF: | 98D01023 | 98D01023 | 98D01023 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2540 | 102 | 2500 | 2480 | 99 | 2 | 80-120 | 20 |
| Antimony | ND | 25.0 | 25.9 | 104 | 25.0 | 25.2 | 101 | 3 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 24.9 | 100 | 25.0 | 24.4 | 97 | 2 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.6 | 102 | 25.0 | 24.9 | 100 | 3 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 24.7 | 99 | 25.0 | 24.3 | 97 | 2 | 80-120 | 20 |
| Boron | ND | 25.0 | 25.6 | 102 | 25.0 | 25.2 | 101 | 1 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 25.5 | 102 | 25.0 | 24.7 | 99 | 3 | 80-120 | 20 |
| Calcium | ND | 2500 | 2680 | 107 | 2500 | 2630 | 105 | 2 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.7 | 99 | 25.0 | 24.1 | 96 | 3 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 24.7 | 99 | 25.0 | 23.8 | 95 | 3 | 80-120 | 20 |
| Copper | ND | 25.0 | 24.4 | 98 | 25.0 | 23.6 | 94 | 3 | 80-120 | 20 |
| Iron | ND | 2500 | 2560 | 102 | 2500 | 2490 | 100 | 3 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.1 | 101 | 25.0 | 24.5 | 98 | 2 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2530 | 101 | 2500 | 2470 | 99 | 2 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.1 | 101 | 25.0 | 24.3 | 97 | 3 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 25.6 | 103 | 25.0 | 24.8 | 99 | 3 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.3 | 97 | 25.0 | 23.5 | 94 | 3 | 80-120 | 20 |
| Potassium | ND | 2500 | 2640 | 105 | 2500 | 2560 | 102 | 3 | 80-120 | 20 |
| Selenium | ND | 25.0 | 24.9 | 99 | 25.0 | 23.6 | 94 | 5 | 80-120 | 20 |
| Silver | ND | 25.0 | 25.5 | 102 | 25.0 | 25.1 | 101 | 2 | 80-120 | 20 |
| Sodium | ND | 2500 | 2480 | 99 | 2500 | 2440 | 98 | 2 | 80-120 | 20 |
| Strontium | ND | 25.0 | 26.4 | 106 | 25.0 | 25.5 | 102 | 4 | 80-120 | 20 |
| Thallium | ND | 25.0 | 25.3 | 101 | 25.0 | 24.5 | 98 | 3 | 80-120 | 20 |
| Tin | ND | 25.0 | 27.7 | 111 | 25.0 | 26.8 | 107 | 3 | 80-120 | 20 |
| Titanium | ND | 25.0 | 25.0 | 100 | 25.0 | 24.3 | 97 | 3 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 24.9 | 100 | 25.0 | 24.2 | 97 | 3 | 80-120 | 20 |
| Zinc | ND | 50.0 | 48.7 | 97 | 50.0 | 47.2 | 94 | 3 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.4 | 102 | 25.0 | 25.1 | 100 | 1 | 80-120 | 20 |
| Phosphorus | ND | 250 | 244 | 98 | 250 | 237 | 95 | 3 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 25.4 | 101 | 25.0 | 24.6 | 98 | 3 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C229
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 7.3
DILTN FACTR: 0.962 0.962
SAMPLE ID: SL-057-NBZ-SS-0.0-0.5
CONTROL NO.: C254-08 C254-08A
LAB FILE ID: 98D01031 98D01030
DATIME EXTRCTD: 04/02/1211:14 04/02/1211:14 DATE COLLECTED: 03/23/12
DATIME ANALYZD: 04/04/1213:19 04/04/1213:15 DATE RECEIVED: 03/23/12
PREP. BATCH: IMD002S IMD002S
CALIB. REF: 98D01023 98D01023

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 12100 | 2590 | 14500 | 91 | 75-125 |
| Antimony | 0.387 | 25.9 | 26.3 | 100 | 75-125 |
| Arsenic | 4.19 | 25.9 | 28.2 | 93 | 75-125 |
| Barium | 92.4 | 25.9 | 118 | 101 | 75-125 |
| Beryllium | 0.488 | 25.9 | 26.2 | 99 | 75-125 |
| Boron | ND | 25.9 | 28.6 | 110 | 75-125 |
| Cadmium | 0.226 | 25.9 | 25.4 | 97 | 75-125 |
| Calcium | 2450 | 2590 | 4970 | 97 | 75-125 |
| Chromium | 19.4 | 25.9 | 41.9 | 87 | 75-125 |
| Cobalt | 5.29 | 25.9 | 28.2 | 88 | 75-125 |
| Copper | 8.03 | 25.9 | 29.6 | 83 | 75-125 |
| Iron | 20100 | 2590 | 22100 | 77 | 75-125 |
| Lead | 9.74 | 25.9 | 34.4 | 95 | 75-125 |
| Magnesium | 5370 | 2590 | 7770 | 93 | 75-125 |
| Manganese | 280 | 25.9 | 299 | 73* | 75-125 |
| Molybdenum | 0.840 | 25.9 | 26.8 | 100 | 75-125 |
| Nickel | 11.8 | 25.9 | 33.5 | 84 | 75-125 |
| Potassium | 3570 | 2590 | 6010 | 94 | 75-125 |
| Selenium | ND | 25.9 | 24.4 | 94 | 75-125 |
| Silver | ND | 25.9 | 25.1 | 97 | 75-125 |
| Sodium | 57.9J | 2590 | 2410 | 91 | 75-125 |
| Strontium | 13.8 | 25.9 | 39.6 | 99 | 75-125 |
| Thallium | 0.236 | 25.9 | 25.1 | 96 | 75-125 |
| Tin | ND | 25.9 | 29.8 | 115 | 75-125 |
| Titanium | 954 | 25.9 | 967 | 50* | 75-125 |
| Vanadium | 36.1 | 25.9 | 58.7 | 87 | 75-125 |
| Zinc | 53.5 | 51.9 | 101 | 92 | 75-125 |
| Lithium | 28.8 | 25.9 | 55.1 | 101 | 75-125 |
| Phosphorus | 399 | 259 | 633 | 90 | 75-125 |
| Zirconium | ND | 25.9 | 25.7 | 99 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 7.3
DILUTION FACTOR: 0.962 4.81
SAMPLE ID: SL-057-NBZ-SS- SL-057-NBZ-SS-
EMAX SAMP ID: C254-08 C254-08J
LAB FILE ID: 98D01031 98D01032
DATE EXTRACTED: 04/02/1211:14 04/02/1211:14 DATE COLLECTED: 03/23/12
DATE ANALYZED: 04/04/1213:19 04/04/1213:24 DATE RECEIVED: 03/23/12
PREP. BATCH: IMD002S IMD002S
CALIB. REF: 98D01023 98D01023

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 12100 | 12900 | 6 | 10 |
| Antimony | 0.387 | ND | NA | 10 |
| Arsenic | 4.19 | 4.25 | 2 | 10 |
| Barium | 92.4 | 87.5 | 5 | 10 |
| Beryllium | 0.488 | 0.451J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.226 | ND | NA | 10 |
| Calcium | 2450 | 2620 | 7 | 10 |
| Chromium | 19.4 | 20.4 | 5 | 10 |
| Cobalt | 5.29 | 5.59 | 6 | 10 |
| Copper | 8.03 | 8.75 | 9 | 10 |
| Iron | 20100 | 21200 | 5 | 10 |
| Lead | 9.74 | 9.92 | 2 | 10 |
| Magnesium | 5370 | 5760 | 7 | 10 |
| Manganese | 280 | 296 | 6 | 10 |
| Molybdenum | 0.840 | 0.865 | 3 | 10 |
| Nickel | 11.8 | 12.5 | 6 | 10 |
| Potassium | 3570 | 3600 | 1 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | 57.9J | ND | NA | 10 |
| Strontium | 13.8 | 13.6 | 2 | 10 |
| Thallium | 0.236 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 954 | 954 | 0 | 10 |
| Vanadium | 36.1 | 37.5 | 4 | 10 |
| Zinc | 53.5 | 54.7 | 2 | 10 |
| Lithium | 28.8 | 26.4 | 9 | 10 |
| Phosphorus | 399 | 392 | 2 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7470A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C229

Matrix : WATER
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | HGC023WB | ND | 1 | NA | 0.000500 | 0.000100 | 03/27/1215:50 | 03/27/1212:10 | M47C022010 | M47C022008 | HGC023W | NA | 03/27/12 |
| LCS1W | HGC023WL | 0.00500 | 1 | NA | 0.000500 | 0.000100 | 03/27/1215:52 | 03/27/1212:10 | M47C022011 | M47C022008 | HGC023W | NA | 03/27/12 |
| LCD1W | HGC023WC | 0.00495 | 1 | NA | 0.000500 | 0.000100 | 03/27/1215:54 | 03/27/1212:10 | M47C022012 | M47C022008 | HGC023W | NA | 03/27/12 |
| EB-NBZ-SB-032212 | C229-01 | ND | 1 | NA | 0.000500 | 0.000100 | 03/27/1217:02 | 03/27/1212:10 | M47C022043 | M47C022032 | HGC023W | 03/22/12 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C229
METHOD: METHOD 7470A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| CONTROL NO.: | HGC023WB | HGC023WL | HGC023WC | | |
| LAB FILE ID: | M47C022010 | M47C022011 | M47C022012 | | |
| DATIME EXTRCTD: | 03/27/1212:10 | 03/27/1212:10 | 03/27/1212:10 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 03/27/1215:50 | 03/27/1215:52 | 03/27/1215:54 | DATE RECEIVED: | 03/27/12 |
| PREP. BATCH: | HGC023W | HGC023W | HGC023W | | |
| CALIB. REF: | M47C022008 | M47C022008 | M47C022008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/L | SPIKE AMT mg/L | BS RSLT mg/L | BS % REC | SPIKE AMT mg/L | BSD RSLT mg/L | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .005 | .005 | 100 | .005 | .00495 | 99 | 1 | 80-120 | 20 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C229
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGC029SB | ND | 1 | NA | 0.100 | 0.0500 | 03/29/1218:57 | 03/29/1215:30 | M47C025039 | M47C025032 | HGC029S | NA | 03/29/12 |
| LCS1S | HGC029SL | 0.902 | 1 | NA | 0.100 | 0.0500 | 03/29/1218:59 | 03/29/1215:30 | M47C025040 | M47C025032 | HGC029S | NA | 03/29/12 |
| LCD1S | HGC029SC | 0.897 | 1 | NA | 0.100 | 0.0500 | 03/29/1219:01 | 03/29/1215:30 | M47C025041 | M47C025032 | HGC029S | NA | 03/29/12 |
| SL-054-NBZ-SS-0.0-0.5 | C229-02 | ND | 0.984 | 8.0 | 0.107 | 0.0535 | 03/29/1219:43 | 03/29/1215:30 | M47C025061 | M47C025056 | HGC029S | 03/22/12 | 03/22/12 |
| SL-055-NBZ-SS-0.0-0.5 | C229-03 | ND | 0.984 | 9.7 | 0.109 | 0.0545 | 03/29/1219:45 | 03/29/1215:30 | M47C025062 | M47C025056 | HGC029S | 03/22/12 | 03/22/12 |
| SL-059-NBZ-SS-0.0-0.5 | C229-04 | ND | 0.984 | 8.2 | 0.107 | 0.0536 | 03/29/1219:47 | 03/29/1215:30 | M47C025063 | M47C025056 | HGC029S | 03/22/12 | 03/22/12 |
| SL-060-NBZ-SS-0.0-0.5 | C229-05 | ND | 1.02 | 5.5 | 0.108 | 0.0540 | 03/29/1219:49 | 03/29/1215:30 | M47C025064 | M47C025056 | HGC029S | 03/22/12 | 03/22/12 |
| SL-061-NBZ-SB-1.0-2.0 | C229-07 | ND | 1.02 | 4.8 | 0.107 | 0.0536 | 03/29/1219:51 | 03/29/1215:30 | M47C025065 | M47C025056 | HGC029S | 03/22/12 | 03/22/12 |
| SL-116-NBZ-SS-0.0-0.5 | C229-08 | ND | 1.00 | 10.6 | 0.112 | 0.0559 | 03/29/1219:53 | 03/29/1215:30 | M47C025066 | M47C025056 | HGC029S | 03/22/12 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C229
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGC029SB | HGC029SL | HGC029SC | | |
| LAB FILE ID: | M47C025039 | M47C025040 | M47C025041 | | |
| DATIME EXTRCTD: | 03/29/1215:30 | 03/29/1215:30 | 03/29/1215:30 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 03/29/1218:57 | 03/29/1218:59 | 03/29/1219:01 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | HGC029S | HGC029S | HGC029S | | |
| CALIB. REF: | M47C025032 | M47C025032 | M47C025032 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .902 | 108 | .833 | .897 | 108 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C229
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 4.0 |
| DILTN FACTR: | 1.00 | 1.00 | | |
| SAMPLE ID: | B3-SB01-02 | | | |
| CONTROL NO.: | C226-08 | C226-08A | | |
| LAB FILE ID: | M47C025043 | M47C025042 | | |
| DATIME EXTRCTD: | 03/29/1215:30 | 03/29/1215:30 | DATE COLLECTED: | 03/21/12 |
| DATIME ANALYZD: | 03/29/1219:05 | 03/29/1219:03 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | HGC029S | HGC029S | | |
| CALIB. REF: | M47C025032 | M47C025032 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .868 | .903 | 104 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 4.0

| | | | | |
|---|---|---|---|---|
| DILUTION FACTOR: | 1.00 | 5.00 | | |
| SAMPLE ID: | B3-SB01-02 | B3-SB01-02DL | | |
| EMAX SAMP ID: | C226-08 | C226-08J | | |
| LAB FILE ID: | M47C025043 | M47C025046 | | |
| DATE EXTRACTED: | 03/29/1215:30 | 03/29/1215:30 | DATE COLLECTED: | 03/21/12 |
| DATE ANALYZED: | 03/29/1219:05 | 03/29/1219:11 | DATE RECEIVED: | 03/22/12 |
| PREP. BATCH: | HGC029S | HGC029S | | |
| CALIB. REF: | M47C025032 | M47C025044 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C229

Matrix : WATER
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | PCC011WB | ND | 1 | NA | 2.00 | 1.00 | 03/23/1211:39 | NA | JC23002 | JC23001 | PCC011W | NA | NA |
| LCS1W | PCC011WL | 23.3 | 1 | NA | 2.00 | 1.00 | 03/23/1213:05 | NA | JC23004 | JC23001 | PCC011W | NA | NA |
| LCD1W | PCC011WC | 23.5 | 1 | NA | 2.00 | 1.00 | 03/23/1213:32 | NA | JC23005 | JC23001 | PCC011W | NA | NA |
| EB-NBZ-SB-032212 | C229-01 | ND | 1 | NA | 2.00 | 1.00 | 03/23/1213:53 | NA | JC23006 | JC23001 | PCC011W | 03/22/1215:30 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | PCC011WB | PCC011WL | PCC011WC | | |
| LAB FILE ID: | JC23002 | JC23004 | JC23005 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1211:39 | 03/23/1213:05 | 03/23/1213:32 | DATE RECEIVED: | NA |
| PREP. BATCH: | PCC011W | PCC011W | PCC011W | | |
| CALIB. REF: | JC23001 | JC23001 | JC23001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 25.0 | 23.3 | 93 | 25.0 | 23.5 | 94 | 1 | 85-115 | 15 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C229

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD002SB | ND | 1 | NA | 20.0 | 10.0 | 04/04/1207:35 | 04/02/1215:30 | JD04048 | JD04047 | PCD002S | NA | 04/02/12 |
| LCS1S | PCD002SL | 254 | 1 | NA | 20.0 | 10.0 | 04/04/1208:17 | 04/02/1215:30 | JD04050 | JD04047 | PCD002S | NA | 04/02/12 |
| LCD1S | PCD002SC | 257 | 1 | NA | 20.0 | 10.0 | 04/04/1208:38 | 04/02/1215:30 | JD04051 | JD04047 | PCD002S | NA | 04/02/12 |
| SL-054-NBZ-SS-0.0-0.5 | C229-02 | ND | 1 | 8.0 | 21.7 | 10.9 | 04/04/1208:59 | 04/02/1215:30 | JD04052 | JD04047 | PCD002S | 03/22/1213:45 | 03/22/12 |
| SL-055-NBZ-SS-0.0-0.5 | C229-03 | ND | 1 | 9.7 | 22.1 | 11.1 | 04/04/1209:20 | 04/02/1215:30 | JD04053 | JD04047 | PCD002S | 03/22/1211:25 | 03/22/12 |
| SL-059-NBZ-SS-0.0-0.5 | C229-04 | ND | 1 | 8.2 | 21.8 | 10.9 | 04/04/1209:41 | 04/02/1215:30 | JD04054 | JD04047 | PCD002S | 03/22/1210:50 | 03/22/12 |
| SL-060-NBZ-SS-0.0-0.5 | C229-05 | ND | 1 | 5.5 | 21.2 | 10.6 | 04/04/1210:02 | 04/02/1215:30 | JD04055 | JD04047 | PCD002S | 03/22/1210:25 | 03/22/12 |
| SL-061-NBZ-SB-1.0-2.0 | C229-07 | ND | 1 | 4.8 | 21.0 | 10.5 | 04/04/1210:23 | 04/02/1215:30 | JD04056 | JD04047 | PCD002S | 03/22/1209:30 | 03/22/12 |
| SL-116-NBZ-SS-0.0-0.5 | C229-08 | ND | 1 | 10.6 | 22.4 | 11.2 | 04/04/1211:26 | 04/02/1215:30 | JD04059 | JD04058 | PCD002S | 03/22/1215:00 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD002SB | PCD002SL | PCD002SC | | |
| LAB FILE ID: | JD04048 | JD04050 | JD04051 | | |
| DATE EXTRACTED: | 04/02/1215:30 | 04/02/1215:30 | 04/02/1215:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/04/1207:35 | 04/04/1208:17 | 04/04/1208:38 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | PCD002S | PCD002S | PCD002S | | |
| CALIB. REF: | JD04047 | JD04047 | JD04047 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 254 | 102 | 250 | 257 | 103 | 1 | 85-115 | 15 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C229

Matrix : WATER
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | ICC047WB | ND | 1 | NA | 0.100 | 0.0500 | 03/23/1210:57 | NA | AC31-03 | AC31-01 | ICC047W | NA | NA |
| LCS1W | ICC047WL | 1.94 | 1 | NA | 0.100 | 0.0500 | 03/23/1211:13 | NA | AC31-04 | AC31-01 | ICC047W | NA | NA |
| LCD1W | ICC047WC | 1.95 | 1 | NA | 0.100 | 0.0500 | 03/23/1211:29 | NA | AC31-05 | AC31-01 | ICC047W | NA | NA |
| EB-NBZ-SB-032212 | C229-01 | ND | 1 | NA | 0.100 | 0.0500 | 03/23/1211:46 | NA | AC31-06 | AC31-01 | ICC047W | 03/22/1215:30 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | ICC047WB | ICC047WL | ICC047WC | | |
| LAB FILE ID: | AC31-03 | AC31-04 | AC31-05 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1210:57 | 03/23/1211:13 | 03/23/1211:29 | DATE RECEIVED: | NA |
| PREP. BATCH: | ICC047W | ICC047W | ICC047W | | |
| CALIB. REF: | AC31-01 | AC31-01 | AC31-01 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 2.00 | 1.94 | 97 | 2.00 | 1.95 | 98 | 0 | 90-110 | 20 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C229
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC007SB | ND | 1 | NA | 1.00 | 0.500 | 03/27/1220:46 | 03/27/1212:27 | AC35-23 | AC35-21 | ICC007S | NA | 03/27/12 |
| LCS1S | ICC007SL | 5.82 | 1 | NA | 1.00 | 0.500 | 03/27/1221:03 | 03/27/1212:27 | AC35-24 | AC35-21 | ICC007S | NA | 03/27/12 |
| LCD1S | ICC007SC | 5.82 | 1 | NA | 1.00 | 0.500 | 03/27/1221:19 | 03/27/1212:27 | AC35-25 | AC35-21 | ICC007S | NA | 03/27/12 |
| SL-054-NBZ-SS-0.0-0.5 | C229-02 | ND | 1 | 8.0 | 1.09 | 0.543 | 03/27/1221:35 | 03/27/1212:27 | AC35-26 | AC35-21 | ICC007S | 03/22/1213:45 | 03/22/12 |
| SL-055-NBZ-SS-0.0-0.5 | C229-03 | ND | 1 | 9.7 | 1.11 | 0.554 | 03/27/1221:51 | 03/27/1212:27 | AC35-27 | AC35-21 | ICC007S | 03/22/1211:25 | 03/22/12 |
| SL-059-NBZ-SS-0.0-0.5 | C229-04 | ND | 1 | 8.2 | 1.09 | 0.545 | 03/27/1222:07 | 03/27/1212:27 | AC35-28 | AC35-21 | ICC007S | 03/22/1210:50 | 03/22/12 |
| SL-060-NBZ-SS-0.0-0.5 | C229-05 | ND | 1 | 5.5 | 1.06 | 0.529 | 03/27/1222:23 | 03/27/1212:27 | AC35-29 | AC35-21 | ICC007S | 03/22/1210:25 | 03/22/12 |
| SL-061-NBZ-SB-1.0-2.0 | C229-07 | 0.584J | 1 | 4.8 | 1.05 | 0.525 | 03/27/1222:40 | 03/27/1212:27 | AC35-30 | AC35-21 | ICC007S | 03/22/1209:30 | 03/22/12 |
| SL-116-NBZ-SS-0.0-0.5 | C229-08 | ND | 1 | 10.6 | 1.12 | 0.559 | 03/27/1222:56 | 03/27/1212:27 | AC35-31 | AC35-21 | ICC007S | 03/22/1215:00 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC007SB | ICC007SL | ICC007SC | | |
| LAB FILE ID: | AC35-23 | AC35-24 | AC35-25 | | |
| DATE EXTRACTED: | 03/27/1212:27 | 03/27/1212:27 | 03/27/1212:27 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/27/1220:46 | 03/27/1221:03 | 03/27/1221:19 | DATE RECEIVED: | 03/27/12 |
| PREP. BATCH: | ICC007S | ICC007S | ICC007S | | |
| CALIB. REF: | AC35-21 | AC35-21 | AC35-21 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 5.82 | 97 | 6.00 | 5.82 | 97 | 0 | 90-110 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C229
Matrix : WATER
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | ICC047WB | ND | 1 | NA | 0.443 | 0.222 | 03/23/1210:57 | NA | AC31-03 | AC31-01 | ICC047W | NA | NA |
| LCS1W | ICC047WL | 8.61 | 1 | NA | 0.443 | 0.222 | 03/23/1211:13 | NA | AC31-04 | AC31-01 | ICC047W | NA | NA |
| LCD1W | ICC047WC | 8.64 | 1 | NA | 0.443 | 0.222 | 03/23/1211:29 | NA | AC31-05 | AC31-01 | ICC047W | NA | NA |
| EB-NBZ-SB-032212 | C229-01 | ND | 1 | NA | 0.443 | 0.222 | 03/23/1211:46 | NA | AC31-06 | AC31-01 | ICC047W | 03/22/1215:30 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | ICC047WB | ICC047WL | ICC047WC | | |
| LAB FILE ID: | AC31-03 | AC31-04 | AC31-05 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1210:57 | 03/23/1211:13 | 03/23/1211:29 | DATE RECEIVED: | NA |
| PREP. BATCH: | ICC047W | ICC047W | ICC047W | | |
| CALIB. REF: | AC31-01 | AC31-01 | AC31-01 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 8.86 | 8.61 | 97 | 8.86 | 8.64 | 97 | 0 | 90-110 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C229
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC007SB | ND | 1 | NA | 1.50 | 0.750 | 03/27/1220:46 | 03/27/1212:27 | AC35-23 | AC35-21 | ICC007S | NA | 03/27/12 |
| LCS1S | ICC007SL | 25.6 | 1 | NA | 1.50 | 0.750 | 03/27/1221:03 | 03/27/1212:27 | AC35-24 | AC35-21 | ICC007S | NA | 03/27/12 |
| LCD1S | ICC007SC | 25.6 | 1 | NA | 1.50 | 0.750 | 03/27/1221:19 | 03/27/1212:27 | AC35-25 | AC35-21 | ICC007S | NA | 03/27/12 |
| SL-054-NBZ-SS-0.0-0.5 | C229-02 | 4.39 | 1 | 8.0 | 1.63 | 0.815 | 03/27/1221:35 | 03/27/1212:27 | AC35-26 | AC35-21 | ICC007S | 03/22/1213:45 | 03/22/12 |
| SL-055-NBZ-SS-0.0-0.5 | C229-03 | 9.66 | 1 | 9.7 | 1.66 | 0.831 | 03/27/1221:51 | 03/27/1212:27 | AC35-27 | AC35-21 | ICC007S | 03/22/1211:25 | 03/22/12 |
| SL-059-NBZ-SS-0.0-0.5 | C229-04 | 4.10 | 1 | 8.2 | 1.63 | 0.817 | 03/27/1222:07 | 03/27/1212:27 | AC35-28 | AC35-21 | ICC007S | 03/22/1210:50 | 03/22/12 |
| SL-060-NBZ-SS-0.0-0.5 | C229-05 | 32.3 | 1 | 5.5 | 1.59 | 0.794 | 03/27/1222:23 | 03/27/1212:27 | AC35-29 | AC35-21 | ICC007S | 03/22/1210:25 | 03/22/12 |
| SL-061-NBZ-SB-1.0-2.0 | C229-07 | 14.6 | 1 | 4.8 | 1.58 | 0.788 | 03/27/1222:40 | 03/27/1212:27 | AC35-30 | AC35-21 | ICC007S | 03/22/1209:30 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC007SB | ICC007SL | ICC007SC | | |
| LAB FILE ID: | AC35-23 | AC35-24 | AC35-25 | | |
| DATE EXTRACTED: | 03/27/1212:27 | 03/27/1212:27 | 03/27/1212:27 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/27/1220:46 | 03/27/1221:03 | 03/27/1221:19 | DATE RECEIVED: | 03/27/12 |
| PREP. BATCH: | ICC007S | ICC007S | ICC007S | | |
| CALIB. REF: | AC35-21 | AC35-21 | AC35-21 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 25.6 | 96 | 26.6 | 25.6 | 96 | 0 | 90-110 | 20 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C229
Matrix : WATER
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | HCC015WB | ND | 1 | NA | 0.200 | 0.100 | 03/23/1210:22 | NA | IC26003 | IC26001 | HCC015W | NA | NA |
| MBLK1W | HCC015WQ | ND | 1 | NA | 0.200 | 0.100 | 03/23/1210:32 | NA | IC26004 | IC26001 | HCC015W | NA | NA |
| LCS1W | HCC015WL | 1.96 | 1 | NA | 0.200 | 0.100 | 03/23/1210:42 | NA | IC26005 | IC26001 | HCC015W | NA | NA |
| LCS1W | HCC015WX | 1.83 | 1 | NA | 0.200 | 0.100 | 03/23/1211:14 | NA | IC26006 | IC26001 | HCC015W | NA | NA |
| LCD1W | HCC015WC | 2.00 | 1 | NA | 0.200 | 0.100 | 03/23/1211:24 | NA | IC26007 | IC26001 | HCC015W | NA | NA |
| LCD1W | HCC015WY | 2.01 | 1 | NA | 0.200 | 0.100 | 03/23/1211:34 | NA | IC26008 | IC26001 | HCC015W | NA | NA |
| EB-NBZ-SB-032212 | C229-01 | ND | 1 | NA | 0.200 | 0.100 | 03/23/1211:45 | NA | IC26009 | IC26001 | HCC015W | 03/22/1215:30 | 03/22/12 |
| EB-NBZ-SB-032212 | C229-01R | ND | 1 | NA | 0.200 | 0.100 | 03/23/1211:55 | NA | IC26010 | IC26001 | HCC015W | 03/22/1215:30 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 10
SAMPLE ID: MBLK1S
LAB SAMP ID: HCC007SQ CIC007SX
LAB FILE ID: IC30026 IC30030
DATE EXTRACTED: 03/27/1217:42 03/27/1217:42 DATE COLLECTED: NA
DATE ANALYZED: 03/28/1219:19 03/28/1220:00 DATE RECEIVED: 03/27/12
PREP. BATCH: HCC007S HCC007S
CALIB. REF: IC30023 IC30023

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 272 | 255 | 94 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: 7199

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HCC015WB | HCC015WL | HCC015WC | | |
| LAB FILE ID: | IC26003 | IC26005 | IC26007 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/23/1210:22 | 03/23/1210:42 | 03/23/1211:24 | DATE RECEIVED: | NA |
| PREP. BATCH: | HCC015W | HCC015W | HCC015W | | |
| CALIB. REF: | IC26001 | IC26001 | IC26001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 2.00 | 1.96 | 98 | 2.00 | 2.00 | 100 | 2 | 80-120 | 20 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C229
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCC007SB | ND | 1 | NA | 1.00 | 0.500 | 03/28/1219:08 | 03/27/1217:42 | IC30025 | IC30023 | HCC007S | NA | 03/27/12 |
| MBLK1S | HCC007SQ | ND | 1 | NA | 1.00 | 0.500 | 03/28/1219:19 | 03/27/1217:42 | IC30026 | IC30023 | HCC007S | NA | 03/27/12 |
| LCS1S | CSC007SL | 9.81 | 1 | NA | 1.00 | 0.500 | 03/28/1219:29 | 03/27/1217:42 | IC30027 | IC30023 | HCC007S | NA | 03/27/12 |
| LCS1S | CSC007SX | 9.89 | 1 | NA | 1.00 | 0.500 | 03/28/1219:40 | 03/27/1217:42 | IC30028 | IC30023 | HCC007S | NA | 03/27/12 |
| LCS2S | CIC007SL | 244 | 10 | NA | 10.0 | 5.00 | 03/28/1219:50 | 03/27/1217:42 | IC30029 | IC30023 | HCC007S | NA | 03/27/12 |
| LCS2S | CIC007SX | 255 | 10 | NA | 10.0 | 5.00 | 03/28/1220:00 | 03/27/1217:42 | IC30030 | IC30023 | HCC007S | NA | 03/27/12 |
| SL-054-NBZ-SS-0.0-0.5 | C229-02 | ND | 1 | 8.0 | 1.09 | 0.543 | 03/28/1220:11 | 03/27/1217:42 | IC30031 | IC30023 | HCC007S | 03/22/1213:45 | 03/22/12 |
| SL-054-NBZ-SS-0.0-0.5 | C229-02R | ND | 1 | 8.0 | 1.09 | 0.543 | 03/28/1220:21 | 03/27/1217:42 | IC30032 | IC30023 | HCC007S | 03/22/1213:45 | 03/22/12 |
| SL-055-NBZ-SS-0.0-0.5 | C229-03 | ND | 1 | 9.7 | 1.11 | 0.554 | 03/28/1220:32 | 03/27/1217:42 | IC30033 | IC30023 | HCC007S | 03/22/1211:25 | 03/22/12 |
| SL-055-NBZ-SS-0.0-0.5 | C229-03R | ND | 1 | 9.7 | 1.11 | 0.554 | 03/28/1220:42 | 03/27/1217:42 | IC30034 | IC30023 | HCC007S | 03/22/1211:25 | 03/22/12 |
| SL-059-NBZ-SS-0.0-0.5 | C229-04 | ND | 1 | 8.2 | 1.09 | 0.545 | 03/28/1221:24 | 03/27/1217:42 | IC30037 | IC30035 | HCC007S | 03/22/1210:50 | 03/22/12 |
| SL-059-NBZ-SS-0.0-0.5 | C229-04R | ND | 1 | 8.2 | 1.09 | 0.545 | 03/28/1221:34 | 03/27/1217:42 | IC30038 | IC30035 | HCC007S | 03/22/1210:50 | 03/22/12 |
| SL-060-NBZ-SS-0.0-0.5 | C229-05 | ND | 1 | 5.5 | 1.06 | 0.529 | 03/28/1221:45 | 03/27/1217:42 | IC30039 | IC30035 | HCC007S | 03/22/1210:25 | 03/22/12 |
| SL-060-NBZ-SS-0.0-0.5 | C229-05R | ND | 1 | 5.5 | 1.06 | 0.529 | 03/28/1221:55 | 03/27/1217:42 | IC30040 | IC30035 | HCC007S | 03/22/1210:25 | 03/22/12 |
| SL-061-NBZ-SB-1.0-2.0 | C229-07 | ND | 1 | 4.8 | 1.05 | 0.525 | 03/28/1222:05 | 03/27/1217:42 | IC30041 | IC30035 | HCC007S | 03/22/1209:30 | 03/22/12 |
| SL-061-NBZ-SB-1.0-2.0 | C229-07R | ND | 1 | 4.8 | 1.05 | 0.525 | 03/28/1222:16 | 03/27/1217:42 | IC30042 | IC30035 | HCC007S | 03/22/1209:30 | 03/22/12 |
| SL-116-NBZ-SS-0.0-0.5 | C229-08 | ND | 1 | 10.6 | 1.12 | 0.559 | 03/28/1222:26 | 03/27/1217:42 | IC30043 | IC30035 | HCC007S | 03/22/1215:00 | 03/22/12 |
| SL-116-NBZ-SS-0.0-0.5 | C229-08R | ND | 1 | 10.6 | 1.12 | 0.559 | 03/28/1222:37 | 03/27/1217:42 | IC30044 | IC30035 | HCC007S | 03/22/1215:00 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 10 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCC007SB | CIC007SL | | |
| LAB FILE ID: | IC30025 | IC30029 | | |
| DATE EXTRACTED: | 03/27/1217:42 | 03/27/1217:42 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/28/1219:08 | 03/28/1219:50 | DATE RECEIVED: | 03/27/12 |
| PREP. BATCH: | HCC007S | HCC007S | | |
| CALIB. REF: | IC30023 | IC30023 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 272 | 244 | 90 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCC007SQ | CSC007SX | | |
| LAB FILE ID: | IC30026 | IC30028 | | |
| DATE EXTRACTED: | 03/27/1217:42 | 03/27/1217:42 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/28/1219:19 | 03/28/1219:40 | DATE RECEIVED: | 03/27/12 |
| PREP. BATCH: | HCC007S | HCC007S | | |
| CALIB. REF: | IC30023 | IC30023 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 9.89 | 99 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C229
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCC007SB | CSC007SL | | |
| LAB FILE ID: | IC30025 | IC30027 | | |
| DATE EXTRACTED: | 03/27/1217:42 | 03/27/1217:42 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/28/1219:08 | 03/28/1219:29 | DATE RECEIVED: | 03/27/12 |
| PREP. BATCH: | HCC007S | HCC007S | | |
| CALIB. REF: | IC30023 | IC30023 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 9.81 | 98 | 80-120 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C229

Matrix : WATER
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | CNC014WB | ND | 1 | NA | 0.0100 | 0.00500 | 03/30/1218:22 | 03/30/1213:05 | CNC01410 | CNC01408 | CNC014W | NA | 03/30/12 |
| LCS1W | CNC014WL | 0.0889 | 1 | NA | 0.0100 | 0.00500 | 03/30/1218:22 | 03/30/1213:05 | CNC01411 | CNC01408 | CNC014W | NA | 03/30/12 |
| LCD1W | CNC014WC | 0.0873 | 1 | NA | 0.0100 | 0.00500 | 03/30/1218:22 | 03/30/1213:05 | CNC01412 | CNC01408 | CNC014W | NA | 03/30/12 |
| EB-NBZ-SB-032212 | C229-01 | ND | 1 | NA | 0.0100 | 0.00500 | 03/30/1218:23 | 03/30/1213:05 | CNC01414 | CNC01408 | CNC014W | 03/22/1215:30 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 12C229
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: CNC014WL/C

DATE RECEIVED: 03/30/12
DATE EXTRACTED: 03/30/1213:05
DATE ANALYZED: 03/30/1218:22/18:22

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 0.100 | 0.0889 | 89 | 0.100 | 0.0873 | 87 | 2 | 85-115 | 20 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C229

Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CNC012SB | ND | 1 | NA | 0.500 | 0.250 | 03/27/1218:14 | 03/27/1210:30 | CNC01210 | CNC01208 | CNC012S | NA | 03/27/12 |
| LCS1S | CNC012SL | 2.84 | 1 | NA | 0.500 | 0.250 | 03/27/1218:14 | 03/27/1210:30 | CNC01211 | CNC01208 | CNC012S | NA | 03/27/12 |
| LCD1S | CNC012SC | 2.66 | 1 | NA | 0.500 | 0.250 | 03/27/1218:15 | 03/27/1210:30 | CNC01212 | CNC01208 | CNC012S | NA | 03/27/12 |
| SL-054-NBZ-SS-0.0-0.5 | C229-02 | 4.08 | 1 | 8.0 | 0.543 | 0.272 | 03/27/1218:19 | 03/27/1210:30 | CNC01225 | CNC01220 | CNC012S | 03/22/1213:45 | 03/22/12 |
| SL-055-NBZ-SS-0.0-0.5 | C229-03 | ND | 1 | 9.7 | 0.554 | 0.277 | 03/27/1218:19 | 03/27/1210:30 | CNC01226 | CNC01220 | CNC012S | 03/22/1211:25 | 03/22/12 |
| SL-059-NBZ-SS-0.0-0.5 | C229-04 | ND | 1 | 8.2 | 0.545 | 0.272 | 03/27/1218:19 | 03/27/1210:30 | CNC01227 | CNC01220 | CNC012S | 03/22/1210:50 | 03/22/12 |
| SL-060-NBZ-SS-0.0-0.5 | C229-05 | ND | 1 | 5.5 | 0.529 | 0.265 | 03/27/1218:20 | 03/27/1210:30 | CNC01228 | CNC01220 | CNC012S | 03/22/1210:25 | 03/22/12 |
| SL-061-NBZ-SB-1.0-2.0 | C229-07 | ND | 1 | 4.8 | 0.525 | 0.263 | 03/27/1218:20 | 03/27/1210:30 | CNC01229 | CNC01220 | CNC012S | 03/22/1209:30 | 03/22/12 |
| SL-061-NBZ-SB-1.0-2.0DUP | C229-07D | ND | 1 | 4.8 | 0.525 | 0.263 | 03/27/1218:21 | 03/27/1210:30 | CNC01230 | CNC01220 | CNC012S | 03/22/1209:30 | 03/22/12 |
| SL-061-NBZ-SB-1.0-2.0MS | C229-07M | 3.01 | 1 | 4.8 | 0.525 | 0.263 | 03/27/1218:21 | 03/27/1210:30 | CNC01231 | CNC01220 | CNC012S | 03/22/1209:30 | 03/22/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C229
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CNC012SL/C

DATE RECEIVED: 03/27/12
DATE EXTRACTED: 03/27/1210:30
DATE ANALYZED: 03/27/1218:14/18:15

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.84 | 114 | 2.50 | 2.66 | 106 | 7 | 85-125 | 20 |

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: 4.8

BATCH NO.: 12C229 DATE RECEIVED: 03/22/12
SAMPLE ID: SL-061-NBZ-SB-1.0-2.0MS DATE EXTRACTED: 03/27/1210:30
CONTROL NO.: C229-07M DATE ANALYZED: 03/27/1218:21

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Cyanide | ND | 2.60 | 3.01 | 116 | 75-125 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: 4.8

BATCH NO.: 12C229 DATE RECEIVED: 03/22/12
SAMPLE ID: SL-061-NBZ-SB-1.0-2.0DUP DATE EXTRACTED: 03/27/1210:30
CONTROL NO.: C229-07D DATE ANALYZED: 03/27/1218:21

ACCESSION:

| PARAMETER | SAMPLE (mg/kg) | DUP. SAMPLE (mg/kg) | RPD ( % ) | RPD LIMIT ( % ) |
|---|---|---|---|---|
| Cyanide | ND | ND | 0 | 20 |

METHOD 9040C
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C229
Matrix : WATER
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EB-NBZ-SB-032212 | C229-01 | 5.68 | 1 | NA | NA | NA | 03/22/1219:01 | NA | 12PHC019W01 | PHC019W | PHC019W | 03/22/1215:30 | 03/22/12 |
| EB-NBZ-SB-032212DUP | C229-01D | 5.65 | 1 | NA | NA | NA | 03/22/1219:04 | NA | 12PHC019W02 | PHC019W | PHC019W | 03/22/1215:30 | 03/22/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9040C
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 12C229 DATE RECEIVED: 03/22/12
SAMPLE ID: EB-NBZ-SB-032212DUP DATE EXTRACTED: NA
CONTROL NO.: C229-01D DATE ANALYZED: 03/22/1219:04

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 5.68 | 5.65 | 0.03 | 0.10 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C229
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-054-NBZ-SS-0.0-0.5 | C229-02 | 8.10 | 1 | NA | NA | NA | 03/23/1217:35 | 03/23/1217:35 | 12PHC021S01 | PHC021S | PHC021S | 03/22/1213:45 | 03/22/12 |
| SL-055-NBZ-SS-0.0-0.5 | C229-03 | 6.59 | 1 | NA | NA | NA | 03/23/1217:37 | 03/23/1217:35 | 12PHC021S02 | PHC021S | PHC021S | 03/22/1211:25 | 03/22/12 |
| SL-059-NBZ-SS-0.0-0.5 | C229-04 | 6.48 | 1 | NA | NA | NA | 03/23/1217:39 | 03/23/1217:35 | 12PHC021S03 | PHC021S | PHC021S | 03/22/1210:50 | 03/22/12 |
| SL-060-NBZ-SS-0.0-0.5 | C229-05 | 7.72 | 1 | NA | NA | NA | 03/23/1217:41 | 03/23/1217:35 | 12PHC021S04 | PHC021S | PHC021S | 03/22/1210:25 | 03/22/12 |
| SL-060-NBZ-SS-0.0-0.5DUP | C229-05D | 7.80 | 1 | NA | NA | NA | 03/23/1217:48 | 03/23/1217:35 | 12PHC021S05 | PHC021S | PHC021S | 03/22/1210:25 | 03/22/12 |
| SL-061-NBZ-SB-1.0-2.0 | C229-07 | 6.54 | 1 | NA | NA | NA | 03/23/1217:49 | 03/23/1217:35 | 12PHC021S06 | PHC021S | PHC021S | 03/22/1209:30 | 03/22/12 |
| SL-116-NBZ-SS-0.0-0.5 | C229-08 | 6.08 | 1 | NA | NA | NA | 03/23/1217:50 | 03/23/1217:35 | 12PHC021S07 | PHC021S | PHC021S | 03/22/1215:00 | 03/22/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C229 DATE RECEIVED: 03/22/12
SAMPLE ID: SL-060-NBZ-SS-0.0-0.5DUP DATE EXTRACTED: 03/23/1217:35
CONTROL NO.: C229-05D DATE ANALYZED: 03/23/1217:48

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 7.72 | 7.80 | -0.08 | 0.10 |

# SAMPLE DELIVERY GROUP

# 12C254

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-048-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 21:39 |
| Lab Samp ID: C254-01 | Dilution Factor: 1 |
| Lab File ID: RDJ030 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 11.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 95 |
| 1,2-DICHLOROBENZENE | ND | 190 | 95 |
| 1,3-DICHLOROBENZENE | ND | 190 | 95 |
| 1,4-DICHLOROBENZENE | ND | 190 | 95 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 95 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 95 |
| 2,6-DINITROTOLUENE | ND | 190 | 95 |
| 2-CHLORONAPHTHALENE | ND | 190 | 95 |
| 2-CHLOROPHENOL | ND | 190 | 95 |
| 2-METHYLNAPHTHALENE | ND | 190 | 95 |
| 2-METHYLPHENOL | ND | 190 | 95 |
| 2-NITROANILINE | ND | 190 | 95 |
| 2-NITROPHENOL | ND | 190 | 95 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 95 |
| 3-NITROANILINE | ND | 190 | 95 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 95 |
| 4-CHLOROANILINE | ND | 190 | 95 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-METHYLPHENOL (1) | ND | 190 | 95 |
| 4-NITROANILINE | ND | 190 | 95 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 95 |
| ACENAPHTHYLENE | ND | 190 | 95 |
| ANTHRACENE | ND | 190 | 95 |
| BENZO(A)ANTHRACENE | ND | 190 | 95 |
| BENZO(A)PYRENE | ND | 190 | 95 |
| BENZO(B)FLUORANTHENE | ND | 190 | 95 |
| BENZO(K)FLUORANTHENE | ND | 190 | 95 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 95 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 95 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 95 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 95 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 95 |
| CHRYSENE | ND | 190 | 95 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 95 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 95 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 95 |
| DIBENZOFURAN | ND | 190 | 95 |
| DIETHYLPHTHALATE | ND | 190 | 95 |
| DIMETHYLPHTHALATE | ND | 190 | 95 |
| FLUORANTHENE | ND | 190 | 95 |
| FLUORENE | ND | 190 | 95 |
| HEXACHLOROBENZENE | ND | 190 | 95 |
| HEXACHLOROBUTADIENE | ND | 190 | 95 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 95 |
| HEXACHLOROETHANE | ND | 190 | 95 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 95 |
| ISOPHORONE | ND | 190 | 95 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 95 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 95 |
| NAPHTHALENE | ND | 190 | 95 |
| NITROBENZENE | ND | 190 | 95 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 95 |
| PHENOL | ND | 190 | 95 |
| PYRENE | ND | 190 | 95 |
| BENZYL ALCOHOL | ND | 190 | 95 |
| 1-METHYLNAPHTHALENE | ND | 190 | 95 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 95 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 95 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 940 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 95 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 95 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1030 | 1134 | 90.9 | 35-130 |
| 2-FLUOROBIPHENYL | 278 | 377.9 | 73.5 | 45-130 |
| 2-FLUOROPHENOL | 766 | 1134 | 67.6 | 25-130 |
| NITROBENZENE-D5 | 245 | 377.9 | 64.8 | 40-130 |
| PHENOL-D5 | 831 | 1134 | 73.3 | 25-120 |
| TERPHENYL-D14 | 351 | 377.9 | 92.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-048-NBZ-SB-4.0-5.0 | Date Analyzed: 04/02/12 21:58 |
| Lab Samp ID: C254-03 | Dilution Factor: 1 |
| Lab File ID: RDJ031 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 4.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 88 |
| 1,2-DICHLOROBENZENE | ND | 170 | 88 |
| 1,3-DICHLOROBENZENE | ND | 170 | 88 |
| 1,4-DICHLOROBENZENE | ND | 170 | 88 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 88 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 88 |
| 2,4-DICHLOROPHENOL | ND | 170 | 88 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 88 |
| 2,4-DINITROPHENOL | ND | 350 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 88 |
| 2,6-DINITROTOLUENE | ND | 170 | 88 |
| 2-CHLORONAPHTHALENE | ND | 170 | 88 |
| 2-CHLOROPHENOL | ND | 170 | 88 |
| 2-METHYLNAPHTHALENE | ND | 170 | 88 |
| 2-METHYLPHENOL | ND | 170 | 88 |
| 2-NITROANILINE | ND | 170 | 88 |
| 2-NITROPHENOL | ND | 170 | 88 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 88 |
| 3-NITROANILINE | ND | 170 | 88 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 88 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 88 |
| 4-CHLOROANILINE | ND | 170 | 88 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 88 |
| 4-METHYLPHENOL (1) | ND | 170 | 88 |
| 4-NITROANILINE | ND | 170 | 88 |
| 4-NITROPHENOL | ND | 350 | 170 |
| ACENAPHTHENE | ND | 170 | 88 |
| ACENAPHTHYLENE | ND | 170 | 88 |
| ANTHRACENE | 120J | 170 | 88 |
| BENZO(A)ANTHRACENE | 660 | 170 | 88 |
| BENZO(A)PYRENE | 450 | 170 | 88 |
| BENZO(B)FLUORANTHENE | 690 | 170 | 88 |
| BENZO(K)FLUORANTHENE | 240 | 170 | 88 |
| BENZO(G,H,I)PERYLENE | 210 | 170 | 88 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 88 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 88 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 88 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 88 |
| CHRYSENE | 600 | 170 | 88 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 88 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 88 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 88 |
| DIBENZOFURAN | ND | 170 | 88 |
| DIETHYLPHTHALATE | ND | 170 | 88 |
| DIMETHYLPHTHALATE | ND | 170 | 88 |
| FLUORANTHENE | 1400 | 170 | 88 |
| FLUORENE | ND | 170 | 88 |
| HEXACHLOROBENZENE | ND | 170 | 88 |
| HEXACHLOROBUTADIENE | ND | 170 | 88 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 88 |
| HEXACHLOROETHANE | ND | 170 | 88 |
| INDENO(1,2,3-CD)PYRENE | 190 | 170 | 88 |
| ISOPHORONE | ND | 170 | 88 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 88 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 88 |
| NAPHTHALENE | ND | 170 | 88 |
| NITROBENZENE | ND | 170 | 88 |
| PENTACHLOROPHENOL | ND | 350 | 170 |
| PHENANTHRENE | 580 | 170 | 88 |
| PHENOL | ND | 170 | 88 |
| PYRENE | 1200 | 170 | 88 |
| BENZYL ALCOHOL | ND | 170 | 88 |
| 1-METHYLNAPHTHALENE | ND | 170 | 88 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 88 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 88 |
| ANILINE | ND | 350 | 170 |
| BENZIDINE | ND | 870 | 440 |
| BENZOIC ACID | ND | 700 | 350 |
| CARBAZOLE | 110J | 170 | 88 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 88 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 948 | 1047 | 90.5 | 35-130 |
| 2-FLUOROBIPHENYL | 255 | 349.0 | 72.9 | 45-130 |
| 2-FLUOROPHENOL | 725 | 1047 | 69.2 | 25-130 |
| NITROBENZENE-D5 | 223 | 349.0 | 63.8 | 40-130 |
| PHENOL-D5 | 761 | 1047 | 72.7 | 25-120 |
| TERPHENYL-D14 | 343 | 349.0 | 98.4 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-049-NBZ-SB-2.0-3.0 | Date Analyzed: 04/02/12 22:16 |
| Lab Samp ID: C254-05 | Dilution Factor: 1 |
| Lab File ID: RDJ032 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 3.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 87 |
| 1,2-DICHLOROBENZENE | ND | 170 | 87 |
| 1,3-DICHLOROBENZENE | ND | 170 | 87 |
| 1,4-DICHLOROBENZENE | ND | 170 | 87 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 87 |
| 2,4-DINITROPHENOL | ND | 350 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 87 |
| 2,6-DINITROTOLUENE | ND | 170 | 87 |
| 2-CHLORONAPHTHALENE | ND | 170 | 87 |
| 2-CHLOROPHENOL | ND | 170 | 87 |
| 2-METHYLNAPHTHALENE | ND | 170 | 87 |
| 2-METHYLPHENOL | ND | 170 | 87 |
| 2-NITROANILINE | ND | 170 | 87 |
| 2-NITROPHENOL | ND | 170 | 87 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 87 |
| 3-NITROANILINE | ND | 170 | 87 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 87 |
| 4-CHLOROANILINE | ND | 170 | 87 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-METHYLPHENOL (1) | ND | 170 | 87 |
| 4-NITROANILINE | ND | 170 | 87 |
| 4-NITROPHENOL | ND | 350 | 170 |
| ACENAPHTHENE | ND | 170 | 87 |
| ACENAPHTHYLENE | ND | 170 | 87 |
| ANTHRACENE | ND | 170 | 87 |
| BENZO(A)ANTHRACENE | ND | 170 | 87 |
| BENZO(A)PYRENE | ND | 170 | 87 |
| BENZO(B)FLUORANTHENE | ND | 170 | 87 |
| BENZO(K)FLUORANTHENE | ND | 170 | 87 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 87 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 87 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 87 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 87 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 87 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 87 |
| CHRYSENE | ND | 170 | 87 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 87 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 87 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 87 |
| DIBENZOFURAN | ND | 170 | 87 |
| DIETHYLPHTHALATE | ND | 170 | 87 |
| DIMETHYLPHTHALATE | ND | 170 | 87 |
| FLUORANTHENE | ND | 170 | 87 |
| FLUORENE | ND | 170 | 87 |
| HEXACHLOROBENZENE | ND | 170 | 87 |
| HEXACHLOROBUTADIENE | ND | 170 | 87 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 87 |
| HEXACHLOROETHANE | ND | 170 | 87 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 87 |
| ISOPHORONE | ND | 170 | 87 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 87 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 87 |
| NAPHTHALENE | ND | 170 | 87 |
| NITROBENZENE | ND | 170 | 87 |
| PENTACHLOROPHENOL | ND | 350 | 170 |
| PHENANTHRENE | ND | 170 | 87 |
| PHENOL | ND | 170 | 87 |
| PYRENE | ND | 170 | 87 |
| BENZYL ALCOHOL | ND | 170 | 87 |
| 1-METHYLNAPHTHALENE | ND | 170 | 87 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 87 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 87 |
| ANILINE | ND | 350 | 170 |
| BENZIDINE | ND | 860 | 440 |
| BENZOIC ACID | ND | 690 | 350 |
| CARBAZOLE | ND | 170 | 87 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 87 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 800 | 1037 | 77.1 | 35-130 |
| 2-FLUOROBIPHENYL | 184 | 345.7 | 53.2 | 45-130 |
| 2-FLUOROPHENOL | 484 | 1037 | 46.6 | 25-130 |
| NITROBENZENE-D5 | 147 | 345.7 | 42.5 | 40-130 |
| PHENOL-D5 | 538 | 1037 | 51.9 | 25-120 |
| TERPHENYL-D14 | 308 | 345.7 | 89.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-051-NBZ-SB-1.5-2.5 | Date Analyzed: 04/02/12 22:35 |
| Lab Samp ID: C254-07 | Dilution Factor: 1 |
| Lab File ID: RDJ033 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 3.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 87 |
| 1,2-DICHLOROBENZENE | ND | 170 | 87 |
| 1,3-DICHLOROBENZENE | ND | 170 | 87 |
| 1,4-DICHLOROBENZENE | ND | 170 | 87 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DICHLOROPHENOL | ND | 170 | 87 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 87 |
| 2,4-DINITROPHENOL | ND | 350 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 87 |
| 2,6-DINITROTOLUENE | ND | 170 | 87 |
| 2-CHLORONAPHTHALENE | ND | 170 | 87 |
| 2-CHLOROPHENOL | ND | 170 | 87 |
| 2-METHYLNAPHTHALENE | ND | 170 | 87 |
| 2-METHYLPHENOL | ND | 170 | 87 |
| 2-NITROANILINE | ND | 170 | 87 |
| 2-NITROPHENOL | ND | 170 | 87 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 87 |
| 3-NITROANILINE | ND | 170 | 87 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 87 |
| 4-CHLOROANILINE | ND | 170 | 87 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 87 |
| 4-METHYLPHENOL (1) | ND | 170 | 87 |
| 4-NITROANILINE | ND | 170 | 87 |
| 4-NITROPHENOL | ND | 350 | 170 |
| ACENAPHTHENE | ND | 170 | 87 |
| ACENAPHTHYLENE | ND | 170 | 87 |
| ANTHRACENE | ND | 170 | 87 |
| BENZO(A)ANTHRACENE | ND | 170 | 87 |
| BENZO(A)PYRENE | ND | 170 | 87 |
| BENZO(B)FLUORANTHENE | ND | 170 | 87 |
| BENZO(K)FLUORANTHENE | ND | 170 | 87 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 87 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 87 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 87 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 87 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 87 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 87 |
| CHRYSENE | ND | 170 | 87 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 87 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 87 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 87 |
| DIBENZOFURAN | ND | 170 | 87 |
| DIETHYLPHTHALATE | ND | 170 | 87 |
| DIMETHYLPHTHALATE | ND | 170 | 87 |
| FLUORANTHENE | ND | 170 | 87 |
| FLUORENE | ND | 170 | 87 |
| HEXACHLOROBENZENE | ND | 170 | 87 |
| HEXACHLOROBUTADIENE | ND | 170 | 87 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 87 |
| HEXACHLOROETHANE | ND | 170 | 87 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 87 |
| ISOPHORONE | ND | 170 | 87 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 87 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 87 |
| NAPHTHALENE | ND | 170 | 87 |
| NITROBENZENE | ND | 170 | 87 |
| PENTACHLOROPHENOL | ND | 350 | 170 |
| PHENANTHRENE | ND | 170 | 87 |
| PHENOL | ND | 170 | 87 |
| PYRENE | ND | 170 | 87 |
| BENZYL ALCOHOL | ND | 170 | 87 |
| 1-METHYLNAPHTHALENE | ND | 170 | 87 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 87 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 87 |
| ANILINE | ND | 350 | 170 |
| BENZIDINE | ND | 860 | 440 |
| BENZOIC ACID | ND | 690 | 350 |
| CARBAZOLE | ND | 170 | 87 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 87 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 873 | 1036 | 84.2 | 35-130 |
| 2-FLUOROBIPHENYL | 246 | 345.4 | 71.3 | 45-130 |
| 2-FLUOROPHENOL | 698 | 1036 | 67.4 | 25-130 |
| NITROBENZENE-D5 | 246 | 345.4 | 71.3 | 40-130 |
| PHENOL-D5 | 729 | 1036 | 70.4 | 25-120 |
| TERPHENYL-D14 | 317 | 345.4 | 91.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-057-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 22:54 |
| Lab Samp ID: C254-08 | Dilution Factor: 1 |
| Lab File ID: RDJ034 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 7.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 450 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1000 | 1079 | 93.0 | 35-130 |
| 2-FLUOROBIPHENYL | 285 | 359.5 | 79.2 | 45-130 |
| 2-FLUOROPHENOL | 740 | 1079 | 68.6 | 25-130 |
| NITROBENZENE-D5 | 245 | 359.5 | 68.1 | 40-130 |
| PHENOL-D5 | 790 | 1079 | 73.2 | 25-120 |
| TERPHENYL-D14 | 333 | 359.5 | 92.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/31/12 16:01 |
| Sample ID: DUP-02-NBZ-QC-032312 | Date Analyzed: 04/09/12 17:43 |
| Lab Samp ID: C254-09W | Dilution Factor: 1 |
| Lab File ID: RDJ170 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 6.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 90 |
| 1,2-DICHLOROBENZENE | ND | 180 | 90 |
| 1,3-DICHLOROBENZENE | ND | 180 | 90 |
| 1,4-DICHLOROBENZENE | ND | 180 | 90 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 90 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 90 |
| 2,4-DICHLOROPHENOL | ND | 180 | 90 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 90 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 90 |
| 2,6-DINITROTOLUENE | ND | 180 | 90 |
| 2-CHLORONAPHTHALENE | ND | 180 | 90 |
| 2-CHLOROPHENOL | ND | 180 | 90 |
| 2-METHYLNAPHTHALENE | ND | 180 | 90 |
| 2-METHYLPHENOL | ND | 180 | 90 |
| 2-NITROANILINE | ND | 180 | 90 |
| 2-NITROPHENOL | ND | 180 | 90 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 90 |
| 3-NITROANILINE | ND | 180 | 90 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 90 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 90 |
| 4-CHLOROANILINE | ND | 180 | 90 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 90 |
| 4-METHYLPHENOL (1) | ND | 180 | 90 |
| 4-NITROANILINE | ND | 180 | 90 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 90 |
| ACENAPHTHYLENE | ND | 180 | 90 |
| ANTHRACENE | ND | 180 | 90 |
| BENZO(A)ANTHRACENE | 120J | 180 | 90 |
| BENZO(A)PYRENE | 180J | 180 | 90 |
| BENZO(B)FLUORANTHENE | 250 | 180 | 90 |
| BENZO(K)FLUORANTHENE | ND | 180 | 90 |
| BENZO(G,H,I)PERYLENE | 110J | 180 | 90 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 90 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 90 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 90 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 90 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 90 |
| CHRYSENE | 180 | 180 | 90 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 90 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 90 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 90 |
| DIBENZOFURAN | ND | 180 | 90 |
| DIETHYLPHTHALATE | ND | 180 | 90 |
| DIMETHYLPHTHALATE | ND | 180 | 90 |
| FLUORANTHENE | ND | 180 | 90 |
| FLUORENE | ND | 180 | 90 |
| HEXACHLOROBENZENE | ND | 180 | 90 |
| HEXACHLOROBUTADIENE | ND | 180 | 90 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 90 |
| HEXACHLOROETHANE | ND | 180 | 90 |
| INDENO(1,2,3-CD)PYRENE | 110J | 180 | 90 |
| ISOPHORONE | ND | 180 | 90 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 90 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 90 |
| NAPHTHALENE | ND | 180 | 90 |
| NITROBENZENE | ND | 180 | 90 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 90 |
| PHENOL | ND | 180 | 90 |
| PYRENE | 160J | 180 | 90 |
| BENZYL ALCOHOL | ND | 180 | 90 |
| 1-METHYLNAPHTHALENE | ND | 180 | 90 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 90 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 90 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 890 | 450 |
| BENZOIC ACID | ND | 710 | 360 |
| CARBAZOLE | ND | 180 | 90 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 90 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 841 | 1068 | 78.7 | 35-130 |
| 2-FLUOROBIPHENYL | 182 | 356.1 | 51.1 | 45-130 |
| 2-FLUOROPHENOL | 455 | 1068 | 42.6 | 25-130 |
| NITROBENZENE-D5 | 148 | 356.1 | 41.5 | 40-130 |
| PHENOL-D5 | 584 | 1068 | 54.7 | 25-120 |
| TERPHENYL-D14 | 325 | 356.1 | 91.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-047-NBZ-SB-4.0-5.0 | Date Analyzed: 04/02/12 23:32 |
| Lab Samp ID: C254-11 | Dilution Factor: 1 |
| Lab File ID: RDJ036 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 4.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 88 |
| 1,2-DICHLOROBENZENE | ND | 170 | 88 |
| 1,3-DICHLOROBENZENE | ND | 170 | 88 |
| 1,4-DICHLOROBENZENE | ND | 170 | 88 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 88 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 88 |
| 2,4-DICHLOROPHENOL | ND | 170 | 88 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 88 |
| 2,4-DINITROPHENOL | ND | 350 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 88 |
| 2,6-DINITROTOLUENE | ND | 170 | 88 |
| 2-CHLORONAPHTHALENE | ND | 170 | 88 |
| 2-CHLOROPHENOL | ND | 170 | 88 |
| 2-METHYLNAPHTHALENE | ND | 170 | 88 |
| 2-METHYLPHENOL | ND | 170 | 88 |
| 2-NITROANILINE | ND | 170 | 88 |
| 2-NITROPHENOL | ND | 170 | 88 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 88 |
| 3-NITROANILINE | ND | 170 | 88 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 88 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 88 |
| 4-CHLOROANILINE | ND | 170 | 88 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 88 |
| 4-METHYLPHENOL (1) | ND | 170 | 88 |
| 4-NITROANILINE | ND | 170 | 88 |
| 4-NITROPHENOL | ND | 350 | 170 |
| ACENAPHTHENE | ND | 170 | 88 |
| ACENAPHTHYLENE | ND | 170 | 88 |
| ANTHRACENE | ND | 170 | 88 |
| BENZO(A)ANTHRACENE | ND | 170 | 88 |
| BENZO(A)PYRENE | ND | 170 | 88 |
| BENZO(B)FLUORANTHENE | ND | 170 | 88 |
| BENZO(K)FLUORANTHENE | ND | 170 | 88 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 88 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 88 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 88 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 88 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 88 |
| CHRYSENE | ND | 170 | 88 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 88 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 88 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 88 |
| DIBENZOFURAN | ND | 170 | 88 |
| DIETHYLPHTHALATE | ND | 170 | 88 |
| DIMETHYLPHTHALATE | ND | 170 | 88 |
| FLUORANTHENE | ND | 170 | 88 |
| FLUORENE | ND | 170 | 88 |
| HEXACHLOROBENZENE | ND | 170 | 88 |
| HEXACHLOROBUTADIENE | ND | 170 | 88 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 88 |
| HEXACHLOROETHANE | ND | 170 | 88 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 88 |
| ISOPHORONE | ND | 170 | 88 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 88 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 88 |
| NAPHTHALENE | ND | 170 | 88 |
| NITROBENZENE | ND | 170 | 88 |
| PENTACHLOROPHENOL | ND | 350 | 170 |
| PHENANTHRENE | ND | 170 | 88 |
| PHENOL | ND | 170 | 88 |
| PYRENE | ND | 170 | 88 |
| BENZYL ALCOHOL | ND | 170 | 88 |
| 1-METHYLNAPHTHALENE | ND | 170 | 88 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 88 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 88 |
| ANILINE | ND | 350 | 170 |
| BENZIDINE | ND | 870 | 440 |
| BENZOIC ACID | ND | 700 | 350 |
| CARBAZOLE | ND | 170 | 88 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 88 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 735 | 1047 | 70.2 | 35-130 |
| 2-FLUOROBIPHENYL | 173 | 349.0 | 49.6 | 45-130 |
| 2-FLUOROPHENOL | 522 | 1047 | 49.8 | 25-130 |
| NITROBENZENE-D5 | 165 | 349.0 | 47.3 | 40-130 |
| PHENOL-D5 | 549 | 1047 | 52.4 | 25-120 |
| TERPHENYL-D14 | 298 | 349.0 | 85.3 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/31/12 |
| Batch No. : 12C254 | Date Extracted: 03/31/12 16:01 |
| Sample ID: MBLK1S | Date Analyzed: 04/02/12 15:33 |
| Lab Samp ID: SVC048SB | Dilution Factor: 1 |
| Lab File ID: RDJ012 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 852 | 1000 | 85.2 | 35-130 |
| 2-FLUOROBIPHENYL | 279 | 333.3 | 83.6 | 45-130 |
| 2-FLUOROPHENOL | 790 | 1000 | 79.0 | 25-130 |
| NITROBENZENE-D5 | 263 | 333.3 | 78.8 | 40-130 |
| PHENOL-D5 | 826 | 1000 | 82.6 | 25-120 |
| TERPHENYL-D14 | 327 | 333.3 | 98.0 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVC048SB SVC048SL SVC048SC
LAB FILE ID: RDJ012 RDJ015 RDJ016
DATE EXTRACTED: 03/31/1216:01 03/31/1216:01 03/31/1216:01 DATE COLLECTED: NA
DATE ANALYZED: 04/02/1215:33 04/02/1216:29 04/02/1216:48 DATE RECEIVED: 03/31/12
PREP. BATCH: SVC048S SVC048S SVC048S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 470 | 70 | 667 | 450 | 67 | 4 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 475 | 71 | 667 | 454 | 68 | 5 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 468 | 70 | 667 | 452 | 68 | 3 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 462 | 69 | 667 | 446 | 67 | 3 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 482 | 72 | 667 | 453 | 68 | 6 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 533 | 80 | 667 | 510 | 77 | 4 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 539 | 81 | 667 | 515 | 77 | 5 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 527 | 79 | 667 | 497 | 75 | 6 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 480 | 72 | 667 | 389 | 58 | 21 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 630 | 94 | 667 | 563 | 84 | 11 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 580 | 87 | 667 | 545 | 82 | 6 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 503 | 75 | 667 | 525 | 79 | 4 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 539 | 81 | 667 | 489 | 73 | 10 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 577 | 86 | 667 | 610 | 92 | 6 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 531 | 80 | 667 | 452 | 68 | 16 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 510 | 77 | 667 | 492 | 74 | 4 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 554 | 83 | 667 | 535 | 80 | 3 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 586 | 88 | 667 | 459 | 69 | 24 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 503 | 75 | 667 | 463 | 69 | 8 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 624 | 94 | 667 | 525 | 79 | 17 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 552 | 83 | 667 | 534 | 80 | 3 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 523 | 78 | 667 | 491 | 74 | 6 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 458 | 69 | 667 | 426 | 64 | 7 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 584 | 88 | 667 | 561 | 84 | 4 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 484 | 73 | 667 | 512 | 77 | 6 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 593 | 89 | 667 | 514 | 77 | 14 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 397 | 60 | 667 | 325J | 49 | 20 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 565 | 85 | 667 | 551 | 83 | 3 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 580 | 87 | 667 | 557 | 84 | 4 | 30-130 | 50 |
| Anthracene | ND | 667 | 605 | 91 | 667 | 540 | 81 | 11 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 666 | 100 | 667 | 554 | 83 | 18 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 641 | 96 | 667 | 532 | 80 | 18 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 687 | 103 | 667 | 581 | 87 | 17 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 690 | 104 | 667 | 588 | 88 | 16 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 687 | 103 | 667 | 566 | 85 | 19 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 559 | 84 | 667 | 536 | 80 | 4 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 540 | 81 | 667 | 518 | 78 | 4 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 593 | 89 | 667 | 522 | 78 | 13 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 680 | 102 | 667 | 565 | 85 | 18 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 677 | 102 | 667 | 570 | 86 | 17 | 40-150 | 50 |
| Chrysene | ND | 667 | 695 | 104 | 667 | 581 | 87 | 18 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 638 | 96 | 667 | 541 | 81 | 17 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 671 | 101 | 667 | 558 | 84 | 18 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 679 | 102 | 667 | 571 | 86 | 17 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 543 | 81 | 667 | 522 | 78 | 4 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 581 | 87 | 667 | 526 | 79 | 10 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 557 | 83 | 667 | 527 | 79 | 6 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 669 | 100 | 667 | 578 | 87 | 15 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 582 | 87 | 667 | 563 | 84 | 3 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 567 | 85 | 667 | 528 | 79 | 7 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 500 | 75 | 667 | 469 | 70 | 6 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 292 | 44 | 667 | 270 | 40 | 8 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 474 | 71 | 667 | 450 | 68 | 5 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 687 | 103 | 667 | 563 | 84 | 20 | 30-140 | 50 |
| Isophorone | ND | 667 | 575 | 86 | 667 | 558 | 84 | 3 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 438 | 66 | 667 | 425 | 64 | 3 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 452 | 68 | 667 | 412 | 62 | 9 | 30-140 | 50 |
| Naphthalene | ND | 667 | 559 | 84 | 667 | 536 | 80 | 4 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 567 | 85 | 667 | 539 | 81 | 5 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 508 | 76 | 667 | 427 | 64 | 17 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 633 | 95 | 667 | 574 | 86 | 10 | 30-130 | 50 |
| Phenol | ND | 667 | 507 | 76 | 667 | 493 | 74 | 3 | 30-130 | 50 |
| Pyrene | ND | 667 | 662 | 99 | 667 | 567 | 85 | 15 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 488 | 73 | 667 | 461 | 69 | 6 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 582 | 87 | 667 | 560 | 84 | 4 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 516 | 77 | 667 | 489 | 73 | 5 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 555 | 83 | 667 | 527 | 79 | 5 | 20-150 | 50 |
| Aniline | ND | 667 | 375 | 56 | 667 | 335 | 50 | 11 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1130 | 42 | 2670 | 938 | 35 | 19 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 877 | 33 | 2670 | 730 | 27 | 18 | 10-130 | 50 |
| Carbazole | ND | 667 | 590 | 89 | 667 | 513 | 77 | 14 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 566 | 85 | 667 | 497 | 75 | 13 | 30-150 | 50 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 800 | 80 | 1000 | 733 | 73 | 35-130 |
| 2-Fluorobiphenyl | 333 | 236 | 71 | 333 | 226 | 68 | 45-130 |
| 2-Fluorophenol | 1000 | 670 | 67 | 1000 | 634 | 63 | 25-130 |
| Nitrobenzene-d5 | 333 | 226 | 68 | 333 | 222 | 66 | 40-130 |
| Phenol-d5 | 1000 | 696 | 70 | 1000 | 673 | 67 | 25-120 |
| Terphenyl-d14 | 333 | 308 | 92 | 333 | 268 | 80 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: 7.3
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-057-NBZ-SS-0.0-0.5
LAB SAMP ID: C254-08 C254-08M C254-08S
LAB FILE ID: RDJ034 RDJ019 RDJ020
DATE EXTRACTED: 03/31/1216:01 03/31/1216:01 03/31/1216:01 DATE COLLECTED: 03/23/12
DATE ANALYZED: 04/02/1222:54 04/02/1217:44 04/02/1218:31 DATE RECEIVED: 03/23/12
PREP. BATCH: SVC048S SVC048S SVC048S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 719 | 316 | 44 | 719 | 487 | 68 | 43 | 10-130 | 50 |
| 1,2-Dichlorobenzene | ND | 719 | 293 | 41 | 719 | 452 | 63 | 43 | 30-130 | 50 |
| 1,3-Dichlorobenzene | ND | 719 | 281 | 39 | 719 | 424 | 59 | 41 | 30-130 | 50 |
| 1,4-Dichlorobenzene | ND | 719 | 285 | 40 | 719 | 425 | 59 | 40 | 10-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 719 | 517 | 72 | 719 | 609 | 85 | 16 | 30-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 719 | 512 | 71 | 719 | 611 | 85 | 18 | 30-130 | 50 |
| 2,4-Dichlorophenol | ND | 719 | 403 | 56 | 719 | 562 | 78 | 33 | 30-130 | 50 |
| 2,4-Dimethylphenol | ND | 719 | 379 | 53 | 719 | 510 | 71 | 29 | 30-130 | 50 |
| 2,4-Dinitrophenol | ND | 719 | 480 | 67 | 719 | 427 | 59 | 12 | 10-130 | 50 |
| 2,4-Dinitrotoluene | ND | 719 | 643 | 89 | 719 | 680 | 95 | 6 | 20-130 | 50 |
| 2,6-Dinitrotoluene | ND | 719 | 578 | 80 | 719 | 637 | 89 | 10 | 30-130 | 50 |
| 2-Chloronaphthalene | ND | 719 | 426 | 59 | 719 | 593 | 82 | 33 | 30-130 | 50 |
| 2-Chlorophenol | ND | 719 | 371 | 52 | 719 | 568 | 79 | 42 | 20-130 | 50 |
| 2-Methylnaphthalene | ND | 719 | 421 | 59 | 719 | 609 | 85 | 37 | 30-130 | 50 |
| 2-Methylphenol | ND | 719 | 333 | 46 | 719 | 538 | 75 | 47 | 30-130 | 50 |
| 2-Nitroaniline | ND | 719 | 534 | 74 | 719 | 618 | 86 | 15 | 30-130 | 50 |
| 2-Nitrophenol | ND | 719 | 379 | 53 | 719 | 586 | 81 | 43 | 30-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 719 | 424 | 59 | 719 | 480 | 67 | 12 | 30-130 | 50 |
| 3-Nitroaniline | ND | 719 | 507 | 71 | 719 | 536 | 75 | 5 | 30-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 719 | 616 | 86 | 719 | 601 | 84 | 3 | 30-130 | 50 |
| 4-Bromophenyl-phenylether | ND | 719 | 562 | 78 | 719 | 616 | 86 | 9 | 30-130 | 50 |
| 4-Chloro-3-Methylphenol | ND | 719 | 500 | 69 | 719 | 568 | 79 | 13 | 20-130 | 50 |
| 4-Chloroaniline | ND | 719 | 324 | 45 | 719 | 437 | 61 | 30 | 30-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 719 | 561 | 78 | 719 | 641 | 89 | 13 | 30-130 | 50 |
| 4-Methylphenol | ND | 719 | 352 | 49 | 719 | 512 | 71 | 37 | 20-130 | 50 |
| 4-Nitroaniline | ND | 719 | 617 | 86 | 719 | 621 | 86 | 1 | 40-130 | 50 |
| 4-Nitrophenol | ND | 719 | 425 | 59 | 719 | 393 | 55 | 8 | 10-130 | 50 |
| Acenaphthene | ND | 719 | 490 | 68 | 719 | 624 | 87 | 24 | 20-130 | 50 |
| Acenaphthylene | ND | 719 | 503 | 70 | 719 | 637 | 89 | 24 | 20-130 | 50 |
| Anthracene | ND | 719 | 620 | 86 | 719 | 647 | 90 | 4 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 719 | 653 | 91 | 719 | 673 | 94 | 3 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 719 | 631 | 88 | 719 | 642 | 89 | 2 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 719 | 704 | 98 | 719 | 715 | 99 | 2 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 719 | 636 | 88 | 719 | 649 | 90 | 2 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 719 | 647 | 90 | 719 | 660 | 92 | 2 | 30-130 | 50 |
| bis(2-Chloroethoxy)methane | ND | 719 | 385 | 54 | 719 | 595 | 83 | 43 | 30-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 719 | 393 | 55 | 719 | 576 | 80 | 38 | 30-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 719 | 364 | 51 | 719 | 601 | 84 | 49 | 20-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 719 | 837 | 116 | 719 | 743 | 103 | 12 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 719 | 713 | 99 | 719 | 718 | 100 | 1 | 30-130 | 50 |
| Chrysene | ND | 719 | 689 | 96 | 719 | 714 | 99 | 3 | 30-130 | 50 |
| Di-n-butylphthalate | ND | 719 | 656 | 91 | 719 | 757 | 105 | 14 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 719 | 706 | 98 | 719 | 763 | 106 | 8 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 719 | 664 | 92 | 719 | 663 | 92 | 0 | 30-130 | 50 |
| Dibenzofuran | ND | 719 | 496 | 69 | 719 | 593 | 82 | 18 | 30-130 | 50 |
| Diethylphthalate | ND | 719 | 607 | 84 | 719 | 631 | 88 | 4 | 30-130 | 50 |
| Dimethylphthalate | ND | 719 | 541 | 75 | 719 | 614 | 85 | 13 | 30-130 | 50 |
| Fluoranthene | ND | 719 | 699 | 97 | 719 | 713 | 99 | 2 | 30-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 719 | 580 | 81 | 719 | 646 | 90 | 11 | 20-130 | 50 |
| Hexachlorobenzene | ND | 719 | 549 | 76 | 719 | 590 | 82 | 7 | 10-160 | 50 |
| Hexachlorobutadiene | ND | 719 | 329 | 46 | 719 | 503 | 70 | 42 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 719 | 193 | 27 | 719 | 305 | 42 | 45 | 10-130 | 50 |
| Hexachloroethane | ND | 719 | 281 | 39 | 719 | 415 | 58 | 39 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 719 | 642 | 89 | 719 | 668 | 93 | 4 | 20-130 | 50 |
| Isophorone | ND | 719 | 426 | 59 | 719 | 601 | 84 | 34 | 30-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 719 | 301 | 42 | 719 | 456 | 63 | 41 | 20-130 | 50 |
| n-Nitrosodiphenylamine | ND | 719 | 468 | 65 | 719 | 487 | 68 | 4 | 20-140 | 50 |
| Naphthalene | ND | 719 | 398 | 55 | 719 | 588 | 82 | 39 | 30-130 | 50 |
| Nitrobenzene | ND | 719 | 399 | 55 | 719 | 560 | 78 | 34 | 30-130 | 50 |
| Pentachlorophenol | ND | 719 | 554 | 77 | 719 | 544 | 76 | 2 | 10-130 | 50 |
| Phenanthrene | ND | 719 | 659 | 92 | 719 | 680 | 95 | 3 | 20-130 | 50 |
| Phenol | ND | 719 | 355 | 49 | 719 | 527 | 73 | 39 | 20-130 | 50 |
| Pyrene | ND | 719 | 690 | 96 | 719 | 699 | 97 | 1 | 10-160 | 50 |
| Benzyl Alcohol | ND | 719 | 348 | 48 | 719 | 518 | 72 | 39 | 30-130 | 50 |
| 1-Methylnaphthalene | ND | 719 | 431 | 60 | 719 | 609 | 85 | 34 | 20-130 | 50 |
| 1,2-Diphenylhydrazine | ND | 719 | 505 | 70 | 719 | 569 | 79 | 12 | 20-150 | 50 |
| 3,5-Dimethylphenol | ND | 719 | 422 | 59 | 719 | 567 | 79 | 29 | 20-130 | 50 |
| Aniline | ND | 719 | 194J | 27 | 719 | 311J | 43 | 46 | 10-150 | 50 |
| Benzidine | ND | 2880 | ND | 0* | 2880 | ND | 0* | 0 | 10-150 | 50 |
| Benzoic Acid | ND | 2880 | 1040 | 36 | 2880 | 1050 | 36 | 1 | 10-130 | 50 |
| Carbazole | ND | 719 | 618 | 86 | 719 | 634 | 88 | 3 | 30-130 | 50 |
| N-Nitrosodimethylamine | ND | 719 | 375 | 52 | 719 | 573 | 80 | 42 | 20-130 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1080 | 900 | 83 | 1080 | 944 | 87 | 35-130 |
| 2-Fluorobiphenyl | 360 | 188 | 52 | 360 | 265 | 74 | 45-130 |
| 2-Fluorophenol | 1080 | 469 | 44 | 1080 | 743 | 69 | 25-130 |
| Nitrobenzene-d5 | 360 | 159 | 44 | 360 | 262 | 73 | 40-130 |
| Phenol-d5 | 1080 | 508 | 47 | 1080 | 777 | 72 | 25-120 |
| Terphenyl-d14 | 360 | 313 | 87 | 360 | 316 | 88 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-048-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 21:39 |
| Lab Samp ID: C254-01 | Dilution Factor: 1 |
| Lab File ID: RDJ030 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 11.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.96 |
| ACENAPHTHYLENE | ND | 1.9 | 0.96 |
| ANTHRACENE | 1.2J | 1.9 | 0.96 |
| BENZO(A)ANTHRACENE | 40 | 1.9 | 0.96 |
| BENZO(A)PYRENE | 41 | 1.9 | 0.96 |
| BENZO(B)FLUORANTHENE | 65 | 1.9 | 0.96 |
| BENZO(K)FLUORANTHENE | 19 | 1.9 | 0.96 |
| BENZO(G,H,I)PERYLENE | 20 | 1.9 | 0.96 |
| CHRYSENE | 48 | 1.9 | 0.96 |
| DIBENZO(A,H)ANTHRACENE | 5.4 | 1.9 | 0.96 |
| FLUORANTHENE | 42 | 1.9 | 0.96 |
| FLUORENE | ND | 1.9 | 0.96 |
| INDENO(1,2,3-CD)PYRENE | 18 | 1.9 | 0.96 |
| NAPHTHALENE | 2.4 | 1.9 | 0.96 |
| PHENANTHRENE | 4.6 | 1.9 | 0.96 |
| PYRENE | 43 | 1.9 | 0.96 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 13J | 19 | 9.5 |
| BUTYLBENZYLPHTHALATE | 16J | 19 | 9.5 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.5 |
| DIETHYLPHTHALATE | ND | 19 | 9.5 |
| DIMETHYLPHTHALATE | ND | 19 | 9.5 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.96 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 256 | 377.9 | 67.7 | 40-130 |
| 2-FLUOROBIPHENYL | 258 | 377.9 | 68.2 | 45-130 |
| TERPHENYL-D14 | 333 | 377.9 | 88.0 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-048-NBZ-SB-4.0-5.0 | Date Analyzed: 04/02/12 21:58 |
| Lab Samp ID: C254-03 | Dilution Factor: 1 |
| Lab File ID: RDJ031 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 4.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | 29 | 1.8 | 0.89 |
| ACENAPHTHYLENE | 1.0J | 1.8 | 0.89 |
| ANTHRACENE | 120 | 1.8 | 0.89 |
| BENZO(A)ANTHRACENE | 620 | 1.8 | 0.89 |
| BENZO(A)PYRENE | 490 | 1.8 | 0.89 |
| BENZO(B)FLUORANTHENE | 750 | 1.8 | 0.89 |
| BENZO(K)FLUORANTHENE | 240 | 1.8 | 0.89 |
| BENZO(G,H,I)PERYLENE | 220 | 1.8 | 0.89 |
| CHRYSENE | 510 | 1.8 | 0.89 |
| DIBENZO(A,H)ANTHRACENE | 63 | 1.8 | 0.89 |
| FLUORANTHENE | 1400 | 1.8 | 0.89 |
| FLUORENE | 17 | 1.8 | 0.89 |
| INDENO(1,2,3-CD)PYRENE | 200 | 1.8 | 0.89 |
| NAPHTHALENE | ND | 1.8 | 0.89 |
| PHENANTHRENE | 540 | 1.8 | 0.89 |
| PYRENE | 1100 | 1.8 | 0.89 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 19 | 17 | 8.8 |
| BUTYLBENZYLPHTHALATE | 14J | 17 | 8.8 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.8 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.8 |
| DIETHYLPHTHALATE | ND | 17 | 8.8 |
| DIMETHYLPHTHALATE | ND | 17 | 8.8 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.89 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 232 | 349.0 | 66.4 | 40-130 |
| 2-FLUOROBIPHENYL | 237 | 349.0 | 67.9 | 45-130 |
| TERPHENYL-D14 | 315 | 349.0 | 90.4 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-049-NBZ-SB-2.0-3.0 | Date Analyzed: 04/02/12 22:16 |
| Lab Samp ID: C254-05 | Dilution Factor: 1 |
| Lab File ID: RDJ032 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 3.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.88 |
| ACENAPHTHYLENE | ND | 1.8 | 0.88 |
| ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)ANTHRACENE | 2.1 | 1.8 | 0.88 |
| BENZO(A)PYRENE | ND | 1.8 | 0.88 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.88 |
| CHRYSENE | 1.1J | 1.8 | 0.88 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.88 |
| FLUORANTHENE | 1.9 | 1.8 | 0.88 |
| FLUORENE | ND | 1.8 | 0.88 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.88 |
| NAPHTHALENE | ND | 1.8 | 0.88 |
| PHENANTHRENE | ND | 1.8 | 0.88 |
| PYRENE | 1.6J | 1.8 | 0.88 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 16J | 17 | 8.7 |
| BUTYLBENZYLPHTHALATE | 17J | 17 | 8.7 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.7 |
| DIETHYLPHTHALATE | ND | 17 | 8.7 |
| DIMETHYLPHTHALATE | ND | 17 | 8.7 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.88 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 163 | 345.7 | 47.0 | 40-130 |
| 2-FLUOROBIPHENYL | 167 | 345.7 | 48.4 | 45-130 |
| TERPHENYL-D14 | 294 | 345.7 | 84.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-051-NBZ-SB-1.5-2.5 | Date Analyzed: 04/02/12 22:35 |
| Lab Samp ID: C254-07 | Dilution Factor: 1 |
| Lab File ID: RDJ033 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 3.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.88 |
| ACENAPHTHYLENE | ND | 1.8 | 0.88 |
| ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.88 |
| BENZO(A)PYRENE | ND | 1.8 | 0.88 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.88 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.88 |
| CHRYSENE | ND | 1.8 | 0.88 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.88 |
| FLUORANTHENE | ND | 1.8 | 0.88 |
| FLUORENE | ND | 1.8 | 0.88 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.88 |
| NAPHTHALENE | ND | 1.8 | 0.88 |
| PHENANTHRENE | ND | 1.8 | 0.88 |
| PYRENE | ND | 1.8 | 0.88 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 39 | 17 | 8.7 |
| BUTYLBENZYLPHTHALATE | 9.3J | 17 | 8.7 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.7 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.7 |
| DIETHYLPHTHALATE | ND | 17 | 8.7 |
| DIMETHYLPHTHALATE | ND | 17 | 8.7 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.88 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 242 | 345.4 | 70.1 | 40-130 |
| 2-FLUOROBIPHENYL | 228 | 345.4 | 65.9 | 45-130 |
| TERPHENYL-D14 | 304 | 345.4 | 88.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-057-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 22:54 |
| Lab Samp ID: C254-08 | Dilution Factor: 1 |
| Lab File ID: RDJ034 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 7.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | 1.1J | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | 15 | 1.8 | 0.92 |
| BENZO(A)PYRENE | 25 | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | 29 | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | 11 | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | 23 | 1.8 | 0.92 |
| CHRYSENE | 52 | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | 5.3 | 1.8 | 0.92 |
| FLUORANTHENE | 22 | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | 19 | 1.8 | 0.92 |
| NAPHTHALENE | 1.0J | 1.8 | 0.92 |
| PHENANTHRENE | 6.4 | 1.8 | 0.92 |
| PYRENE | 24 | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 62 | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | 14J | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 255 | 359.5 | 70.9 | 40-130 |
| 2-FLUOROBIPHENYL | 259 | 359.5 | 72.0 | 45-130 |
| TERPHENYL-D14 | 314 | 359.5 | 87.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/31/12 16:01 |
| Sample ID: SL-047-NBZ-SB-4.0-5.0 | Date Analyzed: 04/02/12 23:32 |
| Lab Samp ID: C254-11 | Dilution Factor: 1 |
| Lab File ID: RDJ036 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 4.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.89 |
| ACENAPHTHYLENE | ND | 1.8 | 0.89 |
| ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)PYRENE | ND | 1.8 | 0.89 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.89 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.89 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.89 |
| CHRYSENE | ND | 1.8 | 0.89 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.89 |
| FLUORANTHENE | ND | 1.8 | 0.89 |
| FLUORENE | ND | 1.8 | 0.89 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.89 |
| NAPHTHALENE | ND | 1.8 | 0.89 |
| PHENANTHRENE | ND | 1.8 | 0.89 |
| PYRENE | ND | 1.8 | 0.89 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.8 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.8 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.8 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.8 |
| DIETHYLPHTHALATE | ND | 17 | 8.8 |
| DIMETHYLPHTHALATE | ND | 17 | 8.8 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.89 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 171 | 349.0 | 49.0 | 40-130 |
| 2-FLUOROBIPHENYL | 171 | 349.0 | 49.0 | 45-130 |
| TERPHENYL-D14 | 267 | 349.0 | 76.4 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/31/12 |
| Batch No. : 12C254 | Date Extracted: 03/31/12 16:01 |
| Sample ID: MBLK1S | Date Analyzed: 04/02/12 15:33 |
| Lab Samp ID: SVC048SB | Dilution Factor: 1 |
| Lab File ID: RDJ012 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 286 | 333.3 | 85.9 | 40-130 |
| 2-FLUOROBIPHENYL | 274 | 333.3 | 82.1 | 45-130 |
| TERPHENYL-D14 | 332 | 333.3 | 99.7 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/31/12 16:01 |
| Sample ID: DUP-02-NBZ-QC-032312 | Date Analyzed: 04/09/12 17:43 |
| Lab Samp ID: C254-09W | Dilution Factor: 1 |
| Lab File ID: RDJ170 | Matrix : SOIL |
| Ext Btch ID: SVC048S | % Moisture : 6.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | 1.4J | 1.8 | 0.91 |
| ACENAPHTHYLENE | 3.5 | 1.8 | 0.91 |
| ANTHRACENE | 7.6 | 1.8 | 0.91 |
| BENZO(A)ANTHRACENE | 120 | 1.8 | 0.91 |
| BENZO(A)PYRENE | 190 | 1.8 | 0.91 |
| BENZO(B)FLUORANTHENE | 250 | 1.8 | 0.91 |
| BENZO(K)FLUORANTHENE | 80 | 1.8 | 0.91 |
| BENZO(G,H,I)PERYLENE | 150 | 1.8 | 0.91 |
| CHRYSENE | 150 | 1.8 | 0.91 |
| DIBENZO(A,H)ANTHRACENE | 45 | 1.8 | 0.91 |
| FLUORANTHENE | 100 | 1.8 | 0.91 |
| FLUORENE | ND | 1.8 | 0.91 |
| INDENO(1,2,3-CD)PYRENE | 110 | 1.8 | 0.91 |
| NAPHTHALENE | ND | 1.8 | 0.91 |
| PHENANTHRENE | 25 | 1.8 | 0.91 |
| PYRENE | 140 | 1.8 | 0.91 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.91 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 21 | 18 | 9.0 |
| BUTYLBENZYLPHTHALATE | 14J | 18 | 9.0 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.0 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.0 |
| DIETHYLPHTHALATE | ND | 18 | 9.0 |
| DIMETHYLPHTHALATE | ND | 18 | 9.0 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.91 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 163 | 356.1 | 45.8 | 40-130 |
| 2-FLUOROBIPHENYL | 191 | 356.1 | 53.8 | 45-130 |
| TERPHENYL-D14 | 298 | 356.1 | 83.8 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVC048SB | SVC048SX | SVC048SY | | |
| LAB FILE ID: | RDJ012 | RDJ017 | RDJ018 | | |
| DATE EXTRACTED: | 03/31/1216:01 | 03/31/1216:01 | 03/31/1216:01 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/02/1215:33 | 04/02/1217:07 | 04/02/1217:25 | DATE RECEIVED: | 03/31/12 |
| PREP. BATCH: | SVC048S | SVC048S | SVC048S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 282 | 84 | 333 | 258 | 77 | 9 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 305 | 92 | 333 | 279 | 84 | 9 | 20-130 | 50 |
| Anthracene | ND | 333 | 295 | 88 | 333 | 266 | 80 | 10 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 314 | 94 | 333 | 297 | 89 | 6 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 327 | 98 | 333 | 286 | 86 | 13 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 348 | 104 | 333 | 310 | 93 | 12 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 352 | 105 | 333 | 316 | 95 | 11 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 342 | 103 | 333 | 312 | 94 | 9 | 30-140 | 50 |
| Chrysene | ND | 333 | 304 | 91 | 333 | 288 | 86 | 5 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 353 | 106 | 333 | 321 | 96 | 9 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 329 | 99 | 333 | 304 | 91 | 8 | 30-130 | 50 |
| Fluorene | ND | 333 | 302 | 91 | 333 | 277 | 83 | 9 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 353 | 106 | 333 | 321 | 96 | 9 | 20-160 | 50 |
| Naphthalene | ND | 333 | 266 | 80 | 333 | 246 | 74 | 8 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 298 | 89 | 333 | 271 | 81 | 9 | 20-130 | 50 |
| Pyrene | ND | 333 | 313 | 94 | 333 | 291 | 87 | 7 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 285 | 85 | 333 | 265 | 79 | 7 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 284 | 85 | 333 | 264 | 79 | 7 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 300 | 90 | 333 | 284 | 85 | 6 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 289 | 87 | 333 | 270 | 81 | 7 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 297 | 89 | 333 | 273 | 82 | 9 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 291 | 87 | 333 | 260 | 78 | 11 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 298 | 89 | 333 | 271 | 81 | 9 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 288 | 87 | 333 | 262 | 79 | 10 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 257 | 77 | 333 | 238 | 71 | 8 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 256 | 77 | 333 | 248 | 75 | 40-130 |
| 2-Fluorobiphenyl | 333 | 236 | 71 | 333 | 229 | 69 | 45-130 |
| Terphenyl-d14 | 333 | 303 | 91 | 333 | 292 | 88 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: 7.3
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-057-NBZ-SS-0.0-0.5
LAB SAMP ID: C254-08 C254-08M C254-08S
LAB FILE ID: RDJ034 RDJ021 RDJ022
DATE EXTRACTED: 03/31/1216:01 03/31/1216:01 03/31/1216:01 DATE COLLECTED: 03/23/12
DATE ANALYZED: 04/02/1222:54 04/02/1218:50 04/02/1219:08 DATE RECEIVED: 03/23/12
PREP. BATCH: SVC048S SVC048S SVC048S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 360 | 274 | 76 | 360 | 292 | 81 | 6 | 10-130 | 50 |
| Acenaphthylene | 1.11J | 360 | 299 | 83 | 360 | 321 | 89 | 7 | 20-130 | 50 |
| Anthracene | ND | 360 | 316 | 88 | 360 | 297 | 83 | 6 | 20-130 | 50 |
| Benzo(a)anthracene | 15.1 | 360 | 347 | 92 | 360 | 307 | 81 | 12 | 30-130 | 50 |
| Benzo(a)pyrene | 25.3 | 360 | 367 | 95 | 360 | 330 | 85 | 11 | 30-130 | 50 |
| Benzo(b)fluoranthene | 28.7 | 360 | 383 | 99 | 360 | 348 | 89 | 10 | 30-130 | 50 |
| Benzo(k)fluoranthene | 11.4 | 360 | 379 | 102 | 360 | 340 | 91 | 11 | 30-130 | 50 |
| Benzo(g,h,i)perylene | 22.8 | 360 | 380 | 99 | 360 | 340 | 88 | 11 | 30-140 | 50 |
| Chrysene | 51.5 | 360 | 342 | 81 | 360 | 302 | 70 | 12 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | 5.34 | 360 | 382 | 105 | 360 | 344 | 94 | 11 | 30-130 | 50 |
| Fluoranthene | 22.3 | 360 | 373 | 98 | 360 | 339 | 88 | 9 | 30-130 | 50 |
| Fluorene | ND | 360 | 301 | 84 | 360 | 309 | 86 | 3 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | 18.8 | 360 | 391 | 103 | 360 | 350 | 92 | 11 | 20-160 | 50 |
| Naphthalene | 1.00J | 360 | 252 | 70 | 360 | 272 | 75 | 7 | 10-130 | 50 |
| Phenanthrene | 6.36 | 360 | 325 | 89 | 360 | 311 | 85 | 4 | 20-130 | 50 |
| Pyrene | 23.9 | 360 | 359 | 93 | 360 | 324 | 84 | 10 | 10-160 | 50 |
| 2-Methylnaphthalene | ND | 360 | 274 | 76 | 360 | 297 | 83 | 8 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 360 | 275 | 76 | 360 | 296 | 82 | 8 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | 62.5 | 360 | 376 | 87 | 360 | 344 | 78 | 9 | 20-150 | 50 |
| Butylbenzylphthalate | 13.6J | 360 | 344 | 92 | 360 | 305 | 81 | 12 | 20-150 | 50 |
| Di-n-butylphthalate | ND | 360 | 337 | 94 | 360 | 310 | 86 | 8 | 20-150 | 50 |
| Di-n-octylphthalate | ND | 360 | 357 | 99 | 360 | 324 | 90 | 10 | 10-150 | 50 |
| Diethylphthalate | ND | 360 | 311 | 87 | 360 | 301 | 84 | 3 | 20-150 | 50 |
| Dimethylphthalate | ND | 360 | 292 | 81 | 360 | 296 | 82 | 1 | 20-150 | 50 |
| N-Nitrosodimethylamine | ND | 360 | 257 | 72 | 360 | 271 | 75 | 5 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 360 | 258 | 72 | 360 | 280 | 78 | 40-130 |
| 2-Fluorobiphenyl | 360 | 238 | 66 | 360 | 260 | 72 | 45-130 |
| Terphenyl-d14 | 360 | 320 | 89 | 360 | 304 | 85 | 45-135 |

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/28/12 17:57 |
| Sample ID: SL-048-NBZ-SB-4.5 | Date Analyzed: 03/28/12 17:57 |
| Lab Samp ID: C254-02 | Dilution Factor: 0.95 |
| Lab File ID: EC26081A | Matrix : SOIL |
| Ext Btch ID: GMC023S | % Moisture : 4.7 |
| Calib. Ref.: EC26079A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 4.6 | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.64 | 1.994 | 82.4 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 03/26/12 15:27

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/28/12 18:39 |
| Sample ID: SL-049-NBZ-SB-2.5 | Date Analyzed: 03/28/12 18:39 |
| Lab Samp ID: C254-04 | Dilution Factor: 0.96 |
| Lab File ID: EC26082A | Matrix : SOIL |
| Ext Btch ID: GMC023S | % Moisture : 3.6 |
| Calib. Ref.: EC26079A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.70 | 1.992 | 85.6 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 03/26/12 15:27

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/28/12 19:21 |
| Sample ID: SL-051-NBZ-SB-2.0 | Date Analyzed: 03/28/12 19:21 |
| Lab Samp ID: C254-06 | Dilution Factor: 1.06 |
| Lab File ID: EC26083A | Matrix : SOIL |
| Ext Btch ID: GMC023S | % Moisture : 9.9 |
| Calib. Ref.: EC26079A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.2 | 0.59 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.91 | 2.353 | 81.3 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 03/26/12 15:27

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/28/12 20:03 |
| Sample ID: SL-047-NBZ-SB-4.5 | Date Analyzed: 03/28/12 20:03 |
| Lab Samp ID: C254-10 | Dilution Factor: 0.99 |
| Lab File ID: EC26084A | Matrix : SOIL |
| Ext Btch ID: GMC023S | % Moisture : 6.5 |
| Calib. Ref.: EC26079A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.53 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.75 | 2.118 | 82.8 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 03/26/12 15:27

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/26/12 19:50 |
| Sample ID: TB-032212 | Date Analyzed: 03/26/12 19:50 |
| Lab Samp ID: C254-12 | Dilution Factor: 1 |
| Lab File ID: EC26015A | Matrix : WATER |
| Ext Btch ID: VA39C13 | % Moisture : NA |
| Calib. Ref.: EC26013A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 26J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 37.0 | 40.00 | 92.5 | 60-130 |

RL : Reporting Limit

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C254 | Date Extracted: 03/28/12 06:48 |
| Sample ID: MBLK1S | Date Analyzed: 03/28/12 06:48 |
| Lab Samp ID: GMC023SB | Dilution Factor: 1 |
| Lab File ID: EC26065A | Matrix : SOIL |
| Ext Btch ID: GMC023S | % Moisture : NA |
| Calib. Ref.: EC26057A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.77 | 2.000 | 88.3 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C254 | Date Extracted: 03/26/12 12:52 |
| Sample ID: MBLK1W | Date Analyzed: 03/26/12 12:52 |
| Lab Samp ID: VA39C13B | Dilution Factor: 1 |
| Lab File ID: EC26005A | Matrix : WATER |
| Ext Btch ID: VA39C13 | % Moisture : NA |
| Calib. Ref.: EC26002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 34.4 | 40.00 | 85.9 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 5035/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | GMC023SB | GMC023SL | GMC023SC | | |
| LAB FILE ID: | EC26065A | EC26066A | EC26067A | | |
| DATE EXTRACTED: | 03/28/1206:48 | 03/28/1207:29 | 03/28/1208:11 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/28/1206:48 | 03/28/1207:29 | 03/28/1208:11 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | GMC023S | GMC023S | GMC023S | | |
| CALIB. REF: | EC26057A | EC26057A | EC26057A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 25.0 | 22.2 | 89 | 25.0 | 22.0 | 88 | 1 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 2.00 | 1.94 | 97 | 2.00 | 1.95 | 98 | 60-130 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 5030B/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VA39C13B | VA39C13L | VA39C13C | | |
| LAB FILE ID: | EC26005A | EC26006A | EC26007A | | |
| DATE EXTRACTED: | 03/26/1212:52 | 03/26/1213:34 | 03/26/1214:16 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/26/1212:52 | 03/26/1213:34 | 03/26/1214:16 | DATE RECEIVED: | 03/26/12 |
| PREP. BATCH: | VA39C13 | VA39C13 | VA39C13 | | |
| CALIB. REF: | EC26002A | EC26002A | EC26002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 500 | 469 | 94 | 500 | 545 | 109 | 15 | 60-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 40.0 | 40.4 | 101 | 40.0 | 44.9 | 112 | 60-130 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/26/12 14:00 |
| Sample ID: SL-048-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 11:12 |
| Lab Samp ID: C254-01 | Dilution Factor: 1 |
| Lab File ID: BC27011A | Matrix : SOIL |
| Ext Btch ID: MEC007S | % Moisture : 11.8 |
| Calib. Ref.: BC27002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 570 | 280 |
| ISOPROPANOL | ND | 570 | 280 |
| METHANOL | ND | 570 | 280 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/26/12 14:00 |
| Sample ID: SL-048-NBZ-SB-4.0-5.0 | Date Analyzed: 03/27/12 11:35 |
| Lab Samp ID: C254-03 | Dilution Factor: 1 |
| Lab File ID: BC27012A | Matrix : SOIL |
| Ext Btch ID: MEC007S | % Moisture : 4.5 |
| Calib. Ref.: BC27002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/26/12 14:00 |
| Sample ID: SL-049-NBZ-SB-2.0-3.0 | Date Analyzed: 03/27/12 11:50 |
| Lab Samp ID: C254-05 | Dilution Factor: 1 |
| Lab File ID: BC27013A | Matrix : SOIL |
| Ext Btch ID: MEC007S | % Moisture : 3.6 |
| Calib. Ref.: BC27002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/26/12 14:00 |
| Sample ID: SL-051-NBZ-SB-1.5-2.5 | Date Analyzed: 03/27/12 12:09 |
| Lab Samp ID: C254-07 | Dilution Factor: 1 |
| Lab File ID: BC27014A | Matrix : SOIL |
| Ext Btch ID: MEC007S | % Moisture : 3.5 |
| Calib. Ref.: BC27002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/26/12 14:00 |
| Sample ID: SL-057-NBZ-SS-0.0-0.5 | Date Analyzed: 03/27/12 12:26 |
| Lab Samp ID: C254-08 | Dilution Factor: 1 |
| Lab File ID: BC27015A | Matrix : SOIL |
| Ext Btch ID: MEC007S | % Moisture : 7.3 |
| Calib. Ref.: BC27002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 540 | 270 |
| ISOPROPANOL | ND | 540 | 270 |
| METHANOL | ND | 540 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/26/12 14:00 |
| Sample ID: DUP-02-NBZ-QC-032312 | Date Analyzed: 03/27/12 13:34 |
| Lab Samp ID: C254-09 | Dilution Factor: 1 |
| Lab File ID: BC27019A | Matrix : SOIL |
| Ext Btch ID: MEC007S | % Moisture : 6.4 |
| Calib. Ref.: BC27016A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 530 | 270 |
| ISOPROPANOL | ND | 530 | 270 |
| METHANOL | ND | 530 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/26/12 14:00 |
| Sample ID: SL-047-NBZ-SB-4.0-5.0 | Date Analyzed: 03/27/12 13:52 |
| Lab Samp ID: C254-11 | Dilution Factor: 1 |
| Lab File ID: BC27020A | Matrix : SOIL |
| Ext Btch ID: MEC007S | % Moisture : 4.5 |
| Calib. Ref.: BC27016A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C254 | Date Extracted: 03/26/12 14:00 |
| Sample ID: MBLK1S | Date Analyzed: 03/27/12 08:08 |
| Lab Samp ID: MEC007SB | Dilution Factor: 1 |
| Lab File ID: BC27003A | Matrix : SOIL |
| Ext Btch ID: MEC007S | % Moisture : NA |
| Calib. Ref.: BC27002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 500 | 250 |
| ISOPROPANOL | ND | 500 | 250 |
| METHANOL | ND | 500 | 250 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | MEC007SB | MEC007SL | MEC007SC | | |
| LAB FILE ID: | BC27003A | BC27004A | BC27005A | | |
| DATE EXTRACTED: | 03/26/1214:00 | 03/26/1214:00 | 03/26/1214:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/27/1208:08 | 03/27/1208:52 | 03/27/1209:12 | DATE RECEIVED: | 03/26/12 |
| PREP. BATCH: | MEC007S | MEC007S | MEC007S | | |
| CALIB. REF: | BC27002A | BC27002A | BC27002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 8640 | 86 | 10000 | 9480 | 95 | 9 | 50-150 | 50 |
| Isopropanol | ND | 10000 | 8720 | 87 | 10000 | 9750 | 98 | 11 | 50-150 | 50 |
| Methanol | ND | 10000 | 10600 | 106 | 10000 | 11300 | 113 | 6 | 50-150 | 50 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 8015B

MATRIX: SOIL % MOISTURE: 7.3
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-057-NBZ-SS-0.0-0.5
LAB SAMP ID: C254-08 C254-08M C254-08S
LAB FILE ID: BC27015A BC27017A BC27018A
DATE EXTRACTED: 03/26/1214:00 03/26/1214:00 03/26/1214:00 DATE COLLECTED: 03/23/12
DATE ANALYZED: 03/27/1212:26 03/27/1213:04 03/27/1213:19 DATE RECEIVED: 03/23/12
PREP. BATCH: MEC007S MEC007S MEC007S
CALIB. REF: BC27002A BC27016A BC27016A

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10800 | 8180 | 76 | 10800 | 7880 | 73 | 4 | 30-150 | 50 |
| Isopropanol | ND | 10800 | 9300 | 86 | 10800 | 9460 | 88 | 2 | 50-150 | 50 |
| Methanol | ND | 10800 | 9660 | 90 | 10800 | 10500 | 97 | 8 | 50-140 | 50 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/27/12 11:30 |
| Sample ID: SL-048-NBZ-SS-0.0-0.5 | Date Analyzed: 03/29/12 12:26 |
| Lab Samp ID: C254-01 | Dilution Factor: 1 |
| Lab File ID: TC29008A | Matrix : SOIL |
| Ext Btch ID: PEC007S | % Moisture : 11.8 |
| Calib. Ref.: TC29004A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 17 | 8.5 |
| ETHYLENE GLYCOL | ND | 11 | 5.7 |
| PROPYLENE GLYCOL | ND | 11 | 5.7 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/27/12 11:30 |
| Sample ID: SL-048-NBZ-SB-4.0-5.0 | Date Analyzed: 03/29/12 12:40 |
| Lab Samp ID: C254-03 | Dilution Factor: 1 |
| Lab File ID: TC29009A | Matrix : SOIL |
| Ext Btch ID: PEC007S | % Moisture : 4.5 |
| Calib. Ref.: TC29004A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.9 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/23/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/23/12 |
| Batch No. | : 12C254 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-049-NBZ-SB-2.0-3.0 | Date Analyzed | : 03/29/12 13:10 |
| Lab Samp ID | : C254-05 | Dilution Factor | : 1 |
| Lab File ID | : TC29010A | Matrix | : SOIL |
| Ext Btch ID | : PEC007S | % Moisture | : 3.6 |
| Calib. Ref. | : TC29004A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.8 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/23/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/23/12 |
| Batch No. | : 12C254 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-051-NBZ-SB-1.5-2.5 | Date Analyzed | : 03/29/12 13:21 |
| Lab Samp ID | : C254-07 | Dilution Factor | : 1 |
| Lab File ID | : TC29011A | Matrix | : SOIL |
| Ext Btch ID | : PEC007S | % Moisture | : 3.5 |
| Calib. Ref. | : TC29004A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.8 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/23/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/23/12 |
| Batch No. | : 12C254 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-057-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/29/12 13:58 |
| Lab Samp ID | : C254-08 | Dilution Factor | : 1 |
| Lab File ID | : TC29014A | Matrix | : SOIL |
| Ext Btch ID | : PEC007S | % Moisture | : 7.3 |
| Calib. Ref. | : TC29004A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.1 |
| ETHYLENE GLYCOL | ND | 11 | 5.4 |
| PROPYLENE GLYCOL | ND | 11 | 5.4 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/27/12 11:30 |
| Sample ID: DUP-02-NBZ-QC-032312 | Date Analyzed: 03/29/12 13:34 |
| Lab Samp ID: C254-09 | Dilution Factor: 1 |
| Lab File ID: TC29012A | Matrix : SOIL |
| Ext Btch ID: PEC007S | % Moisture : 6.4 |
| Calib. Ref.: TC29004A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.0 |
| ETHYLENE GLYCOL | ND | 11 | 5.3 |
| PROPYLENE GLYCOL | ND | 11 | 5.3 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/27/12 11:30 |
| Sample ID: SL-047-NBZ-SB-4.0-5.0 | Date Analyzed: 03/29/12 13:47 |
| Lab Samp ID: C254-11 | Dilution Factor: 1 |
| Lab File ID: TC29013A | Matrix : SOIL |
| Ext Btch ID: PEC007S | % Moisture : 4.5 |
| Calib. Ref.: TC29004A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.9 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C254 | Date Extracted: 03/27/12 11:30 |
| Sample ID: MBLK1S | Date Analyzed: 03/29/12 12:15 |
| Lab Samp ID: PEC007SB | Dilution Factor: 1 |
| Lab File ID: TC29007A | Matrix : SOIL |
| Ext Btch ID: PEC007S | % Moisture : NA |
| Calib. Ref.: TC29004A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.5 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 5.0 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PEC007SB | PEC007SL | PEC007SC | | |
| LAB FILE ID: | TC29007A | TC29005A | TC29006A | | |
| DATE EXTRACTED: | 03/27/1211:30 | 03/27/1211:30 | 03/27/1211:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/29/1212:15 | 03/29/1211:05 | 03/29/1211:18 | DATE RECEIVED: | 03/27/12 |
| PREP. BATCH: | PEC007S | PEC007S | PEC007S | | |
| CALIB. REF: | TC29004A | TC29004A | TC29004A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 53.7 | 107 | 50.0 | 48.7 | 97 | 10 | 50-150 | 50 |
| Ethylene Glycol | ND | 50.0 | 54.6 | 109 | 50.0 | 53.0 | 106 | 3 | 50-150 | 50 |
| Propylene Glycol | ND | 25.0 | 25.9 | 104 | 25.0 | 24.2 | 97 | 7 | 50-150 | 50 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 8015M

MATRIX: SOIL % MOISTURE: 7.3
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-057-NBZ-SS-0.0-0.5
LAB SAMP ID: C254-08 C254-08M C254-08S
LAB FILE ID: TC29014A TC29016A TC29017A
DATE EXTRACTED: 03/27/1211:30 03/27/1211:30 03/27/1211:30 DATE COLLECTED: 03/23/12
DATE ANALYZED: 03/29/1213:58 03/29/1214:58 03/29/1215:09 DATE RECEIVED: 03/23/12
PREP. BATCH: PEC007S PEC007S PEC007S
CALIB. REF: TC29004A TC29015A TC29015A

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 53.9 | 55.2 | 102 | 53.9 | 69.4 | 129 | 23 | 50-150 | 50 |
| Ethylene Glycol | ND | 53.9 | 66.1 | 123 | 53.9 | 66.2 | 123 | 0 | 50-150 | 50 |
| Propylene Glycol | ND | 27.0 | 33.8 | 125 | 27.0 | 32.9 | 122 | 3 | 50-150 | 50 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/29/12 16:35 |
| Sample ID: SL-048-NBZ-SS-0.0-0.5 | Date Analyzed: 03/30/12 17:11 |
| Lab Samp ID: C254-01 | Dilution Factor: 1 |
| Lab File ID: LC30024A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : 11.8 |
| Calib. Ref.: LC30014A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.95J | 1.1 | 0.57 |
| EFH(C12-C14) | 0.85J | 1.1 | 0.57 |
| EFH(C15-C20) | 2.5 | 1.1 | 0.57 |
| EFH(C21-C30) | 22 | 1.1 | 0.57 |
| EFH(C30-C40) | 30 | 1.1 | 0.57 |
| TOTAL EFH(C8-C40) | 56 | 1.1 | 0.57 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.58 | 11.34 | 66.9 | 50-150 |
| HEXACOSANE | 2.94 | 2.834 | 104 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/29/12 16:35 |
| Sample ID: SL-048-NBZ-SB-4.0-5.0 | Date Analyzed: 03/30/12 15:29 |
| Lab Samp ID: C254-03 | Dilution Factor: 1 |
| Lab File ID: LC30018A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : 4.5 |
| Calib. Ref.: LC30014A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.52 |
| EFH(C12-C14) | ND | 1.0 | 0.52 |
| EFH(C15-C20) | ND | 1.0 | 0.52 |
| EFH(C21-C30) | 3.3 | 1.0 | 0.52 |
| EFH(C30-C40) | 3.4 | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | 6.7 | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.84 | 10.47 | 65.3 | 50-150 |
| HEXACOSANE | 2.24 | 2.618 | 85.7 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/29/12 16:35 |
| Sample ID: SL-049-NBZ-SB-2.0-3.0 | Date Analyzed: 03/30/12 15:46 |
| Lab Samp ID: C254-05 | Dilution Factor: 1 |
| Lab File ID: LC30019A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : 3.6 |
| Calib. Ref.: LC30014A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.52 |
| EFH(C12-C14) | ND | 1.0 | 0.52 |
| EFH(C15-C20) | ND | 1.0 | 0.52 |
| EFH(C21-C30) | 3.0 | 1.0 | 0.52 |
| EFH(C30-C40) | 3.9 | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | 6.9 | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.31 | 10.37 | 70.4 | 50-150 |
| HEXACOSANE | 2.36 | 2.593 | 90.8 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/29/12 16:35 |
| Sample ID: SL-051-NBZ-SB-1.5-2.5 | Date Analyzed: 03/30/12 16:03 |
| Lab Samp ID: C254-07 | Dilution Factor: 1 |
| Lab File ID: LC30020A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : 3.5 |
| Calib. Ref.: LC30014A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.54J | 1.0 | 0.52 |
| EFH(C12-C14) | ND | 1.0 | 0.52 |
| EFH(C15-C20) | ND | 1.0 | 0.52 |
| EFH(C21-C30) | 0.89J | 1.0 | 0.52 |
| EFH(C30-C40) | 2.2 | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | 3.6 | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.22 | 10.36 | 69.7 | 50-150 |
| HEXACOSANE | 2.22 | 2.591 | 85.7 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/29/12 16:35 |
| Sample ID: SL-057-NBZ-SS-0.0-0.5 | Date Analyzed: 03/30/12 16:20 |
| Lab Samp ID: C254-08 | Dilution Factor: 1 |
| Lab File ID: LC30021A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : 7.3 |
| Calib. Ref.: LC30014A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.73J | 1.1 | 0.54 |
| EFH(C12-C14) | ND | 1.1 | 0.54 |
| EFH(C15-C20) | 0.68J | 1.1 | 0.54 |
| EFH(C21-C30) | 3.0 | 1.1 | 0.54 |
| EFH(C30-C40) | 4.4 | 1.1 | 0.54 |
| TOTAL EFH(C8-C40) | 8.8 | 1.1 | 0.54 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.45 | 10.79 | 69.0 | 50-150 |
| HEXACOSANE | 2.35 | 2.697 | 87.3 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/29/12 16:35 |
| Sample ID: DUP-02-NBZ-QC-032312 | Date Analyzed: 03/30/12 18:19 |
| Lab Samp ID: C254-09 | Dilution Factor: 1 |
| Lab File ID: LC30028A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : 6.4 |
| Calib. Ref.: LC30026A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.62J | 1.1 | 0.53 |
| EFH(C12-C14) | ND | 1.1 | 0.53 |
| EFH(C15-C20) | 0.67J | 1.1 | 0.53 |
| EFH(C21-C30) | 2.3 | 1.1 | 0.53 |
| EFH(C30-C40) | 2.8 | 1.1 | 0.53 |
| TOTAL EFH(C8-C40) | 6.4 | 1.1 | 0.53 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.15 | 10.68 | 66.9 | 50-150 |
| HEXACOSANE | 2.41 | 2.671 | 90.3 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/29/12 16:35 |
| Sample ID: SL-047-NBZ-SB-4.0-5.0 | Date Analyzed: 03/30/12 18:35 |
| Lab Samp ID: C254-11 | Dilution Factor: 1 |
| Lab File ID: LC30029A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : 4.5 |
| Calib. Ref.: LC30026A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.58J | 1.0 | 0.52 |
| EFH(C12-C14) | ND | 1.0 | 0.52 |
| EFH(C15-C20) | ND | 1.0 | 0.52 |
| EFH(C21-C30) | 1.4 | 1.0 | 0.52 |
| EFH(C30-C40) | 2.5 | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | 4.5 | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.21 | 10.47 | 68.9 | 50-150 |
| HEXACOSANE | 2.26 | 2.618 | 86.4 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C254 | Date Extracted: 03/29/12 16:35 |
| Sample ID: MBLK1S | Date Analyzed: 03/30/12 11:33 |
| Lab Samp ID: DSC037SB | Dilution Factor: 1 |
| Lab File ID: LC30004A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : NA |
| Calib. Ref.: LC30002A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.02 | 10.00 | 70.2 | 50-150 |
| HEXACOSANE | 2.02 | 2.500 | 80.7 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 3550B/8015B EFH

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSC037SB | DSC037SL | DSC037SC | | |
| LAB FILE ID: | LC30004A | LC30005A | LC30006A | | |
| DATE EXTRACTED: | 03/29/1216:35 | 03/29/1216:35 | 03/29/1216:35 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1211:33 | 03/30/1211:50 | 03/30/1212:07 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | DSC037S | DSC037S | DSC037S | | |
| CALIB. REF: | LC30002A | LC30002A | LC30002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 48.5 | 97 | 50.0 | 48.3 | 97 | 0 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 6.95 | 69 | 10.0 | 7.30 | 73 | 50-150 |
| Hexacosane | 2.50 | 2.06 | 82 | 2.50 | 1.98 | 79 | 50-150 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 7.3 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-057-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C254-08 | C254-08M | C254-08S | | |
| LAB FILE ID: | LC30021A | LC30022A | LC30023A | | |
| DATE EXTRACTED: | 03/29/1216:35 | 03/29/1216:35 | 03/29/1216:35 | DATE COLLECTED: | 03/23/12 |
| DATE ANALYZED: | 03/30/1216:20 | 03/30/1216:37 | 03/30/1216:54 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | DSC037S | DSC037S | DSC037S | | |
| CALIB. REF: | LC30014A | LC30014A | LC30014A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | 8.81 | 53.9 | 53.8 | 83 | 53.9 | 56.3 | 88 | 4 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.8 | 7.90 | 73 | 10.8 | 8.39 | 78 | 50-150 |
| Hexacosane | 2.70 | 2.26 | 84 | 2.70 | 2.33 | 86 | 50-150 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/29/12 17:10 |
| Sample ID: SL-048-NBZ-SS-0.0-0.5 | Date Analyzed: 04/12/12 02:03 |
| Lab Samp ID: C254-01 | Dilution Factor: 1 |
| Lab File ID: MD11029A | Matrix : SOIL |
| Ext Btch ID: CPC049S | % Moisture : 11.8 |
| Calib. Ref.: MD11022A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 4.4 | 0.19 | 0.096 \| 0.096 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.69 | 0.19 | 0.096 \| 0.096 |
| BETA-BHC | 4.7 \| (ND) | 0.19 | 0.096 \| 0.096 |
| HEPTACHLOR | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| DELTA-BHC | 1.7 \| (ND) | 0.19 | 0.096 \| 0.096 |
| ALDRIN | (ND) \| 0.83 | 0.19 | 0.096 \| 0.096 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| ENDOSULFAN I | (ND) \| 0.62 | 0.19 | 0.096 \| 0.096 |
| 4,4'-DDE | (ND) \| 0.69 | 0.39 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDRIN | 0.32J \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDD | (0.38J) \| 0.61 | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.38J \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDT | (ND) \| 0.90 | 0.39 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | 0.32J \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (10) \| 0.23J | 0.39 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| 0.21J | 0.39 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| ND | 1.9 | 0.96 \| 0.96 |
| MIREX | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.5 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (7.424) \| 7.349 | 6.046 | (123) \| 122 | 50-130 |
| DECACHLOROBIPHENYL | (2.593) \| 1.486 | 6.046 | (42.9) \| 24.6 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/29/12 17:10 |
| Sample ID: SL-057-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 21:25 |
| Lab Samp ID: C254-08 | Dilution Factor: 1 |
| Lab File ID: MD11017A | Matrix : SOIL |
| Ext Btch ID: CPC049S | % Moisture : 7.3 |
| Calib. Ref.: MD11005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.28 | 0.18 | 0.092 \| 0.092 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| BETA-BHC | 0.21 \| (ND) | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR | 0.53 \| (ND) | 0.18 | 0.092 \| 0.092 |
| DELTA-BHC | (ND) \| 4.8 | 0.18 | 0.092 \| 0.092 |
| ALDRIN | (ND) \| 2.2 | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR EPOXIDE | (ND) \| 7.2 | 0.18 | 0.092 \| 0.092 |
| ENDOSULFAN I | 6.6 \| (ND) | 0.18 | 0.092 \| 0.092 |
| 4,4'-DDE | 17 \| (11) | 0.37 | 0.18 \| 0.18 |
| DIELDRIN | (2.6) \| 21 | 0.37 | 0.18 \| 0.18 |
| ENDRIN | 0.91 \| (0.25J) | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDD | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN II | (0.89) \| 0.60 | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDT | (ND) \| 0.98 | 0.37 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | 3.8 \| (5.5) | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | (0.32J) \| 2.6 | 0.37 | 0.18 \| 0.18 |
| ENDRIN KETONE | 2.0 \| (ND) | 0.37 | 0.18 \| 0.18 |
| METHOXYCHLOR | 7.4 \| (2.2) | 1.8 | 0.92 \| 0.92 |
| MIREX | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 7.1 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.848 \| (6.617) | 5.753 | 102 \| (115) | 50-130 |
| DECACHLOROBIPHENYL | (5.663) \| 7.110 | 5.753 | (98.4) \| 124* | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/29/12 17:10 |
| Sample ID: DUP-02-NBZ-QC-032312 | Date Analyzed: 04/11/12 22:35 |
| Lab Samp ID: C254-09 | Dilution Factor: 1 |
| Lab File ID: MD11020A | Matrix : SOIL |
| Ext Btch ID: CPC049S | % Moisture : 6.4 |
| Calib. Ref.: MD11005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.31 | 0.18 | 0.091 \| 0.091 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.21 | 0.18 | 0.091 \| 0.091 |
| BETA-BHC | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| HEPTACHLOR | (ND) \| 0.53 | 0.18 | 0.091 \| 0.091 |
| DELTA-BHC | 0.99 \| (ND) | 0.18 | 0.091 \| 0.091 |
| ALDRIN | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| HEPTACHLOR EPOXIDE | 3.1 \| (5.6) | 0.18 | 0.091 \| 0.091 |
| ENDOSULFAN I | (1.1) \| 0.39 | 0.18 | 0.091 \| 0.091 |
| 4,4'-DDE | 3.5 \| (ND) | 0.36 | 0.18 \| 0.18 |
| DIELDRIN | 0.72 \| (ND) | 0.36 | 0.18 \| 0.18 |
| ENDRIN | (0.27J) \| 1.2 | 0.36 | 0.18 \| 0.18 |
| 4,4'-DDD | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| ENDOSULFAN II | 0.19J \| (ND) | 0.36 | 0.18 \| 0.18 |
| 4,4'-DDT | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | 0.97 \| (ND) | 0.36 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | (ND) \| 0.56 | 0.36 | 0.18 \| 0.18 |
| ENDRIN KETONE | 0.57 \| (ND) | 0.36 | 0.18 \| 0.18 |
| METHOXYCHLOR | (ND) \| ND | 1.8 | 0.91 \| 0.91 |
| MIREX | 1.3 \| (ND) | 0.36 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 7.1 | 3.5 \| 3.5 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.6 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.905 \| (6.680) | 5.698 | 104 \| (117) | 50-130 |
| DECACHLOROBIPHENYL | (5.850) \| 5.719 | 5.698 | (103) \| 100 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C254 | Date Extracted: 03/29/12 17:10 |
| Sample ID: MBLK1S | Date Analyzed: 04/11/12 18:20 |
| Lab Samp ID: CPC049SB | Dilution Factor: 1 |
| Lab File ID: MD11009A | Matrix : SOIL |
| Ext Btch ID: CPC049S | % Moisture : NA |
| Calib. Ref.: MD11005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.43 | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | 0.20\|(ND) | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.535\|(5.635) | 5.333 | 104\|(106) | 50-130 |
| DECACHLOROBIPHENYL | 5.686\|(5.694) | 5.333 | 107\|(107) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | CPC049SB | CPC049SL | CPC049SC | | |
| LAB FILE ID: | MD11009A | MD11010A | MD11011A | | |
| DATE EXTRACTED: | 03/29/1217:10 | 03/29/1217:10 | 03/29/1217:10 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1218:20 | 04/11/1218:43 | 04/11/1219:06 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | CPC049S | CPC049S | CPC049S | | |
| CALIB. REF: | MD11005A | MD11005A | MD11005A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND) \| 0.43 | 2.67 | 2.81 \| (3.22) | 105 \| (121) | 2.67 | 2.82 \| (3.32) | 106 \| (124) | 0 \| (3) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND) \| ND | 2.67 | 2.65 \| (3.09) | 99 \| (116) | 2.67 | 2.62 \| (3.02) | 98 \| (113) | 1 \| (2) | 40-130 | 50 |
| beta-BHC | (ND) \| ND | 2.67 | (3.03) \| 2.95 | (113) \| 110 | 2.67 | (3.12) \| 2.91 | (117) \| 109 | (3) \| 1 | 50-140 | 50 |
| Heptachlor | 0.20 \| (ND) | 2.67 | 3.22 \| (3.32) | 121 \| (124) | 2.67 | 3.05 \| (3.20) | 114 \| (120) | 5 \| (4) | 30-130 | 50 |
| delta-BHC | (ND) \| ND | 2.67 | 3.28 \| (3.57) | 123 \| (134) | 2.67 | (3.25) \| 3.22 | (122) \| 121 | (1) \| 10 | 30-150 | 50 |
| Aldrin | (ND) \| ND | 2.67 | (2.76) \| 2.56 | (103) \| 96 | 2.67 | (2.70) \| 2.47 | (101) \| 93 | (2) \| 4 | 30-130 | 50 |
| Heptachlor Epoxide | (ND) \| ND | 2.67 | (2.92) \| 2.81 | (109) \| 105 | 2.67 | (2.95) \| 2.88 | (110) \| 108 | (1) \| 2 | 60-140 | 50 |
| Endosulfan I | (ND) \| ND | 2.67 | 2.42 \| (2.65) | 91 \| (99) | 2.67 | 2.61 \| (2.67) | 98 \| (100) | 8 \| (1) | 50-150 | 50 |
| 4,4'-DDE | (ND) \| ND | 2.67 | 2.88 \| (2.99) | 108 \| (112) | 2.67 | (3.12) \| 3.00 | (117) \| 112 | (8) \| 0 | 50-150 | 50 |
| Dieldrin | (ND) \| ND | 2.67 | (3.21) \| 2.83 | (120) \| 106 | 2.67 | (3.17) \| 2.80 | (119) \| 105 | (1) \| 1 | 60-130 | 50 |
| Endrin | (ND) \| ND | 2.67 | (3.01) \| 2.89 | (113) \| 108 | 2.67 | 2.81 \| (2.86) | 105 \| (107) | 7 \| (1) | 50-140 | 50 |
| 4,4'-DDD | (ND) \| ND | 2.67 | (2.99) \| 2.99 | (112) \| 112 | 2.67 | (3.00) \| 3.00 | (112) \| 112 | (0) \| 0 | 50-160 | 50 |
| Endosulfan II | (ND) \| ND | 2.67 | (2.96) \| 2.80 | (111) \| 105 | 2.67 | (2.96) \| 2.80 | (111) \| 105 | (0) \| 0 | 60-150 | 50 |
| 4,4'-DDT | (ND) \| ND | 2.67 | 3.89 \| (3.53) | 146* \| (132) | 2.67 | 3.65 \| (3.38) | 137 \| (127) | 6 \| (4) | 60-140 | 50 |
| Endrin aldehyde | (ND) \| ND | 2.67 | 3.00 \| (3.03) | 112 \| (113) | 2.67 | 2.93 \| (2.95) | 110 \| (110) | 2 \| (3) | 50-160 | 50 |
| Endosulfan Sulfate | (ND) \| ND | 2.67 | (3.19) \| 3.04 | (119) \| 114 | 2.67 | (3.12) \| 3.03 | (117) \| 113 | (2) \| 0 | 70-140 | 50 |
| Endrin Ketone | (ND) \| ND | 2.67 | 3.02 \| (3.10) | 113 \| (116) | 2.67 | 3.06 \| (3.11) | 115 \| (116) | 1 \| (0) | 70-160 | 50 |
| Methoxychlor | (ND) \| ND | 26.7 | 32.1 \| (34.2) | 120 \| (128) | 26.7 | 32.3 \| (34.6) | 121 \| (130) | 1 \| (1) | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 5.041 \| (5.326) | 94.5 \| (99.9) | 5.333 | 4.717 \| (5.505) | 88.5 \| (103) | 50-130 |
| Decachlorobiphenyl | 5.333 | (5.075) \| 5.072 | (95.2) \| 95.1 | 5.333 | (5.224) \| 5.113 | (98.0) \| 95.9 | 20-120 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: 7.3

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-057-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C254-08 | C254-08M | C254-08S | | |
| LAB FILE ID: | MD11017A | MD11018A | MD11019A | | |
| DATE EXTRACTED: | 03/29/1217:10 | 03/29/1217:10 | 03/29/1217:10 | DATE COLLECTED: | 03/23/12 |
| DATE ANALYZED: | 04/11/1221:25 | 04/11/1221:49 | 04/11/1222:12 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | CPC049S | CPC049S | CPC049S | | |
| CALIB. REF: | MD11005A | MD11005A | MD11005A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 0.60 \| (0.28) | 2.88 | (4.02) \| 3.89 | (140) \| 125 | 2.88 | (4.27) \| 4.12 | (148) \| 133 | (6) \| 6 | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND) \| ND | 2.88 | (4.07) \| 3.92 | (141) \| 136 | 2.88 | 3.94 \| (3.99) | 137 \| (139) | 3 \| (2) | 20-150 | 50 |
| beta-BHC | 0.21 \| (ND) | 2.88 | 4.20 \| (4.72) | 139 \| (164*) | 2.88 | 4.75 \| (5.20) | 158* \| (181*) | 12 \| (10) | 50-140 | 50 |
| Heptachlor | 0.53 \| (ND) | 2.88 | 0.944 \| (3.95) | 14* \| (137) | 2.88 | 6.02 \| (4.11) | 191* \| (143*) | 146* \| (4) | 20-140 | 50 |
| delta-BHC | (ND) \| 4.8 | 2.88 | (4.54) \| 2.72 | (158*) \| -72* | 2.88 | (7.55) \| 2.83 | (262*) \| -68* | (50) \| 4 | 30-150 | 50 |
| Aldrin | (ND) \| 2.2 | 2.88 | (1.88) \| 1.91 | (65) \| -10* | 2.88 | (1.84) \| 1.83 | (64) \| -13* | (2) \| 4 | 20-160 | 50 |
| Heptachlor Epoxide | (ND) \| 7.2 | 2.88 | (4.10) \| 20.3 | (142*) \| 455* | 2.88 | (11.3) \| 20.8 | (392*) \| 472* | (94*) \| 2 | 40-140 | 50 |
| Endosulfan I | 6.6 \| (ND) | 2.88 | 4.89 \| (4.15) | -59* \| (144) | 2.88 | 4.62 \| (4.22) | -69* \| (147) | 6 \| (2) | 50-160 | 50 |
| 4,4'-DDE | 17 \| (11) | 2.88 | 10.2 \| (15.4) | -236* \| (153*) | 2.88 | 10.4 \| (15.8) | -229* \| (167*) | 2 \| (3) | 50-150 | 50 |
| Dieldrin | (2.6) \| 21 | 2.88 | (4.11) \| 21.4 | (52) \| 14 | 2.88 | (4.22) \| 3.22 | (56) \| -617* | (3) \| 148* | 10-160 | 50 |
| Endrin | 0.91 \| (0.25J) | 2.88 | 1.29 \| (1.99) | 13* \| (60) | 2.88 | 3.56 \| (1.88) | 92 \| (57) | 94* \| (6) | 20-160 | 50 |
| 4,4'-DDD | (ND) \| ND | 2.88 | 8.35 \| (1.89) | 290* \| (66) | 2.88 | 1.25 \| (1.90) | 43* \| (66) | 148* \| (1) | 50-160 | 50 |
| Endosulfan II | (0.89) \| 0.60 | 2.88 | (2.42) \| 1.56 | (53) \| 33* | 2.88 | (2.46) \| 1.50 | (55) \| 31* | (2) \| 4 | 40-160 | 50 |
| 4,4'-DDT | (ND) \| 0.98 | 2.88 | (17.6) \| 13.2 | (611*) \| 424* | 2.88 | (6.80) \| 13.8 | (236*) \| 445* | (89*) \| 4 | 30-160 | 50 |
| Endrin aldehyde | 3.8 \| (5.5) | 2.88 | 5.11 \| (7.14) | 45* \| (57) | 2.88 | 5.08 \| (7.26) | 44* \| (61) | 1 \| (2) | 50-140 | 50 |
| Endosulfan Sulfate | (0.32J) \| 2.6 | 2.88 | (3.21) \| 1.04 | (100) \| -54* | 2.88 | (3.19) \| 3.43 | (100) \| 29* | (1) \| 107* | 40-160 | 50 |
| Endrin Ketone | 2.0 \| (ND) | 2.88 | (3.68) \| 3.14 | 58 \| (109) | 2.88 | 3.59 \| (3.17) | 55 \| (110) | 2 \| (1) | 50-160 | 50 |
| Methoxychlor | 7.4 \| (2.2) | 28.8 | 36.5 \| (35.6) | 101 \| (116) | 28.8 | 36.6 \| (35.5) | 101 \| (116) | 0 \| (0) | 60-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.753 | 6.196 \| (7.224) | 108 \| (126) | 5.753 | 5.996 \| (6.482) | 104 \| (113) | 50-130 |
| Decachlorobiphenyl | 5.753 | (5.645) \| 5.555 | (98.1) \| 96.6 | 5.753 | (5.980) \| 5.585 | (104) \| 97.1 | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 16:21 |
| Sample ID: SL-048-NBZ-SS-0.0-0.5 | Date Analyzed: 04/07/12 00:37 |
| Lab Samp ID: C254-01 | Dilution Factor: 1 |
| Lab File ID: KD06014A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : 11.8 |
| Calib. Ref.: KD06002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.213)\|4.363 | 6.046 | (103)\|72.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.022)\|4.880 | 6.046 | (116)\|80.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 16:21 |
| Sample ID: SL-048-NBZ-SB-4.0-5.0 | Date Analyzed: 04/07/12 01:32 |
| Lab Samp ID: C254-03 | Dilution Factor: 1 |
| Lab File ID: KD06015A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : 4.5 |
| Calib. Ref.: KD06002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.823)\|4.131 | 5.584 | (104)\|74.0 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.717)\|4.768 | 5.584 | (120)\|85.4 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 16:21 |
| Sample ID: SL-049-NBZ-SB-2.0-3.0 | Date Analyzed: 04/07/12 02:27 |
| Lab Samp ID: C254-05 | Dilution Factor: 1 |
| Lab File ID: KD06016A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : 3.6 |
| Calib. Ref.: KD06002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 5432 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.4 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.960)\|4.410 | 5.532 | (108)\|79.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.342)\|4.085 | 5.532 | (115)\|73.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 16:21 |
| Sample ID: SL-051-NBZ-SB-1.5-2.5 | Date Analyzed: 04/07/12 03:22 |
| Lab Samp ID: C254-07 | Dilution Factor: 1 |
| Lab File ID: KD06017A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : 3.5 |
| Calib. Ref.: KD06002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 5432 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.4 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.911)\|4.271 | 5.526 | (107)\|77.3 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.403)\|4.534 | 5.526 | (116)\|82.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 16:21 |
| Sample ID: SL-057-NBZ-SS-0.0-0.5 | Date Analyzed: 04/07/12 16:30 |
| Lab Samp ID: C254-08 | Dilution Factor: 1 |
| Lab File ID: KD06028A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : 7.3 |
| Calib. Ref.: KD06019A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1221 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1232 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1242 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1248 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1254 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1260 | (1000E) \| 110E | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1262 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1268 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 5432 | (ND) \| ND | 3.6 | 1.8 \| 1.8 |
| AROCLOR 5442 | (ND) \| ND | 3.6 | 1.8 \| 1.8 |
| AROCLOR 5460 | (26) \| 23 | 3.6 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 8.941 \| (6.421) | 5.753 | 155* \| (112) | 45-120 |
| TETRACHLORO-M-XYLENE | 10.71 \| (6.674) | 5.753 | 186* \| (116) | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 16:21 |
| Sample ID: SL-057-NBZ-SS-0.0-0.5DL | Date Analyzed: 04/11/12 07:39 # 04/07/12 16:30 |
| Lab Samp ID: C254-08I # C254-08 | Dilution Factor: 100 # 1 |
| Lab File ID: KD09045A # KD06028A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : 7.3 |
| Calib. Ref.: KD09034A # KD06019A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 180 | 92\|92 |
| AROCLOR 1221 | (ND)\|ND | 180 | 92\|92 |
| AROCLOR 1232 | (ND)\|ND | 180 | 92\|92 |
| AROCLOR 1242 | (ND)\|ND | 180 | 92\|92 |
| AROCLOR 1248 | 6400\|(2500) | 180 | 92\|92 |
| AROCLOR 1254 | (ND)\|ND | 180 | 92\|92 |
| AROCLOR 1260 | (1500)\|1900 | 180 | 92\|92 |
| AROCLOR 1262 | (ND)\|ND | 180 | 92\|92 |
| AROCLOR 1268 | (ND)\|ND | 180 | 92\|92 |
| AROCLOR 5432 | (ND)\|ND | 360 | 180\|180 |
| AROCLOR 5442 | (ND)\|ND | 360 | 180\|180 |
| # AROCLOR 5460 | (26)\|23 | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| # DECACHLOROBIPHENYL | 8.941\|(6.421) | 5.753 | 115*\|(112) | 45-120 |
| # TETRACHLORO-M-XYLENE | 10.71\|(6.674) | 5.753 | 186*\|(116) | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 16:21 |
| Sample ID: DUP-02-NBZ-QC-032312 | Date Analyzed: 04/07/12 19:15 |
| Lab Samp ID: C254-09 | Dilution Factor: 1 |
| Lab File ID: KD06031A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : 6.4 |
| Calib. Ref.: KD06019A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.024)\|4.445 | 5.698 | (106)\|78.0 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.277)\|4.640 | 5.698 | (110)\|81.4 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 16:21 |
| Sample ID: SL-047-NBZ-SB-4.0-5.0 | Date Analyzed: 04/07/12 20:10 |
| Lab Samp ID: C254-11 | Dilution Factor: 1 |
| Lab File ID: KD06032A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : 4.5 |
| Calib. Ref.: KD06019A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1260 | (470E)\|240E | 1.8 | 0.89\|0.89 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (7.6)\|5.8 | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 6.760\|(4.815) | 5.584 | 121*\|(86.2) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.470)\|5.032 | 5.584 | (134)\|90.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/23/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/23/12 |
| Batch No. | : 12C254 | Date Extracted | : 03/30/12 16:21 |
| Sample ID | : SL-047-NBZ-SB-4.0-5.0DL | Date Analyzed | : 04/10/12 12:21 # 04/07/12 20:10 |
| Lab Samp ID | : C254-11I # C254-11 | Dilution Factor | : 20 # 1 |
| Lab File ID | : KD09024A # KD06032A | Matrix | : SOIL |
| Ext Btch ID | : CPC055S | % Moisture | : 4.5 |
| Calib. Ref. | : KD09019A # KD06019A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 36 | 18 \| 18 |
| AROCLOR 1221 | (ND) \| ND | 36 | 18 \| 18 |
| AROCLOR 1232 | (ND) \| ND | 36 | 18 \| 18 |
| AROCLOR 1242 | (ND) \| ND | 36 | 18 \| 18 |
| AROCLOR 1248 | 1800 \| (1200) | 36 | 18 \| 18 |
| AROCLOR 1254 | (ND) \| ND | 36 | 18 \| 18 |
| AROCLOR 1260 | (680) \| 730 | 36 | 18 \| 18 |
| AROCLOR 1262 | (ND) \| ND | 36 | 18 \| 18 |
| AROCLOR 1268 | (ND) \| ND | 36 | 18 \| 18 |
| AROCLOR 5432 | (ND) \| ND | 69 | 36 \| 36 |
| AROCLOR 5442 | (ND) \| ND | 69 | 36 \| 36 |
| # AROCLOR 5460 | (ND) \| ND | 3.5 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 6.112 \| (6.623) | 5.584 | 109 \| (119) | 45-120 |
| TETRACHLORO-M-XYLENE | (6.943) \| 4.954 | 5.584 | (124) \| 88.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 16:21 |
| Sample ID: MBLK1S | Date Analyzed: 04/05/12 15:27 |
| Lab Samp ID: 60C055SB | Dilution Factor: 1 |
| Lab File ID: KD04023A | Matrix : SOIL |
| Ext Btch ID: CPC055S | % Moisture : NA |
| Calib. Ref.: KD04014A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.185)\|4.524 | 5.333 | (116)\|84.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.175)\|5.031 | 5.333 | (116)\|94.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60C055SB | 60C055SL | 60C055SC | | |
| LAB FILE ID: | KD04023A | KD04024A | KD04025A | | |
| DATE EXTRACTED: | 03/30/1216:21 | 03/30/1216:21 | 03/30/1216:21 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/05/1215:27 | 04/05/1216:22 | 04/05/1217:17 | DATE RECEIVED: | 03/30/12 |
| PREP. BATCH: | CPC055S | CPC055S | CPC055S | | |
| CALIB. REF: | KD04014A | KD04014A | KD04014A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (63.5)\|50.9 | (95)\|76 | 66.7 | (64.6)\|51.0 | (97)\|76 | (2)\|0 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (86.1)\|60.9 | (129)\|91 | 66.7 | (74.7)\|59.2 | (112)\|89 | (14)\|3 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | 73.3\|(73.7) | 110\|(111) | 66.7 | (77.0)\|76.5 | (115)\|115 | (5)\|4 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | 6.555\|(4.723) | 123*\|(88.6) | 5.333 | 6.471\|(4.703) | 121*\|(88.2) | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (6.512)\|5.280 | (122)\|99.0 | 5.333 | (6.601)\|5.227 | (124)\|98.0 | 10-160 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 7.3

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 100 | 1 | 1 | | |
| SAMPLE ID: | SL-057-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C254-08 | C254-08M | C254-08S | | |
| LAB FILE ID: | KD09045A | KD06029A | KD06030A | | |
| DATE EXTRACTED: | 03/30/1216:21 | 03/30/1216:21 | 03/30/1216:21 | DATE COLLECTED: | 03/23/12 |
| DATE ANALYZED: | 04/07/1216:30 | 04/07/1217:25 | 04/07/1218:20 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | CPC055S | CPC055S | CPC055S | | |
| CALIB. REF: | KD09034A | KD06019A | KD06019A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 71.9 | 987E\|(443E) | 1372*\|(616*) | 71.9 | 761E\|(429E) | 1058*\|(596*) | 26\|(3) | 20-160 | 50 |
| Aroclor 1260 | 6400\|(2500) | 71.9 | 1210E\|(455E) | -7218*\|(-2844*) | 71.9 | 1230E\|(337E) | -7190*\|(-3008*) | 2\|(30) | 20-160 | 50 |
| Aroclor 5460 | (26)\|23 | 71.9 | (78.5)\|74.0 | (73)\|71 | 71.9 | (126E)\|113E | (139)\|125 | (46)\|42 | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.753 | 7.030\|(5.058) | 122*\|(87.9) | 5.753 | 10.02\|(6.642) | 174*\|(115) | 45-120 |
| Tetrachloro-m-xylene | 5.753 | (7.158)\|4.853 | (124)\|84.4 | 5.753 | 11.07\|(6.684) | 192*\|(116) | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/31/12 11:20 |
| Sample ID: SL-048-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 19:16 |
| Lab Samp ID: C254-01 | Dilution Factor: 1 |
| Lab File ID: WD02027A | Matrix : SOIL |
| Ext Btch ID: HEC012S | % Moisture : 11.8 |
| Calib. Ref.: WD02024A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | 3.4J\|(ND) | 4.1 | 2.0\|2.0 |
| 2,4-DB | 6.9\|(ND) | 1.9 | 0.96\|0.96 |
| 2,4,5-T | 3.6\|(ND) | 0.19 | 0.096\|0.096 |
| 2,4,5-TP(SILVEX) | 0.54\|(ND) | 0.19 | 0.096\|0.096 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.68\|0.68 |
| DICHLOROPROP | 7.3\|(ND) | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|4300 | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (194.1)\|127.8 | 170.1 | (114)\|75.2 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/31/12 11:20 |
| Sample ID: SL-057-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 14:13 |
| Lab Samp ID: C254-08 | Dilution Factor: 1 |
| Lab File ID: WD02012A | Matrix : SOIL |
| Ext Btch ID: HEC012S | % Moisture : 7.3 |
| Calib. Ref.: WD02006A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 1.9\|1.9 |
| 2,4-DB | (ND)\|43 | 1.8 | 0.92\|0.92 |
| 2,4,5-T | 0.22\|(ND) | 0.18 | 0.092\|0.092 |
| 2,4,5-TP(SILVEX) | 0.75\|(ND) | 0.18 | 0.092\|0.092 |
| DALAPON | (ND)\|ND | 9.7 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.65\|0.65 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | 12\|(ND) | 1.8 | 0.92\|0.92 |
| MCPA | (ND)\|ND | 270 | 130\|130 |
| MCPP | (ND)\|ND | 270 | 130\|130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (146.0)\|114.3 | 161.8 | (90.3)\|70.7 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/31/12 11:20 |
| Sample ID: DUP-02-NBZ-QC-032312 | Date Analyzed: 04/02/12 15:34 |
| Lab Samp ID: C254-09 | Dilution Factor: 1 |
| Lab File ID: WD02016A | Matrix : SOIL |
| Ext Btch ID: HEC012S | % Moisture : 6.4 |
| Calib. Ref.: WD02006A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.8 | 1.9\|1.9 |
| 2,4-DB | (ND)\|23 | 1.8 | 0.91\|0.91 |
| 2,4,5-T | (ND)\|ND | 0.18 | 0.091\|0.091 |
| 2,4,5-TP(SILVEX) | 0.25\|(ND) | 0.18 | 0.091\|0.091 |
| DALAPON | (ND)\|ND | 9.6 | 4.8\|4.8 |
| DICAMBA | (ND)\|ND | 1.3 | 0.64\|0.64 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | 3.6\|(ND) | 1.8 | 0.91\|0.91 |
| MCPA | 360\|(ND) | 270 | 130\|130 |
| MCPP | (ND)\|ND | 270 | 130\|130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (132.1)\|116.9 | 160.3 | (82.5)\|72.9 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/31/12 |
| Batch No. : 12C254 | Date Extracted: 03/31/12 11:20 |
| Sample ID: MBLK1S | Date Analyzed: 04/02/12 12:32 |
| Lab Samp ID: HEC012SB | Dilution Factor: 1 |
| Lab File ID: WD02007A | Matrix : SOIL |
| Ext Btch ID: HEC012S | % Moisture : NA |
| Calib. Ref.: WD02006A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | 0.42\|(ND) | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (152.1)\|124.2 | 150.0 | (101)\|82.8 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HEC012SB | HEC012SL | HEC012SC | | |
| LAB FILE ID: | WD02007A | WD02008A | WD02009A | | |
| DATE EXTRACTED: | 03/31/1211:20 | 03/31/1211:20 | 03/31/1211:20 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/02/1212:32 | 04/02/1212:52 | 04/02/1213:12 | DATE RECEIVED: | 03/31/12 |
| PREP. BATCH: | HEC012S | HEC012S | HEC012S | | |
| CALIB. REF: | WD02006A | WD02006A | WD02006A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND) \| ND | 15.0 | (15.2) \| 13.7 | (101) \| 91 | 15.0 | (15.8) \| 14.8 | (105) \| 99 | (4) \| 8 | 20-130 | 50 |
| 2,4-DB | (ND) \| ND | 15.0 | 12.3 \| (14.3) | 82 \| (95) | 15.0 | 11.7 \| (17.8) | 78 \| (119) | 5 \| (22) | 20-160 | 50 |
| 2,4,5-T | (ND) \| ND | 15.0 | 13.7 \| (14.6) | 91 \| (97) | 15.0 | 14.1 \| (15.2) | 94 \| (101) | 3 \| (4) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | 0.42 \| (ND) | 15.0 | 15.3 \| (15.8) | 102 \| (105) | 15.0 | (15.5) \| 15.5 | (103) \| 103 | (1) \| 2 | 30-140 | 50 |
| Dalapon | (ND) \| ND | 15.0 | 5.71J \| (9.90) | 38 \| (66) | 15.0 | 7.66J \| (7.80J) | 51 \| (52) | 29 \| (24) | 20-160 | 50 |
| Dicamba | (ND) \| ND | 15.0 | (13.7) \| 12.7 | (91) \| 85 | 15.0 | (13.6) \| 13.0 | (91) \| 87 | (1) \| 2 | 50-150 | 50 |
| Dichloroprop | (ND) \| ND | 15.0 | 16.0 \| (17.3) | 107 \| (115) | 15.0 | 16.6 \| (18.8) | 111 \| (125) | 4 \| (8) | 60-160 | 50 |
| Dinoseb | (ND) \| ND | 15.0 | (8.68) \| 7.74 | (58) \| 52 | 15.0 | 10.1 \| (11.4) | 67 \| (76) | 15 \| (38) | 20-130 | 50 |
| MCPA | (ND) \| ND | 750 | 1580 \| (786) | 211* \| (105) | 750 | 1560 \| (856) | 208* \| (114) | 1 \| (9) | 20-160 | 50 |
| MCPP | (ND) \| ND | 750 | (651) \| 426 | (87) \| 57 | 750 | (860) \| 448 | (115) \| 60 | (28) \| 5 | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 (154.9) \| 130.0 | (103) \| 86.7 | 150.0 (158.5) \| 131.6 | (106) \| 87.7 | 10-150 | |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: 7.3

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-057-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C254-08 | C254-08M | C254-08S | | |
| LAB FILE ID: | WD02012A | WD02010A | WD02011A | | |
| DATE EXTRACTED: | 03/31/1211:20 | 03/31/1211:20 | 03/31/1211:20 | DATE COLLECTED: | 03/23/12 |
| DATE ANALYZED: | 04/02/1214:13 | 04/02/1213:33 | 04/02/1213:53 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | HEC012S | HEC012S | HEC012S | | |
| CALIB. REF: | WD02006A | WD02006A | WD02006A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 16.2 | (11.3)\|23.8 | (70)\|147* | 16.2 | (16.9)\|17.3 | (104)\|107 | (40)\|32 | 30-140 | 50 |
| 2,4-DB | (ND)\|43 | 16.2 | (3.38)(54.3 | (21*)\|70 | 16.2 | (8.78)\|33.6 | (54)\|-58* | (89*)\|47 | 30-160 | 50 |
| 2,4,5-T | 0.22\|(ND) | 16.2 | 12.1\|(12.4) | 73\|(77) | 16.2 | 14.5\|(16.1) | 88\|(99) | 18\|(26) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | 0.75\|(ND) | 16.2 | 12.9\|(18.5) | 75\|(114) | 16.2 | 15.6\|(17.4) | 92\|(108) | 19\|(6) | 30-150 | 50 |
| Dalapon | (ND)\|ND | 16.2 | (15.6)\|6.28J | (96)\|39 | 16.2 | (12.6)\|8.67J | (78)\|54 | (21)\|32 | 10-160 | 50 |
| Dicamba | (ND)\|ND | 16.2 | (12.4)\|11.7 | (77)\|72 | 16.2 | (15.0)\|14.8 | (93)\|91 | (19)\|23 | 50-130 | 50 |
| Dichloroprop | (ND)\|ND | 16.2 | 13.6\|(17.4) | 84\|(108) | 16.2 | 16.8\|(18.3) | 104\|(113) | 21\|(5) | 60-150 | 50 |
| Dinoseb | 12\|(ND) | 16.2 | (23.1)\|9.86 | (69)\|61 | 16.2 | (21.2)\|11.5 | (57)\|71 | (9)\|15 | 10-130 | 50 |
| MCPA | (ND)\|ND | 809 | 1500\|(391) | 185*\|(48) | 809 | 1380\|(634) | 171*\|(78) | 8\|(47) | 10-160 | 50 |
| MCPP | (ND)\|ND | 809 | (698)\|430 | (86)\|53 | 809 | (613)\|535 | (76)\|66 | (13)\|22 | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 161.8 | (108.0)\|78.95 | (66.7)\|48.8 | 161.8 | (151.5)\|129.8 | (93.6)\|80.2 | 10-150 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 19:04 |
| Sample ID: SL-048-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 21:06 |
| Lab Samp ID: C254-01 | Dilution Factor: 1 |
| Lab File ID: XD02020A | Matrix : SOIL |
| Ext Btch ID: EXC026S | % Moisture : NA |
| Calib. Ref.: XD02014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1880 | 2000 | 93.8 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 19:04 |
| Sample ID: SL-048-NBZ-SB-4.0-5.0 | Date Analyzed: 04/02/12 21:40 |
| Lab Samp ID: C254-03 | Dilution Factor: 1 |
| Lab File ID: XD02021A | Matrix : SOIL |
| Ext Btch ID: EXC026S | % Moisture : NA |
| Calib. Ref.: XD02014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1850 | 2000 | 92.3 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 19:04 |
| Sample ID: SL-049-NBZ-SB-2.0-3.0 | Date Analyzed: 04/02/12 22:14 |
| Lab Samp ID: C254-05 | Dilution Factor: 1 |
| Lab File ID: XD02022A | Matrix : SOIL |
| Ext Btch ID: EXC026S | % Moisture : NA |
| Calib. Ref.: XD02014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1830 | 2000 | 91.5 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 19:04 |
| Sample ID: SL-051-NBZ-SB-1.5-2.5 | Date Analyzed: 04/02/12 22:48 |
| Lab Samp ID: C254-07 | Dilution Factor: .99 |
| Lab File ID: XD02023A | Matrix : SOIL |
| Ext Btch ID: EXC026S | % Moisture : NA |
| Calib. Ref.: XD02014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1850 | 1980 | 93.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 19:04 |
| Sample ID: SL-057-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 23:22 |
| Lab Samp ID: C254-08 | Dilution Factor: 1 |
| Lab File ID: XD02024A | Matrix : SOIL |
| Ext Btch ID: EXC026S | % Moisture : NA |
| Calib. Ref.: XD02014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1860 | 2000 | 93.1 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 19:04 |
| Sample ID: DUP-02-NBZ-QC-032312 | Date Analyzed: 04/03/12 01:39 |
| Lab Samp ID: C254-09 | Dilution Factor: 1 |
| Lab File ID: XD02028A | Matrix : SOIL |
| Ext Btch ID: EXC026S | % Moisture : NA |
| Calib. Ref.: XD02025A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1830 | 2000 | 91.7 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 19:04 |
| Sample ID: SL-047-NBZ-SB-4.0-5.0 | Date Analyzed: 04/03/12 02:13 |
| Lab Samp ID: C254-11 | Dilution Factor: 1 |
| Lab File ID: XD02029A | Matrix : SOIL |
| Ext Btch ID: EXC026S | % Moisture : NA |
| Calib. Ref.: XD02025A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1850 | 2000 | 92.4 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 19:04 |
| Sample ID: MBLK1S | Date Analyzed: 04/02/12 16:00 |
| Lab Samp ID: EXC026SB | Dilution Factor: 1 |
| Lab File ID: XD02011A | Matrix : SOIL |
| Ext Btch ID: EXC026S | % Moisture : NA |
| Calib. Ref.: XD02002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1820 | 2000 | 91.1 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXC026SB | EXC026SL | EXC026SC | | |
| LAB FILE ID: | XD02011A | XD02012A | XD02013A | | |
| DATE EXTRACTED: | 03/30/1219:04 | 03/30/1219:04 | 03/30/1219:04 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/02/1216:00 | 04/02/1216:34 | 04/02/1217:08 | DATE RECEIVED: | 03/30/12 |
| PREP. BATCH: | EXC026S | EXC026S | EXC026S | | |
| CALIB. REF: | XD02002A | XD02002A | XD02002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 2580 | 129 | 2000 | 2170 | 108 | 17 | 70-130 | 50 |
| RDX | ND | 2000 | 2080 | 104 | 2000 | 2140 | 107 | 2 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2420 | 121 | 2000 | 2390 | 119 | 2 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2170 | 109 | 2000 | 2130 | 107 | 2 | 70-130 | 50 |
| Tetryl | ND | 2000 | 2460 | 123 | 2000 | 2440 | 122 | 1 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 1920 | 96 | 2000 | 1920 | 96 | 0 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 2130 | 106 | 2000 | 2160 | 108 | 2 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 2090 | 104 | 2000 | 2090 | 104 | 0 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 2100 | 105 | 2000 | 2110 | 105 | 0 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2280 | 114 | 2000 | 2240 | 112 | 2 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2290 | 115 | 2000 | 2280 | 114 | 0 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 2140 | 107 | 2000 | 2170 | 108 | 1 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1940 | 97 | 2000 | 1940 | 97 | 0 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 2120 | 106 | 2000 | 2010 | 100 | 5 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1660 | 83 | 2000 | 1770 | 89 | 7 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 1840 | 92 | 2000 | 2110 | 105 | 14 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1910 | 95 | 2000 | 1900 | 95 | 65-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 .99
SAMPLE ID: SL-057-NBZ-SS-0.0-0.5
LAB SAMP ID: C254-08 C254-08M C254-08S
LAB FILE ID: XD02024A XD02026A XD02027A
DATE EXTRACTED: 03/30/1219:04 03/30/1219:04 03/30/1219:04 DATE COLLECTED: 03/23/12
DATE ANALYZED: 04/02/1223:22 04/03/1200:31 04/03/1201:05 DATE RECEIVED: 03/23/12
PREP. BATCH: EXC026S EXC026S EXC026S
CALIB. REF: XD02014A XD02025A XD02025A

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 2130 | 107 | 1980 | 2170 | 110 | 3 | 70-130 | 50 |
| RDX | ND | 2000 | 2080 | 104 | 1980 | 2070 | 105 | 1 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2320 | 116 | 1980 | 2260 | 114 | 2 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2100 | 105 | 1980 | 2080 | 105 | 0 | 70-130 | 50 |
| Tetryl | ND | 2000 | 2360 | 118 | 1980 | 2380 | 120 | 2 | 60-130 | 50 |
| Nitrobenzene | ND | 2000 | 1830 | 92 | 1980 | 1860 | 94 | 2 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 2070 | 103 | 1980 | 2070 | 105 | 2 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 2140 | 107 | 1980 | 2070 | 105 | 2 | 70-140 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 2110 | 105 | 1980 | 2050 | 104 | 1 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2120 | 106 | 1980 | 2130 | 108 | 2 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2210 | 111 | 1980 | 2190 | 111 | 0 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 2080 | 104 | 1980 | 1970 | 100 | 4 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 2100 | 105 | 1980 | 2090 | 105 | 0 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 2150 | 107 | 1980 | 2080 | 105 | 2 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1680 | 84 | 1980 | 1630 | 82 | 2 | 20-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 1990 | 100 | 1980 | 1950 | 99 | 1 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1880 | 94 | 1980 | 1870 | 94 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 19:04 |
| Sample ID: SL-048-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 14:40 |
| Lab Samp ID: C254-01 | Dilution Factor: 1 |
| Lab File ID: PD02020A | Matrix : SOIL |
| Ext Btch ID: EXC026S | % Moisture : NA |
| Calib. Ref.: PD02013A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2500 | 2000 | 125 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/23/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/23/12 |
| Batch No. | : 12C254 | Date Extracted | : 03/30/12 19:04 |
| Sample ID | : SL-048-NBZ-SB-4.0-5.0 | Date Analyzed | : 04/02/12 14:54 |
| Lab Samp ID | : C254-03 | Dilution Factor | : 1 |
| Lab File ID | : PD02021A | Matrix | : SOIL |
| Ext Btch ID | : EXC026S | % Moisture | : NA |
| Calib. Ref. | : PD02013A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2330 | 2000 | 116 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/23/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/23/12 |
| Batch No. | : 12C254 | Date Extracted | : 03/30/12 19:04 |
| Sample ID | : SL-049-NBZ-SB-2.0-3.0 | Date Analyzed | : 04/02/12 15:08 |
| Lab Samp ID | : C254-05 | Dilution Factor | : 1 |
| Lab File ID | : PD02022A | Matrix | : SOIL |
| Ext Btch ID | : EXC026S | % Moisture | : NA |
| Calib. Ref. | : PD02013A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2380 | 2000 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/23/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/23/12 |
| Batch No. | : 12C254 | Date Extracted | : 03/30/12 19:04 |
| Sample ID | : SL-051-NBZ-SB-1.5-2.5 | Date Analyzed | : 04/02/12 15:22 |
| Lab Samp ID | : C254-07 | Dilution Factor | : .99 |
| Lab File ID | : PD02023A | Matrix | : SOIL |
| Ext Btch ID | : EXC026S | % Moisture | : NA |
| Calib. Ref. | : PD02013A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2360 | 1980 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 19:04 |
| Sample ID: SL-057-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 15:50 |
| Lab Samp ID: C254-08 | Dilution Factor: 1 |
| Lab File ID: PD02025A | Matrix : SOIL |
| Ext Btch ID: EXC026S | % Moisture : NA |
| Calib. Ref.: PD02024A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2390 | 2000 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 19:04 |
| Sample ID: DUP-02-NBZ-QC-032312 | Date Analyzed: 04/02/12 16:31 |
| Lab Samp ID: C254-09 | Dilution Factor: 1 |
| Lab File ID: PD02028A | Matrix : SOIL |
| Ext Btch ID: EXC026S | % Moisture : NA |
| Calib. Ref.: PD02024A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2370 | 2000 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| Batch No. : 12C254 | Date Extracted: 03/30/12 19:04 |
| Sample ID: SL-047-NBZ-SB-4.0-5.0 | Date Analyzed: 04/02/12 16:45 |
| Lab Samp ID: C254-11 | Dilution Factor: 1 |
| Lab File ID: PD02029A | Matrix : SOIL |
| Ext Btch ID: EXC026S | % Moisture : NA |
| Calib. Ref.: PD02024A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2410 | 2000 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/30/12 |
| Batch No. | : 12C254 | Date Extracted | : 03/30/12 19:04 |
| Sample ID | : MBLK1S | Date Analyzed | : 04/02/12 12:39 |
| Lab Samp ID | : EXC026SB | Dilution Factor | : 1 |
| Lab File ID | : PD02011A | Matrix | : SOIL |
| Ext Btch ID | : EXC026S | % Moisture | : NA |
| Calib. Ref. | : PD02002A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2400 | 2000 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXC026SB | EXC026SX | EXC026SY | | |
| LAB FILE ID: | PD02011A | PD02012A | PD02014A | | |
| DATE EXTRACTED: | 03/30/1219:04 | 03/30/1219:04 | 03/30/1219:04 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/02/1212:39 | 04/02/1212:53 | 04/02/1213:17 | DATE RECEIVED: | 03/30/12 |
| PREP. BATCH: | EXC026S | EXC026S | EXC026S | | |
| CALIB. REF: | PD02002A | PD02002A | PD02013A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7820 | 104 | 7500 | 7970 | 106 | 2 | 50-150 | 50 |
| PETN | ND | 7500 | 7920 | 106 | 7500 | 7900 | 105 | 0 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2320 | 116 | 2000 | 2340 | 117 | 65-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-057-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C254-08 | C254-08M | C254-08S | | |
| LAB FILE ID: | PD02025A | PD02026A | PD02027A | | |
| DATE EXTRACTED: | 03/30/1219:04 | 03/30/1219:04 | 03/30/1219:04 | DATE COLLECTED: | 03/23/12 |
| DATE ANALYZED: | 04/02/1215:50 | 04/02/1216:04 | 04/02/1216:18 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | EXC026S | EXC026S | EXC026S | | |
| CALIB. REF: | PD02024A | PD02024A | PD02024A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7640 | 102 | 7500 | 7470 | 100 | 2 | 50-150 | 50 |
| PETN | ND | 7500 | 7720 | 103 | 7500 | 7860 | 105 | 2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2320 | 116 | 2000 | 2330 | 117 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/23/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/23/12 |
| SDG NO. | : 12C254 | Date Extracted | : 04/02/12 11:14 |
| Sample ID | : SL-048-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/04/12 13:29 |
| Lab Samp ID | : C254-01 | Dilution Factor | : 0.980 |
| Lab File ID | : 98D01033 | Matrix | : SOIL |
| Ext Btch ID | : IMD002S | % Moisture | : 11.8 |
| Calib. Ref. | : 98D01023 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9310 | 26.7 | 13.3 |
| Antimony | 0.311 | 0.222 | 0.111 |
| Arsenic | 3.85 | 0.444 | 0.222 |
| Barium | 111 | 0.444 | 0.222 |
| Beryllium | 0.424 | 0.111 | 0.0556 |
| Boron | 10.7 | 5.56 | 2.78 |
| Cadmium | 0.438 | 0.111 | 0.0556 |
| Calcium | 8360 | 22.2 | 11.1 |
| Chromium | 13.0 | 0.444 | 0.222 |
| Cobalt | 4.12 | 0.111 | 0.0556 |
| Copper | 9.79 | 0.444 | 0.222 |
| Iron | 16000 | 22.2 | 11.1 |
| Lead | 13.1 | 0.222 | 0.111 |
| Magnesium | 4170 | 11.1 | 5.56 |
| Manganese | 264 | 0.556 | 0.278 |
| Molybdenum | 0.786 | 0.111 | 0.0556 |
| Nickel | 9.07 | 0.444 | 0.222 |
| Potassium | 3840 | 66.7 | 33.3 |
| Selenium | ND | 0.444 | 0.222 |
| Silver | 0.478 | 0.111 | 0.0556 |
| Sodium | 86.3J | 111 | 55.6 |
| Strontium | 47.7 | 0.556 | 0.278 |
| Thallium | 0.201 | 0.111 | 0.0556 |
| Tin | ND | 11.1 | 5.56 |
| Titanium | 768 | 1.11 | 0.556 |
| Vanadium | 26.0 | 0.111 | 0.0556 |
| Zinc | 78.2 | 3.33 | 1.67 |
| Lithium | 16.2 | 2.22 | 1.11 |
| Phosphorus | 823 | 13.3 | 6.67 |
| Zirconium | ND | 5.56 | 2.78 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| SDG NO. : 12C254 | Date Extracted: 04/02/12 11:14 |
| Sample ID: SL-048-NBZ-SB-4.0-5.0 | Date Analyzed: 04/04/12 13:56 |
| Lab Samp ID: C254-03 | Dilution Factor: 0.971 |
| Lab File ID: 98D01039 | Matrix : SOIL |
| Ext Btch ID: IMD002S | % Moisture : 4.5 |
| Calib. Ref.: 98D01035 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 14100 | 24.4 | 12.2 |
| Antimony | 0.149J | 0.203 | 0.102 |
| Arsenic | 4.18 | 0.407 | 0.203 |
| Barium | 55.3 | 0.407 | 0.203 |
| Beryllium | 0.580 | 0.102 | 0.0508 |
| Boron | ND | 5.08 | 2.54 |
| Cadmium | 0.0998J | 0.102 | 0.0508 |
| Calcium | 1320 | 20.3 | 10.2 |
| Chromium | 15.1 | 0.407 | 0.203 |
| Cobalt | 3.92 | 0.102 | 0.0508 |
| Copper | 3.91 | 0.407 | 0.203 |
| Iron | 18500 | 20.3 | 10.2 |
| Lead | 4.75 | 0.203 | 0.102 |
| Magnesium | 4370 | 10.2 | 5.08 |
| Manganese | 154 | 0.508 | 0.254 |
| Molybdenum | 0.924 | 0.102 | 0.0508 |
| Nickel | 7.96 | 0.407 | 0.203 |
| Potassium | 1550 | 61.0 | 30.5 |
| Selenium | 0.301J | 0.407 | 0.203 |
| Silver | ND | 0.102 | 0.0508 |
| Sodium | 67.8J | 102 | 50.8 |
| Strontium | 11.5 | 0.508 | 0.254 |
| Thallium | 0.244 | 0.102 | 0.0508 |
| Tin | ND | 10.2 | 5.08 |
| Titanium | 959 | 1.02 | 0.508 |
| Vanadium | 34.3 | 0.102 | 0.0508 |
| Zinc | 38.8 | 3.05 | 1.53 |
| Lithium | 22.0 | 2.03 | 1.02 |
| Phosphorus | 156 | 12.2 | 6.10 |
| Zirconium | ND | 5.08 | 2.54 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/23/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/23/12 |
| SDG NO. | : 12C254 | Date Extracted | : 04/02/12 11:14 |
| Sample ID | : SL-049-NBZ-SB-2.0-3.0 | Date Analyzed | : 04/04/12 14:00 |
| Lab Samp ID | : C254-05 | Dilution Factor | : 0.976 |
| Lab File ID | : 98D01040 | Matrix | : SOIL |
| Ext Btch ID | : IMD002S | % Moisture | : 3.6 |
| Calib. Ref. | : 98D01035 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11200 | 24.3 | 12.1 |
| Antimony | 0.141J | 0.202 | 0.101 |
| Arsenic | 3.91 | 0.405 | 0.202 |
| Barium | 52.2 | 0.405 | 0.202 |
| Beryllium | 0.496 | 0.101 | 0.0506 |
| Boron | ND | 5.06 | 2.53 |
| Cadmium | 0.105 | 0.101 | 0.0506 |
| Calcium | 1230 | 20.2 | 10.1 |
| Chromium | 12.5 | 0.405 | 0.202 |
| Cobalt | 4.15 | 0.101 | 0.0506 |
| Copper | 4.01 | 0.405 | 0.202 |
| Iron | 16200 | 20.2 | 10.1 |
| Lead | 3.81 | 0.202 | 0.101 |
| Magnesium | 3780 | 10.1 | 5.06 |
| Manganese | 194 | 0.506 | 0.253 |
| Molybdenum | 0.597 | 0.101 | 0.0506 |
| Nickel | 7.23 | 0.405 | 0.202 |
| Potassium | 1920 | 60.7 | 30.4 |
| Selenium | 0.258J | 0.405 | 0.202 |
| Silver | ND | 0.101 | 0.0506 |
| Sodium | 61.2J | 101 | 50.6 |
| Strontium | 9.94 | 0.506 | 0.253 |
| Thallium | 0.211 | 0.101 | 0.0506 |
| Tin | ND | 10.1 | 5.06 |
| Titanium | 819 | 1.01 | 0.506 |
| Vanadium | 28.3 | 0.101 | 0.0506 |
| Zinc | 38.1 | 3.04 | 1.52 |
| Lithium | 22.6 | 2.02 | 1.01 |
| Phosphorus | 185 | 12.1 | 6.07 |
| Zirconium | ND | 5.06 | 2.53 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/23/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/23/12 |
| SDG NO. | : 12C254 | Date Extracted | : 04/02/12 11:14 |
| Sample ID | : SL-051-NBZ-SB-1.5-2.5 | Date Analyzed | : 04/04/12 14:05 |
| Lab Samp ID | : C254-07 | Dilution Factor | : 0.93 |
| Lab File ID | : 98D01041 | Matrix | : SOIL |
| Ext Btch ID | : IMD002S | % Moisture | : 3.5 |
| Calib. Ref. | : 98D01035 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 14800 | 23.1 | 11.6 |
| Antimony | 0.211 | 0.193 | 0.0964 |
| Arsenic | 6.50 | 0.385 | 0.193 |
| Barium | 47.1 | 0.385 | 0.193 |
| Beryllium | 0.594 | 0.0964 | 0.0482 |
| Boron | ND | 4.82 | 2.41 |
| Cadmium | 0.109 | 0.0964 | 0.0482 |
| Calcium | 755 | 19.3 | 9.64 |
| Chromium | 15.5 | 0.385 | 0.193 |
| Cobalt | 5.43 | 0.0964 | 0.0482 |
| Copper | 7.00 | 0.385 | 0.193 |
| Iron | 22200 | 19.3 | 9.64 |
| Lead | 6.18 | 0.193 | 0.0964 |
| Magnesium | 4320 | 9.64 | 4.82 |
| Manganese | 193 | 0.482 | 0.241 |
| Molybdenum | 0.755 | 0.0964 | 0.0482 |
| Nickel | 9.90 | 0.385 | 0.193 |
| Potassium | 2380 | 57.8 | 28.9 |
| Selenium | 0.423 | 0.385 | 0.193 |
| Silver | ND | 0.0964 | 0.0482 |
| Sodium | 81.6J | 96.4 | 48.2 |
| Strontium | 6.89 | 0.482 | 0.241 |
| Thallium | 0.358 | 0.0964 | 0.0482 |
| Tin | ND | 9.64 | 4.82 |
| Titanium | 1070 | 0.964 | 0.482 |
| Vanadium | 31.1 | 0.0964 | 0.0482 |
| Zinc | 51.5 | 2.89 | 1.45 |
| Lithium | 27.1 | 1.93 | 0.964 |
| Phosphorus | 116 | 11.6 | 5.78 |
| Zirconium | ND | 4.82 | 2.41 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/23/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/23/12 |
| SDG NO. | : 12C254 | Date Extracted | : 04/02/12 11:14 |
| Sample ID | : SL-057-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/04/12 13:19 |
| Lab Samp ID | : C254-08 | Dilution Factor | : 0.962 |
| Lab File ID | : 98D01031 | Matrix | : SOIL |
| Ext Btch ID | : IMD002S | % Moisture | : 7.3 |
| Calib. Ref. | : 98D01023 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12100 | 24.9 | 12.5 |
| Antimony | 0.387 | 0.208 | 0.104 |
| Arsenic | 4.19 | 0.415 | 0.208 |
| Barium | 92.4 | 0.415 | 0.208 |
| Beryllium | 0.488 | 0.104 | 0.0519 |
| Boron | ND | 5.19 | 2.59 |
| Cadmium | 0.226 | 0.104 | 0.0519 |
| Calcium | 2450 | 20.8 | 10.4 |
| Chromium | 19.4 | 0.415 | 0.208 |
| Cobalt | 5.29 | 0.104 | 0.0519 |
| Copper | 8.03 | 0.415 | 0.208 |
| Iron | 20100 | 20.8 | 10.4 |
| Lead | 9.74 | 0.208 | 0.104 |
| Magnesium | 5370 | 10.4 | 5.19 |
| Manganese | 280 | 0.519 | 0.259 |
| Molybdenum | 0.840 | 0.104 | 0.0519 |
| Nickel | 11.8 | 0.415 | 0.208 |
| Potassium | 3570 | 62.3 | 31.1 |
| Selenium | ND | 0.415 | 0.208 |
| Silver | ND | 0.104 | 0.0519 |
| Sodium | 57.9J | 104 | 51.9 |
| Strontium | 13.8 | 0.519 | 0.259 |
| Thallium | 0.236 | 0.104 | 0.0519 |
| Tin | ND | 10.4 | 5.19 |
| Titanium | 954 | 1.04 | 0.519 |
| Vanadium | 36.1 | 0.104 | 0.0519 |
| Zinc | 53.5 | 3.11 | 1.56 |
| Lithium | 28.8 | 2.08 | 1.04 |
| Phosphorus | 399 | 12.5 | 6.23 |
| Zirconium | ND | 5.19 | 2.59 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/23/12 |
| SDG NO. : 12C254 | Date Extracted: 04/02/12 11:14 |
| Sample ID: DUP-02-NBZ-QC-032312 | Date Analyzed: 04/04/12 14:10 |
| Lab Samp ID: C254-09 | Dilution Factor: 0.980 |
| Lab File ID: 98D01042 | Matrix : SOIL |
| Ext Btch ID: IMD002S | % Moisture : 6.4 |
| Calib. Ref.: 98D01035 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12400 | 25.1 | 12.6 |
| Antimony | 0.325 | 0.209 | 0.105 |
| Arsenic | 3.82 | 0.419 | 0.209 |
| Barium | 84.1 | 0.419 | 0.209 |
| Beryllium | 0.474 | 0.105 | 0.0524 |
| Boron | ND | 5.24 | 2.62 |
| Cadmium | 0.188 | 0.105 | 0.0524 |
| Calcium | 2350 | 20.9 | 10.5 |
| Chromium | 18.1 | 0.419 | 0.209 |
| Cobalt | 5.13 | 0.105 | 0.0524 |
| Copper | 7.48 | 0.419 | 0.209 |
| Iron | 19200 | 20.9 | 10.5 |
| Lead | 6.74 | 0.209 | 0.105 |
| Magnesium | 5560 | 10.5 | 5.24 |
| Manganese | 266 | 0.524 | 0.262 |
| Molybdenum | 0.708 | 0.105 | 0.0524 |
| Nickel | 11.4 | 0.419 | 0.209 |
| Potassium | 3410 | 62.8 | 31.4 |
| Selenium | ND | 0.419 | 0.209 |
| Silver | ND | 0.105 | 0.0524 |
| Sodium | 54.5J | 105 | 52.4 |
| Strontium | 13.1 | 0.524 | 0.262 |
| Thallium | 0.232 | 0.105 | 0.0524 |
| Tin | ND | 10.5 | 5.24 |
| Titanium | 937 | 1.05 | 0.524 |
| Vanadium | 35.5 | 0.105 | 0.0524 |
| Zinc | 51.0 | 3.14 | 1.57 |
| Lithium | 29.9 | 2.09 | 1.05 |
| Phosphorus | 379 | 12.6 | 6.28 |
| Zirconium | ND | 5.24 | 2.62 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/23/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/23/12 |
| SDG NO. | : 12C254 | Date Extracted | : 04/02/12 11:14 |
| Sample ID | : SL-047-NBZ-SB-4.0-5.0 | Date Analyzed | : 04/04/12 14:21 |
| Lab Samp ID | : C254-11 | Dilution Factor | : 0.962 |
| Lab File ID | : 98D01043 | Matrix | : SOIL |
| Ext Btch ID | : IMD002S | % Moisture | : 4.5 |
| Calib. Ref. | : 98D01035 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10900 | 24.2 | 12.1 |
| Antimony | 0.137J | 0.201 | 0.101 |
| Arsenic | 3.69 | 0.403 | 0.201 |
| Barium | 76.0 | 0.403 | 0.201 |
| Beryllium | 0.477 | 0.101 | 0.0504 |
| Boron | ND | 5.04 | 2.52 |
| Cadmium | 0.149 | 0.101 | 0.0504 |
| Calcium | 1790 | 20.1 | 10.1 |
| Chromium | 13.1 | 0.403 | 0.201 |
| Cobalt | 4.56 | 0.101 | 0.0504 |
| Copper | 5.43 | 0.403 | 0.201 |
| Iron | 17100 | 20.1 | 10.1 |
| Lead | 4.10 | 0.201 | 0.101 |
| Magnesium | 4100 | 10.1 | 5.04 |
| Manganese | 265 | 0.504 | 0.252 |
| Molybdenum | 0.508 | 0.101 | 0.0504 |
| Nickel | 8.19 | 0.403 | 0.201 |
| Potassium | 2550 | 60.4 | 30.2 |
| Selenium | ND | 0.403 | 0.201 |
| Silver | 0.0537J | 0.101 | 0.0504 |
| Sodium | 58.6J | 101 | 50.4 |
| Strontium | 11.6 | 0.504 | 0.252 |
| Thallium | 0.232 | 0.101 | 0.0504 |
| Tin | ND | 10.1 | 5.04 |
| Titanium | 796 | 1.01 | 0.504 |
| Vanadium | 27.5 | 0.101 | 0.0504 |
| Zinc | 45.3 | 3.02 | 1.51 |
| Lithium | 21.6 | 2.01 | 1.01 |
| Phosphorus | 253 | 12.1 | 6.04 |
| Zirconium | ND | 5.04 | 2.52 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| SDG NO. : 12C254 | Date Extracted: 04/02/12 11:14 |
| Sample ID: MBLK1S | Date Analyzed: 04/04/12 13:01 |
| Lab Samp ID: IMD002SB | Dilution Factor: 1 |
| Lab File ID: 98D01027 | Matrix : SOIL |
| Ext Btch ID: IMD002S | % Moisture : NA |
| Calib. Ref.: 98D01023 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C254
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IMD002SB | IMD002SL | IMD002SC | | |
| LAB FILE ID: | 98D01027 | 98D01028 | 98D01029 | | |
| DATIME EXTRCTD: | 04/02/1211:14 | 04/02/1211:14 | 04/02/1211:14 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/04/1213:01 | 04/04/1213:06 | 04/04/1213:11 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | IMD002S | IMD002S | IMD002S | | |
| CALIB. REF: | 98D01023 | 98D01023 | 98D01023 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2540 | 102 | 2500 | 2480 | 99 | 2 | 80-120 | 20 |
| Antimony | ND | 25.0 | 25.9 | 104 | 25.0 | 25.2 | 101 | 3 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 24.9 | 100 | 25.0 | 24.4 | 97 | 2 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.6 | 102 | 25.0 | 24.9 | 100 | 3 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 24.7 | 99 | 25.0 | 24.3 | 97 | 2 | 80-120 | 20 |
| Boron | ND | 25.0 | 25.6 | 102 | 25.0 | 25.2 | 101 | 1 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 25.5 | 102 | 25.0 | 24.7 | 99 | 3 | 80-120 | 20 |
| Calcium | ND | 2500 | 2680 | 107 | 2500 | 2630 | 105 | 2 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.7 | 99 | 25.0 | 24.1 | 96 | 3 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 24.7 | 99 | 25.0 | 23.8 | 95 | 3 | 80-120 | 20 |
| Copper | ND | 25.0 | 24.4 | 98 | 25.0 | 23.6 | 94 | 3 | 80-120 | 20 |
| Iron | ND | 2500 | 2560 | 102 | 2500 | 2490 | 100 | 3 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.1 | 101 | 25.0 | 24.5 | 98 | 2 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2530 | 101 | 2500 | 2470 | 99 | 2 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.1 | 101 | 25.0 | 24.3 | 97 | 3 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 25.6 | 103 | 25.0 | 24.8 | 99 | 3 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.3 | 97 | 25.0 | 23.5 | 94 | 3 | 80-120 | 20 |
| Potassium | ND | 2500 | 2640 | 105 | 2500 | 2560 | 102 | 3 | 80-120 | 20 |
| Selenium | ND | 25.0 | 24.9 | 99 | 25.0 | 23.6 | 94 | 5 | 80-120 | 20 |
| Silver | ND | 25.0 | 25.5 | 102 | 25.0 | 25.1 | 101 | 2 | 80-120 | 20 |
| Sodium | ND | 2500 | 2480 | 99 | 2500 | 2440 | 98 | 2 | 80-120 | 20 |
| Strontium | ND | 25.0 | 26.4 | 106 | 25.0 | 25.5 | 102 | 4 | 80-120 | 20 |
| Thallium | ND | 25.0 | 25.3 | 101 | 25.0 | 24.5 | 98 | 3 | 80-120 | 20 |
| Tin | ND | 25.0 | 27.7 | 111 | 25.0 | 26.8 | 107 | 3 | 80-120 | 20 |
| Titanium | ND | 25.0 | 25.0 | 100 | 25.0 | 24.3 | 97 | 3 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 24.9 | 100 | 25.0 | 24.2 | 97 | 3 | 80-120 | 20 |
| Zinc | ND | 50.0 | 48.7 | 97 | 50.0 | 47.2 | 94 | 3 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.4 | 102 | 25.0 | 25.1 | 100 | 1 | 80-120 | 20 |
| Phosphorus | ND | 250 | 244 | 98 | 250 | 237 | 95 | 3 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 25.4 | 101 | 25.0 | 24.6 | 98 | 3 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C254
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 7.3
DILTN FACTR: 0.962 0.952 0.980
SAMPLE ID: SL-057-NBZ-SS-0.0-0.5
CONTROL NO.: C254-08 C254-08M C254-08S
LAB FILE ID: 98D01031 98D01037 98D01038
DATIME EXTRCTD: 04/02/1211:14 04/02/1211:14 04/02/1211:14 DATE COLLECTED: 03/23/12
DATIME ANALYZD: 04/04/1213:19 04/04/1213:47 04/04/1213:51 DATE RECEIVED: 03/23/12
PREP. BATCH: IMD002S IMD002S IMD002S
CALIB. REF: 98D01023 98D01035 98D01035

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 12100 | 2570 | 14300 | 85 | 2640 | 14800 | 100 | 3 | 75-125 | 20 |
| Antimony | 0.387 | 25.7 | 20.3 | 77 | 26.4 | 20.5 | 76 | 1 | 75-125 | 20 |
| Arsenic | 4.19 | 25.7 | 28.6 | 95 | 26.4 | 30.8 | 101 | 7 | 75-125 | 20 |
| Barium | 92.4 | 25.7 | 117 | 97 | 26.4 | 122 | 113 | 4 | 75-125 | 20 |
| Beryllium | 0.488 | 25.7 | 26.0 | 99 | 26.4 | 26.8 | 99 | 3 | 75-125 | 20 |
| Boron | ND | 25.7 | 26.9 | 105 | 26.4 | 27.9 | 106 | 4 | 75-125 | 20 |
| Cadmium | 0.226 | 25.7 | 25.3 | 98 | 26.4 | 25.5 | 96 | 1 | 75-125 | 20 |
| Calcium | 2450 | 2570 | 4900 | 96 | 2640 | 5080 | 100 | 4 | 75-125 | 20 |
| Chromium | 19.4 | 25.7 | 42.8 | 91 | 26.4 | 45.4 | 98 | 6 | 75-125 | 20 |
| Cobalt | 5.29 | 25.7 | 28.3 | 90 | 26.4 | 29.7 | 92 | 5 | 75-125 | 20 |
| Copper | 8.03 | 25.7 | 30.8 | 89 | 26.4 | 37.2 | 110 | 19 | 75-125 | 20 |
| Iron | 20100 | 2570 | 22600 | 100 | 2640 | 27800 | 293* | 21* | 75-125 | 20 |
| Lead | 9.74 | 25.7 | 35.1 | 99 | 26.4 | 36.2 | 100 | 3 | 75-125 | 20 |
| Magnesium | 5370 | 2570 | 7580 | 86 | 2640 | 7980 | 99 | 5 | 75-125 | 20 |
| Manganese | 280 | 25.7 | 296 | 65* | 26.4 | 333 | 203* | 12 | 75-125 | 20 |
| Molybdenum | 0.840 | 25.7 | 26.8 | 101 | 26.4 | 27.2 | 100 | 2 | 75-125 | 20 |
| Nickel | 11.8 | 25.7 | 36.5 | 96 | 26.4 | 36.5 | 93 | 0 | 75-125 | 20 |
| Potassium | 3570 | 2570 | 5850 | 89 | 2640 | 6000 | 92 | 3 | 75-125 | 20 |
| Selenium | ND | 25.7 | 23.9 | 93 | 26.4 | 24.2 | 92 | 1 | 75-125 | 20 |
| Silver | ND | 25.7 | 25.3 | 98 | 26.4 | 25.6 | 97 | 1 | 75-125 | 20 |
| Sodium | 57.9J | 2570 | 2350 | 89 | 2640 | 2400 | 88 | 2 | 75-125 | 20 |
| Strontium | 13.8 | 25.7 | 38.8 | 97 | 26.4 | 39.7 | 98 | 2 | 75-125 | 20 |
| Thallium | 0.236 | 25.7 | 24.9 | 96 | 26.4 | 25.6 | 96 | 3 | 75-125 | 20 |
| Tin | ND | 25.7 | 29.8 | 116 | 26.4 | 31.2 | 118 | 4 | 75-125 | 20 |
| Titanium | 954 | 25.7 | 924 | -117* | 26.4 | 960 | 24* | 4 | 75-125 | 20 |
| Vanadium | 36.1 | 25.7 | 58.1 | 86 | 26.4 | 65.1 | 110 | 11 | 75-125 | 20 |
| Zinc | 53.5 | 51.3 | 99.0 | 89 | 52.9 | 102 | 92 | 3 | 75-125 | 20 |
| Lithium | 28.8 | 25.7 | 53.7 | 97 | 26.4 | 55.0 | 99 | 2 | 75-125 | 20 |
| Phosphorus | 399 | 257 | 626 | 89 | 264 | 721 | 122 | 14 | 75-125 | 20 |
| Zirconium | ND | 25.7 | 7.18 | 28* | 26.4 | 7.61 | 29* | 6 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C254
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 7.3
DILTN FACTR: 0.962 0.962
SAMPLE ID: SL-057-NBZ-SS-0.0-0.5
CONTROL NO.: C254-08 C254-08A
LAB FILE ID: 98D01031 98D01030
DATIME EXTRCTD: 04/02/1211:14 04/02/1211:14 DATE COLLECTED: 03/23/12
DATIME ANALYZD: 04/04/1213:19 04/04/1213:15 DATE RECEIVED: 03/23/12
PREP. BATCH: IMD002S IMD002S
CALIB. REF: 98D01023 98D01023

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 12100 | 2590 | 14500 | 91 | 75-125 |
| Antimony | 0.387 | 25.9 | 26.3 | 100 | 75-125 |
| Arsenic | 4.19 | 25.9 | 28.2 | 93 | 75-125 |
| Barium | 92.4 | 25.9 | 118 | 101 | 75-125 |
| Beryllium | 0.488 | 25.9 | 26.2 | 99 | 75-125 |
| Boron | ND | 25.9 | 28.6 | 110 | 75-125 |
| Cadmium | 0.226 | 25.9 | 25.4 | 97 | 75-125 |
| Calcium | 2450 | 2590 | 4970 | 97 | 75-125 |
| Chromium | 19.4 | 25.9 | 41.9 | 87 | 75-125 |
| Cobalt | 5.29 | 25.9 | 28.2 | 88 | 75-125 |
| Copper | 8.03 | 25.9 | 29.6 | 83 | 75-125 |
| Iron | 20100 | 2590 | 22100 | 77 | 75-125 |
| Lead | 9.74 | 25.9 | 34.4 | 95 | 75-125 |
| Magnesium | 5370 | 2590 | 7770 | 93 | 75-125 |
| Manganese | 280 | 25.9 | 299 | 73* | 75-125 |
| Molybdenum | 0.840 | 25.9 | 26.8 | 100 | 75-125 |
| Nickel | 11.8 | 25.9 | 33.5 | 84 | 75-125 |
| Potassium | 3570 | 2590 | 6010 | 94 | 75-125 |
| Selenium | ND | 25.9 | 24.4 | 94 | 75-125 |
| Silver | ND | 25.9 | 25.1 | 97 | 75-125 |
| Sodium | 57.9J | 2590 | 2410 | 91 | 75-125 |
| Strontium | 13.8 | 25.9 | 39.6 | 99 | 75-125 |
| Thallium | 0.236 | 25.9 | 25.1 | 96 | 75-125 |
| Tin | ND | 25.9 | 29.8 | 115 | 75-125 |
| Titanium | 954 | 25.9 | 967 | 50* | 75-125 |
| Vanadium | 36.1 | 25.9 | 58.7 | 87 | 75-125 |
| Zinc | 53.5 | 51.9 | 101 | 92 | 75-125 |
| Lithium | 28.8 | 25.9 | 55.1 | 101 | 75-125 |
| Phosphorus | 399 | 259 | 633 | 90 | 75-125 |
| Zirconium | ND | 25.9 | 25.7 | 99 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 7.3
DILUTION FACTOR: 0.962 4.81
SAMPLE ID: SL-057-NBZ-SS- SL-057-NBZ-SS-
EMAX SAMP ID: C254-08 C254-08J
LAB FILE ID: 98D01031 98D01032
DATE EXTRACTED: 04/02/1211:14 04/02/1211:14 DATE COLLECTED: 03/23/12
DATE ANALYZED: 04/04/1213:19 04/04/1213:24 DATE RECEIVED: 03/23/12
PREP. BATCH: IMD002S IMD002S
CALIB. REF: 98D01023 98D01023

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 12100 | 12900 | 6 | 10 |
| Antimony | 0.387 | ND | NA | 10 |
| Arsenic | 4.19 | 4.25 | 2 | 10 |
| Barium | 92.4 | 87.5 | 5 | 10 |
| Beryllium | 0.488 | 0.451J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.226 | ND | NA | 10 |
| Calcium | 2450 | 2620 | 7 | 10 |
| Chromium | 19.4 | 20.4 | 5 | 10 |
| Cobalt | 5.29 | 5.59 | 6 | 10 |
| Copper | 8.03 | 8.75 | 9 | 10 |
| Iron | 20100 | 21200 | 5 | 10 |
| Lead | 9.74 | 9.92 | 2 | 10 |
| Magnesium | 5370 | 5760 | 7 | 10 |
| Manganese | 280 | 296 | 6 | 10 |
| Molybdenum | 0.840 | 0.865 | 3 | 10 |
| Nickel | 11.8 | 12.5 | 6 | 10 |
| Potassium | 3570 | 3600 | 1 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | 57.9J | ND | NA | 10 |
| Strontium | 13.8 | 13.6 | 2 | 10 |
| Thallium | 0.236 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 954 | 954 | 0 | 10 |
| Vanadium | 36.1 | 37.5 | 4 | 10 |
| Zinc | 53.5 | 54.7 | 2 | 10 |
| Lithium | 28.8 | 26.4 | 9 | 10 |
| Phosphorus | 399 | 392 | 2 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C254
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGC031SB | ND | 1 | NA | 0.100 | 0.0500 | 03/30/1216:43 | 03/30/1212:45 | M47C026040 | M47C026032 | HGC031S | NA | 03/30/12 |
| LCS1S | HGC031SL | 0.878 | 1 | NA | 0.100 | 0.0500 | 03/30/1216:46 | 03/30/1212:45 | M47C026041 | M47C026032 | HGC031S | NA | 03/30/12 |
| LCD1S | HGC031SC | 0.888 | 1 | NA | 0.100 | 0.0500 | 03/30/1216:48 | 03/30/1212:45 | M47C026042 | M47C026032 | HGC031S | NA | 03/30/12 |
| SL-057-NBZ-SS-0.0-0.5AS | C254-08A | 0.945 | 0.992 | 7.3 | 0.107 | 0.0535 | 03/30/1216:50 | 03/30/1212:45 | M47C026043 | M47C026032 | HGC031S | 03/23/12 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5 | C254-08 | ND | 0.992 | 7.3 | 0.107 | 0.0535 | 03/30/1216:57 | 03/30/1212:45 | M47C026046 | M47C026044 | HGC031S | 03/23/12 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5DL | C254-08J | ND | 4.96 | 7.3 | 0.535 | 0.268 | 03/30/1216:59 | 03/30/1212:45 | M47C026047 | M47C026044 | HGC031S | 03/23/12 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5MS | C254-08M | 0.964 | 1.00 | 7.3 | 0.108 | 0.0539 | 03/30/1217:01 | 03/30/1212:45 | M47C026048 | M47C026044 | HGC031S | 03/23/12 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | 0.992 | 1.00 | 7.3 | 0.108 | 0.0539 | 03/30/1217:03 | 03/30/1212:45 | M47C026049 | M47C026044 | HGC031S | 03/23/12 | 03/23/12 |
| SL-048-NBZ-SS-0.0-0.5 | C254-01 | 0.240 | 1.01 | 11.8 | 0.115 | 0.0573 | 03/30/1217:05 | 03/30/1212:45 | M47C026050 | M47C026044 | HGC031S | 03/23/12 | 03/23/12 |
| SL-048-NBZ-SB-4.0-5.0 | C254-03 | ND | 0.998 | 4.5 | 0.105 | 0.0523 | 03/30/1217:07 | 03/30/1212:45 | M47C026051 | M47C026044 | HGC031S | 03/23/12 | 03/23/12 |
| SL-049-NBZ-SB-2.0-3.0 | C254-05 | ND | 0.993 | 3.6 | 0.103 | 0.0515 | 03/30/1217:09 | 03/30/1212:45 | M47C026052 | M47C026044 | HGC031S | 03/23/12 | 03/23/12 |
| SL-051-NBZ-SB-1.5-2.5 | C254-07 | ND | 0.985 | 3.5 | 0.102 | 0.0510 | 03/30/1217:11 | 03/30/1212:45 | M47C026053 | M47C026044 | HGC031S | 03/23/12 | 03/23/12 |
| DUP-02-NBZ-QC-032312 | C254-09 | ND | 0.988 | 6.4 | 0.106 | 0.0528 | 03/30/1217:13 | 03/30/1212:45 | M47C026054 | M47C026044 | HGC031S | 03/23/12 | 03/23/12 |
| SL-047-NBZ-SB-4.0-5.0 | C254-11 | ND | 1.00 | 4.5 | 0.105 | 0.0524 | 03/30/1217:15 | 03/30/1212:45 | M47C026055 | M47C026044 | HGC031S | 03/23/12 | 03/23/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C254
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGC031SB | HGC031SL | HGC031SC | | |
| LAB FILE ID: | M47C026040 | M47C026041 | M47C026042 | | |
| DATIME EXTRCTD: | 03/30/1212:45 | 03/30/1212:45 | 03/30/1212:45 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 03/30/1216:43 | 03/30/1216:46 | 03/30/1216:48 | DATE RECEIVED: | 03/30/12 |
| PREP. BATCH: | HGC031S | HGC031S | HGC031S | | |
| CALIB. REF: | M47C026032 | M47C026032 | M47C026032 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .878 | 105 | .833 | .888 | 107 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C254
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 7.3 |
| DILTN FACTR: | 0.992 | 1.00 | 1.00 | | |
| SAMPLE ID: | SL-057-NBZ-SS-0.0-0.5 | | | | |
| CONTROL NO.: | C254-08 | C254-08M | C254-08S | | |
| LAB FILE ID: | M47C026046 | M47C026048 | M47C026049 | | |
| DATIME EXTRCTD: | 03/30/1212:45 | 03/30/1212:45 | 03/30/1212:45 | DATE COLLECTED: | 03/23/12 |
| DATIME ANALYZD: | 03/30/1216:57 | 03/30/1217:01 | 03/30/1217:03 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | HGC031S | HGC031S | HGC031S | | |
| CALIB. REF: | M47C026044 | M47C026044 | M47C026044 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .899 | .964 | 107 | .899 | .992 | 110 | 3 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C254
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 7.3 |
| DILTN FACTR: | 0.992 | 0.992 | | |
| SAMPLE ID: | SL-057-NBZ-SS-0.0-0.5 | | | |
| CONTROL NO.: | C254-08 | C254-08A | | |
| LAB FILE ID: | M47C026046 | M47C026043 | | |
| DATIME EXTRCTD: | 03/30/1212:45 | 03/30/1212:45 | DATE COLLECTED: | 03/23/12 |
| DATIME ANALYZD: | 03/30/1216:57 | 03/30/1216:50 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | HGC031S | HGC031S | | |
| CALIB. REF: | M47C026044 | M47C026032 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .891 | .945 | 106 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 7.3 |
| DILUTION FACTOR: | 0.992 | 4.96 | | |
| SAMPLE ID: | SL-057-NBZ-SS-0.0-0 | SL-057-NBZ-SS-0.0-0 | | |
| EMAX SAMP ID: | C254-08 | C254-08J | | |
| LAB FILE ID: | M47C026046 | M47C026047 | | |
| DATE EXTRACTED: | 03/30/1212:45 | 03/30/1212:45 | DATE COLLECTED: | 03/23/12 |
| DATE ANALYZED: | 03/30/1216:57 | 03/30/1216:59 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | HGC031S | HGC031S | | |
| CALIB. REF: | M47C026044 | M47C026044 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C254
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC007SB | ND | 1 | NA | 1.50 | 0.750 | 03/27/1220:46 | 03/27/1212:27 | AC35-23 | AC35-21 | ICC007S | NA | 03/27/12 |
| LCS1S | ICC007SL | 25.6 | 1 | NA | 1.50 | 0.750 | 03/27/1221:03 | 03/27/1212:27 | AC35-24 | AC35-21 | ICC007S | NA | 03/27/12 |
| LCD1S | ICC007SC | 25.6 | 1 | NA | 1.50 | 0.750 | 03/27/1221:19 | 03/27/1212:27 | AC35-25 | AC35-21 | ICC007S | NA | 03/27/12 |
| SL-048-NBZ-SS-0.0-0.5 | C254-01 | 9.48 | 1 | 11.8 | 1.70 | 0.850 | 03/28/1200:00 | 03/27/1212:27 | AC35-35 | AC35-33 | ICC007S | 03/23/1212:00 | 03/23/12 |
| SL-048-NBZ-SB-4.0-5.0 | C254-03 | 1.81 | 1 | 4.5 | 1.57 | 0.785 | 03/28/1200:17 | 03/27/1212:27 | AC35-36 | AC35-33 | ICC007S | 03/23/1212:30 | 03/23/12 |
| SL-049-NBZ-SB-2.0-3.0 | C254-05 | 2.34 | 1 | 3.6 | 1.56 | 0.778 | 03/28/1200:33 | 03/27/1212:27 | AC35-37 | AC35-33 | ICC007S | 03/23/1211:15 | 03/23/12 |
| SL-051-NBZ-SB-1.5-2.5 | C254-07 | 1.81 | 1 | 3.5 | 1.55 | 0.777 | 03/28/1200:49 | 03/27/1212:27 | AC35-38 | AC35-33 | ICC007S | 03/23/1210:15 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5 | C254-08 | 2.32 | 1 | 7.3 | 1.62 | 0.809 | 03/28/1201:05 | 03/27/1212:27 | AC35-39 | AC35-33 | ICC007S | 03/23/1209:20 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5MS | C254-08M | 30.0 | 1 | 7.3 | 1.62 | 0.809 | 03/28/1201:21 | 03/27/1212:27 | AC35-40 | AC35-33 | ICC007S | 03/23/1209:20 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | 30.0 | 1 | 7.3 | 1.62 | 0.809 | 03/28/1201:37 | 03/27/1212:27 | AC35-41 | AC35-33 | ICC007S | 03/23/1209:20 | 03/23/12 |
| DUP-02-NBZ-QC-032312 | C254-09 | 1.35J | 1 | 6.4 | 1.60 | 0.801 | 03/28/1201:53 | 03/27/1212:27 | AC35-42 | AC35-33 | ICC007S | 03/23/1209:28 | 03/23/12 |
| SL-047-NBZ-SB-4.0-5.0 | C254-11 | 1.88 | 1 | 4.5 | 1.57 | 0.785 | 03/28/1202:10 | 03/27/1212:27 | AC35-43 | AC35-33 | ICC007S | 03/23/1215:20 | 03/23/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC007SB | ICC007SL | ICC007SC | | |
| LAB FILE ID: | AC35-23 | AC35-24 | AC35-25 | | |
| DATE EXTRACTED: | 03/27/1212:27 | 03/27/1212:27 | 03/27/1212:27 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/27/1220:46 | 03/27/1221:03 | 03/27/1221:19 | DATE RECEIVED: | 03/27/12 |
| PREP. BATCH: | ICC007S | ICC007S | ICC007S | | |
| CALIB. REF: | AC35-21 | AC35-21 | AC35-21 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 25.6 | 96 | 26.6 | 25.6 | 96 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: 300.0

MATRIX: SOIL % MOISTURE: 7.3
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-057-NBZ-SS-0.0-0.5
LAB SAMP ID: C254-08 C254-08M C254-08S
LAB FILE ID: AC35-39 AC35-40 AC35-41
DATE EXTRACTED: 03/27/1212:27 03/27/1212:27 03/27/1212:27 DATE COLLECTED: 03/23/12 09:20
DATE ANALYZED: 03/28/1201:05 03/28/1201:21 03/28/1201:37 DATE RECEIVED: 03/23/12
PREP. BATCH: ICC007S ICC007S ICC007S
CALIB. REF: AC35-33 AC35-33 AC35-33

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | 2.32 | 28.7 | 30.0 | 96 | 28.7 | 30.0 | 97 | 0 | 80-120 | 20 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C254
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC007SB | ND | 1 | NA | 1.00 | 0.500 | 03/27/1220:46 | 03/27/1212:27 | AC35-23 | AC35-21 | ICC007S | NA | 03/27/12 |
| LCS1S | ICC007SL | 5.82 | 1 | NA | 1.00 | 0.500 | 03/27/1221:03 | 03/27/1212:27 | AC35-24 | AC35-21 | ICC007S | NA | 03/27/12 |
| LCD1S | ICC007SC | 5.82 | 1 | NA | 1.00 | 0.500 | 03/27/1221:19 | 03/27/1212:27 | AC35-25 | AC35-21 | ICC007S | NA | 03/27/12 |
| SL-048-NBZ-SS-0.0-0.5 | C254-01 | 0.818J | 1 | 11.8 | 1.13 | 0.567 | 03/28/1200:00 | 03/27/1212:27 | AC35-35 | AC35-33 | ICC007S | 03/23/1212:00 | 03/23/12 |
| SL-048-NBZ-SB-4.0-5.0 | C254-03 | 0.925J | 1 | 4.5 | 1.05 | 0.524 | 03/28/1200:17 | 03/27/1212:27 | AC35-36 | AC35-33 | ICC007S | 03/23/1212:30 | 03/23/12 |
| SL-049-NBZ-SB-2.0-3.0 | C254-05 | 0.597J | 1 | 3.6 | 1.04 | 0.519 | 03/28/1200:33 | 03/27/1212:27 | AC35-37 | AC35-33 | ICC007S | 03/23/1211:15 | 03/23/12 |
| SL-051-NBZ-SB-1.5-2.5 | C254-07 | ND | 1 | 3.5 | 1.04 | 0.518 | 03/28/1200:49 | 03/27/1212:27 | AC35-38 | AC35-33 | ICC007S | 03/23/1210:15 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5 | C254-08 | 0.652J | 1 | 7.3 | 1.08 | 0.539 | 03/28/1201:05 | 03/27/1212:27 | AC35-39 | AC35-33 | ICC007S | 03/23/1209:20 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5MS | C254-08M | 7.01 | 1 | 7.3 | 1.08 | 0.539 | 03/28/1201:21 | 03/27/1212:27 | AC35-40 | AC35-33 | ICC007S | 03/23/1209:20 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | 7.00 | 1 | 7.3 | 1.08 | 0.539 | 03/28/1201:37 | 03/27/1212:27 | AC35-41 | AC35-33 | ICC007S | 03/23/1209:20 | 03/23/12 |
| DUP-02-NBZ-QC-032312 | C254-09 | 0.637J | 1 | 6.4 | 1.07 | 0.534 | 03/28/1201:53 | 03/27/1212:27 | AC35-42 | AC35-33 | ICC007S | 03/23/1209:28 | 03/23/12 |
| SL-047-NBZ-SB-4.0-5.0 | C254-11 | 0.789J | 1 | 4.5 | 1.05 | 0.524 | 03/28/1202:10 | 03/27/1212:27 | AC35-43 | AC35-33 | ICC007S | 03/23/1215:20 | 03/23/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC007SB | ICC007SL | ICC007SC | | |
| LAB FILE ID: | AC35-23 | AC35-24 | AC35-25 | | |
| DATE EXTRACTED: | 03/27/1212:27 | 03/27/1212:27 | 03/27/1212:27 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/27/1220:46 | 03/27/1221:03 | 03/27/1221:19 | DATE RECEIVED: | 03/27/12 |
| PREP. BATCH: | ICC007S | ICC007S | ICC007S | | |
| CALIB. REF: | AC35-21 | AC35-21 | AC35-21 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 5.82 | 97 | 6.00 | 5.82 | 97 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 7.3 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-057-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C254-08 | C254-08M | C254-08S | | |
| LAB FILE ID: | AC35-39 | AC35-40 | AC35-41 | | |
| DATE EXTRACTED: | 03/27/1212:27 | 03/27/1212:27 | 03/27/1212:27 | DATE COLLECTED: | 03/23/12 09:20 |
| DATE ANALYZED: | 03/28/1201:05 | 03/28/1201:21 | 03/28/1201:37 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | ICC007S | ICC007S | ICC007S | | |
| CALIB. REF: | AC35-33 | AC35-33 | AC35-33 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | 0.652 | 6.47 | 7.01 | 98 | 6.47 | 7.00 | 98 | 0 | 80-120 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C254
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD002SB | ND | 1 | NA | 20.0 | 10.0 | 04/04/1207:35 | 04/02/1215:30 | JD04048 | JD04047 | PCD002S | NA | 04/02/12 |
| LCS1S | PCD002SL | 254 | 1 | NA | 20.0 | 10.0 | 04/04/1208:17 | 04/02/1215:30 | JD04050 | JD04047 | PCD002S | NA | 04/02/12 |
| LCD1S | PCD002SC | 257 | 1 | NA | 20.0 | 10.0 | 04/04/1208:38 | 04/02/1215:30 | JD04051 | JD04047 | PCD002S | NA | 04/02/12 |
| SL-047-NBZ-SB-4.0-5.0 | C254-11 | ND | 1 | 4.5 | 20.9 | 10.5 | 04/04/1211:47 | 04/02/1215:30 | JD04060 | JD04058 | PCD002S | 03/23/1215:20 | 03/23/12 |
| DUP-02-NBZ-QC-032312 | C254-09 | ND | 1 | 6.4 | 21.4 | 10.7 | 04/04/1212:08 | 04/02/1215:30 | JD04061 | JD04058 | PCD002S | 03/23/1209:28 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5 | C254-08 | ND | 1 | 7.3 | 21.6 | 10.8 | 04/04/1213:26 | 04/02/1215:30 | JD04062 | JD04058 | PCD002S | 03/23/1209:20 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5MS | C254-08M | 266 | 1 | 7.3 | 21.6 | 10.8 | 04/04/1213:48 | 04/02/1215:30 | JD04063 | JD04058 | PCD002S | 03/23/1209:20 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | 265 | 1 | 7.3 | 21.6 | 10.8 | 04/04/1214:09 | 04/02/1215:30 | JD04064 | JD04058 | PCD002S | 03/23/1209:20 | 03/23/12 |
| SL-051-NBZ-SB-1.5-2.5 | C254-07 | ND | 1 | 3.5 | 20.7 | 10.4 | 04/04/1214:30 | 04/02/1215:30 | JD04065 | JD04058 | PCD002S | 03/23/1210:15 | 03/23/12 |
| SL-048-NBZ-SB-4.0-5.0 | C254-03 | ND | 1 | 4.5 | 20.9 | 10.5 | 04/04/1215:12 | 04/02/1215:30 | JD04067 | JD04058 | PCD002S | 03/23/1212:30 | 03/23/12 |
| SL-049-NBZ-SB-2.0-3.0 | C254-05W | ND | 1 | 3.6 | 20.7 | 10.4 | 04/05/1211:42 | 04/02/1215:30 | JD05048 | JD05047 | PCD002S | 03/23/1211:15 | 03/23/12 |
| SL-048-NBZ-SS-0.0-0.5 | C254-01 | ND | 5 | 11.8 | 113 | 56.7 | 04/05/1212:03 | 04/02/1215:30 | JD05049 | JD05047 | PCD002S | 03/23/1212:00 | 03/23/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD002SB | PCD002SL | PCD002SC | | |
| LAB FILE ID: | JD04048 | JD04050 | JD04051 | | |
| DATE EXTRACTED: | 04/02/1215:30 | 04/02/1215:30 | 04/02/1215:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/04/1207:35 | 04/04/1208:17 | 04/04/1208:38 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | PCD002S | PCD002S | PCD002S | | |
| CALIB. REF: | JD04047 | JD04047 | JD04047 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 254 | 102 | 250 | 257 | 103 | 1 | 85-115 | 15 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 7.3 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-057-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C254-08 | C254-08M | C254-08S | | |
| LAB FILE ID: | JD04062 | JD04063 | JD04064 | | |
| DATE EXTRACTED: | 04/02/1215:30 | 04/02/1215:30 | 04/02/1215:30 | DATE COLLECTED: | 03/23/12 09:20 |
| DATE ANALYZED: | 04/04/1213:26 | 04/04/1213:48 | 04/04/1214:09 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | PCD002S | PCD002S | PCD002S | | |
| CALIB. REF: | JD04058 | JD04058 | JD04058 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 270 | 266 | 99 | 270 | 265 | 98 | 0 | 80-120 | 20 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C254
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCC007SB | ND | 1 | NA | 1.00 | 0.500 | 03/28/1219:08 | 03/27/1217:42 | IC30025 | IC30023 | HCC007S | NA | 03/27/12 |
| MBLK1S | HCC007SQ | ND | 1 | NA | 1.00 | 0.500 | 03/28/1219:19 | 03/27/1217:42 | IC30026 | IC30023 | HCC007S | NA | 03/27/12 |
| LCS1S | CSC007SL | 9.81 | 1 | NA | 1.00 | 0.500 | 03/28/1219:29 | 03/27/1217:42 | IC30027 | IC30023 | HCC007S | NA | 03/27/12 |
| LCS1S | CSC007SX | 9.89 | 1 | NA | 1.00 | 0.500 | 03/28/1219:40 | 03/27/1217:42 | IC30028 | IC30023 | HCC007S | NA | 03/27/12 |
| LCS2S | CIC007SL | 244 | 10 | NA | 10.0 | 5.00 | 03/28/1219:50 | 03/27/1217:42 | IC30029 | IC30023 | HCC007S | NA | 03/27/12 |
| LCS2S | CIC007SX | 255 | 10 | NA | 10.0 | 5.00 | 03/28/1220:00 | 03/27/1217:42 | IC30030 | IC30023 | HCC007S | NA | 03/27/12 |
| SL-048-NBZ-SB-4.0-5.0 | C254-03 | ND | 1 | 4.5 | 1.05 | 0.524 | 03/28/1223:39 | 03/27/1217:42 | IC30049 | IC30047 | HCC007S | 03/23/1212:30 | 03/23/12 |
| SL-048-NBZ-SB-4.0-5.0 | C254-03R | ND | 1 | 4.5 | 1.05 | 0.524 | 03/28/1223:49 | 03/27/1217:42 | IC30050 | IC30047 | HCC007S | 03/23/1212:30 | 03/23/12 |
| SL-049-NBZ-SB-2.0-3.0 | C254-05 | ND | 1 | 3.6 | 1.04 | 0.519 | 03/29/1200:00 | 03/27/1217:42 | IC30051 | IC30047 | HCC007S | 03/23/1211:15 | 03/23/12 |
| SL-049-NBZ-SB-2.0-3.0 | C254-05R | ND | 1 | 3.6 | 1.04 | 0.519 | 03/29/1200:10 | 03/27/1217:42 | IC30052 | IC30047 | HCC007S | 03/23/1211:15 | 03/23/12 |
| SL-051-NBZ-SB-1.5-2.5 | C254-07 | ND | 1 | 3.5 | 1.04 | 0.518 | 03/29/1200:21 | 03/27/1217:42 | IC30053 | IC30047 | HCC007S | 03/23/1210:15 | 03/23/12 |
| SL-051-NBZ-SB-1.5-2.5 | C254-07R | ND | 1 | 3.5 | 1.04 | 0.518 | 03/29/1200:31 | 03/27/1217:42 | IC30054 | IC30047 | HCC007S | 03/23/1210:15 | 03/23/12 |
| DUP-02-NBZ-QC-032312 | C254-09 | ND | 1 | 6.4 | 1.07 | 0.534 | 03/29/1200:41 | 03/27/1217:42 | IC30055 | IC30047 | HCC007S | 03/23/1209:28 | 03/23/12 |
| DUP-02-NBZ-QC-032312 | C254-09R | ND | 1 | 6.4 | 1.07 | 0.534 | 03/29/1200:52 | 03/27/1217:42 | IC30056 | IC30047 | HCC007S | 03/23/1209:28 | 03/23/12 |
| SL-047-NBZ-SB-4.0-5.0 | C254-11 | ND | 1 | 4.5 | 1.05 | 0.524 | 03/29/1203:17 | 03/27/1217:42 | IC30069 | IC30059 | HCC007S | 03/23/1215:20 | 03/23/12 |
| SL-047-NBZ-SB-4.0-5.0 | C254-11R | ND | 1 | 4.5 | 1.05 | 0.524 | 03/29/1203:28 | 03/27/1217:42 | IC30070 | IC30059 | HCC007S | 03/23/1215:20 | 03/23/12 |
| MBLK3S | HCD005SB | ND | 1 | NA | 1.00 | 0.500 | 04/06/1219:11 | 04/05/1215:09 | ID07003 | ID07001 | HCD005S | NA | 04/05/12 |
| MBLK3S | HCD005SQ | ND | 1 | NA | 1.00 | 0.500 | 04/06/1219:22 | 04/05/1215:09 | ID07004 | ID07001 | HCD005S | NA | 04/05/12 |
| LCS3S | CSD005SL | 10.2 | 1 | NA | 1.00 | 0.500 | 04/06/1219:32 | 04/05/1215:09 | ID07005 | ID07001 | HCD005S | NA | 04/05/12 |
| LCS3S | CSD005SX | 9.99 | 1 | NA | 1.00 | 0.500 | 04/06/1219:43 | 04/05/1215:09 | ID07006 | ID07001 | HCD005S | NA | 04/05/12 |
| LCS4S | CID005SL | 365 | 20 | NA | 20.0 | 10.0 | 04/06/1219:53 | 04/05/1215:09 | ID07007 | ID07001 | HCD005S | NA | 04/05/12 |
| LCS4S | CID005SX | 372 | 20 | NA | 20.0 | 10.0 | 04/06/1220:03 | 04/05/1215:09 | ID07008 | ID07001 | HCD005S | NA | 04/05/12 |
| SL-048-NBZ-SS-0.0-0.5 | C254-01 | ND | 1 | 11.8 | 1.13 | 0.567 | 04/06/1220:14 | 04/05/1215:09 | ID07009 | ID07001 | HCD005S | 03/23/1212:00 | 03/23/12 |
| SL-048-NBZ-SS-0.0-0.5 | C254-01R | ND | 1 | 11.8 | 1.13 | 0.567 | 04/06/1220:24 | 04/05/1215:09 | ID07010 | ID07001 | HCD005S | 03/23/1212:00 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5 | C254-08 | ND | 1 | 7.3 | 1.08 | 0.539 | 04/06/1221:27 | 04/05/1215:09 | ID07015 | ID07013 | HCD005S | 03/23/1209:20 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5 | C254-08R | ND | 1 | 7.3 | 1.08 | 0.539 | 04/06/1221:37 | 04/05/1215:09 | ID07016 | ID07013 | HCD005S | 03/23/1209:20 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5MS | C254-08M | 10.4 | 1 | 7.3 | 1.08 | 0.539 | 04/06/1221:47 | 04/05/1215:09 | ID07017 | ID07013 | HCD005S | 03/23/1209:20 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5MS | C254-08M1 | 10.3 | 1 | 7.3 | 1.08 | 0.539 | 04/06/1221:58 | 04/05/1215:09 | ID07018 | ID07013 | HCD005S | 03/23/1209:20 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | 10.1 | 1 | 7.3 | 1.08 | 0.539 | 04/06/1222:08 | 04/05/1215:09 | ID07019 | ID07013 | HCD005S | 03/23/1209:20 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5MSD | C254-08S1 | 10.8 | 1 | 7.3 | 1.08 | 0.539 | 04/06/1222:19 | 04/05/1215:09 | ID07020 | ID07013 | HCD005S | 03/23/1209:20 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5MS | C254-08G | 204 | 10 | 7.3 | 10.8 | 5.39 | 04/06/1222:29 | 04/05/1215:09 | ID07021 | ID07013 | HCD005S | 03/23/1209:20 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5MS | C254-08G1 | 206 | 10 | 7.3 | 10.8 | 5.39 | 04/06/1222:39 | 04/05/1215:09 | ID07022 | ID07013 | HCD005S | 03/23/1209:20 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5MSD | C254-08H | 214 | 10 | 7.3 | 10.8 | 5.39 | 04/06/1222:50 | 04/05/1215:09 | ID07023 | ID07013 | HCD005S | 03/23/1209:20 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5MSD | C254-08H1 | 204 | 10 | 7.3 | 10.8 | 5.39 | 04/06/1223:00 | 04/05/1215:09 | ID07024 | ID07013 | HCD005S | 03/23/1209:20 | 03/23/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 10
SAMPLE ID: MBLK1S
LAB SAMP ID: HCC007SB CIC007SL
LAB FILE ID: IC30025 IC30029
DATE EXTRACTED: 03/27/1217:42 03/27/1217:42 DATE COLLECTED: NA
DATE ANALYZED: 03/28/1219:08 03/28/1219:50 DATE RECEIVED: 03/27/12
PREP. BATCH: HCC007S HCC007S
CALIB. REF: IC30023 IC30023

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 272 | 244 | 90 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK3S
LAB SAMP ID: HCD005SQ CID005SX
LAB FILE ID: ID07004 ID07008
DATE EXTRACTED: 04/05/1215:09 04/05/1215:09 DATE COLLECTED: NA
DATE ANALYZED: 04/06/1219:22 04/06/1220:03 DATE RECEIVED: 04/05/12
PREP. BATCH: HCD005S HCD005S
CALIB. REF: ID07001 ID07001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 430 | 372 | 86 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCC007SB | CSC007SL | | |
| LAB FILE ID: | IC30025 | IC30027 | | |
| DATE EXTRACTED: | 03/27/1217:42 | 03/27/1217:42 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/28/1219:08 | 03/28/1219:29 | DATE RECEIVED: | 03/27/12 |
| PREP. BATCH: | HCC007S | HCC007S | | |
| CALIB. REF: | IC30023 | IC30023 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 9.81 | 98 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK3S
LAB SAMP ID: HCD005SQ CSD005SX
LAB FILE ID: ID07004 ID07006
DATE EXTRACTED: 04/05/1215:09 04/05/1215:09 DATE COLLECTED: NA
DATE ANALYZED: 04/06/1219:22 04/06/1219:43 DATE RECEIVED: 04/05/12
PREP. BATCH: HCD005S HCD005S
CALIB. REF: ID07001 ID07001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 9.99 | 100 | 80-120 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: 7199

MATRIX: SOIL % MOISTURE: 7.3
DILUTION FACTOR: 1 10 10
SAMPLE ID: SL-057-NBZ-SS-0.0-0.5
LAB SAMP ID: C254-08R C254-08G1 C254-08H1
LAB FILE ID: ID07016 ID07022 ID07024
DATE EXTRACTED: 04/05/1215:09 04/05/1215:09 04/05/1215:09 DATE COLLECTED: 03/23/12 09:20
DATE ANALYZED: 04/06/1221:37 04/06/1222:39 04/06/1223:00 DATE RECEIVED: 03/23/12
PREP. BATCH: HCD005S HCD005S HCD005S
CALIB. REF: ID07013 ID07013 ID07013

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 237 | 206 | 87 | 253 | 204 | 81 | 1 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: 7199

MATRIX: SOIL % MOISTURE: 7.3
DILUTION FACTOR: 1 10 10
SAMPLE ID: SL-057-NBZ-SS-0.0-0.5
LAB SAMP ID: C254-08 C254-08G C254-08H
LAB FILE ID: ID07015 ID07021 ID07023
DATE EXTRACTED: 04/05/1215:09 04/05/1215:09 04/05/1215:09 DATE COLLECTED: 03/23/12 09:20
DATE ANALYZED: 04/06/1221:27 04/06/1222:29 04/06/1222:50 DATE RECEIVED: 03/23/12
PREP. BATCH: HCD005S HCD005S HCD005S
CALIB. REF: ID07013 ID07013 ID07013

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 237 | 204 | 86 | 253 | 214 | 85 | 5 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: 7199

MATRIX: SOIL % MOISTURE: 7.3
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-057-NBZ-SS-0.0-0.5
LAB SAMP ID: C254-08 C254-08M C254-08S
LAB FILE ID: ID07015 ID07017 ID07019
DATE EXTRACTED: 04/05/1215:09 04/05/1215:09 04/05/1215:09 DATE COLLECTED: 03/23/12 09:20
DATE ANALYZED: 04/06/1221:27 04/06/1221:47 04/06/1222:08 DATE RECEIVED: 03/23/12
PREP. BATCH: HCD005S HCD005S HCD005S
CALIB. REF: ID07013 ID07013 ID07013

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.8 | 10.4 | 97 | 10.8 | 10.1 | 94 | 3 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C254
METHOD: 7199

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 7.3 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-057-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C254-08R | C254-08M1 | C254-08S1 | | |
| LAB FILE ID: | ID07016 | ID07018 | ID07020 | | |
| DATE EXTRACTED: | 04/05/1215:09 | 04/05/1215:09 | 04/05/1215:09 | DATE COLLECTED: | 03/23/12 09:20 |
| DATE ANALYZED: | 04/06/1221:37 | 04/06/1221:58 | 04/06/1222:19 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | HCD005S | HCD005S | HCD005S | | |
| CALIB. REF: | ID07013 | ID07013 | ID07013 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.8 | 10.3 | 95 | 10.8 | 10.8 | 100 | 5 | 75-125 | 20 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C254

Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CNC013SB | ND | 1 | NA | 0.500 | 0.250 | 03/29/1218:30 | 03/29/1211:00 | CNC01310 | CNC01308 | CNC013S | NA | 03/29/12 |
| LCS1S | CNC013SL | 2.53 | 1 | NA | 0.500 | 0.250 | 03/29/1218:30 | 03/29/1211:00 | CNC01311 | CNC01308 | CNC013S | NA | 03/29/12 |
| LCD1S | CNC013SC | 2.76 | 1 | NA | 0.500 | 0.250 | 03/29/1218:30 | 03/29/1211:00 | CNC01312 | CNC01308 | CNC013S | NA | 03/29/12 |
| SL-048-NBZ-SS-0.0-0.5 | C254-01 | 0.744 | 1 | 11.8 | 0.567 | 0.283 | 03/29/1218:31 | 03/29/1211:00 | CNC01313 | CNC01308 | CNC013S | 03/23/1212:00 | 03/23/12 |
| SL-048-NBZ-SB-4.0-5.0 | C254-03 | ND | 1 | 4.5 | 0.524 | 0.262 | 03/29/1218:31 | 03/29/1211:00 | CNC01314 | CNC01308 | CNC013S | 03/23/1212:30 | 03/23/12 |
| SL-049-NBZ-SB-2.0-3.0 | C254-05 | ND | 1 | 3.6 | 0.519 | 0.259 | 03/29/1218:31 | 03/29/1211:00 | CNC01315 | CNC01308 | CNC013S | 03/23/1211:15 | 03/23/12 |
| SL-051-NBZ-SB-1.5-2.5 | C254-07 | ND | 1 | 3.5 | 0.518 | 0.259 | 03/29/1218:31 | 03/29/1211:00 | CNC01316 | CNC01308 | CNC013S | 03/23/1210:15 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5 | C254-08 | ND | 1 | 7.3 | 0.539 | 0.270 | 03/29/1218:31 | 03/29/1211:00 | CNC01317 | CNC01308 | CNC013S | 03/23/1209:20 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5MS | C254-08M | 2.96 | 1 | 7.3 | 0.539 | 0.270 | 03/29/1218:32 | 03/29/1211:00 | CNC01318 | CNC01308 | CNC013S | 03/23/1209:20 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | 3.06 | 1 | 7.3 | 0.539 | 0.270 | 03/29/1218:32 | 03/29/1211:00 | CNC01319 | CNC01308 | CNC013S | 03/23/1209:20 | 03/23/12 |
| DUP-02-NBZ-QC-032312 | C254-09 | ND | 1 | 6.4 | 0.534 | 0.267 | 03/29/1218:33 | 03/29/1211:00 | CNC01322 | CNC01321 | CNC013S | 03/23/1209:28 | 03/23/12 |
| SL-047-NBZ-SB-4.0-5.0 | C254-11 | ND | 1 | 4.5 | 0.524 | 0.262 | 03/29/1218:33 | 03/29/1211:00 | CNC01323 | CNC01322 | CNC013S | 03/23/1215:20 | 03/23/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C254
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CNC013SL/C

DATE RECEIVED: 03/29/12
DATE EXTRACTED: 03/29/1211:00
DATE ANALYZED: 03/29/1218:30/18:30

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.53 | 101 | 2.50 | 2.76 | 110 | 9 | 85-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: 7.3

BATCH NO.: 12C254
SAMPLE ID: SL-057-NBZ-SS-0.0-0.5MS/MSD
CONTROL NO.: C254-08M/S

DATE RECEIVED: 03/23/12
DATE EXTRACTED: 03/29/1211:00
DATE ANALYZED: 03/29/1218:32/18:32

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.96 | 119 | 2.50 | 3.06 | 122 | 3 | 75-125 | 20 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C254
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-048-NBZ-SS-0.0-0.5 | C254-01 | 7.78 | 1 | NA | NA | NA | 03/24/1212:06 | 03/24/1212:06 | 12PHC022S01 | PHC022S | PHC022S | 03/23/1212:00 | 03/23/12 |
| SL-048-NBZ-SB-4.0-5.0 | C254-03 | 5.90 | 1 | NA | NA | NA | 03/24/1212:10 | 03/24/1212:06 | 12PHC022S02 | PHC022S | PHC022S | 03/23/1212:30 | 03/23/12 |
| SL-049-NBZ-SB-2.0-3.0 | C254-05 | 6.02 | 1 | NA | NA | NA | 03/24/1212:13 | 03/24/1212:06 | 12PHC022S03 | PHC022S | PHC022S | 03/23/1211:15 | 03/23/12 |
| SL-051-NBZ-SB-1.5-2.5 | C254-07 | 5.71 | 1 | NA | NA | NA | 03/24/1212:15 | 03/24/1212:06 | 12PHC022S04 | PHC022S | PHC022S | 03/23/1210:15 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5 | C254-08 | 6.98 | 1 | NA | NA | NA | 03/24/1212:18 | 03/24/1212:06 | 12PHC022S05 | PHC022S | PHC022S | 03/23/1209:20 | 03/23/12 |
| SL-057-NBZ-SS-0.0-0.5DUP | C254-08D | 7.01 | 1 | NA | NA | NA | 03/24/1212:21 | 03/24/1212:06 | 12PHC022S06 | PHC022S | PHC022S | 03/23/1209:20 | 03/23/12 |
| DUP-02-NBZ-QC-032312 | C254-09 | 6.87 | 1 | NA | NA | NA | 03/24/1212:24 | 03/24/1212:06 | 12PHC022S07 | PHC022S | PHC022S | 03/23/1209:28 | 03/23/12 |
| SL-047-NBZ-SB-4.0-5.0 | C254-11 | 6.18 | 1 | NA | NA | NA | 03/24/1212:27 | 03/24/1212:06 | 12PHC022S08 | PHC022S | PHC022S | 03/23/1215:20 | 03/23/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C254 DATE RECEIVED: 03/23/12
SAMPLE ID: SL-057-NBZ-SS-0.0-0.5DUP DATE EXTRACTED: 03/24/1212:06
CONTROL NO.: C254-08D DATE ANALYZED: 03/24/1212:21

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 6.98 | 7.01 | -0.03 | 0.10 |

# SAMPLE DELIVERY GROUP

# 12C261

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-045-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 20:38 |
| Lab Samp ID: C261-01 | Dilution Factor: 2 |
| Lab File ID: RDJ145 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 7.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 360 | 180 |
| 1,2-DICHLOROBENZENE | ND | 360 | 180 |
| 1,3-DICHLOROBENZENE | ND | 360 | 180 |
| 1,4-DICHLOROBENZENE | ND | 360 | 180 |
| 2,4,5-TRICHLOROPHENOL | ND | 360 | 180 |
| 2,4,6-TRICHLOROPHENOL | ND | 360 | 180 |
| 2,4-DICHLOROPHENOL | ND | 360 | 180 |
| 2,4-DIMETHYLPHENOL | ND | 360 | 180 |
| 2,4-DINITROPHENOL | ND | 720 | 360 |
| 2,4-DINITROTOLUENE | ND | 360 | 180 |
| 2,6-DINITROTOLUENE | ND | 360 | 180 |
| 2-CHLORONAPHTHALENE | ND | 360 | 180 |
| 2-CHLOROPHENOL | ND | 360 | 180 |
| 2-METHYLNAPHTHALENE | ND | 360 | 180 |
| 2-METHYLPHENOL | ND | 360 | 180 |
| 2-NITROANILINE | ND | 360 | 180 |
| 2-NITROPHENOL | ND | 360 | 180 |
| 3,3'-DICHLOROBENZIDINE | ND | 360 | 180 |
| 3-NITROANILINE | ND | 360 | 180 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 720 | 360 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 360 | 180 |
| 4-CHLORO-3-METHYLPHENOL | ND | 360 | 180 |
| 4-CHLOROANILINE | ND | 360 | 180 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 360 | 180 |
| 4-METHYLPHENOL (1) | ND | 360 | 180 |
| 4-NITROANILINE | ND | 360 | 180 |
| 4-NITROPHENOL | ND | 720 | 360 |
| ACENAPHTHENE | ND | 360 | 180 |
| ACENAPHTHYLENE | ND | 360 | 180 |
| ANTHRACENE | ND | 360 | 180 |
| BENZO(A)ANTHRACENE | ND | 360 | 180 |
| BENZO(A)PYRENE | ND | 360 | 180 |
| BENZO(B)FLUORANTHENE | ND | 360 | 180 |
| BENZO(K)FLUORANTHENE | ND | 360 | 180 |
| BENZO(G,H,I)PERYLENE | ND | 360 | 180 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 360 | 180 |
| BIS(2-CHLOROETHYL)ETHER | ND | 360 | 180 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 360 | 180 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 360 | 180 |
| BUTYLBENZYLPHTHALATE | ND | 360 | 180 |
| CHRYSENE | ND | 360 | 180 |
| DI-N-BUTYLPHTHALATE | ND | 360 | 180 |
| DI-N-OCTYLPHTHALATE | ND | 360 | 180 |
| DIBENZO(A,H)ANTHRACENE | ND | 360 | 180 |
| DIBENZOFURAN | ND | 360 | 180 |
| DIETHYLPHTHALATE | ND | 360 | 180 |
| DIMETHYLPHTHALATE | ND | 360 | 180 |
| FLUORANTHENE | ND | 360 | 180 |
| FLUORENE | ND | 360 | 180 |
| HEXACHLOROBENZENE | ND | 360 | 180 |
| HEXACHLOROBUTADIENE | ND | 360 | 180 |
| HEXACHLOROCYCLOPENTADIENE | ND | 360 | 180 |
| HEXACHLOROETHANE | ND | 360 | 180 |
| INDENO(1,2,3-CD)PYRENE | ND | 360 | 180 |
| ISOPHORONE | ND | 360 | 180 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 360 | 180 |
| N-NITROSODIPHENYLAMINE (2) | ND | 360 | 180 |
| NAPHTHALENE | ND | 360 | 180 |
| NITROBENZENE | ND | 360 | 180 |
| PENTACHLOROPHENOL | ND | 720 | 360 |
| PHENANTHRENE | ND | 360 | 180 |
| PHENOL | ND | 360 | 180 |
| PYRENE | ND | 360 | 180 |
| BENZYL ALCOHOL | ND | 360 | 180 |
| 1-METHYLNAPHTHALENE | ND | 360 | 180 |
| 1,2-DIPHENYLHYDRAZINE | ND | 360 | 180 |
| 3,5-DIMETHYLPHENOL | ND | 360 | 180 |
| ANILINE | ND | 720 | 360 |
| BENZIDINE | ND | 1800 | 910 |
| BENZOIC ACID | ND | 1400 | 720 |
| CARBAZOLE | ND | 360 | 180 |
| N-NITROSODIMETHYLAMINE | ND | 360 | 180 |
| TETRALIN | ND | 360 | 360 |
| 2-BUTOXYETHANOL | ND | 360 | 360 |
| 2-PHENOXYETHANOL | ND | 360 | 360 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 934 | 1083 | 86.2 | 35-130 |
| 2-FLUOROBIPHENYL | 254 | 361.1 | 70.4 | 45-130 |
| 2-FLUOROPHENOL | 769 | 1083 | 71.0 | 25-130 |
| NITROBENZENE-D5 | 270 | 361.1 | 74.8 | 40-130 |
| PHENOL-D5 | 803 | 1083 | 74.1 | 25-120 |
| TERPHENYL-D14 | 349 | 361.1 | 96.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-045-NBZ-SB-4.0-5.0 | Date Analyzed: 04/06/12 15:37 |
| Lab Samp ID: C261-03 | Dilution Factor: 1 |
| Lab File ID: RDJ129 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 4.9 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 88 |
| 1,2-DICHLOROBENZENE | ND | 180 | 88 |
| 1,3-DICHLOROBENZENE | ND | 180 | 88 |
| 1,4-DICHLOROBENZENE | ND | 180 | 88 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 88 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 88 |
| 2,4-DICHLOROPHENOL | ND | 180 | 88 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 88 |
| 2,4-DINITROPHENOL | ND | 350 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 88 |
| 2,6-DINITROTOLUENE | ND | 180 | 88 |
| 2-CHLORONAPHTHALENE | ND | 180 | 88 |
| 2-CHLOROPHENOL | ND | 180 | 88 |
| 2-METHYLNAPHTHALENE | ND | 180 | 88 |
| 2-METHYLPHENOL | ND | 180 | 88 |
| 2-NITROANILINE | ND | 180 | 88 |
| 2-NITROPHENOL | ND | 180 | 88 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 88 |
| 3-NITROANILINE | ND | 180 | 88 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 88 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 88 |
| 4-CHLOROANILINE | ND | 180 | 88 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 88 |
| 4-METHYLPHENOL (1) | ND | 180 | 88 |
| 4-NITROANILINE | ND | 180 | 88 |
| 4-NITROPHENOL | ND | 350 | 180 |
| ACENAPHTHENE | ND | 180 | 88 |
| ACENAPHTHYLENE | ND | 180 | 88 |
| ANTHRACENE | ND | 180 | 88 |
| BENZO(A)ANTHRACENE | ND | 180 | 88 |
| BENZO(A)PYRENE | ND | 180 | 88 |
| BENZO(B)FLUORANTHENE | ND | 180 | 88 |
| BENZO(K)FLUORANTHENE | ND | 180 | 88 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 88 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 88 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 88 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 88 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 88 |
| CHRYSENE | ND | 180 | 88 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 88 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 88 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 88 |
| DIBENZOFURAN | ND | 180 | 88 |
| DIETHYLPHTHALATE | ND | 180 | 88 |
| DIMETHYLPHTHALATE | ND | 180 | 88 |
| FLUORANTHENE | ND | 180 | 88 |
| FLUORENE | ND | 180 | 88 |
| HEXACHLOROBENZENE | ND | 180 | 88 |
| HEXACHLOROBUTADIENE | ND | 180 | 88 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 88 |
| HEXACHLOROETHANE | ND | 180 | 88 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 88 |
| ISOPHORONE | ND | 180 | 88 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 88 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 88 |
| NAPHTHALENE | ND | 180 | 88 |
| NITROBENZENE | ND | 180 | 88 |
| PENTACHLOROPHENOL | ND | 350 | 180 |
| PHENANTHRENE | ND | 180 | 88 |
| PHENOL | ND | 180 | 88 |
| PYRENE | ND | 180 | 88 |
| BENZYL ALCOHOL | ND | 180 | 88 |
| 1-METHYLNAPHTHALENE | ND | 180 | 88 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 88 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 88 |
| ANILINE | ND | 350 | 180 |
| BENZIDINE | ND | 870 | 440 |
| BENZOIC ACID | ND | 700 | 350 |
| CARBAZOLE | ND | 180 | 88 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 88 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 863 | 1052 | 82.1 | 35-130 |
| 2-FLUOROBIPHENYL | 239 | 350.5 | 68.2 | 45-130 |
| 2-FLUOROPHENOL | 753 | 1052 | 71.6 | 25-130 |
| NITROBENZENE-D5 | 258 | 350.5 | 73.6 | 40-130 |
| PHENOL-D5 | 775 | 1052 | 73.7 | 25-120 |
| TERPHENYL-D14 | 328 | 350.5 | 93.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-046-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 20:57 |
| Lab Samp ID: C261-04 | Dilution Factor: 2 |
| Lab File ID: RDJ146 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 15.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 390 | 200 |
| 1,2-DICHLOROBENZENE | ND | 390 | 200 |
| 1,3-DICHLOROBENZENE | ND | 390 | 200 |
| 1,4-DICHLOROBENZENE | ND | 390 | 200 |
| 2,4,5-TRICHLOROPHENOL | ND | 390 | 200 |
| 2,4,6-TRICHLOROPHENOL | ND | 390 | 200 |
| 2,4-DICHLOROPHENOL | ND | 390 | 200 |
| 2,4-DIMETHYLPHENOL | ND | 390 | 200 |
| 2,4-DINITROPHENOL | ND | 780 | 390 |
| 2,4-DINITROTOLUENE | ND | 390 | 200 |
| 2,6-DINITROTOLUENE | ND | 390 | 200 |
| 2-CHLORONAPHTHALENE | ND | 390 | 200 |
| 2-CHLOROPHENOL | ND | 390 | 200 |
| 2-METHYLNAPHTHALENE | ND | 390 | 200 |
| 2-METHYLPHENOL | ND | 390 | 200 |
| 2-NITROANILINE | ND | 390 | 200 |
| 2-NITROPHENOL | ND | 390 | 200 |
| 3,3'-DICHLOROBENZIDINE | ND | 390 | 200 |
| 3-NITROANILINE | ND | 390 | 200 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 780 | 390 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 390 | 200 |
| 4-CHLORO-3-METHYLPHENOL | ND | 390 | 200 |
| 4-CHLOROANILINE | ND | 390 | 200 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 390 | 200 |
| 4-METHYLPHENOL (1) | ND | 390 | 200 |
| 4-NITROANILINE | ND | 390 | 200 |
| 4-NITROPHENOL | ND | 780 | 390 |
| ACENAPHTHENE | ND | 390 | 200 |
| ACENAPHTHYLENE | ND | 390 | 200 |
| ANTHRACENE | ND | 390 | 200 |
| BENZO(A)ANTHRACENE | ND | 390 | 200 |
| BENZO(A)PYRENE | ND | 390 | 200 |
| BENZO(B)FLUORANTHENE | ND | 390 | 200 |
| BENZO(K)FLUORANTHENE | ND | 390 | 200 |
| BENZO(G,H,I)PERYLENE | ND | 390 | 200 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 390 | 200 |
| BIS(2-CHLOROETHYL)ETHER | ND | 390 | 200 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 390 | 200 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 390 | 200 |
| BUTYLBENZYLPHTHALATE | ND | 390 | 200 |
| CHRYSENE | ND | 390 | 200 |
| DI-N-BUTYLPHTHALATE | ND | 390 | 200 |
| DI-N-OCTYLPHTHALATE | ND | 390 | 200 |
| DIBENZO(A,H)ANTHRACENE | ND | 390 | 200 |
| DIBENZOFURAN | ND | 390 | 200 |
| DIETHYLPHTHALATE | ND | 390 | 200 |
| DIMETHYLPHTHALATE | ND | 390 | 200 |
| FLUORANTHENE | ND | 390 | 200 |
| FLUORENE | ND | 390 | 200 |
| HEXACHLOROBENZENE | ND | 390 | 200 |
| HEXACHLOROBUTADIENE | ND | 390 | 200 |
| HEXACHLOROCYCLOPENTADIENE | ND | 390 | 200 |
| HEXACHLOROETHANE | ND | 390 | 200 |
| INDENO(1,2,3-CD)PYRENE | ND | 390 | 200 |
| ISOPHORONE | ND | 390 | 200 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 390 | 200 |
| N-NITROSODIPHENYLAMINE (2) | ND | 390 | 200 |
| NAPHTHALENE | ND | 390 | 200 |
| NITROBENZENE | ND | 390 | 200 |
| PENTACHLOROPHENOL | ND | 780 | 390 |
| PHENANTHRENE | ND | 390 | 200 |
| PHENOL | ND | 390 | 200 |
| PYRENE | ND | 390 | 200 |
| BENZYL ALCOHOL | ND | 390 | 200 |
| 1-METHYLNAPHTHALENE | ND | 390 | 200 |
| 1,2-DIPHENYLHYDRAZINE | ND | 390 | 200 |
| 3,5-DIMETHYLPHENOL | ND | 390 | 200 |
| ANILINE | ND | 780 | 390 |
| BENZIDINE | ND | 2000 | 990 |
| BENZOIC ACID | ND | 1600 | 790 |
| CARBAZOLE | ND | 390 | 200 |
| N-NITROSODIMETHYLAMINE | ND | 390 | 200 |
| TETRALIN | ND | 390 | 390 |
| 2-BUTOXYETHANOL | ND | 390 | 390 |
| 2-PHENOXYETHANOL | ND | 390 | 390 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 941 | 1176 | 80.0 | 35-130 |
| 2-FLUOROBIPHENYL | 244 | 392.1 | 62.2 | 45-130 |
| 2-FLUOROPHENOL | 683 | 1176 | 58.0 | 25-130 |
| NITROBENZENE-D5 | 245 | 392.1 | 62.5 | 40-130 |
| PHENOL-D5 | 755 | 1176 | 64.2 | 25-120 |
| TERPHENYL-D14 | 337 | 392.1 | 86.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-046-NBZ-SB-4.0-5.0 | Date Analyzed: 04/06/12 15:55 |
| Lab Samp ID: C261-06 | Dilution Factor: 1 |
| Lab File ID: RDJ130 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 5.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 89 |
| 1,2-DICHLOROBENZENE | ND | 180 | 89 |
| 1,3-DICHLOROBENZENE | ND | 180 | 89 |
| 1,4-DICHLOROBENZENE | ND | 180 | 89 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 89 |
| 2,4-DINITROPHENOL | ND | 350 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 89 |
| 2,6-DINITROTOLUENE | ND | 180 | 89 |
| 2-CHLORONAPHTHALENE | ND | 180 | 89 |
| 2-CHLOROPHENOL | ND | 180 | 89 |
| 2-METHYLNAPHTHALENE | ND | 180 | 89 |
| 2-METHYLPHENOL | ND | 180 | 89 |
| 2-NITROANILINE | ND | 180 | 89 |
| 2-NITROPHENOL | ND | 180 | 89 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 89 |
| 3-NITROANILINE | ND | 180 | 89 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 89 |
| 4-CHLOROANILINE | ND | 180 | 89 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-METHYLPHENOL (1) | ND | 180 | 89 |
| 4-NITROANILINE | ND | 180 | 89 |
| 4-NITROPHENOL | ND | 350 | 180 |
| ACENAPHTHENE | ND | 180 | 89 |
| ACENAPHTHYLENE | ND | 180 | 89 |
| ANTHRACENE | ND | 180 | 89 |
| BENZO(A)ANTHRACENE | ND | 180 | 89 |
| BENZO(A)PYRENE | ND | 180 | 89 |
| BENZO(B)FLUORANTHENE | ND | 180 | 89 |
| BENZO(K)FLUORANTHENE | ND | 180 | 89 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 89 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 89 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 89 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 89 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 89 |
| CHRYSENE | ND | 180 | 89 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 89 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 89 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 89 |
| DIBENZOFURAN | ND | 180 | 89 |
| DIETHYLPHTHALATE | ND | 180 | 89 |
| DIMETHYLPHTHALATE | ND | 180 | 89 |
| FLUORANTHENE | ND | 180 | 89 |
| FLUORENE | ND | 180 | 89 |
| HEXACHLOROBENZENE | ND | 180 | 89 |
| HEXACHLOROBUTADIENE | ND | 180 | 89 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 89 |
| HEXACHLOROETHANE | ND | 180 | 89 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 89 |
| ISOPHORONE | ND | 180 | 89 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 89 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 89 |
| NAPHTHALENE | ND | 180 | 89 |
| NITROBENZENE | ND | 180 | 89 |
| PENTACHLOROPHENOL | ND | 350 | 180 |
| PHENANTHRENE | ND | 180 | 89 |
| PHENOL | ND | 180 | 89 |
| PYRENE | ND | 180 | 89 |
| BENZYL ALCOHOL | ND | 180 | 89 |
| 1-METHYLNAPHTHALENE | ND | 180 | 89 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 89 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 89 |
| ANILINE | ND | 350 | 180 |
| BENZIDINE | ND | 880 | 440 |
| BENZOIC ACID | ND | 710 | 350 |
| CARBAZOLE | ND | 180 | 89 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 89 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 534 | 1057 | 50.5 | 35-130 |
| 2-FLUOROBIPHENYL | 129 | 352.3 | 36.5* | 45-130 |
| 2-FLUOROPHENOL | 405 | 1057 | 38.3 | 25-130 |
| NITROBENZENE-D5 | 142 | 352.3 | 40.4 | 40-130 |
| PHENOL-D5 | 424 | 1057 | 40.1 | 25-120 |
| TERPHENYL-D14 | 315 | 352.3 | 89.4 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-042-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 21:15 |
| Lab Samp ID: C261-07 | Dilution Factor: 2 |
| Lab File ID: RDJ147 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 14.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 390 | 200 |
| 1,2-DICHLOROBENZENE | ND | 390 | 200 |
| 1,3-DICHLOROBENZENE | ND | 390 | 200 |
| 1,4-DICHLOROBENZENE | ND | 390 | 200 |
| 2,4,5-TRICHLOROPHENOL | ND | 390 | 200 |
| 2,4,6-TRICHLOROPHENOL | ND | 390 | 200 |
| 2,4-DICHLOROPHENOL | ND | 390 | 200 |
| 2,4-DIMETHYLPHENOL | ND | 390 | 200 |
| 2,4-DINITROPHENOL | ND | 780 | 390 |
| 2,4-DINITROTOLUENE | ND | 390 | 200 |
| 2,6-DINITROTOLUENE | ND | 390 | 200 |
| 2-CHLORONAPHTHALENE | ND | 390 | 200 |
| 2-CHLOROPHENOL | ND | 390 | 200 |
| 2-METHYLNAPHTHALENE | ND | 390 | 200 |
| 2-METHYLPHENOL | ND | 390 | 200 |
| 2-NITROANILINE | ND | 390 | 200 |
| 2-NITROPHENOL | ND | 390 | 200 |
| 3,3'-DICHLOROBENZIDINE | ND | 390 | 200 |
| 3-NITROANILINE | ND | 390 | 200 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 780 | 390 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 390 | 200 |
| 4-CHLORO-3-METHYLPHENOL | ND | 390 | 200 |
| 4-CHLOROANILINE | ND | 390 | 200 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 390 | 200 |
| 4-METHYLPHENOL (1) | ND | 390 | 200 |
| 4-NITROANILINE | ND | 390 | 200 |
| 4-NITROPHENOL | ND | 780 | 390 |
| ACENAPHTHENE | ND | 390 | 200 |
| ACENAPHTHYLENE | ND | 390 | 200 |
| ANTHRACENE | ND | 390 | 200 |
| BENZO(A)ANTHRACENE | ND | 390 | 200 |
| BENZO(A)PYRENE | ND | 390 | 200 |
| BENZO(B)FLUORANTHENE | ND | 390 | 200 |
| BENZO(K)FLUORANTHENE | ND | 390 | 200 |
| BENZO(G,H,I)PERYLENE | ND | 390 | 200 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 390 | 200 |
| BIS(2-CHLOROETHYL)ETHER | ND | 390 | 200 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 390 | 200 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 390 | 200 |
| BUTYLBENZYLPHTHALATE | ND | 390 | 200 |
| CHRYSENE | ND | 390 | 200 |
| DI-N-BUTYLPHTHALATE | ND | 390 | 200 |
| DI-N-OCTYLPHTHALATE | ND | 390 | 200 |
| DIBENZO(A,H)ANTHRACENE | ND | 390 | 200 |
| DIBENZOFURAN | ND | 390 | 200 |
| DIETHYLPHTHALATE | ND | 390 | 200 |
| DIMETHYLPHTHALATE | ND | 390 | 200 |
| FLUORANTHENE | ND | 390 | 200 |
| FLUORENE | ND | 390 | 200 |
| HEXACHLOROBENZENE | ND | 390 | 200 |
| HEXACHLOROBUTADIENE | ND | 390 | 200 |
| HEXACHLOROCYCLOPENTADIENE | ND | 390 | 200 |
| HEXACHLOROETHANE | ND | 390 | 200 |
| INDENO(1,2,3-CD)PYRENE | ND | 390 | 200 |
| ISOPHORONE | ND | 390 | 200 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 390 | 200 |
| N-NITROSODIPHENYLAMINE (2) | ND | 390 | 200 |
| NAPHTHALENE | ND | 390 | 200 |
| NITROBENZENE | ND | 390 | 200 |
| PENTACHLOROPHENOL | ND | 780 | 390 |
| PHENANTHRENE | ND | 390 | 200 |
| PHENOL | ND | 390 | 200 |
| PYRENE | ND | 390 | 200 |
| BENZYL ALCOHOL | ND | 390 | 200 |
| 1-METHYLNAPHTHALENE | ND | 390 | 200 |
| 1,2-DIPHENYLHYDRAZINE | ND | 390 | 200 |
| 3,5-DIMETHYLPHENOL | ND | 390 | 200 |
| ANILINE | ND | 780 | 390 |
| BENZIDINE | ND | 1900 | 980 |
| BENZOIC ACID | ND | 1600 | 780 |
| CARBAZOLE | ND | 390 | 200 |
| N-NITROSODIMETHYLAMINE | ND | 390 | 200 |
| TETRALIN | ND | 390 | 390 |
| 2-BUTOXYETHANOL | ND | 390 | 390 |
| 2-PHENOXYETHANOL | ND | 390 | 390 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1080 | 1164 | 92.9 | 35-130 |
| 2-FLUOROBIPHENYL | 296 | 388.0 | 76.2 | 45-130 |
| 2-FLUOROPHENOL | 938 | 1164 | 80.6 | 25-130 |
| NITROBENZENE-D5 | 325 | 388.0 | 83.7 | 40-130 |
| PHENOL-D5 | 961 | 1164 | 82.5 | 25-120 |
| TERPHENYL-D14 | 395 | 388.0 | 102 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-043-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 16:14 |
| Lab Samp ID: C261-08 | Dilution Factor: 1 |
| Lab File ID: RDJ131 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 10.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 740 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 981 | 1115 | 88.0 | 35-130 |
| 2-FLUOROBIPHENYL | 269 | 371.6 | 72.3 | 45-130 |
| 2-FLUOROPHENOL | 794 | 1115 | 71.2 | 25-130 |
| NITROBENZENE-D5 | 279 | 371.6 | 75.2 | 40-130 |
| PHENOL-D5 | 848 | 1115 | 76.0 | 25-120 |
| TERPHENYL-D14 | 339 | 371.6 | 91.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-050-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 16:33 |
| Lab Samp ID: C261-09 | Dilution Factor: 1 |
| Lab File ID: RDJ132 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 8.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 360 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 834 | 1092 | 76.4 | 35-130 |
| 2-FLUOROBIPHENYL | 227 | 363.9 | 62.4 | 45-130 |
| 2-FLUOROPHENOL | 676 | 1092 | 61.9 | 25-130 |
| NITROBENZENE-D5 | 234 | 363.9 | 64.4 | 40-130 |
| PHENOL-D5 | 744 | 1092 | 68.1 | 25-120 |
| TERPHENYL-D14 | 328 | 363.9 | 90.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-123-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 16:52 |
| Lab Samp ID: C261-11 | Dilution Factor: 1 |
| Lab File ID: RDJ133 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 15.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 99 |
| 1,2-DICHLOROBENZENE | ND | 200 | 99 |
| 1,3-DICHLOROBENZENE | ND | 200 | 99 |
| 1,4-DICHLOROBENZENE | ND | 200 | 99 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 99 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 99 |
| 2,4-DICHLOROPHENOL | ND | 200 | 99 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 99 |
| 2,4-DINITROPHENOL | ND | 390 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 99 |
| 2,6-DINITROTOLUENE | ND | 200 | 99 |
| 2-CHLORONAPHTHALENE | ND | 200 | 99 |
| 2-CHLOROPHENOL | ND | 200 | 99 |
| 2-METHYLNAPHTHALENE | ND | 200 | 99 |
| 2-METHYLPHENOL | ND | 200 | 99 |
| 2-NITROANILINE | ND | 200 | 99 |
| 2-NITROPHENOL | ND | 200 | 99 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 99 |
| 3-NITROANILINE | ND | 200 | 99 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 99 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 99 |
| 4-CHLOROANILINE | ND | 200 | 99 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 99 |
| 4-METHYLPHENOL (1) | ND | 200 | 99 |
| 4-NITROANILINE | ND | 200 | 99 |
| 4-NITROPHENOL | ND | 390 | 200 |
| ACENAPHTHENE | ND | 200 | 99 |
| ACENAPHTHYLENE | ND | 200 | 99 |
| ANTHRACENE | ND | 200 | 99 |
| BENZO(A)ANTHRACENE | ND | 200 | 99 |
| BENZO(A)PYRENE | ND | 200 | 99 |
| BENZO(B)FLUORANTHENE | ND | 200 | 99 |
| BENZO(K)FLUORANTHENE | ND | 200 | 99 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 99 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 99 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 99 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 99 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 99 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 99 |
| CHRYSENE | ND | 200 | 99 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 99 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 99 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 99 |
| DIBENZOFURAN | ND | 200 | 99 |
| DIETHYLPHTHALATE | ND | 200 | 99 |
| DIMETHYLPHTHALATE | ND | 200 | 99 |
| FLUORANTHENE | ND | 200 | 99 |
| FLUORENE | ND | 200 | 99 |
| HEXACHLOROBENZENE | ND | 200 | 99 |
| HEXACHLOROBUTADIENE | ND | 200 | 99 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 99 |
| HEXACHLOROETHANE | ND | 200 | 99 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 99 |
| ISOPHORONE | ND | 200 | 99 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 99 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 99 |
| NAPHTHALENE | ND | 200 | 99 |
| NITROBENZENE | ND | 200 | 99 |
| PENTACHLOROPHENOL | ND | 390 | 200 |
| PHENANTHRENE | ND | 200 | 99 |
| PHENOL | ND | 200 | 99 |
| PYRENE | ND | 200 | 99 |
| BENZYL ALCOHOL | ND | 200 | 99 |
| 1-METHYLNAPHTHALENE | ND | 200 | 99 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 99 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 99 |
| ANILINE | ND | 390 | 200 |
| BENZIDINE | ND | 980 | 490 |
| BENZOIC ACID | ND | 790 | 390 |
| CARBAZOLE | ND | 200 | 99 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 99 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 908 | 1178 | 77.1 | 35-130 |
| 2-FLUOROBIPHENYL | 236 | 392.6 | 60.0 | 45-130 |
| 2-FLUOROPHENOL | 713 | 1178 | 60.5 | 25-130 |
| NITROBENZENE-D5 | 256 | 392.6 | 65.1 | 40-130 |
| PHENOL-D5 | 768 | 1178 | 65.2 | 25-120 |
| TERPHENYL-D14 | 321 | 392.6 | 81.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-124-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 17:11 |
| Lab Samp ID: C261-12 | Dilution Factor: 1 |
| Lab File ID: RDJ134 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 25.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 220 | 110 |
| 1,2-DICHLOROBENZENE | ND | 220 | 110 |
| 1,3-DICHLOROBENZENE | ND | 220 | 110 |
| 1,4-DICHLOROBENZENE | ND | 220 | 110 |
| 2,4,5-TRICHLOROPHENOL | ND | 220 | 110 |
| 2,4,6-TRICHLOROPHENOL | ND | 220 | 110 |
| 2,4-DICHLOROPHENOL | ND | 220 | 110 |
| 2,4-DIMETHYLPHENOL | ND | 220 | 110 |
| 2,4-DINITROPHENOL | ND | 450 | 220 |
| 2,4-DINITROTOLUENE | ND | 220 | 110 |
| 2,6-DINITROTOLUENE | ND | 220 | 110 |
| 2-CHLORONAPHTHALENE | ND | 220 | 110 |
| 2-CHLOROPHENOL | ND | 220 | 110 |
| 2-METHYLNAPHTHALENE | ND | 220 | 110 |
| 2-METHYLPHENOL | ND | 220 | 110 |
| 2-NITROANILINE | ND | 220 | 110 |
| 2-NITROPHENOL | ND | 220 | 110 |
| 3,3'-DICHLOROBENZIDINE | ND | 220 | 110 |
| 3-NITROANILINE | ND | 220 | 110 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 450 | 220 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 220 | 110 |
| 4-CHLORO-3-METHYLPHENOL | ND | 220 | 110 |
| 4-CHLOROANILINE | ND | 220 | 110 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 220 | 110 |
| 4-METHYLPHENOL (1) | ND | 220 | 110 |
| 4-NITROANILINE | ND | 220 | 110 |
| 4-NITROPHENOL | ND | 450 | 220 |
| ACENAPHTHENE | ND | 220 | 110 |
| ACENAPHTHYLENE | ND | 220 | 110 |
| ANTHRACENE | ND | 220 | 110 |
| BENZO(A)ANTHRACENE | ND | 220 | 110 |
| BENZO(A)PYRENE | ND | 220 | 110 |
| BENZO(B)FLUORANTHENE | ND | 220 | 110 |
| BENZO(K)FLUORANTHENE | ND | 220 | 110 |
| BENZO(G,H,I)PERYLENE | ND | 220 | 110 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 220 | 110 |
| BIS(2-CHLOROETHYL)ETHER | ND | 220 | 110 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 220 | 110 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 220 | 110 |
| BUTYLBENZYLPHTHALATE | ND | 220 | 110 |
| CHRYSENE | ND | 220 | 110 |
| DI-N-BUTYLPHTHALATE | ND | 220 | 110 |
| DI-N-OCTYLPHTHALATE | ND | 220 | 110 |
| DIBENZO(A,H)ANTHRACENE | ND | 220 | 110 |
| DIBENZOFURAN | ND | 220 | 110 |
| DIETHYLPHTHALATE | ND | 220 | 110 |
| DIMETHYLPHTHALATE | ND | 220 | 110 |
| FLUORANTHENE | ND | 220 | 110 |
| FLUORENE | ND | 220 | 110 |
| HEXACHLOROBENZENE | ND | 220 | 110 |
| HEXACHLOROBUTADIENE | ND | 220 | 110 |
| HEXACHLOROCYCLOPENTADIENE | ND | 220 | 110 |
| HEXACHLOROETHANE | ND | 220 | 110 |
| INDENO(1,2,3-CD)PYRENE | ND | 220 | 110 |
| ISOPHORONE | ND | 220 | 110 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 220 | 110 |
| N-NITROSODIPHENYLAMINE (2) | ND | 220 | 110 |
| NAPHTHALENE | ND | 220 | 110 |
| NITROBENZENE | ND | 220 | 110 |
| PENTACHLOROPHENOL | ND | 450 | 220 |
| PHENANTHRENE | ND | 220 | 110 |
| PHENOL | ND | 220 | 110 |
| PYRENE | ND | 220 | 110 |
| BENZYL ALCOHOL | ND | 220 | 110 |
| 1-METHYLNAPHTHALENE | ND | 220 | 110 |
| 1,2-DIPHENYLHYDRAZINE | ND | 220 | 110 |
| 3,5-DIMETHYLPHENOL | ND | 220 | 110 |
| ANILINE | ND | 450 | 220 |
| BENZIDINE | ND | 1100 | 560 |
| BENZOIC ACID | ND | 900 | 450 |
| CARBAZOLE | ND | 220 | 110 |
| N-NITROSODIMETHYLAMINE | ND | 220 | 110 |
| TETRALIN | ND | 220 | 220 |
| 2-BUTOXYETHANOL | ND | 220 | 220 |
| 2-PHENOXYETHANOL | ND | 220 | 220 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1110 | 1344 | 82.4 | 35-130 |
| 2-FLUOROBIPHENYL | 263 | 448.0 | 58.6 | 45-130 |
| 2-FLUOROPHENOL | 774 | 1344 | 57.6 | 25-130 |
| NITROBENZENE-D5 | 266 | 448.0 | 59.5 | 40-130 |
| PHENOL-D5 | 857 | 1344 | 63.8 | 25-120 |
| TERPHENYL-D14 | 390 | 448.0 | 87.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-126-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 17:29 |
| Lab Samp ID: C261-13 | Dilution Factor: 1 |
| Lab File ID: RDJ135 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 16.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 400 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 400 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 400 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 400 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 400 | 200 |
| BENZIDINE | ND | 1000 | 500 |
| BENZOIC ACID | ND | 800 | 400 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 880 | 1199 | 73.4 | 35-130 |
| 2-FLUOROBIPHENYL | 230 | 399.6 | 57.6 | 45-130 |
| 2-FLUOROPHENOL | 649 | 1199 | 54.1 | 25-130 |
| NITROBENZENE-D5 | 227 | 399.6 | 56.8 | 40-130 |
| PHENOL-D5 | 746 | 1199 | 62.2 | 25-120 |
| TERPHENYL-D14 | 340 | 399.6 | 85.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-133-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 17:48 |
| Lab Samp ID: C261-14 | Dilution Factor: 1 |
| Lab File ID: RDJ136 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 13.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 97 |
| 1,2-DICHLOROBENZENE | ND | 190 | 97 |
| 1,3-DICHLOROBENZENE | ND | 190 | 97 |
| 1,4-DICHLOROBENZENE | ND | 190 | 97 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 97 |
| 2,4-DINITROPHENOL | ND | 390 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 97 |
| 2,6-DINITROTOLUENE | ND | 190 | 97 |
| 2-CHLORONAPHTHALENE | ND | 190 | 97 |
| 2-CHLOROPHENOL | ND | 190 | 97 |
| 2-METHYLNAPHTHALENE | ND | 190 | 97 |
| 2-METHYLPHENOL | ND | 190 | 97 |
| 2-NITROANILINE | ND | 190 | 97 |
| 2-NITROPHENOL | ND | 190 | 97 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 97 |
| 3-NITROANILINE | ND | 190 | 97 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 97 |
| 4-CHLOROANILINE | ND | 190 | 97 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-METHYLPHENOL (1) | ND | 190 | 97 |
| 4-NITROANILINE | ND | 190 | 97 |
| 4-NITROPHENOL | ND | 390 | 190 |
| ACENAPHTHENE | ND | 190 | 97 |
| ACENAPHTHYLENE | ND | 190 | 97 |
| ANTHRACENE | ND | 190 | 97 |
| BENZO(A)ANTHRACENE | ND | 190 | 97 |
| BENZO(A)PYRENE | ND | 190 | 97 |
| BENZO(B)FLUORANTHENE | ND | 190 | 97 |
| BENZO(K)FLUORANTHENE | ND | 190 | 97 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 97 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 97 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 97 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 97 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 97 |
| CHRYSENE | ND | 190 | 97 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 97 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 97 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 97 |
| DIBENZOFURAN | ND | 190 | 97 |
| DIETHYLPHTHALATE | ND | 190 | 97 |
| DIMETHYLPHTHALATE | ND | 190 | 97 |
| FLUORANTHENE | ND | 190 | 97 |
| FLUORENE | ND | 190 | 97 |
| HEXACHLOROBENZENE | ND | 190 | 97 |
| HEXACHLOROBUTADIENE | ND | 190 | 97 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 97 |
| HEXACHLOROETHANE | ND | 190 | 97 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 97 |
| ISOPHORONE | ND | 190 | 97 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 97 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 97 |
| NAPHTHALENE | ND | 190 | 97 |
| NITROBENZENE | ND | 190 | 97 |
| PENTACHLOROPHENOL | ND | 390 | 190 |
| PHENANTHRENE | ND | 190 | 97 |
| PHENOL | ND | 190 | 97 |
| PYRENE | ND | 190 | 97 |
| BENZYL ALCOHOL | ND | 190 | 97 |
| 1-METHYLNAPHTHALENE | ND | 190 | 97 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 97 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 97 |
| ANILINE | ND | 390 | 190 |
| BENZIDINE | ND | 960 | 490 |
| BENZOIC ACID | ND | 770 | 390 |
| CARBAZOLE | ND | 190 | 97 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 97 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 957 | 1157 | 82.7 | 35-130 |
| 2-FLUOROBIPHENYL | 240 | 385.8 | 62.3 | 45-130 |
| 2-FLUOROPHENOL | 617 | 1157 | 53.3 | 25-130 |
| NITROBENZENE-D5 | 231 | 385.8 | 59.9 | 40-130 |
| PHENOL-D5 | 736 | 1157 | 63.6 | 25-120 |
| TERPHENYL-D14 | 334 | 385.8 | 86.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-195-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 18:07 |
| Lab Samp ID: C261-15 | Dilution Factor: 1 |
| Lab File ID: RDJ137 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 11.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 95 |
| 1,2-DICHLOROBENZENE | ND | 190 | 95 |
| 1,3-DICHLOROBENZENE | ND | 190 | 95 |
| 1,4-DICHLOROBENZENE | ND | 190 | 95 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 95 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 95 |
| 2,6-DINITROTOLUENE | ND | 190 | 95 |
| 2-CHLORONAPHTHALENE | ND | 190 | 95 |
| 2-CHLOROPHENOL | ND | 190 | 95 |
| 2-METHYLNAPHTHALENE | ND | 190 | 95 |
| 2-METHYLPHENOL | ND | 190 | 95 |
| 2-NITROANILINE | ND | 190 | 95 |
| 2-NITROPHENOL | ND | 190 | 95 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 95 |
| 3-NITROANILINE | ND | 190 | 95 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 95 |
| 4-CHLOROANILINE | ND | 190 | 95 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-METHYLPHENOL (1) | ND | 190 | 95 |
| 4-NITROANILINE | ND | 190 | 95 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 95 |
| ACENAPHTHYLENE | ND | 190 | 95 |
| ANTHRACENE | ND | 190 | 95 |
| BENZO(A)ANTHRACENE | ND | 190 | 95 |
| BENZO(A)PYRENE | ND | 190 | 95 |
| BENZO(B)FLUORANTHENE | ND | 190 | 95 |
| BENZO(K)FLUORANTHENE | ND | 190 | 95 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 95 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 95 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 95 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 95 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 95 |
| CHRYSENE | ND | 190 | 95 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 95 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 95 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 95 |
| DIBENZOFURAN | ND | 190 | 95 |
| DIETHYLPHTHALATE | ND | 190 | 95 |
| DIMETHYLPHTHALATE | ND | 190 | 95 |
| FLUORANTHENE | ND | 190 | 95 |
| FLUORENE | ND | 190 | 95 |
| HEXACHLOROBENZENE | ND | 190 | 95 |
| HEXACHLOROBUTADIENE | ND | 190 | 95 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 95 |
| HEXACHLOROETHANE | ND | 190 | 95 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 95 |
| ISOPHORONE | ND | 190 | 95 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 95 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 95 |
| NAPHTHALENE | ND | 190 | 95 |
| NITROBENZENE | ND | 190 | 95 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 95 |
| PHENOL | ND | 190 | 95 |
| PYRENE | ND | 190 | 95 |
| BENZYL ALCOHOL | ND | 190 | 95 |
| 1-METHYLNAPHTHALENE | ND | 190 | 95 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 95 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 95 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 940 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 95 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 95 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 938 | 1133 | 82.8 | 35-130 |
| 2-FLUOROBIPHENYL | 230 | 377.5 | 60.9 | 45-130 |
| 2-FLUOROPHENOL | 648 | 1133 | 57.3 | 25-130 |
| NITROBENZENE-D5 | 226 | 377.5 | 59.8 | 40-130 |
| PHENOL-D5 | 731 | 1133 | 64.6 | 25-120 |
| TERPHENYL-D14 | 340 | 377.5 | 90.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-196-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 18:26 |
| Lab Samp ID: C261-16 | Dilution Factor: 1 |
| Lab File ID: RDJ138 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 17.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 400 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 400 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 400 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 400 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 400 | 200 |
| BENZIDINE | ND | 1000 | 510 |
| BENZOIC ACID | ND | 810 | 410 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 814 | 1214 | 67.1 | 35-130 |
| 2-FLUOROBIPHENYL | 183 | 404.5 | 45.3 | 45-130 |
| 2-FLUOROPHENOL | 506 | 1214 | 41.7 | 25-130 |
| NITROBENZENE-D5 | 169 | 404.5 | 41.9 | 40-130 |
| PHENOL-D5 | 604 | 1214 | 49.8 | 25-120 |
| TERPHENYL-D14 | 314 | 404.5 | 77.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: MBLK1S | Date Analyzed: 04/06/12 12:10 |
| Lab Samp ID: SVD011SB | Dilution Factor: 1 |
| Lab File ID: RDJ118 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 701 | 1000 | 70.1 | 35-130 |
| 2-FLUOROBIPHENYL | 214 | 333.3 | 64.1 | 45-130 |
| 2-FLUOROPHENOL | 696 | 1000 | 69.6 | 25-130 |
| NITROBENZENE-D5 | 230 | 333.3 | 69.1 | 40-130 |
| PHENOL-D5 | 686 | 1000 | 68.6 | 25-120 |
| TERPHENYL-D14 | 310 | 333.3 | 93.1 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVD011SB SVD011SL SVD011SC
LAB FILE ID: RDJ118 RDJ119 RDJ120
DATE EXTRACTED: 04/05/1212:47 04/05/1212:47 04/05/1212:47 DATE COLLECTED: NA
DATE ANALYZED: 04/06/1212:10 04/06/1212:29 04/06/1212:48 DATE RECEIVED: 04/05/12
PREP. BATCH: SVD011S SVD011S SVD011S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 424 | 64 | 667 | 423 | 63 | 0 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 398 | 60 | 667 | 410 | 61 | 3 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 401 | 60 | 667 | 409 | 61 | 2 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 404 | 61 | 667 | 413 | 62 | 2 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 469 | 70 | 667 | 494 | 74 | 5 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 531 | 80 | 667 | 546 | 82 | 3 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 489 | 73 | 667 | 494 | 74 | 1 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 489 | 73 | 667 | 495 | 74 | 1 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 492 | 74 | 667 | 542 | 81 | 10 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 580 | 87 | 667 | 621 | 93 | 7 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 540 | 81 | 667 | 570 | 85 | 5 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 464 | 70 | 667 | 478 | 72 | 3 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 464 | 70 | 667 | 460 | 69 | 1 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 545 | 82 | 667 | 636 | 95 | 15 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 417 | 63 | 667 | 428 | 64 | 2 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 565 | 85 | 667 | 590 | 89 | 4 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 469 | 70 | 667 | 484 | 73 | 3 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 521 | 78 | 667 | 525 | 79 | 1 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 521 | 78 | 667 | 530 | 80 | 2 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 485 | 73 | 667 | 520 | 78 | 7 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 522 | 78 | 667 | 538 | 81 | 3 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 499 | 75 | 667 | 510 | 77 | 2 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 411 | 62 | 667 | 398 | 60 | 3 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 554 | 83 | 667 | 564 | 85 | 2 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 438 | 66 | 667 | 453 | 68 | 3 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 544 | 82 | 667 | 560 | 84 | 3 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 589 | 88 | 667 | 589 | 88 | 0 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 512 | 77 | 667 | 530 | 80 | 3 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 552 | 83 | 667 | 568 | 85 | 3 | 30-130 | 50 |
| Anthracene | ND | 667 | 544 | 82 | 667 | 562 | 84 | 3 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 606 | 91 | 667 | 643 | 96 | 6 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 593 | 89 | 667 | 623 | 93 | 5 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 638 | 96 | 667 | 668 | 100 | 5 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 629 | 94 | 667 | 671 | 101 | 6 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 673 | 101 | 667 | 715 | 107 | 6 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 564 | 85 | 667 | 566 | 85 | 0 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 526 | 79 | 667 | 540 | 81 | 3 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 555 | 83 | 667 | 566 | 85 | 2 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 622 | 93 | 667 | 651 | 98 | 5 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 634 | 95 | 667 | 671 | 101 | 6 | 40-150 | 50 |
| Chrysene | ND | 667 | 621 | 93 | 667 | 655 | 98 | 5 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 595 | 89 | 667 | 624 | 94 | 5 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 685 | 103 | 667 | 729 | 109 | 6 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 677 | 102 | 667 | 718 | 108 | 6 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 499 | 75 | 667 | 513 | 77 | 3 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 567 | 85 | 667 | 592 | 89 | 4 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 528 | 79 | 667 | 542 | 81 | 2 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 682 | 102 | 667 | 705 | 106 | 3 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 567 | 85 | 667 | 576 | 86 | 2 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 527 | 79 | 667 | 543 | 81 | 3 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 450 | 68 | 667 | 463 | 69 | 3 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 368 | 55 | 667 | 388 | 58 | 5 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 493 | 74 | 667 | 444 | 67 | 10 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 678 | 102 | 667 | 710 | 107 | 5 | 30-140 | 50 |
| Isophorone | ND | 667 | 550 | 82 | 667 | 555 | 83 | 1 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 428 | 64 | 667 | 452 | 68 | 5 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 458 | 69 | 667 | 406 | 61 | 12 | 30-140 | 50 |
| Naphthalene | ND | 667 | 506 | 76 | 667 | 510 | 76 | 1 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 527 | 79 | 667 | 535 | 80 | 2 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 523 | 78 | 667 | 554 | 83 | 6 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 570 | 85 | 667 | 585 | 88 | 3 | 30-130 | 50 |
| Phenol | ND | 667 | 473 | 71 | 667 | 472 | 71 | 0 | 30-130 | 50 |
| Pyrene | ND | 667 | 598 | 90 | 667 | 636 | 95 | 6 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 415 | 62 | 667 | 427 | 64 | 3 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 543 | 81 | 667 | 553 | 83 | 2 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 514 | 77 | 667 | 526 | 79 | 2 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 437 | 65 | 667 | 440 | 66 | 1 | 20-150 | 50 |
| Aniline | ND | 667 | 353 | 53 | 667 | 354 | 53 | 0 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1430 | 54 | 2670 | 1260 | 47 | 13 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 1280 | 48 | 2670 | 1330 | 50 | 4 | 10-130 | 50 |
| Carbazole | ND | 667 | 543 | 81 | 667 | 563 | 85 | 4 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 530 | 79 | 667 | 520 | 78 | 2 | 30-150 | 50 |

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| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 806 | 81 | 1000 | 764 | 76 | 35-130 |
| 2-Fluorobiphenyl | 333 | 212 | 64 | 333 | 192 | 58 | 45-130 |
| 2-Fluorophenol | 1000 | 697 | 70 | 1000 | 614 | 61 | 25-130 |
| Nitrobenzene-d5 | 333 | 240 | 72 | 333 | 224 | 67 | 40-130 |
| Phenol-d5 | 1000 | 705 | 70 | 1000 | 632 | 63 | 25-120 |
| Terphenyl-d14 | 333 | 303 | 91 | 333 | 296 | 89 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-045-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 20:38 |
| Lab Samp ID: C261-01 | Dilution Factor: 2 |
| Lab File ID: RDJ145 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 7.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 3.7 | 1.8 |
| ACENAPHTHYLENE | ND | 3.7 | 1.8 |
| ANTHRACENE | ND | 3.7 | 1.8 |
| BENZO(A)ANTHRACENE | ND | 3.7 | 1.8 |
| BENZO(A)PYRENE | ND | 3.7 | 1.8 |
| BENZO(B)FLUORANTHENE | ND | 3.7 | 1.8 |
| BENZO(K)FLUORANTHENE | ND | 3.7 | 1.8 |
| BENZO(G,H,I)PERYLENE | 18 | 3.7 | 1.8 |
| CHRYSENE | ND | 3.7 | 1.8 |
| DIBENZO(A,H)ANTHRACENE | ND | 3.7 | 1.8 |
| FLUORANTHENE | ND | 3.7 | 1.8 |
| FLUORENE | ND | 3.7 | 1.8 |
| INDENO(1,2,3-CD)PYRENE | ND | 3.7 | 1.8 |
| NAPHTHALENE | ND | 3.7 | 1.8 |
| PHENANTHRENE | ND | 3.7 | 1.8 |
| PYRENE | ND | 3.7 | 1.8 |
| 2-METHYLNAPHTHALENE | ND | 3.7 | 1.8 |
| 1-METHYLNAPHTHALENE | ND | 3.7 | 1.8 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 36 | 18 |
| BUTYLBENZYLPHTHALATE | 67 | 36 | 18 |
| DI-N-BUTYLPHTHALATE | ND | 36 | 18 |
| DI-N-OCTYLPHTHALATE | ND | 36 | 18 |
| DIETHYLPHTHALATE | ND | 36 | 18 |
| DIMETHYLPHTHALATE | ND | 36 | 18 |
| N-NITROSODIMETHYLAMINE | ND | 3.7 | 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 284 | 361.1 | 78.5 | 40-130 |
| 2-FLUOROBIPHENYL | 263 | 361.1 | 72.8 | 45-130 |
| TERPHENYL-D14 | 312 | 361.1 | 86.4 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-045-NBZ-SB-4.0-5.0 | Date Analyzed: 04/06/12 15:37 |
| Lab Samp ID: C261-03 | Dilution Factor: 1 |
| Lab File ID: RDJ129 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 4.9 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.89 |
| ACENAPHTHYLENE | ND | 1.8 | 0.89 |
| ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)ANTHRACENE | 1.3J | 1.8 | 0.89 |
| BENZO(A)PYRENE | 2.1 | 1.8 | 0.89 |
| BENZO(B)FLUORANTHENE | 2.3 | 1.8 | 0.89 |
| BENZO(K)FLUORANTHENE | 2.3 | 1.8 | 0.89 |
| BENZO(G,H,I)PERYLENE | 2.0 | 1.8 | 0.89 |
| CHRYSENE | 1.7J | 1.8 | 0.89 |
| DIBENZO(A,H)ANTHRACENE | 1.6J | 1.8 | 0.89 |
| FLUORANTHENE | 1.5J | 1.8 | 0.89 |
| FLUORENE | ND | 1.8 | 0.89 |
| INDENO(1,2,3-CD)PYRENE | 1.7J | 1.8 | 0.89 |
| NAPHTHALENE | ND | 1.8 | 0.89 |
| PHENANTHRENE | ND | 1.8 | 0.89 |
| PYRENE | 1.4J | 1.8 | 0.89 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 8.8 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 8.8 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 8.8 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 8.8 |
| DIETHYLPHTHALATE | ND | 18 | 8.8 |
| DIMETHYLPHTHALATE | ND | 18 | 8.8 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.89 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 283 | 350.5 | 80.8 | 40-130 |
| 2-FLUOROBIPHENYL | 263 | 350.5 | 75.1 | 45-130 |
| TERPHENYL-D14 | 317 | 350.5 | 90.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-046-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 20:57 |
| Lab Samp ID: C261-04 | Dilution Factor: 2 |
| Lab File ID: RDJ146 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 15.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 4.0 | 2.0 |
| ACENAPHTHYLENE | ND | 4.0 | 2.0 |
| ANTHRACENE | ND | 4.0 | 2.0 |
| BENZO(A)ANTHRACENE | 14 | 4.0 | 2.0 |
| BENZO(A)PYRENE | ND | 4.0 | 2.0 |
| BENZO(B)FLUORANTHENE | ND | 4.0 | 2.0 |
| BENZO(K)FLUORANTHENE | ND | 4.0 | 2.0 |
| BENZO(G,H,I)PERYLENE | 6.5 | 4.0 | 2.0 |
| CHRYSENE | ND | 4.0 | 2.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 4.0 | 2.0 |
| FLUORANTHENE | 4.2 | 4.0 | 2.0 |
| FLUORENE | ND | 4.0 | 2.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 4.0 | 2.0 |
| NAPHTHALENE | ND | 4.0 | 2.0 |
| PHENANTHRENE | ND | 4.0 | 2.0 |
| PYRENE | 4.1 | 4.0 | 2.0 |
| 2-METHYLNAPHTHALENE | ND | 4.0 | 2.0 |
| 1-METHYLNAPHTHALENE | ND | 4.0 | 2.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 39 | 20 |
| BUTYLBENZYLPHTHALATE | ND | 39 | 20 |
| DI-N-BUTYLPHTHALATE | ND | 39 | 20 |
| DI-N-OCTYLPHTHALATE | ND | 39 | 20 |
| DIETHYLPHTHALATE | ND | 39 | 20 |
| DIMETHYLPHTHALATE | ND | 39 | 20 |
| N-NITROSODIMETHYLAMINE | ND | 4.0 | 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 259 | 392.1 | 65.9 | 40-130 |
| 2-FLUOROBIPHENYL | 250 | 392.1 | 63.7 | 45-130 |
| TERPHENYL-D14 | 284 | 392.1 | 72.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-046-NBZ-SB-4.0-5.0 | Date Analyzed: 04/06/12 15:55 |
| Lab Samp ID: C261-06 | Dilution Factor: 1 |
| Lab File ID: RDJ130 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 5.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.90 |
| ACENAPHTHYLENE | ND | 1.8 | 0.90 |
| ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)PYRENE | ND | 1.8 | 0.90 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.90 |
| CHRYSENE | ND | 1.8 | 0.90 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.90 |
| FLUORANTHENE | ND | 1.8 | 0.90 |
| FLUORENE | ND | 1.8 | 0.90 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.90 |
| NAPHTHALENE | ND | 1.8 | 0.90 |
| PHENANTHRENE | ND | 1.8 | 0.90 |
| PYRENE | ND | 1.8 | 0.90 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 8.9 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 8.9 |
| DIETHYLPHTHALATE | ND | 18 | 8.9 |
| DIMETHYLPHTHALATE | ND | 18 | 8.9 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.90 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 156 | 352.3 | 44.1 | 40-130 |
| 2-FLUOROBIPHENYL | 139 | 352.3 | 39.5* | 45-130 |
| TERPHENYL-D14 | 309 | 352.3 | 87.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-042-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 21:15 |
| Lab Samp ID: C261-07 | Dilution Factor: 2 |
| Lab File ID: RDJ147 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 14.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | 2.9J | 4.0 | 2.0 |
| ACENAPHTHYLENE | ND | 4.0 | 2.0 |
| ANTHRACENE | 5.4 | 4.0 | 2.0 |
| BENZO(A)ANTHRACENE | 17 | 4.0 | 2.0 |
| BENZO(A)PYRENE | 15 | 4.0 | 2.0 |
| BENZO(B)FLUORANTHENE | 29 | 4.0 | 2.0 |
| BENZO(K)FLUORANTHENE | 6.6 | 4.0 | 2.0 |
| BENZO(G,H,I)PERYLENE | 25 | 4.0 | 2.0 |
| CHRYSENE | 25 | 4.0 | 2.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 4.0 | 2.0 |
| FLUORANTHENE | 76 | 4.0 | 2.0 |
| FLUORENE | ND | 4.0 | 2.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 4.0 | 2.0 |
| NAPHTHALENE | ND | 4.0 | 2.0 |
| PHENANTHRENE | 24 | 4.0 | 2.0 |
| PYRENE | 50 | 4.0 | 2.0 |
| 2-METHYLNAPHTHALENE | ND | 4.0 | 2.0 |
| 1-METHYLNAPHTHALENE | ND | 4.0 | 2.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 28J | 39 | 20 |
| BUTYLBENZYLPHTHALATE | ND | 39 | 20 |
| DI-N-BUTYLPHTHALATE | ND | 39 | 20 |
| DI-N-OCTYLPHTHALATE | ND | 39 | 20 |
| DIETHYLPHTHALATE | ND | 39 | 20 |
| DIMETHYLPHTHALATE | ND | 39 | 20 |
| N-NITROSODIMETHYLAMINE | ND | 4.0 | 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 333 | 388.0 | 85.9 | 40-130 |
| 2-FLUOROBIPHENYL | 293 | 388.0 | 75.5 | 45-130 |
| TERPHENYL-D14 | 344 | 388.0 | 88.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-043-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 16:14 |
| Lab Samp ID: C261-08 | Dilution Factor: 1 |
| Lab File ID: RDJ131 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 10.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | 2.7 | 1.9 | 0.95 |
| BENZO(A)PYRENE | ND | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | 2.0 | 1.9 | 0.95 |
| CHRYSENE | 2.5 | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | 4.8 | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.95 |
| NAPHTHALENE | 1.1J | 1.9 | 0.95 |
| PHENANTHRENE | 2.2 | 1.9 | 0.95 |
| PYRENE | 3.7 | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 46 | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | 36 | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 296 | 371.6 | 79.7 | 40-130 |
| 2-FLUOROBIPHENYL | 273 | 371.6 | 73.4 | 45-130 |
| TERPHENYL-D14 | 312 | 371.6 | 84.0 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-050-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 16:33 |
| Lab Samp ID: C261-09 | Dilution Factor: 1 |
| Lab File ID: RDJ132 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 8.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)PYRENE | ND | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | 2.1 | 1.9 | 0.93 |
| CHRYSENE | ND | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | ND | 1.9 | 0.93 |
| FLUORENE | ND | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | ND | 1.9 | 0.93 |
| PYRENE | ND | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 251 | 363.9 | 68.9 | 40-130 |
| 2-FLUOROBIPHENYL | 243 | 363.9 | 66.8 | 45-130 |
| TERPHENYL-D14 | 297 | 363.9 | 81.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-123-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 16:52 |
| Lab Samp ID: C261-11 | Dilution Factor: 1 |
| Lab File ID: RDJ133 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 15.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 1.0 |
| ACENAPHTHYLENE | ND | 2.0 | 1.0 |
| ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)PYRENE | ND | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 1.0 |
| CHRYSENE | ND | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 1.0 |
| FLUORANTHENE | ND | 2.0 | 1.0 |
| FLUORENE | ND | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 1.0 |
| NAPHTHALENE | ND | 2.0 | 1.0 |
| PHENANTHRENE | ND | 2.0 | 1.0 |
| PYRENE | ND | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 20 | 9.9 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 9.9 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 9.9 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 9.9 |
| DIETHYLPHTHALATE | ND | 20 | 9.9 |
| DIMETHYLPHTHALATE | ND | 20 | 9.9 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 277 | 392.6 | 70.7 | 40-130 |
| 2-FLUOROBIPHENYL | 256 | 392.6 | 65.3 | 45-130 |
| TERPHENYL-D14 | 292 | 392.6 | 74.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-124-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 17:11 |
| Lab Samp ID: C261-12 | Dilution Factor: 1 |
| Lab File ID: RDJ134 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 25.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.3 | 1.1 |
| ACENAPHTHYLENE | ND | 2.3 | 1.1 |
| ANTHRACENE | ND | 2.3 | 1.1 |
| BENZO(A)ANTHRACENE | 2.2J | 2.3 | 1.1 |
| BENZO(A)PYRENE | 2.9 | 2.3 | 1.1 |
| BENZO(B)FLUORANTHENE | 5.9 | 2.3 | 1.1 |
| BENZO(K)FLUORANTHENE | 2.1J | 2.3 | 1.1 |
| BENZO(G,H,I)PERYLENE | 3.8 | 2.3 | 1.1 |
| CHRYSENE | 2.6 | 2.3 | 1.1 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.3 | 1.1 |
| FLUORANTHENE | 5.3 | 2.3 | 1.1 |
| FLUORENE | ND | 2.3 | 1.1 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.3 | 1.1 |
| NAPHTHALENE | ND | 2.3 | 1.1 |
| PHENANTHRENE | 2.5 | 2.3 | 1.1 |
| PYRENE | 4.6 | 2.3 | 1.1 |
| 2-METHYLNAPHTHALENE | ND | 2.3 | 1.1 |
| 1-METHYLNAPHTHALENE | ND | 2.3 | 1.1 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 21J | 22 | 11 |
| BUTYLBENZYLPHTHALATE | 14J | 22 | 11 |
| DI-N-BUTYLPHTHALATE | ND | 22 | 11 |
| DI-N-OCTYLPHTHALATE | ND | 22 | 11 |
| DIETHYLPHTHALATE | ND | 22 | 11 |
| DIMETHYLPHTHALATE | ND | 22 | 11 |
| N-NITROSODIMETHYLAMINE | ND | 2.3 | 1.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 291 | 448.0 | 65.0 | 40-130 |
| 2-FLUOROBIPHENYL | 281 | 448.0 | 62.7 | 45-130 |
| TERPHENYL-D14 | 352 | 448.0 | 78.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-126-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 17:29 |
| Lab Samp ID: C261-13 | Dilution Factor: 1 |
| Lab File ID: RDJ135 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 16.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 1.0 |
| ACENAPHTHYLENE | ND | 2.0 | 1.0 |
| ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | 3.4 | 2.0 | 1.0 |
| BENZO(A)PYRENE | ND | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 1.0 |
| CHRYSENE | 2.1 | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 1.0 |
| FLUORANTHENE | 3.5 | 2.0 | 1.0 |
| FLUORENE | ND | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 1.0 |
| NAPHTHALENE | ND | 2.0 | 1.0 |
| PHENANTHRENE | 1.9J | 2.0 | 1.0 |
| PYRENE | 2.8 | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 16J | 20 | 10 |
| BUTYLBENZYLPHTHALATE | 13J | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 248 | 399.6 | 62.1 | 40-130 |
| 2-FLUOROBIPHENYL | 243 | 399.6 | 60.8 | 45-130 |
| TERPHENYL-D14 | 298 | 399.6 | 74.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-133-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 17:48 |
| Lab Samp ID: C261-14 | Dilution Factor: 1 |
| Lab File ID: RDJ136 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 13.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 0.98 |
| ACENAPHTHYLENE | ND | 2.0 | 0.98 |
| ANTHRACENE | ND | 2.0 | 0.98 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 0.98 |
| BENZO(A)PYRENE | ND | 2.0 | 0.98 |
| BENZO(B)FLUORANTHENE | ND | 2.0 | 0.98 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 0.98 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 0.98 |
| CHRYSENE | ND | 2.0 | 0.98 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 0.98 |
| FLUORANTHENE | ND | 2.0 | 0.98 |
| FLUORENE | ND | 2.0 | 0.98 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 0.98 |
| NAPHTHALENE | ND | 2.0 | 0.98 |
| PHENANTHRENE | ND | 2.0 | 0.98 |
| PYRENE | 1.9J | 2.0 | 0.98 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 0.98 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 0.98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 24 | 19 | 9.7 |
| BUTYLBENZYLPHTHALATE | 26 | 19 | 9.7 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.7 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.7 |
| DIETHYLPHTHALATE | ND | 19 | 9.7 |
| DIMETHYLPHTHALATE | ND | 19 | 9.7 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 0.98 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 241 | 385.8 | 62.5 | 40-130 |
| 2-FLUOROBIPHENYL | 245 | 385.8 | 63.4 | 45-130 |
| TERPHENYL-D14 | 301 | 385.8 | 77.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-195-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 18:07 |
| Lab Samp ID: C261-15 | Dilution Factor: 1 |
| Lab File ID: RDJ137 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 11.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.96 |
| ACENAPHTHYLENE | ND | 1.9 | 0.96 |
| ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)PYRENE | ND | 1.9 | 0.96 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.96 |
| CHRYSENE | ND | 1.9 | 0.96 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.96 |
| FLUORANTHENE | ND | 1.9 | 0.96 |
| FLUORENE | ND | 1.9 | 0.96 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.96 |
| NAPHTHALENE | ND | 1.9 | 0.96 |
| PHENANTHRENE | ND | 1.9 | 0.96 |
| PYRENE | ND | 1.9 | 0.96 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 19 | 9.5 |
| BUTYLBENZYLPHTHALATE | 12J | 19 | 9.5 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.5 |
| DIETHYLPHTHALATE | ND | 19 | 9.5 |
| DIMETHYLPHTHALATE | ND | 19 | 9.5 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.96 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 253 | 377.5 | 67.0 | 40-130 |
| 2-FLUOROBIPHENYL | 246 | 377.5 | 65.3 | 45-130 |
| TERPHENYL-D14 | 302 | 377.5 | 79.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-196-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 18:26 |
| Lab Samp ID: C261-16 | Dilution Factor: 1 |
| Lab File ID: RDJ138 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 17.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.1 | 1.0 |
| ACENAPHTHYLENE | ND | 2.1 | 1.0 |
| ANTHRACENE | ND | 2.1 | 1.0 |
| BENZO(A)ANTHRACENE | 1.3J | 2.1 | 1.0 |
| BENZO(A)PYRENE | ND | 2.1 | 1.0 |
| BENZO(B)FLUORANTHENE | ND | 2.1 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.1 | 1.0 |
| BENZO(G,H,I)PERYLENE | ND | 2.1 | 1.0 |
| CHRYSENE | 1.1J | 2.1 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.1 | 1.0 |
| FLUORANTHENE | 3.2 | 2.1 | 1.0 |
| FLUORENE | ND | 2.1 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.1 | 1.0 |
| NAPHTHALENE | ND | 2.1 | 1.0 |
| PHENANTHRENE | 1.4J | 2.1 | 1.0 |
| PYRENE | 2.3 | 2.1 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.1 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.1 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 12J | 20 | 10 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.1 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 185 | 404.5 | 45.7 | 40-130 |
| 2-FLUOROBIPHENYL | 194 | 404.5 | 48.1 | 45-130 |
| TERPHENYL-D14 | 285 | 404.5 | 70.4 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12C261 | Date Extracted: 04/05/12 12:47 |
| Sample ID: MBLK1S | Date Analyzed: 04/06/12 12:10 |
| Lab Samp ID: SVD011SB | Dilution Factor: 1 |
| Lab File ID: RDJ118 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 247 | 333.3 | 74.0 | 40-130 |
| 2-FLUOROBIPHENYL | 227 | 333.3 | 68.0 | 45-130 |
| TERPHENYL-D14 | 310 | 333.3 | 93.0 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVD011SB | SVD011SX | SVD011SY | | |
| LAB FILE ID: | RDJ118 | RDJ121 | RDJ122 | | |
| DATE EXTRACTED: | 04/05/1212:47 | 04/05/1212:47 | 04/05/1212:47 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/06/1212:10 | 04/06/1213:06 | 04/06/1213:25 | DATE RECEIVED: | 04/05/12 |
| PREP. BATCH: | SVD011S | SVD011S | SVD011S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 261 | 78 | 333 | 258 | 77 | 1 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 295 | 89 | 333 | 292 | 88 | 1 | 20-130 | 50 |
| Anthracene | ND | 333 | 276 | 83 | 333 | 260 | 78 | 6 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 329 | 99 | 333 | 305 | 92 | 7 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 337 | 101 | 333 | 323 | 97 | 4 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 353 | 106 | 333 | 349 | 105 | 1 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 355 | 106 | 333 | 345 | 103 | 3 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 368 | 110 | 333 | 363 | 109 | 1 | 30-140 | 50 |
| Chrysene | ND | 333 | 314 | 94 | 333 | 295 | 89 | 6 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 372 | 112 | 333 | 366 | 110 | 2 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 331 | 99 | 333 | 309 | 93 | 7 | 30-130 | 50 |
| Fluorene | ND | 333 | 287 | 86 | 333 | 275 | 82 | 4 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 375 | 112 | 333 | 367 | 110 | 2 | 20-160 | 50 |
| Naphthalene | ND | 333 | 238 | 71 | 333 | 238 | 72 | 0 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 279 | 84 | 333 | 265 | 79 | 5 | 20-130 | 50 |
| Pyrene | ND | 333 | 319 | 96 | 333 | 296 | 89 | 8 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 266 | 80 | 333 | 267 | 80 | 0 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 265 | 79 | 333 | 266 | 80 | 0 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 317 | 95 | 333 | 295 | 89 | 7 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 305 | 92 | 333 | 281 | 84 | 8 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 301 | 90 | 333 | 288 | 86 | 4 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 305 | 91 | 333 | 294 | 88 | 4 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 315 | 94 | 333 | 292 | 88 | 7 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 284 | 85 | 333 | 269 | 81 | 6 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 251 | 75 | 333 | 248 | 74 | 1 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 245 | 73 | 333 | 236 | 71 | 40-130 |
| 2-Fluorobiphenyl | 333 | 221 | 66 | 333 | 215 | 64 | 45-130 |
| Terphenyl-d14 | 333 | 307 | 92 | 333 | 280 | 84 | 45-135 |

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/29/12 04:28 |
| Sample ID: SL-045-NBZ-SB-4.5 | Date Analyzed: 03/29/12 04:28 |
| Lab Samp ID: C261-02 | Dilution Factor: 1.06 |
| Lab File ID: EC26096A | Matrix : SOIL |
| Ext Btch ID: GMC025S | % Moisture : 4.7 |
| Calib. Ref.: EC26092A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.56 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.95 | 2.225 | 87.7 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 03/27/12 14:19

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/29/12 05:10 |
| Sample ID: SL-046-NBZ-SB-4.5 | Date Analyzed: 03/29/12 05:10 |
| Lab Samp ID: C261-05 | Dilution Factor: 0.97 |
| Lab File ID: EC26097A | Matrix : SOIL |
| Ext Btch ID: GMC025S | % Moisture : 4.0 |
| Calib. Ref.: EC26092A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.51 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.77 | 2.021 | 87.5 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 03/27/12 14:19

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C261 | Date Extracted: 03/29/12 03:45 |
| Sample ID: MBLK1S | Date Analyzed: 03/29/12 03:45 |
| Lab Samp ID: GMC025SB | Dilution Factor: 1 |
| Lab File ID: EC26095A | Matrix : SOIL |
| Ext Btch ID: GMC025S | % Moisture : NA |
| Calib. Ref.: EC26092A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.77 | 2.000 | 88.4 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 03/27/12 14:19

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: METHOD 5035/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | GMC025SB | GMC025SL | GMC025SC | | |
| LAB FILE ID: | EC26095A | EC26093A | EC26094A | | |
| DATE EXTRACTED: | 03/29/1203:45 | 03/29/1202:21 | 03/29/1203:03 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/29/1203:45 | 03/29/1202:21 | 03/29/1203:03 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | GMC025S | GMC025S | GMC025S | | |
| CALIB. REF: | EC26092A | EC26092A | EC26092A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 25.0 | 24.8 | 99 | 25.0 | 25.1 | 100 | 1 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 2.00 | 2.12 | 106 | 2.00 | 2.14 | 107 | 60-130 |

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/29/12 19:08 |
| Sample ID: TB-032612 | Date Analyzed: 03/29/12 19:08 |
| Lab Samp ID: C261-10 | Dilution Factor: 1 |
| Lab File ID: EC29007A | Matrix : WATER |
| Ext Btch ID: VA39C14 | % Moisture : NA |
| Calib. Ref.: EC29002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 27J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 36.8 | 40.00 | 92.0 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C261 | Date Extracted: 03/29/12 16:20 |
| Sample ID: MBLK1W | Date Analyzed: 03/29/12 16:20 |
| Lab Samp ID: VA39C14B | Dilution Factor: 1 |
| Lab File ID: EC29003A | Matrix : WATER |
| Ext Btch ID: VA39C14 | % Moisture : NA |
| Calib. Ref.: EC29002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 35.7 | 40.00 | 89.3 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: METHOD 5030B/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VA39C14B | VA39C14L | VA39C14C | | |
| LAB FILE ID: | EC29003A | EC29004A | EC29005A | | |
| DATE EXTRACTED: | 03/29/1216:20 | 03/29/1217:02 | 03/29/1217:44 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/29/1216:20 | 03/29/1217:02 | 03/29/1217:44 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | VA39C14 | VA39C14 | VA39C14 | | |
| CALIB. REF: | EC29002A | EC29002A | EC29002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 500 | 456 | 91 | 500 | 489 | 98 | 7 | 60-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 40.0 | 39.1 | 98 | 40.0 | 41.3 | 103 | 60-130 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/29/12 11:40 |
| Sample ID: SL-045-NBZ-SS-0.0-0.5 | Date Analyzed: 03/30/12 10:04 |
| Lab Samp ID: C261-01 | Dilution Factor: 1 |
| Lab File ID: BC30010A | Matrix : SOIL |
| Ext Btch ID: MEC008S | % Moisture : 7.7 |
| Calib. Ref.: BC30006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 540 | 270 |
| ISOPROPANOL | ND | 540 | 270 |
| METHANOL | ND | 540 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/29/12 11:40 |
| Sample ID: SL-045-NBZ-SB-4.0-5.0 | Date Analyzed: 03/30/12 10:28 |
| Lab Samp ID: C261-03 | Dilution Factor: 1 |
| Lab File ID: BC30011A | Matrix : SOIL |
| Ext Btch ID: MEC008S | % Moisture : 4.9 |
| Calib. Ref.: BC30006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 530 | 260 |
| ISOPROPANOL | ND | 530 | 260 |
| METHANOL | ND | 530 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/29/12 11:40 |
| Sample ID: SL-046-NBZ-SS-0.0-0.5 | Date Analyzed: 03/30/12 10:44 |
| Lab Samp ID: C261-04 | Dilution Factor: 1 |
| Lab File ID: BC30012A | Matrix : SOIL |
| Ext Btch ID: MEC008S | % Moisture : 15.0 |
| Calib. Ref.: BC30006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 590 | 290 |
| ISOPROPANOL | ND | 590 | 290 |
| METHANOL | ND | 590 | 290 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/29/12 11:40 |
| Sample ID: SL-046-NBZ-SB-4.0-5.0 | Date Analyzed: 03/30/12 10:58 |
| Lab Samp ID: C261-06 | Dilution Factor: 1 |
| Lab File ID: BC30013A | Matrix : SOIL |
| Ext Btch ID: MEC008S | % Moisture : 5.4 |
| Calib. Ref.: BC30006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 530 | 260 |
| ISOPROPANOL | ND | 530 | 260 |
| METHANOL | ND | 530 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/29/12 11:40 |
| Sample ID: SL-042-NBZ-SS-0.0-0.5 | Date Analyzed: 03/30/12 11:19 |
| Lab Samp ID: C261-07 | Dilution Factor: 1 |
| Lab File ID: BC30014A | Matrix : SOIL |
| Ext Btch ID: MEC008S | % Moisture : 14.1 |
| Calib. Ref.: BC30006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 580 | 290 |
| ISOPROPANOL | ND | 580 | 290 |
| METHANOL | ND | 580 | 290 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/29/12 11:40 |
| Sample ID: SL-043-NBZ-SS-0.0-0.5 | Date Analyzed: 03/30/12 11:40 |
| Lab Samp ID: C261-08 | Dilution Factor: 1 |
| Lab File ID: BC30015A | Matrix : SOIL |
| Ext Btch ID: MEC008S | % Moisture : 10.3 |
| Calib. Ref.: BC30006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 560 | 280 |
| ISOPROPANOL | ND | 560 | 280 |
| METHANOL | ND | 560 | 280 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/29/12 11:40 |
| Sample ID: SL-050-NBZ-SS-0.0-0.5 | Date Analyzed: 03/30/12 12:10 |
| Lab Samp ID: C261-09 | Dilution Factor: 1 |
| Lab File ID: BC30016A | Matrix : SOIL |
| Ext Btch ID: MEC008S | % Moisture : 8.4 |
| Calib. Ref.: BC30006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 550 | 270 |
| ISOPROPANOL | ND | 550 | 270 |
| METHANOL | ND | 550 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C261 | Date Extracted: 03/29/12 11:40 |
| Sample ID: MBLK1S | Date Analyzed: 03/30/12 08:49 |
| Lab Samp ID: MEC008SB | Dilution Factor: 1 |
| Lab File ID: BC30007A | Matrix : SOIL |
| Ext Btch ID: MEC008S | % Moisture : NA |
| Calib. Ref.: BC30006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 500 | 250 |
| ISOPROPANOL | ND | 500 | 250 |
| METHANOL | ND | 500 | 250 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | MEC008SB | MEC008SL | MEC008SC | | |
| LAB FILE ID: | BC30007A | BC30008A | BC30009A | | |
| DATE EXTRACTED: | 03/29/1211:40 | 03/29/1211:40 | 03/29/1211:40 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1208:49 | 03/30/1209:18 | 03/30/1209:45 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | MEC008S | MEC008S | MEC008S | | |
| CALIB. REF: | BC30006A | BC30006A | BC30006A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 9020 | 90 | 10000 | 8200 | 82 | 10 | 50-150 | 50 |
| Isopropanol | ND | 10000 | 9470 | 95 | 10000 | 9970 | 100 | 5 | 50-150 | 50 |
| Methanol | ND | 10000 | 11400 | 114 | 10000 | 11400 | 114 | 0 | 50-150 | 50 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| Batch No. | : 12C261 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-045-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/29/12 15:34 |
| Lab Samp ID | : C261-01 | Dilution Factor | : 1 |
| Lab File ID | : TC29018A | Matrix | : SOIL |
| Ext Btch ID | : PEC007S | % Moisture | : 7.7 |
| Calib. Ref. | : TC29015A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.1 |
| ETHYLENE GLYCOL | ND | 11 | 5.4 |
| PROPYLENE GLYCOL | ND | 11 | 5.4 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/27/12 11:30 |
| Sample ID: SL-045-NBZ-SB-4.0-5.0 | Date Analyzed: 03/29/12 15:45 |
| Lab Samp ID: C261-03 | Dilution Factor: 1 |
| Lab File ID: TC29019A | Matrix : SOIL |
| Ext Btch ID: PEC007S | % Moisture : 4.9 |
| Calib. Ref.: TC29015A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.9 |
| ETHYLENE GLYCOL | ND | 11 | 5.3 |
| PROPYLENE GLYCOL | ND | 11 | 5.3 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| Batch No. | : 12C261 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-046-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/29/12 15:57 |
| Lab Samp ID | : C261-04 | Dilution Factor | : 1 |
| Lab File ID | : TC29020A | Matrix | : SOIL |
| Ext Btch ID | : PEC007S | % Moisture | : 15.0 |
| Calib. Ref. | : TC29015A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 18 | 8.8 |
| ETHYLENE GLYCOL | ND | 12 | 5.9 |
| PROPYLENE GLYCOL | ND | 12 | 5.9 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| Batch No. | : 12C261 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-046-NBZ-SB-4.0-5.0 | Date Analyzed | : 03/29/12 16:09 |
| Lab Samp ID | : C261-06 | Dilution Factor | : 1 |
| Lab File ID | : TC29021A | Matrix | : SOIL |
| Ext Btch ID | : PEC007S | % Moisture | : 5.4 |
| Calib. Ref. | : TC29015A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.9 |
| ETHYLENE GLYCOL | ND | 11 | 5.3 |
| PROPYLENE GLYCOL | ND | 11 | 5.3 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| Batch No. | : 12C261 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-042-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/29/12 16:22 |
| Lab Samp ID | : C261-07 | Dilution Factor | : 1 |
| Lab File ID | : TC29022A | Matrix | : SOIL |
| Ext Btch ID | : PEC007S | % Moisture | : 14.1 |
| Calib. Ref. | : TC29015A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 17 | 8.7 |
| ETHYLENE GLYCOL | ND | 12 | 5.8 |
| PROPYLENE GLYCOL | ND | 12 | 5.8 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| Batch No. | : 12C261 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-043-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/29/12 16:33 |
| Lab Samp ID | : C261-08 | Dilution Factor | : 1 |
| Lab File ID | : TC29023A | Matrix | : SOIL |
| Ext Btch ID | : PEC007S | % Moisture | : 10.3 |
| Calib. Ref. | : TC29015A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 17 | 8.4 |
| ETHYLENE GLYCOL | ND | 11 | 5.6 |
| PROPYLENE GLYCOL | ND | 11 | 5.6 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| Batch No. | : 12C261 | Date Extracted | : 03/27/12 11:30 |
| Sample ID | : SL-050-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/29/12 16:50 |
| Lab Samp ID | : C261-09 | Dilution Factor | : 1 |
| Lab File ID | : TC29024A | Matrix | : SOIL |
| Ext Btch ID | : PEC007S | % Moisture | : 8.4 |
| Calib. Ref. | : TC29015A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.2 |
| ETHYLENE GLYCOL | ND | 11 | 5.5 |
| PROPYLENE GLYCOL | ND | 11 | 5.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C261 | Date Extracted: 03/27/12 11:30 |
| Sample ID: MBLK1S | Date Analyzed: 03/29/12 12:15 |
| Lab Samp ID: PEC007SB | Dilution Factor: 1 |
| Lab File ID: TC29007A | Matrix : SOIL |
| Ext Btch ID: PEC007S | % Moisture : NA |
| Calib. Ref.: TC29004A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.5 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 5.0 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: METHOD 8015M

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: PEC007SB PEC007SL PEC007SC
LAB FILE ID: TC29007A TC29005A TC29006A
DATE EXTRACTED: 03/27/1211:30 03/27/1211:30 03/27/1211:30 DATE COLLECTED: NA
DATE ANALYZED: 03/29/1212:15 03/29/1211:05 03/29/1211:18 DATE RECEIVED: 03/27/12
PREP. BATCH: PEC007S PEC007S PEC007S
CALIB. REF: TC29004A TC29004A TC29004A

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 53.7 | 107 | 50.0 | 48.7 | 97 | 10 | 50-150 | 50 |
| Ethylene Glycol | ND | 50.0 | 54.6 | 109 | 50.0 | 53.0 | 106 | 3 | 50-150 | 50 |
| Propylene Glycol | ND | 25.0 | 25.9 | 104 | 25.0 | 24.2 | 97 | 7 | 50-150 | 50 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/03/12 10:30 |
| Sample ID: SL-045-NBZ-SS-0.0-0.5 | Date Analyzed: 04/04/12 04:52 |
| Lab Samp ID: C261-01T | Dilution Factor: 10 |
| Lab File ID: LD03042A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : 7.7 |
| Calib. Ref.: LD03039A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 11 | 5.4 |
| EFH(C12-C14) | ND | 11 | 5.4 |
| EFH(C15-C20) | ND | 11 | 5.4 |
| EFH(C21-C30) | 200 | 11 | 5.4 |
| EFH(C30-C40) | 140 | 11 | 5.4 |
| TOTAL EFH(C8-C40) | 340 | 11 | 5.4 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | DO | 10.83 | DO | 50-150 |
| HEXACOSANE | DO | 2.709 | DO | 50-150 |

RL : Reporting Limit
DO : Diluted Out

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/03/12 10:30 |
| Sample ID: SL-045-NBZ-SB-4.0-5.0 | Date Analyzed: 04/03/12 23:46 |
| Lab Samp ID: C261-03 | Dilution Factor: 1 |
| Lab File ID: LD03024A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : 4.9 |
| Calib. Ref.: LD03015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.53 |
| EFH(C12-C14) | ND | 1.1 | 0.53 |
| EFH(C15-C20) | ND | 1.1 | 0.53 |
| EFH(C21-C30) | 5.9 | 1.1 | 0.53 |
| EFH(C30-C40) | 4.3 | 1.1 | 0.53 |
| TOTAL EFH(C8-C40) | 10 | 1.1 | 0.53 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.77 | 10.52 | 64.4 | 50-150 |
| HEXACOSANE | 2.19 | 2.629 | 83.5 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/03/12 10:30 |
| Sample ID: SL-046-NBZ-SS-0.0-0.5 | Date Analyzed: 04/04/12 04:35 |
| Lab Samp ID: C261-04T | Dilution Factor: 10 |
| Lab File ID: LD03041A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : 15.0 |
| Calib. Ref.: LD03039A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 12 | 5.9 |
| EFH(C12-C14) | ND | 12 | 5.9 |
| EFH(C15-C20) | ND | 12 | 5.9 |
| EFH(C21-C30) | 61 | 12 | 5.9 |
| EFH(C30-C40) | 92 | 12 | 5.9 |
| TOTAL EFH(C8-C40) | 150 | 12 | 5.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | DO | 11.76 | DO | 50-150 |
| HEXACOSANE | DO | 2.941 | DO | 50-150 |

RL : Reporting Limit
DO : Diluted Out

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/03/12 10:30 |
| Sample ID: SL-046-NBZ-SB-4.0-5.0 | Date Analyzed: 04/03/12 22:37 |
| Lab Samp ID: C261-06 | Dilution Factor: 1 |
| Lab File ID: LD03020A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : 5.4 |
| Calib. Ref.: LD03015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.86J | 1.1 | 0.53 |
| EFH(C12-C14) | 0.73J | 1.1 | 0.53 |
| EFH(C15-C20) | 0.73J | 1.1 | 0.53 |
| EFH(C21-C30) | 2.1 | 1.1 | 0.53 |
| EFH(C30-C40) | 1.2 | 1.1 | 0.53 |
| TOTAL EFH(C8-C40) | 5.6 | 1.1 | 0.53 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.23 | 10.57 | 68.4 | 50-150 |
| HEXACOSANE | 2.28 | 2.643 | 86.2 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/03/12 10:30 |
| Sample ID: SL-042-NBZ-SS-0.0-0.5 | Date Analyzed: 04/04/12 05:09 |
| Lab Samp ID: C261-07T | Dilution Factor: 20 |
| Lab File ID: LD03043A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : 14.1 |
| Calib. Ref.: LD03039A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 23 | 12 |
| EFH(C12-C14) | ND | 23 | 12 |
| EFH(C15-C20) | ND | 23 | 12 |
| EFH(C21-C30) | 210 | 23 | 12 |
| EFH(C30-C40) | 200 | 23 | 12 |
| TOTAL EFH(C8-C40) | 410 | 23 | 12 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | DO | 11.64 | DO | 50-150 |
| HEXACOSANE | DO | 2.910 | DO | 50-150 |

RL : Reporting Limit
DO : Diluted Out

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/03/12 10:30 |
| Sample ID: SL-043-NBZ-SS-0.0-0.5 | Date Analyzed: 04/04/12 00:03 |
| Lab Samp ID: C261-08 | Dilution Factor: 1 |
| Lab File ID: LD03025A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : 10.3 |
| Calib. Ref.: LD03015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.93J | 1.1 | 0.56 |
| EFH(C12-C14) | 0.72J | 1.1 | 0.56 |
| EFH(C15-C20) | 2.0 | 1.1 | 0.56 |
| EFH(C21-C30) | 16 | 1.1 | 0.56 |
| EFH(C30-C40) | 17 | 1.1 | 0.56 |
| TOTAL EFH(C8-C40) | 37 | 1.1 | 0.56 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.87 | 11.15 | 70.6 | 50-150 |
| HEXACOSANE | 2.28 | 2.787 | 81.9 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/03/12 10:30 |
| Sample ID: SL-050-NBZ-SS-0.0-0.5 | Date Analyzed: 04/04/12 05:26 |
| Lab Samp ID: C261-09T | Dilution Factor: 20 |
| Lab File ID: LD03044A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : 8.4 |
| Calib. Ref.: LD03039A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 22 | 11 |
| EFH(C12-C14) | ND | 22 | 11 |
| EFH(C15-C20) | ND | 22 | 11 |
| EFH(C21-C30) | 160 | 22 | 11 |
| EFH(C30-C40) | 200 | 22 | 11 |
| TOTAL EFH(C8-C40) | 360 | 22 | 11 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | DO | 10.92 | DO | 50-150 |
| HEXACOSANE | DO | 2.729 | DO | 50-150 |

RL : Reporting Limit
DO : Diluted Out

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12C261 | Date Extracted: 04/03/12 10:30 |
| Sample ID: MBLK1S | Date Analyzed: 04/03/12 21:47 |
| Lab Samp ID: DSD002SB | Dilution Factor: 1 |
| Lab File ID: LD03017A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : NA |
| Calib. Ref.: LD03015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.38 | 10.00 | 73.8 | 50-150 |
| HEXACOSANE | 2.16 | 2.500 | 86.4 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSD002SB | DSD002SL | DSD002SC | | |
| LAB FILE ID: | LD03017A | LD03018A | LD03019A | | |
| DATE EXTRACTED: | 04/03/1210:30 | 04/03/1210:30 | 04/03/1210:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1221:47 | 04/03/1222:04 | 04/03/1222:21 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | DSD002S | DSD002S | DSD002S | | |
| CALIB. REF: | LD03015A | LD03015A | LD03015A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 52.3 | 105 | 50.0 | 48.8 | 98 | 7 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 7.95 | 79 | 10.0 | 7.68 | 77 | 50-150 |
| Hexacosane | 2.50 | 2.27 | 91 | 2.50 | 2.15 | 86 | 50-150 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 17:02 |
| Sample ID: SL-045-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 05:01 |
| Lab Samp ID: C261-01T | Dilution Factor: 10 |
| Lab File ID: LD14031A | Matrix : SOIL |
| Ext Btch ID: CPD001S | % Moisture : 7.7 |
| Calib. Ref.: LD14026A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| GAMMA-BHC (LINDANE) | (ND) \| 1.7J | 1.8 | 0.92 \| 0.92 |
| BETA-BHC | 3.3 \| (ND) | 1.8 | 0.92 \| 0.92 |
| HEPTACHLOR | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| DELTA-BHC | (ND) \| 11 | 1.8 | 0.92 \| 0.92 |
| ALDRIN | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| HEPTACHLOR EPOXIDE | 4.0 \| (ND) | 1.8 | 0.92 \| 0.92 |
| ENDOSULFAN I | (ND) \| 4.7 | 1.8 | 0.92 \| 0.92 |
| 4,4'-DDE | (ND) \| ND | 3.7 | 1.8 \| 1.8 |
| DIELDRIN | (ND) \| ND | 3.7 | 1.8 \| 1.8 |
| ENDRIN | 3.1J \| (ND) | 3.7 | 1.8 \| 1.8 |
| 4,4'-DDD | (ND) \| 5.0 | 3.7 | 1.8 \| 1.8 |
| ENDOSULFAN II | 4.3 \| (ND) | 3.7 | 1.8 \| 1.8 |
| 4,4'-DDT | (ND) \| 2.0J | 3.7 | 1.8 \| 1.8 |
| ENDRIN ALDEHYDE | (ND) \| ND | 3.7 | 1.8 \| 1.8 |
| ENDOSULFAN SULFATE | 15 \| (ND) | 3.7 | 1.8 \| 1.8 |
| ENDRIN KETONE | (ND) \| ND | 3.7 | 1.8 \| 1.8 |
| METHOXYCHLOR | 29 \| (ND) | 18 | 9.2 \| 9.2 |
| MIREX | 2.5J \| (ND) | 3.7 | 1.8 \| 1.8 |
| TOXAPHENE | (ND) \| ND | 72 | 36 \| 36 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 37 | 18 \| 18 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 6.742 \| (7.095) | 5.778 | 117 \| (123) | 50-130 |
| DECACHLOROBIPHENYL | 3.333 \| (3.593) | 5.778 | 57.7 \| (62.2) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 17:02 |
| Sample ID: SL-046-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 05:23 |
| Lab Samp ID: C261-04T | Dilution Factor: 5 |
| Lab File ID: LD14032A | Matrix : SOIL |
| Ext Btch ID: CPD001S | % Moisture : 15.0 |
| Calib. Ref.: LD14026A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (1.3)\|0.97J | 1.0 | 0.50\|0.50 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 1.0 | 0.50\|0.50 |
| BETA-BHC | (ND)\|ND | 1.0 | 0.50\|0.50 |
| HEPTACHLOR | (ND)\|2.4 | 1.0 | 0.50\|0.50 |
| DELTA-BHC | (ND)\|ND | 1.0 | 0.50\|0.50 |
| ALDRIN | (ND)\|ND | 1.0 | 0.50\|0.50 |
| HEPTACHLOR EPOXIDE | (1.5)\|0.66J | 1.0 | 0.50\|0.50 |
| ENDOSULFAN I | (3.0)\|1.2 | 1.0 | 0.50\|0.50 |
| 4,4'-DDE | (ND)\|ND | 2.0 | 1.0\|1.0 |
| DIELDRIN | (ND)\|ND | 2.0 | 1.0\|1.0 |
| ENDRIN | (ND)\|ND | 2.0 | 1.0\|1.0 |
| 4,4'-DDD | 1.1J\|(ND) | 2.0 | 1.0\|1.0 |
| ENDOSULFAN II | (ND)\|2.5 | 2.0 | 1.0\|1.0 |
| 4,4'-DDT | (1.8J)\|12 | 2.0 | 1.0\|1.0 |
| ENDRIN ALDEHYDE | (ND)\|7.8 | 2.0 | 1.0\|1.0 |
| ENDOSULFAN SULFATE | (ND)\|4.6 | 2.0 | 1.0\|1.0 |
| ENDRIN KETONE | 3.5\|(ND) | 2.0 | 1.0\|1.0 |
| METHOXYCHLOR | 8.7J\|(ND) | 10 | 5.0\|5.0 |
| MIREX | 68\|(ND) | 2.0 | 1.0\|1.0 |
| TOXAPHENE | (ND)\|ND | 39 | 19\|19 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 20 | 10\|10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (7.246)\|8.985 | 6.274 | (115)\|143* | 50-130 |
| DECACHLOROBIPHENYL | 85.57\|(7.482) | 6.274 | 1360*\|(119) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 17:02 |
| Sample ID: SL-042-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 05:45 |
| Lab Samp ID: C261-07T | Dilution Factor: 10 |
| Lab File ID: LD14033A | Matrix : SOIL |
| Ext Btch ID: CPD001S | % Moisture : 14.1 |
| Calib. Ref.: LD14026A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 2.0 | 0.99\|0.99 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 2.0 | 0.99\|0.99 |
| BETA-BHC | (ND)\|18 | 2.0 | 0.99\|0.99 |
| HEPTACHLOR | (ND)\|1.9J | 2.0 | 0.99\|0.99 |
| DELTA-BHC | (ND)\|ND | 2.0 | 0.99\|0.99 |
| ALDRIN | 6.4\|(ND) | 2.0 | 0.99\|0.99 |
| HEPTACHLOR EPOXIDE | (ND)\|1.4J | 2.0 | 0.99\|0.99 |
| ENDOSULFAN I | (ND)\|4.5 | 2.0 | 0.99\|0.99 |
| 4,4'-DDE | (ND)\|ND | 4.0 | 2.0\|2.0 |
| DIELDRIN | 2.7J\|(ND) | 4.0 | 2.0\|2.0 |
| ENDRIN | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 4,4'-DDD | (ND)\|ND | 4.0 | 2.0\|2.0 |
| ENDOSULFAN II | 28\|(ND) | 4.0 | 2.0\|2.0 |
| 4,4'-DDT | (3.3J)\|14 | 4.0 | 2.0\|2.0 |
| ENDRIN ALDEHYDE | (ND)\|ND | 4.0 | 2.0\|2.0 |
| ENDOSULFAN SULFATE | (ND)\|ND | 4.0 | 2.0\|2.0 |
| ENDRIN KETONE | (ND)\|ND | 4.0 | 2.0\|2.0 |
| METHOXYCHLOR | (ND)\|ND | 20 | 9.9\|9.9 |
| MIREX | (ND)\|ND | 4.0 | 2.0\|2.0 |
| TOXAPHENE | (ND)\|ND | 77 | 38\|38 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 40 | 20\|20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (7.409)\|10.10 | 6.208 | (119)\|163* | 50-130 |
| DECACHLOROBIPHENYL | (3.928)\|10.06 | 6.208 | (63.3)\|162* | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 17:02 |
| Sample ID: SL-043-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 00:18 |
| Lab Samp ID: C261-08 | Dilution Factor: 1 |
| Lab File ID: LD14018A | Matrix : SOIL |
| Ext Btch ID: CPD001S | % Moisture : 10.3 |
| Calib. Ref.: LD14005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.53 \| (ND) | 0.19 | 0.095 \| 0.095 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| BETA-BHC | (ND) \| 0.76 | 0.19 | 0.095 \| 0.095 |
| HEPTACHLOR | 0.87 \| (ND) | 0.19 | 0.095 \| 0.095 |
| DELTA-BHC | (ND) \| 4.1 | 0.19 | 0.095 \| 0.095 |
| ALDRIN | 1.3 \| (ND) | 0.19 | 0.095 \| 0.095 |
| HEPTACHLOR EPOXIDE | 2.2 \| (ND) | 0.19 | 0.095 \| 0.095 |
| ENDOSULFAN I | (ND) \| 0.24 | 0.19 | 0.095 \| 0.095 |
| 4,4'-DDE | 1.3 \| (1.7) | 0.38 | 0.19 \| 0.19 |
| DIELDRIN | 0.62 \| (ND) | 0.38 | 0.19 \| 0.19 |
| ENDRIN | 0.79 \| (ND) | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN II | 2.1 \| (ND) | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDT | 2.5 \| (3.5) | 0.38 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | 8.6 \| (ND) | 0.38 | 0.19 \| 0.19 |
| ENDRIN KETONE | 1.0 \| (ND) | 0.38 | 0.19 \| 0.19 |
| METHOXYCHLOR | 16 \| (ND) | 1.9 | 0.95 \| 0.95 |
| MIREX | (ND) \| 0.62 | 0.38 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.4 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.8 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (6.200) \| 8.279 | 5.945 | 104 \| (139*) | 50-130 |
| DECACHLOROBIPHENYL | 4.594 \| (5.372) | 5.945 | 77.3 \| (90.4) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 17:02 |
| Sample ID: SL-050-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 06:07 |
| Lab Samp ID: C261-09T | Dilution Factor: 10 |
| Lab File ID: LD14034A | Matrix : SOIL |
| Ext Btch ID: CPD001S | % Moisture : 8.4 |
| Calib. Ref.: LD14026A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| BETA-BHC | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| HEPTACHLOR | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| DELTA-BHC | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| ALDRIN | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| HEPTACHLOR EPOXIDE | 2.2 \| (ND) | 1.9 | 0.93 \| 0.93 |
| ENDOSULFAN I | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| 4,4'-DDE | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| DIELDRIN | 2.3J \| (ND) | 3.7 | 1.9 \| 1.9 |
| ENDRIN | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| 4,4'-DDD | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| ENDOSULFAN II | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| 4,4'-DDT | (ND) \| 3.8 | 3.7 | 1.9 \| 1.9 |
| ENDRIN ALDEHYDE | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| ENDOSULFAN SULFATE | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| ENDRIN KETONE | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| METHOXYCHLOR | (ND) \| ND | 19 | 9.3 \| 9.3 |
| MIREX | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| TOXAPHENE | (ND) \| ND | 72 | 36 \| 36 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 37 | 19 \| 19 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 7.296 \| (7.383) | 5.822 | 125 \| (127) | 50-130 |
| DECACHLOROBIPHENYL | 2.740 \| (2.887) | 5.822 | 47.1 \| (49.6) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 17:02 |
| Sample ID: SL-123-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 00:38 |
| Lab Samp ID: C261-11 | Dilution Factor: 1 |
| Lab File ID: LD14019A | Matrix : SOIL |
| Ext Btch ID: CPD001S | % Moisture : 15.1 |
| Calib. Ref.: LD14005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 1.0 \| (ND) | 0.20 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR | 0.40 \| (ND) | 0.20 | 0.10 \| 0.10 |
| DELTA-BHC | (ND) \| 0.51 | 0.20 | 0.10 \| 0.10 |
| ALDRIN | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | 0.21 \| (ND) | 0.20 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| 4,4'-DDE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| DIELDRIN | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDRIN | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN II | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDT | (ND) \| 0.35J | 0.40 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | 0.24J \| (ND) | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| 7.0 | 2.0 | 1.0 \| 1.0 |
| MIREX | (ND) \| 0.20J | 0.40 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.8 | 3.9 \| 3.9 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.0 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 6.818 \| (7.702) | 6.282 | 109 \| (123) | 50-130 |
| DECACHLOROBIPHENYL | 5.245 \| (5.682) | 6.282 | 83.5 \| (90.5) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 17:02 |
| Sample ID: SL-124-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 01:00 |
| Lab Samp ID: C261-12 | Dilution Factor: 1 |
| Lab File ID: LD14020A | Matrix : SOIL |
| Ext Btch ID: CPD001S | % Moisture : 25.6 |
| Calib. Ref.: LD14005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.23 | 0.11 \| 0.11 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.23 | 0.11 \| 0.11 |
| BETA-BHC | (ND) \| ND | 0.23 | 0.11 \| 0.11 |
| HEPTACHLOR | 0.55 \| (ND) | 0.23 | 0.11 \| 0.11 |
| DELTA-BHC | (ND) \| ND | 0.23 | 0.11 \| 0.11 |
| ALDRIN | (ND) \| ND | 0.23 | 0.11 \| 0.11 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.23 | 0.11 \| 0.11 |
| ENDOSULFAN I | (ND) \| ND | 0.23 | 0.11 \| 0.11 |
| 4,4'-DDE | 0.35J \| (ND) | 0.46 | 0.23 \| 0.23 |
| DIELDRIN | (ND) \| ND | 0.46 | 0.23 \| 0.23 |
| ENDRIN | (ND) \| ND | 0.46 | 0.23 \| 0.23 |
| 4,4'-DDD | (ND) \| ND | 0.46 | 0.23 \| 0.23 |
| ENDOSULFAN II | 0.33J \| (ND) | 0.46 | 0.23 \| 0.23 |
| 4,4'-DDT | 0.71 \| (0.75) | 0.46 | 0.23 \| 0.23 |
| ENDRIN ALDEHYDE | 1.1 \| (ND) | 0.46 | 0.23 \| 0.23 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.46 | 0.23 \| 0.23 |
| ENDRIN KETONE | (ND) \| ND | 0.46 | 0.23 \| 0.23 |
| METHOXYCHLOR | 2.4 \| (ND) | 2.3 | 1.1 \| 1.1 |
| MIREX | (ND) \| ND | 0.46 | 0.23 \| 0.23 |
| TOXAPHENE | (ND) \| ND | 8.9 | 4.4 \| 4.4 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.6 | 2.3 \| 2.3 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 7.597 \| (8.146) | 7.168 | 106 \| (114) | 50-130 |
| DECACHLOROBIPHENYL | (6.159) \| 5.879 | 7.168 | (85.9) \| 82.0 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 17:02 |
| Sample ID: SL-126-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 01:22 |
| Lab Samp ID: C261-13 | Dilution Factor: 1 |
| Lab File ID: LD14021A | Matrix : SOIL |
| Ext Btch ID: CPD001S | % Moisture : 16.6 |
| Calib. Ref.: LD14005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR | (ND) \| 0.59 | 0.20 | 0.10 \| 0.10 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| ALDRIN | 0.11J \| (ND) | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | (0.12J) \| 0.16J | 0.20 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| 0.12J | 0.20 | 0.10 \| 0.10 |
| 4,4'-DDE | 0.91 \| (1.7) | 0.41 | 0.20 \| 0.20 |
| DIELDRIN | 0.76 \| (ND) | 0.41 | 0.20 \| 0.20 |
| ENDRIN | 0.41J \| (ND) | 0.41 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDOSULFAN II | 0.68 \| (ND) | 0.41 | 0.20 \| 0.20 |
| 4,4'-DDT | 1.3 \| (2.0) | 0.41 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | 1.8 \| (ND) | 0.41 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | 0.65 \| (ND) | 0.41 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| METHOXYCHLOR | 18 \| (ND) | 2.0 | 1.0 \| 1.0 |
| MIREX | (ND) \| 2.0 | 0.41 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.9 | 4.0 \| 4.0 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.1 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 6.982 \| (7.812) | 6.394 | 109 \| (122) | 50-130 |
| DECACHLOROBIPHENYL | (5.012) \| 4.434 | 6.394 | (78.4) \| 69.3 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 17:02 |
| Sample ID: SL-133-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 01:44 |
| Lab Samp ID: C261-14 | Dilution Factor: 1 |
| Lab File ID: LD14022A | Matrix : SOIL |
| Ext Btch ID: CPD001S | % Moisture : 13.6 |
| Calib. Ref.: LD14005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.69 \| (ND) | 0.20 | 0.098 \| 0.098 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| BETA-BHC | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| HEPTACHLOR | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| ALDRIN | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| HEPTACHLOR EPOXIDE | 0.76 \| (ND) | 0.20 | 0.098 \| 0.098 |
| ENDOSULFAN I | (ND) \| 0.10J | 0.20 | 0.098 \| 0.098 |
| 4,4'-DDE | 2.6 \| (3.2) | 0.39 | 0.20 \| 0.20 |
| DIELDRIN | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDRIN | 0.41 \| (ND) | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN II | 0.81 \| (ND) | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDT | 1.6 \| (2.4) | 0.39 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | 1.6 \| (ND) | 0.39 | 0.20 \| 0.20 |
| ENDRIN KETONE | 0.52 \| (ND) | 0.39 | 0.20 \| 0.20 |
| METHOXYCHLOR | 5.6 \| (1.4J) | 2.0 | 0.98 \| 0.98 |
| MIREX | (ND) \| 0.33J | 0.39 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 6.283 \| (7.278) | 6.172 | 102 \| (118) | 50-130 |
| DECACHLOROBIPHENYL | (4.626) \| 4.118 | 6.172 | (74.9) \| 66.7 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 17:02 |
| Sample ID: SL-195-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 02:07 |
| Lab Samp ID: C261-15 | Dilution Factor: 1 |
| Lab File ID: LD14023A | Matrix : SOIL |
| Ext Btch ID: CPD001S | % Moisture : 11.7 |
| Calib. Ref.: LD14005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| HEPTACHLOR | 0.52 \| (ND) | 0.19 | 0.096 \| 0.096 |
| DELTA-BHC | (ND) \| 0.12J | 0.19 | 0.096 \| 0.096 |
| ALDRIN | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| HEPTACHLOR EPOXIDE | 0.69 \| (ND) | 0.19 | 0.096 \| 0.096 |
| ENDOSULFAN I | (ND) \| 0.18J | 0.19 | 0.096 \| 0.096 |
| 4,4'-DDE | (0.71) \| 0.52 | 0.39 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.44 \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDT | (1.6) \| 1.4 | 0.39 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| METHOXYCHLOR | 3.0 \| (ND) | 1.9 | 0.96 \| 0.96 |
| MIREX | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.5 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (6.203) \| 8.040 | 6.040 | (103) \| 133* | 50-130 |
| DECACHLOROBIPHENYL | (5.408) \| 5.221 | 6.040 | (89.5) \| 86.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 17:02 |
| Sample ID: SL-196-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 02:29 |
| Lab Samp ID: C261-16 | Dilution Factor: 1 |
| Lab File ID: LD14024A | Matrix : SOIL |
| Ext Btch ID: CPD001S | % Moisture : 17.6 |
| Calib. Ref.: LD14005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.96\|(ND) | 0.21 | 0.10\|0.10 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.21 | 0.10\|0.10 |
| BETA-BHC | (ND)\|ND | 0.21 | 0.10\|0.10 |
| HEPTACHLOR | 0.83\|(ND) | 0.21 | 0.10\|0.10 |
| DELTA-BHC | 0.39\|(ND) | 0.21 | 0.10\|0.10 |
| ALDRIN | (ND)\|ND | 0.21 | 0.10\|0.10 |
| HEPTACHLOR EPOXIDE | 0.43\|(ND) | 0.21 | 0.10\|0.10 |
| ENDOSULFAN I | (ND)\|ND | 0.21 | 0.10\|0.10 |
| 4,4'-DDE | 0.52\|(ND) | 0.41 | 0.21\|0.21 |
| DIELDRIN | (ND)\|ND | 0.41 | 0.21\|0.21 |
| ENDRIN | (ND)\|ND | 0.41 | 0.21\|0.21 |
| 4,4'-DDD | (ND)\|ND | 0.41 | 0.21\|0.21 |
| ENDOSULFAN II | 0.42\|(ND) | 0.41 | 0.21\|0.21 |
| 4,4'-DDT | (2.0)\|1.7 | 0.41 | 0.21\|0.21 |
| ENDRIN ALDEHYDE | 0.82\|(ND) | 0.41 | 0.21\|0.21 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.41 | 0.21\|0.21 |
| ENDRIN KETONE | (ND)\|ND | 0.41 | 0.21\|0.21 |
| METHOXYCHLOR | 3.0\|(ND) | 2.1 | 1.0\|1.0 |
| MIREX | (ND)\|ND | 0.41 | 0.21\|0.21 |
| TOXAPHENE | (ND)\|ND | 8.0 | 4.0\|4.0 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 4.1 | 2.1\|2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 7.436\|(7.909) | 6.472 | 115\|(122) | 50-130 |
| DECACHLOROBIPHENYL | (5.508)\|5.139 | 6.472 | (85.1)\|79.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 17:02 |
| Sample ID: MBLK1S | Date Analyzed: 04/14/12 23:12 |
| Lab Samp ID: CPD001SB | Dilution Factor: 1 |
| Lab File ID: LD14015A | Matrix : SOIL |
| Ext Btch ID: CPD001S | % Moisture : NA |
| Calib. Ref.: LD14005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 6.450\|(6.824) | 5.333 | 121\|(128) | 50-130 |
| DECACHLOROBIPHENYL | 5.267\|(5.684) | 5.333 | 98.8\|(107) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPD001SB CPD001SL CPD001SC
LAB FILE ID: LD14015A LD14016A LD14017A
DATE EXTRACTED: 04/02/1217:02 04/02/1217:02 04/02/1217:02 DATE COLLECTED: NA
DATE ANALYZED: 04/14/1223:12 04/14/1223:34 04/14/1223:56 DATE RECEIVED: 04/02/12
PREP. BATCH: CPD001S CPD001S CPD001S
CALIB. REF: LD14005A LD14005A LD14005A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 2.67 | 3.05\|(3.38) | 114\|(127) | 2.67 | 3.05\|(3.67) | 114\|(137) | 0\|(8) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|ND | 2.67 | (3.01)\|3.44 | (113)\|129 | 2.67 | (3.25)\|3.57 | (122)\|134* | (8)\|4 | 40-130 | 50 |
| beta-BHC | (ND)\|ND | 2.67 | 2.96\|(3.02) | 111\|(113) | 2.67 | (3.10)\|3.09 | (116)\|116 | (5)\|2 | 50-140 | 50 |
| Heptachlor | (ND)\|ND | 2.67 | (3.23)\|3.06 | (121)\|115 | 2.67 | (3.40)\|3.23 | (127)\|121 | (5)\|5 | 30-130 | 50 |
| delta-BHC | (ND)\|ND | 2.67 | 3.48\|(3.69) | 130\|(138) | 2.67 | 3.79\|(3.85) | 142\|(144) | 9\|(4) | 30-150 | 50 |
| Aldrin | (ND)\|ND | 2.67 | 2.63\|(2.71) | 99\|(101) | 2.67 | 2.87\|(2.96) | 107\|(111) | 9\|(9) | 30-130 | 50 |
| Heptachlor Epoxide | (ND)\|ND | 2.67 | 2.75\|(2.84) | 103\|(106) | 2.67 | 2.95\|(3.08) | 110\|(115) | 7\|(8) | 60-140 | 50 |
| Endosulfan I | (ND)\|ND | 2.67 | 2.36\|(2.85) | 88\|(107) | 2.67 | 2.59\|(3.11) | 97\|(116) | 9\|(9) | 50-150 | 50 |
| 4,4'-DDE | (ND)\|ND | 2.67 | 2.91\|(3.00) | 109\|(112) | 2.67 | 3.17\|(3.21) | 119\|(120) | 9\|(7) | 50-150 | 50 |
| Dieldrin | (ND)\|ND | 2.67 | (2.79)\|2.77 | (104)\|104 | 2.67 | (3.24)\|3.07 | (121)\|115 | (15)\|10 | 60-130 | 50 |
| Endrin | (ND)\|ND | 2.67 | 2.83\|(2.94) | 106\|(110) | 2.67 | 3.11\|(3.21) | 116\|(120) | 9\|(9) | 50-140 | 50 |
| 4,4'-DDD | (ND)\|ND | 2.67 | 2.78\|(2.90) | 104\|(109) | 2.67 | 2.90\|(3.17) | 109\|(119) | 4\|(9) | 50-160 | 50 |
| Endosulfan II | (ND)\|ND | 2.67 | 2.91\|(3.02) | 109\|(113) | 2.67 | 3.19\|(3.29) | 119\|(123) | 9\|(9) | 60-150 | 50 |
| 4,4'-DDT | (ND)\|ND | 2.67 | 3.46\|(3.19) | 130\|(119) | 2.67 | 3.77\|(3.47) | 141*\|(130) | 9\|(8) | 60-140 | 50 |
| Endrin aldehyde | (ND)\|ND | 2.67 | 2.46\|(2.49) | 92\|(93) | 2.67 | 2.70\|(2.89) | 101\|(108) | 9\|(15) | 50-160 | 50 |
| Endosulfan Sulfate | (ND)\|ND | 2.67 | 2.99\|(3.08) | 112\|(115) | 2.67 | 3.21\|(3.35) | 120\|(125) | 7\|(8) | 70-140 | 50 |
| Endrin Ketone | (ND)\|ND | 2.67 | 2.88\|(2.93) | 108\|(110) | 2.67 | 3.10\|(3.22) | 116\|(121) | 7\|(9) | 70-160 | 50 |
| Methoxychlor | (ND)\|ND | 26.7 | 29.5\|(31.7) | 110\|(119) | 26.7 | 31.5\|(34.4) | 118\|(129) | 7\|(8) | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 5.426\|(5.751) | 102\|(108) | 5.333 | 5.673\|(6.065) | 106\|(114) | 50-130 |
| Decachlorobiphenyl | 5.333 | 4.858\|(5.244) | 91.1\|(98.3) | 5.333 | 5.196\|(5.436) | 97.4\|(102) | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/04/12 16:33 |
| Sample ID: SL-045-NBZ-SS-0.0-0.5 | Date Analyzed: 04/07/12 13:45 |
| Lab Samp ID: C261-01 | Dilution Factor: 1 |
| Lab File ID: KD06025A | Matrix : SOIL |
| Ext Btch ID: CPD007S | % Moisture : 7.7 |
| Calib. Ref.: KD06019A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (4.3)\|3.8 | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.582)\|3.745 | 5.778 | (96.6)\|64.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.777)\|4.900 | 5.778 | (135)\|84.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/04/12 16:33 |
| Sample ID: SL-045-NBZ-SB-4.0-5.0 | Date Analyzed: 04/08/12 00:46 |
| Lab Samp ID: C261-03 | Dilution Factor: 1 |
| Lab File ID: KD06037A | Matrix : SOIL |
| Ext Btch ID: CPD007S | % Moisture : 4.9 |
| Calib. Ref.: KD06034A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.847)\|4.007 | 5.608 | (104)\|71.4 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.412)\|4.445 | 5.608 | (114)\|79.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/04/12 16:33 |
| Sample ID: SL-046-NBZ-SS-0.0-0.5 | Date Analyzed: 04/08/12 01:41 |
| Lab Samp ID: C261-04 | Dilution Factor: 1 |
| Lab File ID: KD06038A | Matrix : SOIL |
| Ext Btch ID: CPD007S | % Moisture : 15.0 |
| Calib. Ref.: KD06034A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1254 | (22)\|14 | 2.0 | 1.0\|1.0 |
| AROCLOR 1260 | 19\|(27) | 2.0 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5460 | 2.5J\|(3.5J) | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.616)\|4.484 | 6.274 | (105)\|71.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.691)\|5.424 | 6.274 | (123)\|86.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/04/12 16:33 |
| Sample ID: SL-046-NBZ-SB-4.0-5.0 | Date Analyzed: 04/08/12 02:36 |
| Lab Samp ID: C261-06 | Dilution Factor: 1 |
| Lab File ID: KD06039A | Matrix : SOIL |
| Ext Btch ID: CPD007S | % Moisture : 5.4 |
| Calib. Ref.: KD06034A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.645)\|4.852 | 5.637 | (118)\|86.1 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.546)\|4.728 | 5.637 | (116)\|83.9 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/04/12 16:33 |
| Sample ID: SL-042-NBZ-SS-0.0-0.5 | Date Analyzed: 04/08/12 03:31 |
| Lab Samp ID: C261-07 | Dilution Factor: 1 |
| Lab File ID: KD06040A | Matrix : SOIL |
| Ext Btch ID: CPD007S | % Moisture : 14.1 |
| Calib. Ref.: KD06034A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1254 | (45)\|27 | 2.0 | 0.99\|0.99 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5460 | 7.1\|(7.5) | 3.8 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (2.905)\|2.174 | 6.208 | (46.8)\|35.0* | 45-120 |
| TETRACHLORO-M-XYLENE | (7.060)\|6.389 | 6.208 | (114)\|103 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/04/12 16:33 |
| Sample ID: SL-043-NBZ-SS-0.0-0.5 | Date Analyzed: 04/08/12 04:26 |
| Lab Samp ID: C261-08 | Dilution Factor: 1 |
| Lab File ID: KD06041A | Matrix : SOIL |
| Ext Btch ID: CPD007S | % Moisture : 10.3 |
| Calib. Ref.: KD06034A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1254 | (9.5)\|5.3 | 1.9 | 0.95\|0.95 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | 2.4J\|(2.5J) | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.915)\|4.241 | 5.945 | (99.5)\|71.3 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.393)\|5.437 | 5.945 | (124)\|91.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/04/12 16:33 |
| Sample ID: SL-050-NBZ-SS-0.0-0.5 | Date Analyzed: 04/08/12 05:21 |
| Lab Samp ID: C261-09 | Dilution Factor: 1 |
| Lab File ID: KD06042A | Matrix : SOIL |
| Ext Btch ID: CPD007S | % Moisture : 8.4 |
| Calib. Ref.: KD06034A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (4.954)\|3.340 | 5.822 | (85.1)\|57.4 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.877)\|5.381 | 5.822 | (118)\|92.4 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/04/12 16:33 |
| Sample ID: SL-123-NBZ-SS-0.0-0.5 | Date Analyzed: 04/08/12 06:16 |
| Lab Samp ID: C261-11 | Dilution Factor: 1 |
| Lab File ID: KD06043A | Matrix : SOIL |
| Ext Btch ID: CPD007S | % Moisture : 15.1 |
| Calib. Ref.: KD06034A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.428)\|4.645 | 6.282 | (102)\|73.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.862)\|5.384 | 6.282 | (125)\|85.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/04/12 16:33 |
| Sample ID: SL-124-NBZ-SS-0.0-0.5 | Date Analyzed: 04/08/12 07:11 |
| Lab Samp ID: C261-12 | Dilution Factor: 1 |
| Lab File ID: KD06044A | Matrix : SOIL |
| Ext Btch ID: CPD007S | % Moisture : 25.6 |
| Calib. Ref.: KD06034A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.3 | 1.1\|1.1 |
| AROCLOR 1221 | (ND)\|ND | 2.3 | 1.1\|1.1 |
| AROCLOR 1232 | (ND)\|ND | 2.3 | 1.1\|1.1 |
| AROCLOR 1242 | (ND)\|ND | 2.3 | 1.1\|1.1 |
| AROCLOR 1248 | (ND)\|ND | 2.3 | 1.1\|1.1 |
| AROCLOR 1254 | (ND)\|ND | 2.3 | 1.1\|1.1 |
| AROCLOR 1260 | (ND)\|ND | 2.3 | 1.1\|1.1 |
| AROCLOR 1262 | (ND)\|ND | 2.3 | 1.1\|1.1 |
| AROCLOR 1268 | (ND)\|ND | 2.3 | 1.1\|1.1 |
| AROCLOR 5432 | (ND)\|ND | 4.4 | 2.3\|2.3 |
| AROCLOR 5442 | (ND)\|ND | 4.4 | 2.3\|2.3 |
| AROCLOR 5460 | (ND)\|ND | 4.4 | 2.3\|2.3 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.296)\|5.434 | 7.168 | (102)\|75.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (8.549)\|6.112 | 7.168 | (119)\|85.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/04/12 16:33 |
| Sample ID: SL-126-NBZ-SS-0.0-0.5 | Date Analyzed: 04/08/12 08:06 |
| Lab Samp ID: C261-13 | Dilution Factor: 1 |
| Lab File ID: KD06045A | Matrix : SOIL |
| Ext Btch ID: CPD007S | % Moisture : 16.6 |
| Calib. Ref.: KD06034A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 4.0 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 4.0 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 4.0 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.979)\|4.989 | 6.394 | (109)\|78.0 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.757)\|5.676 | 6.394 | (121)\|88.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/04/12 16:33 |
| Sample ID: SL-133-NBZ-SS-0.0-0.5 | Date Analyzed: 04/08/12 09:01 |
| Lab Samp ID: C261-14 | Dilution Factor: 1 |
| Lab File ID: KD06046A | Matrix : SOIL |
| Ext Btch ID: CPD007S | % Moisture : 13.6 |
| Calib. Ref.: KD06034A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.368)\|4.576 | 6.172 | (103)\|74.1 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.053)\|4.829 | 6.172 | (114)\|78.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/04/12 16:33 |
| Sample ID: SL-195-NBZ-SS-0.0-0.5 | Date Analyzed: 04/08/12 09:56 |
| Lab Samp ID: C261-15 | Dilution Factor: 1 |
| Lab File ID: KD06047A | Matrix : SOIL |
| Ext Btch ID: CPD007S | % Moisture : 11.7 |
| Calib. Ref.: KD06034A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.332)\|4.652 | 6.040 | (105)\|77.0 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.039)\|5.092 | 6.040 | (117)\|84.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/04/12 16:33 |
| Sample ID: SL-196-NBZ-SS-0.0-0.5 | Date Analyzed: 04/08/12 10:51 |
| Lab Samp ID: C261-16 | Dilution Factor: 1 |
| Lab File ID: KD06048A | Matrix : SOIL |
| Ext Btch ID: CPD007S | % Moisture : 17.6 |
| Calib. Ref.: KD06034A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 4.0 | 2.1\|2.1 |
| AROCLOR 5442 | (ND)\|ND | 4.0 | 2.1\|2.1 |
| AROCLOR 5460 | (ND)\|ND | 4.0 | 2.1\|2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.793)\|4.989 | 6.472 | (105)\|77.1 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.640)\|5.668 | 6.472 | (118)\|87.6 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12C261 | Date Extracted: 04/04/12 16:33 |
| Sample ID: MBLK1S | Date Analyzed: 04/07/12 07:57 |
| Lab Samp ID: 60D007SB | Dilution Factor: 1 |
| Lab File ID: KD06022A | Matrix : SOIL |
| Ext Btch ID: CPD007S | % Moisture : NA |
| Calib. Ref.: KD06019A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.973)\|4.422 | 5.333 | (112)\|82.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.531)\|4.925 | 5.333 | (104)\|92.4 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: 60D007SB 60D007SL 60D007SC
LAB FILE ID: KD06022A KD06023A KD06024A
DATE EXTRACTED: 04/04/1216:33 04/04/1216:33 04/04/1216:33 DATE COLLECTED: NA
DATE ANALYZED: 04/07/1207:57 04/07/1208:52 04/07/1209:48 DATE RECEIVED: 04/04/12
PREP. BATCH: CPD007S CPD007S CPD007S
CALIB. REF: KD06019A KD06019A KD06019A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND) \| ND | 66.7 | (54.8) \| 46.6 | (82) \| 70 | 66.7 | (56.2) \| 48.2 | (84) \| 72 | (3) \| 3 | 50-130 | 50 |
| Aroclor 1260 | (ND) \| ND | 66.7 | (71.3) \| 57.4 | (107) \| 86 | 66.7 | (71.8) \| 57.4 | (108) \| 86 | (1) \| 0 | 60-150 | 50 |
| Aroclor 5460 | (ND) \| ND | 66.7 | (62.5) \| 62.2 | (94) \| 93 | 66.7 | (62.8) \| 62.4 | (94) \| 94 | (0) \| 0 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | (5.740) \| 4.301 | (108) \| 80.6 | 5.333 | (5.855) \| 4.349 | (110) \| 81.5 | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (5.183) \| 4.261 | (97.2) \| 79.9 | 5.333 | (5.624) \| 4.558 | (105) \| 85.5 | 10-160 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 7.7

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-045-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C261-01 | C261-01M | C261-01S | | |
| LAB FILE ID: | KD06025A | KD06026A | KD06027A | | |
| DATE EXTRACTED: | 04/04/1216:33 | 04/04/1216:33 | 04/04/1216:33 | DATE COLLECTED: | 03/26/12 |
| DATE ANALYZED: | 04/07/1213:45 | 04/07/1214:40 | 04/07/1215:35 | DATE RECEIVED: | 03/26/12 |
| PREP. BATCH: | CPD007S | CPD007S | CPD007S | | |
| CALIB. REF: | KD06019A | KD06019A | KD06019A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND) \| ND | 72.2 | (60.9) \| 45.9 | (84) \| 64 | 72.2 | (56.6) \| 41.4 | (78) \| 57 | (7) \| 10 | 20-160 | 50 |
| Aroclor 1260 | (ND) \| ND | 72.2 | (76.8) \| 57.3 | (106) \| 79 | 72.2 | (73.7) \| 51.3 | (102) \| 71 | (4) \| 11 | 20-160 | 50 |
| Aroclor 5460 | (4.3) \| 3.8 | 72.2 | (37.6) \| 32.6 | (46) \| 40 | 72.2 | (36.7) \| 31.6 | (45) \| 38 | (2) \| 3 | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.778 | (5.269) \| 3.431 | (91.2) \| 59.4 | 5.778 | (5.045) \| 3.298 | (87.3) \| 57.1 | 45-120 |
| Tetrachloro-m-xylene | 5.778 | (7.887) \| 4.822 | (137) \| 83.5 | 5.778 | (7.518) \| 4.308 | (130) \| 74.6 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/31/12 11:20 |
| Sample ID: SL-045-NBZ-SS-0.0-0.5DL | Date Analyzed: 04/02/12 20:17 |
| Lab Samp ID: C261-01T | Dilution Factor: 5 |
| Lab File ID: WD02030A | Matrix : SOIL |
| Ext Btch ID: HEC012S | % Moisture : 7.7 |
| Calib. Ref.: WD02024A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 20 | 9.8\|9.8 |
| 2,4-DB | (ND)\|620 | 9.2 | 4.6\|4.6 |
| 2,4,5-T | (ND)\|ND | 0.92 | 0.46\|0.46 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.92 | 0.46\|0.46 |
| DALAPON | (ND)\|ND | 49 | 24\|24 |
| DICAMBA | (ND)\|ND | 6.5 | 3.3\|3.3 |
| DICHLOROPROP | (ND)\|ND | 13 | 6.5\|6.5 |
| DINOSEB | (ND)\|ND | 9.2 | 4.6\|4.6 |
| MCPA | 2800\|(ND) | 1400 | 680\|680 |
| MCPP | (ND)\|ND | 1400 | 680\|680 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (234.7)\|149.9 | 162.5 | (144)\|92.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/31/12 11:20 |
| Sample ID: SL-046-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 19:36 |
| Lab Samp ID: C261-04 | Dilution Factor: 1 |
| Lab File ID: WD02028A | Matrix : SOIL |
| Ext Btch ID: HEC012S | % Moisture : 15.0 |
| Calib. Ref.: WD02024A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | 4.8 \| (ND) | 4.2 | 2.1 \| 2.1 |
| 2,4-DB | (ND) \| 210 | 2.0 | 1.0 \| 1.0 |
| 2,4,5-T | 0.50 \| (ND) | 0.20 | 0.10 \| 0.10 |
| 2,4,5-TP(SILVEX) | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| DALAPON | (ND) \| ND | 11 | 5.3 \| 5.3 |
| DICAMBA | (ND) \| ND | 1.4 | 0.71 \| 0.71 |
| DICHLOROPROP | (ND) \| 3.7 | 2.8 | 1.4 \| 1.4 |
| DINOSEB | (ND) \| 1.0J | 2.0 | 1.0 \| 1.0 |
| MCPA | 1900 \| (ND) | 290 | 150 \| 150 |
| MCPP | (ND) \| 340 | 290 | 150 \| 150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (146.2) \| 105.1 | 176.5 | (82.9) \| 59.6 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/31/12 11:20 |
| Sample ID: SL-042-NBZ-SS-0.0-0.5DL | Date Analyzed: 04/02/12 20:37 |
| Lab Samp ID: C261-07T | Dilution Factor: 5 |
| Lab File ID: WD02031A | Matrix : SOIL |
| Ext Btch ID: HEC012S | % Moisture : 14.1 |
| Calib. Ref.: WD02024A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 21 | 10\|10 |
| 2,4-DB | (ND)\|61 | 9.9 | 4.9\|4.9 |
| 2,4,5-T | (ND)\|ND | 0.99 | 0.49\|0.49 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.99 | 0.49\|0.49 |
| DALAPON | (ND)\|ND | 52 | 26\|26 |
| DICAMBA | (ND)\|ND | 7.0 | 3.5\|3.5 |
| DICHLOROPROP | (ND)\|ND | 14 | 7.0\|7.0 |
| DINOSEB | (ND)\|ND | 9.9 | 4.9\|4.9 |
| MCPA | (ND)\|ND | 1500 | 730\|730 |
| MCPP | (ND)\|ND | 1500 | 730\|730 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (192.8)\|150.6 | 174.6 | (110)\|86.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/31/12 11:20 |
| Sample ID: SL-043-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 15:54 |
| Lab Samp ID: C261-08 | Dilution Factor: 1 |
| Lab File ID: WD02017A | Matrix : SOIL |
| Ext Btch ID: HEC012S | % Moisture : 10.3 |
| Calib. Ref.: WD02006A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|2.1J | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.95\|0.95 |
| 2,4,5-T | 0.61\|(ND) | 0.19 | 0.095\|0.095 |
| 2,4,5-TP(SILVEX) | 0.45\|(ND) | 0.19 | 0.095\|0.095 |
| DALAPON | (ND)\|ND | 10 | 5.0\|5.0 |
| DICAMBA | (ND)\|1.8 | 1.3 | 0.67\|0.67 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.3\|1.3 |
| DINOSEB | (ND)\|1.7J | 1.9 | 0.95\|0.95 |
| MCPA | 270J\|(ND) | 280 | 140\|140 |
| MCPP | (ND)\|170J | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (145.1)\|111.1 | 167.2 | (86.8)\|66.5 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/31/12 11:20 |
| Sample ID: SL-050-NBZ-SS-0.0-0.5DL | Date Analyzed: 04/02/12 20:57 |
| Lab Samp ID: C261-09T | Dilution Factor: 5 |
| Lab File ID: WD02032A | Matrix : SOIL |
| Ext Btch ID: HEC012S | % Moisture : 8.4 |
| Calib. Ref.: WD02024A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | 11J\|(ND) | 20 | 9.8\|9.8 |
| 2,4-DB | (ND)\|ND | 9.3 | 4.6\|4.6 |
| 2,4,5-T | (ND)\|2.3 | 0.93 | 0.46\|0.46 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.93 | 0.46\|0.46 |
| DALAPON | (ND)\|ND | 49 | 25\|25 |
| DICAMBA | (ND)\|ND | 6.6 | 3.3\|3.3 |
| DICHLOROPROP | (ND)\|ND | 13 | 6.6\|6.6 |
| DINOSEB | (ND)\|ND | 9.3 | 4.6\|4.6 |
| MCPA | (ND)\|ND | 1400 | 680\|680 |
| MCPP | (ND)\|ND | 1400 | 680\|680 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (209.4)\|136.5 | 163.8 | (128)\|83.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/31/12 11:20 |
| Sample ID: SL-123-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 16:14 |
| Lab Samp ID: C261-11 | Dilution Factor: 1 |
| Lab File ID: WD02018A | Matrix : SOIL |
| Ext Btch ID: HEC012S | % Moisture : 15.1 |
| Calib. Ref.: WD02006A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | (ND)\|110 | 2.0 | 1.0\|1.0 |
| 2,4,5-T | 0.10J\|(ND) | 0.20 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | 0.36\|(ND) | 0.20 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.3\|5.3 |
| DICAMBA | (ND)\|ND | 1.4 | 0.71\|0.71 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| MCPA | (ND)\|ND | 290 | 150\|150 |
| MCPP | (ND)\|ND | 290 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (99.98)\|86.55 | 176.7 | (56.6)\|49.0 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/31/12 11:20 |
| Sample ID: SL-124-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 16:34 |
| Lab Samp ID: C261-12 | Dilution Factor: 1 |
| Lab File ID: WD02019A | Matrix : SOIL |
| Ext Btch ID: HEC012S | % Moisture : 25.6 |
| Calib. Ref.: WD02006A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.8 | 2.4\|2.4 |
| 2,4-DB | (ND)\|ND | 2.3 | 1.1\|1.1 |
| 2,4,5-T | 1.8\|(ND) | 0.23 | 0.11\|0.11 |
| 2,4,5-TP(SILVEX) | 0.24\|(ND) | 0.23 | 0.11\|0.11 |
| DALAPON | (ND)\|ND | 12 | 6.0\|6.0 |
| DICAMBA | (ND)\|ND | 1.6 | 0.81\|0.81 |
| DICHLOROPROP | (ND)\|ND | 3.2 | 1.6\|1.6 |
| DINOSEB | (ND)\|1.6J | 2.3 | 1.1\|1.1 |
| MCPA | (ND)\|ND | 340 | 170\|170 |
| MCPP | (ND)\|ND | 340 | 170\|170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (199.3)\|159.1 | 201.6 | (98.8)\|78.9 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/31/12 11:20 |
| Sample ID: SL-126-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 16:54 |
| Lab Samp ID: C261-13 | Dilution Factor: 1 |
| Lab File ID: WD02020A | Matrix : SOIL |
| Ext Btch ID: HEC012S | % Moisture : 16.6 |
| Calib. Ref.: WD02006A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|2.5J | 4.3 | 2.2\|2.2 |
| 2,4-DB | (ND)\|8.6 | 2.0 | 1.0\|1.0 |
| 2,4,5-T | 0.99\|(ND) | 0.20 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | 0.57\|(ND) | 0.20 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.4\|5.4 |
| DICAMBA | (ND)\|ND | 1.4 | 0.72\|0.72 |
| DICHLOROPROP | (ND)\|4.4 | 2.9 | 1.4\|1.4 |
| DINOSEB | (ND)\|2.0J | 2.0 | 1.0\|1.0 |
| MCPA | 2200\|(ND) | 300 | 150\|150 |
| MCPP | (ND)\|260J | 300 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (190.5)\|143.4 | 179.9 | (106)\|79.7 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/31/12 11:20 |
| Sample ID: SL-133-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 19:56 |
| Lab Samp ID: C261-14 | Dilution Factor: 1 |
| Lab File ID: WD02029A | Matrix : SOIL |
| Ext Btch ID: HEC012S | % Moisture : 13.6 |
| Calib. Ref.: WD02024A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 0.98\|0.98 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.098\|0.098 |
| 2,4,5-TP(SILVEX) | 1.0\|(ND) | 0.20 | 0.098\|0.098 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.69\|0.69 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 0.98\|0.98 |
| MCPA | (ND)\|ND | 290 | 140\|140 |
| MCPP | (ND)\|ND | 290 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (49.90)\|34.52 | 173.6 | (28.7)\|19.9 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/31/12 11:20 |
| Sample ID: SL-195-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 17:15 |
| Lab Samp ID: C261-15 | Dilution Factor: 1 |
| Lab File ID: WD02021A | Matrix : SOIL |
| Ext Btch ID: HEC012S | % Moisture : 11.7 |
| Calib. Ref.: WD02006A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.0\|2.0 |
| 2,4-DB | (ND)\|160 | 1.9 | 0.96\|0.96 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.096\|0.096 |
| 2,4,5-TP(SILVEX) | 0.49\|(ND) | 0.19 | 0.096\|0.096 |
| DALAPON | (ND)\|5.6J | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.68\|0.68 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (104.8)\|85.02 | 169.9 | (61.7)\|50.0 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 03/31/12 11:20 |
| Sample ID: SL-196-NBZ-SS-0.0-0.5 | Date Analyzed: 04/02/12 17:35 |
| Lab Samp ID: C261-16 | Dilution Factor: 1 |
| Lab File ID: WD02022A | Matrix : SOIL |
| Ext Btch ID: HEC012S | % Moisture : 17.6 |
| Calib. Ref.: WD02006A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|2.7J | 4.4 | 2.2\|2.2 |
| 2,4-DB | (ND)\|87 | 2.1 | 1.0\|1.0 |
| 2,4,5-T | 0.48\|(ND) | 0.21 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | 0.37\|(ND) | 0.21 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.5\|5.5 |
| DICAMBA | (ND)\|ND | 1.5 | 0.73\|0.73 |
| DICHLOROPROP | (ND)\|5.5 | 2.9 | 1.5\|1.5 |
| DINOSEB | (ND)\|ND | 2.1 | 1.0\|1.0 |
| MCPA | 1800\|(ND) | 300 | 150\|150 |
| MCPP | (ND)\|ND | 300 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (165.4)\|126.1 | 182.0 | (90.9)\|69.2 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/31/12 |
| Batch No. : 12C261 | Date Extracted: 03/31/12 11:20 |
| Sample ID: MBLK1S | Date Analyzed: 04/02/12 12:32 |
| Lab Samp ID: HEC012SB | Dilution Factor: 1 |
| Lab File ID: WD02007A | Matrix : SOIL |
| Ext Btch ID: HEC012S | % Moisture : NA |
| Calib. Ref.: WD02006A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | 0.42\|(ND) | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (152.1)\|124.2 | 150.0 | (101)\|82.8 | 10-150 |

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Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HEC012SB | HEC012SL | HEC012SC | | |
| LAB FILE ID: | WD02007A | WD02008A | WD02009A | | |
| DATE EXTRACTED: | 03/31/1211:20 | 03/31/1211:20 | 03/31/1211:20 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/02/1212:32 | 04/02/1212:52 | 04/02/1213:12 | DATE RECEIVED: | 03/31/12 |
| PREP. BATCH: | HEC012S | HEC012S | HEC012S | | |
| CALIB. REF: | WD02006A | WD02006A | WD02006A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND) \| ND | 15.0 | (15.2) \| 13.7 | (101) \| 91 | 15.0 | (15.8) \| 14.8 | (105) \| 99 | (4) \| 8 | 20-130 | 50 |
| 2,4-DB | (ND) \| ND | 15.0 | 12.3 \| (14.3) | 82 \| (95) | 15.0 | 11.7 \| (17.8) | 78 \| (119) | 5 \| (22) | 20-160 | 50 |
| 2,4,5-T | (ND) \| ND | 15.0 | 13.7 \| (14.6) | 91 \| (97) | 15.0 | 14.1 \| (15.2) | 94 \| (101) | 3 \| (4) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | 0.42 \| (ND) | 15.0 | 15.3 \| (15.8) | 102 \| (105) | 15.0 | (15.5) \| 15.5 | (103) \| 103 | (1) \| 2 | 30-140 | 50 |
| Dalapon | (ND) \| ND | 15.0 | 5.71J \| (9.90) | 38 \| (66) | 15.0 | 7.66J \| (7.80J) | 51 \| (52) | 29 \| (24) | 20-160 | 50 |
| Dicamba | (ND) \| ND | 15.0 | (13.7) \| 12.7 | (91) \| 85 | 15.0 | (13.6) \| 13.0 | (91) \| 87 | (1) \| 2 | 50-150 | 50 |
| Dichloroprop | (ND) \| ND | 15.0 | 16.0 \| (17.3) | 107 \| (115) | 15.0 | 16.6 \| (18.8) | 111 \| (125) | 4 \| (8) | 60-160 | 50 |
| Dinoseb | (ND) \| ND | 15.0 | (8.68) \| 7.74 | (58) \| 52 | 15.0 | 10.1 \| (11.4) | 67 \| (76) | 15 \| (38) | 20-130 | 50 |
| MCPA | (ND) \| ND | 750 | (1580) \| 786 | 211* \| (105) | 750 | 1560 \| (856) | 208* \| (114) | 1 \| (9) | 20-160 | 50 |
| MCPP | (ND) \| ND | 750 | (651) \| 426 | (87) \| 57 | 750 | (860) \| 448 | (115) \| 60 | (28) \| 5 | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 (154.9) \| 130.0 | (103) \| 86.7 | 150.0 | (158.5) \| 131.6 | (106) \| 87.7 | 10-150 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-045-NBZ-SS-0.0-0.5 | Date Analyzed: 04/03/12 18:31 |
| Lab Samp ID: C261-01 | Dilution Factor: 1 |
| Lab File ID: XD03006A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: XD03002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1820 | 2000 | 90.8 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-045-NBZ-SB-4.0-5.0 | Date Analyzed: 04/03/12 19:05 |
| Lab Samp ID: C261-03 | Dilution Factor: 1 |
| Lab File ID: XD03007A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: XD03002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1840 | 2000 | 92.1 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-046-NBZ-SS-0.0-0.5 | Date Analyzed: 04/03/12 19:39 |
| Lab Samp ID: C261-04 | Dilution Factor: 1 |
| Lab File ID: XD03008A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: XD03002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1920 | 2000 | 96.0 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-046-NBZ-SB-4.0-5.0 | Date Analyzed: 04/03/12 20:13 |
| Lab Samp ID: C261-06 | Dilution Factor: .99 |
| Lab File ID: XD03009A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: XD03002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1850 | 1980 | 93.2 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-042-NBZ-SS-0.0-0.5 | Date Analyzed: 04/03/12 20:47 |
| Lab Samp ID: C261-07 | Dilution Factor: .99 |
| Lab File ID: XD03010A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: XD03002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1830 | 1980 | 92.5 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-043-NBZ-SS-0.0-0.5 | Date Analyzed: 04/03/12 21:21 |
| Lab Samp ID: C261-08 | Dilution Factor: 1 |
| Lab File ID: XD03011A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: XD03002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1860 | 2000 | 93.1 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-050-NBZ-SS-0.0-0.5 | Date Analyzed: 04/03/12 21:56 |
| Lab Samp ID: C261-09 | Dilution Factor: 1 |
| Lab File ID: XD03012A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: XD03002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1830 | 2000 | 91.4 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 19:23 |
| Sample ID: MBLK1S | Date Analyzed: 04/03/12 16:49 |
| Lab Samp ID: EXD001SB | Dilution Factor: 1 |
| Lab File ID: XD03003A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: XD03002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1840 | 2000 | 91.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: METHOD 8330A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD001SB | EXD001SL | EXD001SC | | |
| LAB FILE ID: | XD03003A | XD03004A | XD03005A | | |
| DATE EXTRACTED: | 04/02/1219:23 | 04/02/1219:23 | 04/02/1219:23 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1216:49 | 04/03/1217:23 | 04/03/1217:57 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | EXD001S | EXD001S | EXD001S | | |
| CALIB. REF: | XD03002A | XD03002A | XD03002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 2120 | 106 | 2000 | 2130 | 106 | 0 | 70-130 | 50 |
| RDX | ND | 2000 | 2180 | 109 | 2000 | 2170 | 109 | 0 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2320 | 116 | 2000 | 2380 | 119 | 2 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2110 | 106 | 2000 | 2160 | 108 | 2 | 70-130 | 50 |
| Tetryl | ND | 2000 | 2460 | 123 | 2000 | 2500 | 125 | 1 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 1910 | 96 | 2000 | 1990 | 99 | 4 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 2130 | 106 | 2000 | 2170 | 108 | 2 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 2190 | 110 | 2000 | 2170 | 109 | 1 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 2110 | 106 | 2000 | 2080 | 104 | 2 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2150 | 107 | 2000 | 2210 | 110 | 3 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2250 | 113 | 2000 | 2240 | 112 | 1 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 2100 | 105 | 2000 | 2220 | 111 | 6 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 2080 | 104 | 2000 | 1940 | 97 | 7 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 2050 | 103 | 2000 | 2090 | 105 | 2 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1770 | 88 | 2000 | 1790 | 89 | 1 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2170 | 109 | 2000 | 2160 | 108 | 1 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1860 | 93 | 2000 | 1950 | 98 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| Batch No. | : 12C261 | Date Extracted | : 04/02/12 19:23 |
| Sample ID | : SL-045-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/03/12 16:39 |
| Lab Samp ID | : C261-01 | Dilution Factor | : 1 |
| Lab File ID | : PD03013A | Matrix | : SOIL |
| Ext Btch ID | : EXD001S | % Moisture | : NA |
| Calib. Ref. | : PD03009A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2370 | 2000 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-045-NBZ-SB-4.0-5.0 | Date Analyzed: 04/03/12 16:52 |
| Lab Samp ID: C261-03 | Dilution Factor: 1 |
| Lab File ID: PD03014A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: PD03009A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2420 | 2000 | 121 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| Batch No. | : 12C261 | Date Extracted | : 04/02/12 19:23 |
| Sample ID | : SL-046-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/03/12 17:06 |
| Lab Samp ID | : C261-04 | Dilution Factor | : 1 |
| Lab File ID | : PD03015A | Matrix | : SOIL |
| Ext Btch ID | : EXD001S | % Moisture | : NA |
| Calib. Ref. | : PD03009A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2710 | 2000 | 135 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| Batch No. | : 12C261 | Date Extracted | : 04/02/12 19:23 |
| Sample ID | : SL-046-NBZ-SB-4.0-5.0 | Date Analyzed | : 04/03/12 17:20 |
| Lab Samp ID | : C261-06 | Dilution Factor | : .99 |
| Lab File ID | : PD03016A | Matrix | : SOIL |
| Ext Btch ID | : EXD001S | % Moisture | : NA |
| Calib. Ref. | : PD03009A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2650 | 1980 | 134 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| Batch No. | : 12C261 | Date Extracted | : 04/02/12 19:23 |
| Sample ID | : SL-042-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/03/12 17:34 |
| Lab Samp ID | : C261-07 | Dilution Factor | : .99 |
| Lab File ID | : PD03017A | Matrix | : SOIL |
| Ext Btch ID | : EXD001S | % Moisture | : NA |
| Calib. Ref. | : PD03009A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2300 | 1980 | 116 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-043-NBZ-SS-0.0-0.5 | Date Analyzed: 04/03/12 17:48 |
| Lab Samp ID: C261-08 | Dilution Factor: 1 |
| Lab File ID: PD03018A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: PD03009A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2460 | 2000 | 123 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| Batch No. | : 12C261 | Date Extracted | : 04/02/12 19:23 |
| Sample ID | : SL-050-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/03/12 18:02 |
| Lab Samp ID | : C261-09 | Dilution Factor | : 1 |
| Lab File ID | : PD03019A | Matrix | : SOIL |
| Ext Btch ID | : EXD001S | % Moisture | : NA |
| Calib. Ref. | : PD03009A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2680 | 2000 | 134 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12C261 | Date Extracted: 04/02/12 19:23 |
| Sample ID: MBLK1S | Date Analyzed: 04/03/12 15:57 |
| Lab Samp ID: EXD001SB | Dilution Factor: 1 |
| Lab File ID: PD03010A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: PD03009A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2380 | 2000 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD001SB | EXD001SX | EXD001SY | | |
| LAB FILE ID: | PD03010A | PD03011A | PD03012A | | |
| DATE EXTRACTED: | 04/02/1219:23 | 04/02/1219:23 | 04/02/1219:23 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1215:57 | 04/03/1216:11 | 04/03/1216:25 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | EXD001S | EXD001S | EXD001S | | |
| CALIB. REF: | PD03009A | PD03009A | PD03009A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7550 | 101 | 7500 | 7410 | 99 | 2 | 50-150 | 50 |
| PETN | ND | 7500 | 7800 | 104 | 7500 | 7920 | 106 | 1 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2420 | 121 | 2000 | 2420 | 121 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| SDG NO. : 12C261 | Date Extracted: 04/03/12 11:19 |
| Sample ID: SL-045-NBZ-SS-0.0-0.5 | Date Analyzed: 04/04/12 16:47 |
| Lab Samp ID: C261-01 | Dilution Factor: 0.976 |
| Lab File ID: 98D01075 | Matrix : SOIL |
| Ext Btch ID: IMD006S | % Moisture : 7.7 |
| Calib. Ref.: 98D01068 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9860 | 25.4 | 12.7 |
| Antimony | 0.358 | 0.211 | 0.106 |
| Arsenic | 5.11 | 0.423 | 0.211 |
| Barium | 72.2 | 0.423 | 0.211 |
| Beryllium | 0.474 | 0.106 | 0.0529 |
| Boron | ND | 5.29 | 2.64 |
| Cadmium | 0.604 | 0.106 | 0.0529 |
| Calcium | 1840 | 21.1 | 10.6 |
| Chromium | 16.1 | 0.423 | 0.211 |
| Cobalt | 4.23 | 0.106 | 0.0529 |
| Copper | 9.13 | 0.423 | 0.211 |
| Iron | 16900 | 21.1 | 10.6 |
| Lead | 13.4 | 0.211 | 0.106 |
| Magnesium | 3520 | 10.6 | 5.29 |
| Manganese | 212 | 0.529 | 0.264 |
| Molybdenum | 0.929 | 0.106 | 0.0529 |
| Nickel | 10.5 | 0.423 | 0.211 |
| Potassium | 3080 | 63.4 | 31.7 |
| Selenium | ND | 0.423 | 0.211 |
| Silver | 1.68 | 0.106 | 0.0529 |
| Sodium | 64.6J | 106 | 52.9 |
| Strontium | 16.3 | 0.529 | 0.264 |
| Thallium | 0.217 | 0.106 | 0.0529 |
| Tin | ND | 10.6 | 5.29 |
| Titanium | 826 | 1.06 | 0.529 |
| Vanadium | 25.5 | 0.106 | 0.0529 |
| Zinc | 71.2 | 3.17 | 1.59 |
| Lithium | 17.2 | 2.11 | 1.06 |
| Phosphorus | 255 | 12.7 | 6.34 |
| Zirconium | ND | 5.29 | 2.64 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/26/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/26/12 |
| SDG NO. : 12C261 | Date Extracted: 04/03/12 11:19 |
| Sample ID: SL-045-NBZ-SB-4.0-5.0 | Date Analyzed: 04/05/12 15:09 |
| Lab Samp ID: C261-03 | Dilution Factor: 0.962 |
| Lab File ID: 98D02025 | Matrix : SOIL |
| Ext Btch ID: IMD006S | % Moisture : 4.9 |
| Calib. Ref.: 98D02023 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11200 | 24.3 | 12.1 |
| Antimony | 0.163J | 0.202 | 0.101 |
| Arsenic | 4.69 | 0.405 | 0.202 |
| Barium | 64.8 | 0.405 | 0.202 |
| Beryllium | 0.601 | 0.101 | 0.0506 |
| Boron | ND | 5.06 | 2.53 |
| Cadmium | 0.143 | 0.101 | 0.0506 |
| Calcium | 1400 | 20.2 | 10.1 |
| Chromium | 15.7 | 0.405 | 0.202 |
| Cobalt | 5.07 | 0.101 | 0.0506 |
| Copper | 6.15 | 0.405 | 0.202 |
| Iron | 20000 | 20.2 | 10.1 |
| Lead | 4.70 | 0.202 | 0.101 |
| Magnesium | 4340 | 10.1 | 5.06 |
| Manganese | 256 | 0.506 | 0.253 |
| Molybdenum | 2.35 | 0.101 | 0.0506 |
| Nickel | 10.2 | 0.405 | 0.202 |
| Potassium | 2030 | 60.7 | 30.3 |
| Selenium | 0.262J | 0.405 | 0.202 |
| Silver | 0.0631J | 0.101 | 0.0506 |
| Sodium | 86.0J | 101 | 50.6 |
| Strontium | 12.8 | 0.506 | 0.253 |
| Thallium | 0.271 | 0.101 | 0.0506 |
| Tin | ND | 10.1 | 5.06 |
| Titanium | 889 | 1.01 | 0.506 |
| Vanadium | 33.3 | 0.101 | 0.0506 |
| Zinc | 46.7 | 3.03 | 1.52 |
| Lithium | 25.0 | 2.02 | 1.01 |
| Phosphorus | 171 | 12.1 | 6.07 |
| Zirconium | ND | 5.06 | 2.53 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| SDG NO. | : 12C261 | Date Extracted | : 04/03/12 11:19 |
| Sample ID | : SL-046-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/05/12 15:14 |
| Lab Samp ID | : C261-04 | Dilution Factor | : 0.976 |
| Lab File ID | : 98D02026 | Matrix | : SOIL |
| Ext Btch ID | : IMD006S | % Moisture | : 15.0 |
| Calib. Ref. | : 98D02023 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 8620 | 27.6 | 13.8 |
| Antimony | 0.255 | 0.230 | 0.115 |
| Arsenic | 3.99 | 0.459 | 0.230 |
| Barium | 88.3 | 0.459 | 0.230 |
| Beryllium | 0.445 | 0.115 | 0.0574 |
| Boron | ND | 5.74 | 2.87 |
| Cadmium | 0.395 | 0.115 | 0.0574 |
| Calcium | 2540 | 23.0 | 11.5 |
| Chromium | 15.1 | 0.459 | 0.230 |
| Cobalt | 4.48 | 0.115 | 0.0574 |
| Copper | 8.22 | 0.459 | 0.230 |
| Iron | 18200 | 23.0 | 11.5 |
| Lead | 12.9 | 0.230 | 0.115 |
| Magnesium | 3790 | 11.5 | 5.74 |
| Manganese | 290 | 0.574 | 0.287 |
| Molybdenum | 0.705 | 0.115 | 0.0574 |
| Nickel | 9.77 | 0.459 | 0.230 |
| Potassium | 3530 | 68.9 | 34.4 |
| Selenium | ND | 0.459 | 0.230 |
| Silver | 0.393 | 0.115 | 0.0574 |
| Sodium | ND | 115 | 57.4 |
| Strontium | 18.7 | 0.574 | 0.287 |
| Thallium | 0.227 | 0.115 | 0.0574 |
| Tin | ND | 11.5 | 5.74 |
| Titanium | 797 | 1.15 | 0.574 |
| Vanadium | 28.6 | 0.115 | 0.0574 |
| Zinc | 65.2 | 3.44 | 1.72 |
| Lithium | 18.5 | 2.30 | 1.15 |
| Phosphorus | 379 | 13.8 | 6.89 |
| Zirconium | ND | 5.74 | 2.87 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| SDG NO. | : 12C261 | Date Extracted | : 04/03/12 11:19 |
| Sample ID | : SL-046-NBZ-SB-4.0-5.0 | Date Analyzed | : 04/05/12 15:18 |
| Lab Samp ID | : C261-06 | Dilution Factor | : 0.985 |
| Lab File ID | : 98D02027 | Matrix | : SOIL |
| Ext Btch ID | : IMD006S | % Moisture | : 5.4 |
| Calib. Ref. | : 98D02023 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11800 | 25.0 | 12.5 |
| Antimony | 0.154J | 0.208 | 0.104 |
| Arsenic | 5.18 | 0.416 | 0.208 |
| Barium | 53.2 | 0.416 | 0.208 |
| Beryllium | 0.610 | 0.104 | 0.0521 |
| Boron | 2.87J | 5.21 | 2.60 |
| Cadmium | 0.116 | 0.104 | 0.0521 |
| Calcium | 1110 | 20.8 | 10.4 |
| Chromium | 17.8 | 0.416 | 0.208 |
| Cobalt | 6.56 | 0.104 | 0.0521 |
| Copper | 5.27 | 0.416 | 0.208 |
| Iron | 22200 | 20.8 | 10.4 |
| Lead | 5.84 | 0.208 | 0.104 |
| Magnesium | 4400 | 10.4 | 5.21 |
| Manganese | 267 | 0.521 | 0.260 |
| Molybdenum | 0.975 | 0.104 | 0.0521 |
| Nickel | 8.78 | 0.416 | 0.208 |
| Potassium | 1850 | 62.5 | 31.2 |
| Selenium | 0.447 | 0.416 | 0.208 |
| Silver | ND | 0.104 | 0.0521 |
| Sodium | 208 | 104 | 52.1 |
| Strontium | 10.7 | 0.521 | 0.260 |
| Thallium | 0.264 | 0.104 | 0.0521 |
| Tin | ND | 10.4 | 5.21 |
| Titanium | 952 | 1.04 | 0.521 |
| Vanadium | 35.8 | 0.104 | 0.0521 |
| Zinc | 42.6 | 3.12 | 1.56 |
| Lithium | 25.7 | 2.08 | 1.04 |
| Phosphorus | 169 | 12.5 | 6.25 |
| Zirconium | ND | 5.21 | 2.60 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| SDG NO. | : 12C261 | Date Extracted | : 04/03/12 11:19 |
| Sample ID | : SL-042-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/05/12 15:23 |
| Lab Samp ID | : C261-07 | Dilution Factor | : 1.00 |
| Lab File ID | : 98D02028 | Matrix | : SOIL |
| Ext Btch ID | : IMD006S | % Moisture | : 14.1 |
| Calib. Ref. | : 98D02023 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 7840 | 27.9 | 14.0 |
| Antimony | 1.43 | 0.233 | 0.116 |
| Arsenic | 3.50 | 0.466 | 0.233 |
| Barium | 91.2 | 0.466 | 0.233 |
| Beryllium | 0.418 | 0.116 | 0.0582 |
| Boron | 3.61J | 5.82 | 2.91 |
| Cadmium | 0.767 | 0.116 | 0.0582 |
| Calcium | 2950 | 23.3 | 11.6 |
| Chromium | 35.2 | 0.466 | 0.233 |
| Cobalt | 5.32 | 0.116 | 0.0582 |
| Copper | 10.3 | 0.466 | 0.233 |
| Iron | 16500 | 23.3 | 11.6 |
| Lead | 121 | 0.233 | 0.116 |
| Magnesium | 3130 | 11.6 | 5.82 |
| Manganese | 266 | 0.582 | 0.291 |
| Molybdenum | 1.11 | 0.116 | 0.0582 |
| Nickel | 61.4 | 0.466 | 0.233 |
| Potassium | 3520 | 69.8 | 34.9 |
| Selenium | ND | 0.466 | 0.233 |
| Silver | 0.0653J | 0.116 | 0.0582 |
| Sodium | 59.3J | 116 | 58.2 |
| Strontium | 17.6 | 0.582 | 0.291 |
| Thallium | 0.189 | 0.116 | 0.0582 |
| Tin | ND | 11.6 | 5.82 |
| Titanium | 736 | 1.16 | 0.582 |
| Vanadium | 28.1 | 0.116 | 0.0582 |
| Zinc | 125 | 3.49 | 1.75 |
| Lithium | 14.7 | 2.33 | 1.16 |
| Phosphorus | 331 | 14.0 | 6.98 |
| Zirconium | ND | 5.82 | 2.91 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| SDG NO. | : 12C261 | Date Extracted | : 04/03/12 11:19 |
| Sample ID | : SL-043-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/05/12 15:27 |
| Lab Samp ID | : C261-08 | Dilution Factor | : 0.990 |
| Lab File ID | : 98D02029 | Matrix | : SOIL |
| Ext Btch ID | : IMD006S | % Moisture | : 10.3 |
| Calib. Ref. | : 98D02023 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 8470 | 26.5 | 13.2 |
| Antimony | 0.197J | 0.221 | 0.110 |
| Arsenic | 4.43 | 0.441 | 0.221 |
| Barium | 55.2 | 0.441 | 0.221 |
| Beryllium | 0.372 | 0.110 | 0.0552 |
| Boron | ND | 5.52 | 2.76 |
| Cadmium | 0.138 | 0.110 | 0.0552 |
| Calcium | 1810 | 22.1 | 11.0 |
| Chromium | 14.1 | 0.441 | 0.221 |
| Cobalt | 4.50 | 0.110 | 0.0552 |
| Copper | 6.10 | 0.441 | 0.221 |
| Iron | 17900 | 22.1 | 11.0 |
| Lead | 7.22 | 0.221 | 0.110 |
| Magnesium | 3970 | 11.0 | 5.52 |
| Manganese | 223 | 0.552 | 0.276 |
| Molybdenum | 0.383 | 0.110 | 0.0552 |
| Nickel | 8.18 | 0.441 | 0.221 |
| Potassium | 2550 | 66.2 | 33.1 |
| Selenium | 0.336J | 0.441 | 0.221 |
| Silver | 0.0712J | 0.110 | 0.0552 |
| Sodium | ND | 110 | 55.2 |
| Strontium | 11.2 | 0.552 | 0.276 |
| Thallium | 0.215 | 0.110 | 0.0552 |
| Tin | ND | 11.0 | 5.52 |
| Titanium | 818 | 1.10 | 0.552 |
| Vanadium | 30.1 | 0.110 | 0.0552 |
| Zinc | 45.0 | 3.31 | 1.66 |
| Lithium | 20.6 | 2.21 | 1.10 |
| Phosphorus | 208 | 13.2 | 6.62 |
| Zirconium | ND | 5.52 | 2.76 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| SDG NO. | : 12C261 | Date Extracted | : 04/03/12 11:19 |
| Sample ID | : SL-050-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/05/12 15:32 |
| Lab Samp ID | : C261-09 | Dilution Factor | : 0.971 |
| Lab File ID | : 98D02030 | Matrix | : SOIL |
| Ext Btch ID | : IMD006S | % Moisture | : 8.4 |
| Calib. Ref. | : 98D02023 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 8400 | 25.4 | 12.7 |
| Antimony | 0.174J | 0.212 | 0.106 |
| Arsenic | 5.25 | 0.424 | 0.212 |
| Barium | 80.7 | 0.424 | 0.212 |
| Beryllium | 0.439 | 0.106 | 0.0530 |
| Boron | ND | 5.30 | 2.65 |
| Cadmium | 0.316 | 0.106 | 0.0530 |
| Calcium | 2350 | 21.2 | 10.6 |
| Chromium | 13.4 | 0.424 | 0.212 |
| Cobalt | 4.50 | 0.106 | 0.0530 |
| Copper | 7.34 | 0.424 | 0.212 |
| Iron | 16800 | 21.2 | 10.6 |
| Lead | 9.73 | 0.212 | 0.106 |
| Magnesium | 3490 | 10.6 | 5.30 |
| Manganese | 245 | 0.530 | 0.265 |
| Molybdenum | 0.567 | 0.106 | 0.0530 |
| Nickel | 9.49 | 0.424 | 0.212 |
| Potassium | 3340 | 63.6 | 31.8 |
| Selenium | ND | 0.424 | 0.212 |
| Silver | 0.0844J | 0.106 | 0.0530 |
| Sodium | ND | 106 | 53.0 |
| Strontium | 17.3 | 0.530 | 0.265 |
| Thallium | 0.237 | 0.106 | 0.0530 |
| Tin | ND | 10.6 | 5.30 |
| Titanium | 756 | 1.06 | 0.530 |
| Vanadium | 28.6 | 0.106 | 0.0530 |
| Zinc | 109 | 3.18 | 1.59 |
| Lithium | 17.5 | 2.12 | 1.06 |
| Phosphorus | 304 | 12.7 | 6.36 |
| Zirconium | ND | 5.30 | 2.65 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| SDG NO. | : 12C261 | Date Extracted | : 04/03/12 11:19 |
| Sample ID | : SL-123-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/05/12 15:36 |
| Lab Samp ID | : C261-11 | Dilution Factor | : 0.922 |
| Lab File ID | : 98D02031 | Matrix | : SOIL |
| Ext Btch ID | : IMD006S | % Moisture | : 15.1 |
| Calib. Ref. | : 98D02023 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9540 | 26.1 | 13.0 |
| Antimony | 0.159J | 0.217 | 0.109 |
| Arsenic | 2.99 | 0.434 | 0.217 |
| Barium | 94.3 | 0.434 | 0.217 |
| Beryllium | 0.526 | 0.109 | 0.0543 |
| Boron | ND | 5.43 | 2.71 |
| Cadmium | 0.219 | 0.109 | 0.0543 |
| Calcium | 1990 | 21.7 | 10.9 |
| Chromium | 11.0 | 0.434 | 0.217 |
| Cobalt | 4.21 | 0.109 | 0.0543 |
| Copper | 6.18 | 0.434 | 0.217 |
| Iron | 17500 | 21.7 | 10.9 |
| Lead | 8.41 | 0.217 | 0.109 |
| Magnesium | 3260 | 10.9 | 5.43 |
| Manganese | 279 | 0.543 | 0.271 |
| Molybdenum | 0.560 | 0.109 | 0.0543 |
| Nickel | 7.78 | 0.434 | 0.217 |
| Potassium | 3470 | 65.2 | 32.6 |
| Selenium | ND | 0.434 | 0.217 |
| Silver | ND | 0.109 | 0.0543 |
| Sodium | 58.9J | 109 | 54.3 |
| Strontium | 18.6 | 0.543 | 0.271 |
| Thallium | 0.227 | 0.109 | 0.0543 |
| Tin | ND | 10.9 | 5.43 |
| Titanium | 806 | 1.09 | 0.543 |
| Vanadium | 23.9 | 0.109 | 0.0543 |
| Zinc | 51.1 | 3.26 | 1.63 |
| Lithium | 22.1 | 2.17 | 1.09 |
| Phosphorus | 343 | 13.0 | 6.52 |
| Zirconium | ND | 5.43 | 2.71 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| SDG NO. | : 12C261 | Date Extracted | : 04/03/12 11:19 |
| Sample ID | : SL-124-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/05/12 15:41 |
| Lab Samp ID | : C261-12 | Dilution Factor | : 0.976 |
| Lab File ID | : 98D02032 | Matrix | : SOIL |
| Ext Btch ID | : IMD006S | % Moisture | : 25.6 |
| Calib. Ref. | : 98D02023 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 13000 | 31.5 | 15.7 |
| Antimony | 0.291 | 0.262 | 0.131 |
| Arsenic | 6.27 | 0.525 | 0.262 |
| Barium | 99.5 | 0.525 | 0.262 |
| Beryllium | 0.687 | 0.131 | 0.0656 |
| Boron | ND | 6.56 | 3.28 |
| Cadmium | 0.287 | 0.131 | 0.0656 |
| Calcium | 3440 | 26.2 | 13.1 |
| Chromium | 23.3 | 0.525 | 0.262 |
| Cobalt | 7.97 | 0.131 | 0.0656 |
| Copper | 13.1 | 0.525 | 0.262 |
| Iron | 28400 | 26.2 | 13.1 |
| Lead | 13.2 | 0.262 | 0.131 |
| Magnesium | 7400 | 13.1 | 6.56 |
| Manganese | 638 | 0.656 | 0.328 |
| Molybdenum | 0.674 | 0.131 | 0.0656 |
| Nickel | 15.5 | 0.525 | 0.262 |
| Potassium | 3280 | 78.7 | 39.4 |
| Selenium | ND | 0.525 | 0.262 |
| Silver | ND | 0.131 | 0.0656 |
| Sodium | 82.0J | 131 | 65.6 |
| Strontium | 11.9 | 0.656 | 0.328 |
| Thallium | 0.354 | 0.131 | 0.0656 |
| Tin | ND | 13.1 | 6.56 |
| Titanium | 1300 | 1.31 | 0.656 |
| Vanadium | 46.2 | 0.131 | 0.0656 |
| Zinc | 76.5 | 3.94 | 1.97 |
| Lithium | 36.1 | 2.62 | 1.31 |
| Phosphorus | 648 | 15.7 | 7.87 |
| Zirconium | ND | 6.56 | 3.28 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| SDG NO. | : 12C261 | Date Extracted | : 04/03/12 11:19 |
| Sample ID | : SL-126-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/05/12 15:45 |
| Lab Samp ID | : C261-13 | Dilution Factor | : 1.00 |
| Lab File ID | : 98D02033 | Matrix | : SOIL |
| Ext Btch ID | : IMD006S | % Moisture | : 16.6 |
| Calib. Ref. | : 98D02023 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9380 | 28.8 | 14.4 |
| Antimony | 0.215J | 0.240 | 0.120 |
| Arsenic | 3.12 | 0.480 | 0.240 |
| Barium | 77.0 | 0.480 | 0.240 |
| Beryllium | 0.346 | 0.120 | 0.0600 |
| Boron | ND | 6.00 | 3.00 |
| Cadmium | 0.238 | 0.120 | 0.0600 |
| Calcium | 3220 | 24.0 | 12.0 |
| Chromium | 16.3 | 0.480 | 0.240 |
| Cobalt | 5.09 | 0.120 | 0.0600 |
| Copper | 8.05 | 0.480 | 0.240 |
| Iron | 19300 | 24.0 | 12.0 |
| Lead | 19.9 | 0.240 | 0.120 |
| Magnesium | 5770 | 12.0 | 6.00 |
| Manganese | 290 | 0.600 | 0.300 |
| Molybdenum | 0.403 | 0.120 | 0.0600 |
| Nickel | 11.0 | 0.480 | 0.240 |
| Potassium | 2930 | 71.9 | 36.0 |
| Selenium | ND | 0.480 | 0.240 |
| Silver | ND | 0.120 | 0.0600 |
| Sodium | ND | 120 | 60.0 |
| Strontium | 8.99 | 0.600 | 0.300 |
| Thallium | 0.212 | 0.120 | 0.0600 |
| Tin | ND | 12.0 | 6.00 |
| Titanium | 897 | 1.20 | 0.600 |
| Vanadium | 35.5 | 0.120 | 0.0600 |
| Zinc | 61.0 | 3.60 | 1.80 |
| Lithium | 25.6 | 2.40 | 1.20 |
| Phosphorus | 450 | 14.4 | 7.19 |
| Zirconium | ND | 6.00 | 3.00 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| SDG NO. | : 12C261 | Date Extracted | : 04/03/12 11:19 |
| Sample ID | : SL-133-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/04/12 15:07 |
| Lab Samp ID | : C261-14 | Dilution Factor | : 0.943 |
| Lab File ID | : 98D01053 | Matrix | : SOIL |
| Ext Btch ID | : IMD006S | % Moisture | : 13.6 |
| Calib. Ref. | : 98D01047 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9800 | 26.2 | 13.1 |
| Antimony | 0.260 | 0.218 | 0.109 |
| Arsenic | 3.93 | 0.437 | 0.218 |
| Barium | 90.4 | 0.437 | 0.218 |
| Beryllium | 0.423 | 0.109 | 0.0546 |
| Boron | 2.80J | 5.46 | 2.73 |
| Cadmium | 0.216 | 0.109 | 0.0546 |
| Calcium | 4180 | 21.8 | 10.9 |
| Chromium | 15.6 | 0.437 | 0.218 |
| Cobalt | 5.11 | 0.109 | 0.0546 |
| Copper | 8.03 | 0.437 | 0.218 |
| Iron | 18400 | 21.8 | 10.9 |
| Lead | 12.7 | 0.218 | 0.109 |
| Magnesium | 5380 | 10.9 | 5.46 |
| Manganese | 281 | 0.546 | 0.273 |
| Molybdenum | 0.414 | 0.109 | 0.0546 |
| Nickel | 10.2 | 0.437 | 0.218 |
| Potassium | 3610 | 65.5 | 32.7 |
| Selenium | ND | 0.437 | 0.218 |
| Silver | ND | 0.109 | 0.0546 |
| Sodium | ND | 109 | 54.6 |
| Strontium | 17.2 | 0.546 | 0.273 |
| Thallium | 0.223 | 0.109 | 0.0546 |
| Tin | ND | 10.9 | 5.46 |
| Titanium | 870 | 1.09 | 0.546 |
| Vanadium | 33.6 | 0.109 | 0.0546 |
| Zinc | 57.3 | 3.27 | 1.64 |
| Lithium | 20.7 | 2.18 | 1.09 |
| Phosphorus | 556 | 13.1 | 6.55 |
| Zirconium | ND | 5.46 | 2.73 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| SDG NO. | : 12C261 | Date Extracted | : 04/03/12 11:19 |
| Sample ID | : SL-195-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/04/12 15:11 |
| Lab Samp ID | : C261-15 | Dilution Factor | : 0.990 |
| Lab File ID | : 98D01054 | Matrix | : SOIL |
| Ext Btch ID | : IMD006S | % Moisture | : 11.7 |
| Calib. Ref. | : 98D01047 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9230 | 26.9 | 13.5 |
| Antimony | 0.180J | 0.224 | 0.112 |
| Arsenic | 3.87 | 0.448 | 0.224 |
| Barium | 80.7 | 0.448 | 0.224 |
| Beryllium | 0.386 | 0.112 | 0.0561 |
| Boron | ND | 5.61 | 2.80 |
| Cadmium | 0.212 | 0.112 | 0.0561 |
| Calcium | 2510 | 22.4 | 11.2 |
| Chromium | 15.0 | 0.448 | 0.224 |
| Cobalt | 4.72 | 0.112 | 0.0561 |
| Copper | 7.22 | 0.448 | 0.224 |
| Iron | 17200 | 22.4 | 11.2 |
| Lead | 7.31 | 0.224 | 0.112 |
| Magnesium | 4790 | 11.2 | 5.61 |
| Manganese | 261 | 0.561 | 0.280 |
| Molybdenum | 0.388 | 0.112 | 0.0561 |
| Nickel | 9.79 | 0.448 | 0.224 |
| Potassium | 3510 | 67.3 | 33.6 |
| Selenium | ND | 0.448 | 0.224 |
| Silver | ND | 0.112 | 0.0561 |
| Sodium | ND | 112 | 56.1 |
| Strontium | 12.4 | 0.561 | 0.280 |
| Thallium | 0.202 | 0.112 | 0.0561 |
| Tin | ND | 11.2 | 5.61 |
| Titanium | 824 | 1.12 | 0.561 |
| Vanadium | 30.7 | 0.112 | 0.0561 |
| Zinc | 49.9 | 3.36 | 1.68 |
| Lithium | 20.3 | 2.24 | 1.12 |
| Phosphorus | 443 | 13.5 | 6.73 |
| Zirconium | ND | 5.61 | 2.80 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/26/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/26/12 |
| SDG NO. | : 12C261 | Date Extracted | : 04/03/12 11:19 |
| Sample ID | : SL-196-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/04/12 16:38 |
| Lab Samp ID | : C261-16 | Dilution Factor | : 0.966 |
| Lab File ID | : 98D01073 | Matrix | : SOIL |
| Ext Btch ID | : IMD006S | % Moisture | : 17.6 |
| Calib. Ref. | : 98D01068 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9990 | 28.1 | 14.1 |
| Antimony | 0.244 | 0.234 | 0.117 |
| Arsenic | 2.98 | 0.469 | 0.234 |
| Barium | 83.2 | 0.469 | 0.234 |
| Beryllium | 0.370 | 0.117 | 0.0586 |
| Boron | ND | 5.86 | 2.93 |
| Cadmium | 0.247 | 0.117 | 0.0586 |
| Calcium | 2930 | 23.4 | 11.7 |
| Chromium | 15.8 | 0.469 | 0.234 |
| Cobalt | 5.06 | 0.117 | 0.0586 |
| Copper | 7.40 | 0.469 | 0.234 |
| Iron | 19100 | 23.4 | 11.7 |
| Lead | 12.2 | 0.234 | 0.117 |
| Magnesium | 6000 | 11.7 | 5.86 |
| Manganese | 271 | 0.586 | 0.293 |
| Molybdenum | 0.445 | 0.117 | 0.0586 |
| Nickel | 9.89 | 0.469 | 0.234 |
| Potassium | 3500 | 70.3 | 35.2 |
| Selenium | ND | 0.469 | 0.234 |
| Silver | ND | 0.117 | 0.0586 |
| Sodium | ND | 117 | 58.6 |
| Strontium | 12.6 | 0.586 | 0.293 |
| Thallium | 0.216 | 0.117 | 0.0586 |
| Tin | ND | 11.7 | 5.86 |
| Titanium | 930 | 1.17 | 0.586 |
| Vanadium | 33.1 | 0.117 | 0.0586 |
| Zinc | 54.8 | 3.52 | 1.76 |
| Lithium | 23.4 | 2.34 | 1.17 |
| Phosphorus | 493 | 14.1 | 7.03 |
| Zirconium | ND | 5.86 | 2.93 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| SDG NO. : 12C261 | Date Extracted: 04/03/12 11:19 |
| Sample ID: MBLK1S | Date Analyzed: 04/04/12 15:57 |
| Lab Samp ID: IMD006SB | Dilution Factor: 1 |
| Lab File ID: 98D01064 | Matrix : SOIL |
| Ext Btch ID: IMD006S | % Moisture : NA |
| Calib. Ref.: 98D01059 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C261
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IMD006SB | IMD006SL | IMD006SC | | |
| LAB FILE ID: | 98D01064 | 98D01065 | 98D01066 | | |
| DATIME EXTRCTD: | 04/03/1211:19 | 04/03/1211:19 | 04/03/1211:19 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/04/1215:57 | 04/04/1216:02 | 04/04/1216:07 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | IMD006S | IMD006S | IMD006S | | |
| CALIB. REF: | 98D01059 | 98D01059 | 98D01059 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2590 | 104 | 2500 | 2660 | 106 | 3 | 80-120 | 20 |
| Antimony | ND | 25.0 | 25.8 | 103 | 25.0 | 26.3 | 105 | 2 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 24.9 | 100 | 25.0 | 25.3 | 101 | 1 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.6 | 102 | 25.0 | 26.1 | 104 | 2 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 24.8 | 99 | 25.0 | 24.7 | 99 | 0 | 80-120 | 20 |
| Boron | ND | 25.0 | 26.0 | 104 | 25.0 | 25.9 | 103 | 1 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 25.3 | 101 | 25.0 | 25.8 | 103 | 2 | 80-120 | 20 |
| Calcium | ND | 2500 | 2740 | 109 | 2500 | 2770 | 111 | 1 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.4 | 97 | 25.0 | 25.0 | 100 | 3 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 24.9 | 100 | 25.0 | 25.6 | 103 | 3 | 80-120 | 20 |
| Copper | ND | 25.0 | 23.7 | 95 | 25.0 | 24.3 | 97 | 3 | 80-120 | 20 |
| Iron | ND | 2500 | 2620 | 105 | 2500 | 2680 | 107 | 2 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.0 | 100 | 25.0 | 25.5 | 102 | 2 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2590 | 103 | 2500 | 2650 | 106 | 2 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.1 | 101 | 25.0 | 25.5 | 102 | 1 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 25.4 | 102 | 25.0 | 26.1 | 104 | 3 | 80-120 | 20 |
| Nickel | ND | 25.0 | 23.8 | 95 | 25.0 | 24.4 | 98 | 3 | 80-120 | 20 |
| Potassium | ND | 2500 | 2770 | 111 | 2500 | 2830 | 113 | 2 | 80-120 | 20 |
| Selenium | ND | 25.0 | 24.5 | 98 | 25.0 | 24.8 | 99 | 1 | 80-120 | 20 |
| Silver | ND | 25.0 | 25.4 | 102 | 25.0 | 26.4 | 106 | 4 | 80-120 | 20 |
| Sodium | ND | 2500 | 2480 | 99 | 2500 | 2510 | 101 | 1 | 80-120 | 20 |
| Strontium | ND | 25.0 | 26.4 | 106 | 25.0 | 26.9 | 108 | 2 | 80-120 | 20 |
| Thallium | ND | 25.0 | 25.4 | 102 | 25.0 | 25.7 | 103 | 1 | 80-120 | 20 |
| Tin | ND | 25.0 | 27.5 | 110 | 25.0 | 27.9 | 112 | 1 | 80-120 | 20 |
| Titanium | ND | 25.0 | 25.3 | 101 | 25.0 | 26.0 | 104 | 2 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 24.6 | 99 | 25.0 | 25.3 | 101 | 2 | 80-120 | 20 |
| Zinc | ND | 50.0 | 48.7 | 97 | 50.0 | 49.6 | 99 | 2 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.7 | 103 | 25.0 | 26.0 | 104 | 1 | 80-120 | 20 |
| Phosphorus | ND | 250 | 249 | 99 | 250 | 255 | 102 | 2 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 25.8 | 103 | 25.0 | 26.2 | 105 | 2 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C261
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 17.6

| | | | | | |
|---|---|---|---|---|---|
| DILTN FACTR: | 0.966 | 0.985 | 0.990 | | |
| SAMPLE ID: | SL-196-NBZ-SS-0.0-0.5 | | | | |
| CONTROL NO.: | C261-16 | C261-16M | C261-16S | | |
| LAB FILE ID: | 98D01073 | 98D01070 | 98D01071 | | |
| DATIME EXTRCTD: | 04/03/1211:19 | 04/03/1211:19 | 04/03/1211:19 | DATE COLLECTED: | 03/26/12 |
| DATIME ANALYZD: | 04/04/1216:38 | 04/04/1216:25 | 04/04/1216:29 | DATE RECEIVED: | 03/26/12 |
| PREP. BATCH: | IMD006S | IMD006S | IMD006S | | |
| CALIB. REF: | 98D01068 | 98D01068 | 98D01068 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 9990 | 2990 | 12700 | 92 | 3000 | 12600 | 86 | 1 | 75-125 | 20 |
| Antimony | 0.244 | 29.9 | 24.3 | 80 | 30.0 | 24.4 | 80 | 1 | 75-125 | 20 |
| Arsenic | 2.98 | 29.9 | 29.9 | 90 | 30.0 | 30.1 | 90 | 0 | 75-125 | 20 |
| Barium | 83.2 | 29.9 | 116 | 110 | 30.0 | 113 | 100 | 2 | 75-125 | 20 |
| Beryllium | 0.370 | 29.9 | 28.8 | 95 | 30.0 | 28.8 | 95 | 0 | 75-125 | 20 |
| Boron | ND | 29.9 | 29.4 | 98 | 30.0 | 29.4 | 98 | 0 | 75-125 | 20 |
| Cadmium | 0.247 | 29.9 | 28.3 | 94 | 30.0 | 28.9 | 95 | 2 | 75-125 | 20 |
| Calcium | 2930 | 2990 | 5830 | 97 | 3000 | 5710 | 93 | 2 | 75-125 | 20 |
| Chromium | 15.8 | 29.9 | 40.3 | 82 | 30.0 | 40.5 | 82 | 0 | 75-125 | 20 |
| Cobalt | 5.06 | 29.9 | 31.6 | 89 | 30.0 | 31.2 | 87 | 1 | 75-125 | 20 |
| Copper | 7.40 | 29.9 | 31.0 | 79 | 30.0 | 31.1 | 79 | 1 | 75-125 | 20 |
| Iron | 19100 | 2990 | 21000 | 62* | 3000 | 21100 | 64* | 0 | 75-125 | 20 |
| Lead | 12.2 | 29.9 | 40.0 | 93 | 30.0 | 39.6 | 91 | 1 | 75-125 | 20 |
| Magnesium | 6000 | 2990 | 8630 | 88 | 3000 | 8620 | 87 | 0 | 75-125 | 20 |
| Manganese | 271 | 29.9 | 304 | 112 | 30.0 | 290 | 64* | 5 | 75-125 | 20 |
| Molybdenum | 0.445 | 29.9 | 29.2 | 96 | 30.0 | 29.9 | 98 | 3 | 75-125 | 20 |
| Nickel | 9.89 | 29.9 | 33.7 | 80 | 30.0 | 34.0 | 80 | 1 | 75-125 | 20 |
| Potassium | 3500 | 2990 | 6320 | 94 | 3000 | 6400 | 96 | 1 | 75-125 | 20 |
| Selenium | ND | 29.9 | 27.5 | 92 | 30.0 | 28.4 | 94 | 3 | 75-125 | 20 |
| Silver | ND | 29.9 | 28.5 | 95 | 30.0 | 29.2 | 97 | 2 | 75-125 | 20 |
| Sodium | ND | 2990 | 2690 | 90 | 3000 | 2670 | 89 | 1 | 75-125 | 20 |
| Strontium | 12.6 | 29.9 | 41.5 | 97 | 30.0 | 41.7 | 97 | 0 | 75-125 | 20 |
| Thallium | 0.216 | 29.9 | 28.0 | 93 | 30.0 | 28.2 | 93 | 1 | 75-125 | 20 |
| Tin | ND | 29.9 | 31.1 | 104 | 30.0 | 31.5 | 105 | 1 | 75-125 | 20 |
| Titanium | 930 | 29.9 | 969 | 129* | 30.0 | 928 | -7* | 4 | 75-125 | 20 |
| Vanadium | 33.1 | 29.9 | 57.6 | 82 | 30.0 | 57.8 | 82 | 0 | 75-125 | 20 |
| Zinc | 54.8 | 59.8 | 108 | 90 | 60.1 | 108 | 88 | 1 | 75-125 | 20 |
| Lithium | 23.4 | 29.9 | 53.2 | 100 | 30.0 | 52.6 | 97 | 1 | 75-125 | 20 |
| Phosphorus | 493 | 299 | 761 | 90 | 300 | 746 | 84 | 2 | 75-125 | 20 |
| Zirconium | ND | 29.9 | 12.9 | 43* | 30.0 | 12.6 | 42* | 3 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C261
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 17.6
DILTN FACTR: 0.966 0.966
SAMPLE ID: SL-196-NBZ-SS-0.0-0.5
CONTROL NO.: C261-16 C261-16A
LAB FILE ID: 98D01073 98D01072
DATIME EXTRCTD: 04/03/1211:19 04/03/1211:19 DATE COLLECTED: 03/26/12
DATIME ANALYZD: 04/04/1216:38 04/04/1216:34 DATE RECEIVED: 03/26/12
PREP. BATCH: IMD006S IMD006S
CALIB. REF: 98D01068 98D01068

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 9990 | 2930 | 12800 | 95 | 75-125 |
| Antimony | 0.244 | 29.3 | 28.9 | 98 | 75-125 |
| Arsenic | 2.98 | 29.3 | 30.4 | 93 | 75-125 |
| Barium | 83.2 | 29.3 | 116 | 112 | 75-125 |
| Beryllium | 0.370 | 29.3 | 28.1 | 95 | 75-125 |
| Boron | ND | 29.3 | 30.0 | 102 | 75-125 |
| Cadmium | 0.247 | 29.3 | 28.1 | 95 | 75-125 |
| Calcium | 2930 | 2930 | 5750 | 96 | 75-125 |
| Chromium | 15.8 | 29.3 | 40.6 | 85 | 75-125 |
| Cobalt | 5.06 | 29.3 | 30.2 | 86 | 75-125 |
| Copper | 7.40 | 29.3 | 31.0 | 80 | 75-125 |
| Iron | 19100 | 2930 | 21600 | 84 | 75-125 |
| Lead | 12.2 | 29.3 | 39.7 | 94 | 75-125 |
| Magnesium | 6000 | 2930 | 8680 | 91 | 75-125 |
| Manganese | 271 | 29.3 | 292 | 72* | 75-125 |
| Molybdenum | 0.445 | 29.3 | 29.5 | 99 | 75-125 |
| Nickel | 9.89 | 29.3 | 33.5 | 81 | 75-125 |
| Potassium | 3500 | 2930 | 6310 | 96 | 75-125 |
| Selenium | ND | 29.3 | 27.6 | 94 | 75-125 |
| Silver | ND | 29.3 | 28.3 | 97 | 75-125 |
| Sodium | ND | 2930 | 2640 | 90 | 75-125 |
| Strontium | 12.6 | 29.3 | 41.2 | 98 | 75-125 |
| Thallium | 0.216 | 29.3 | 28.6 | 97 | 75-125 |
| Tin | ND | 29.3 | 31.2 | 106 | 75-125 |
| Titanium | 930 | 29.3 | 957 | 90 | 75-125 |
| Vanadium | 33.1 | 29.3 | 58.6 | 87 | 75-125 |
| Zinc | 54.8 | 58.6 | 108 | 91 | 75-125 |
| Lithium | 23.4 | 29.3 | 51.8 | 97 | 75-125 |
| Phosphorus | 493 | 293 | 771 | 95 | 75-125 |
| Zirconium | ND | 29.3 | 26.8 | 91 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 17.6
DILUTION FACTOR: 0.966 4.83
SAMPLE ID: SL-196-NBZ-SS- SL-196-NBZ-SS-
EMAX SAMP ID: C261-16 C261-16J
LAB FILE ID: 98D01073 98D01074
DATE EXTRACTED: 04/03/1211:19 04/03/1211:19 DATE COLLECTED: 03/26/12
DATE ANALYZED: 04/04/1216:38 04/04/1216:43 DATE RECEIVED: 03/26/12
PREP. BATCH: IMD006S IMD006S
CALIB. REF: 98D01068 98D01068

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 9990 | 10500 | 5 | 10 |
| Antimony | 0.244 | ND | NA | 10 |
| Arsenic | 2.98 | 3.07 | 3 | 10 |
| Barium | 83.2 | 80.3 | 4 | 10 |
| Beryllium | 0.370 | 0.351J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.247 | ND | NA | 10 |
| Calcium | 2930 | 3130 | 7 | 10 |
| Chromium | 15.8 | 16.6 | 5 | 10 |
| Cobalt | 5.06 | 5.37 | 6 | 10 |
| Copper | 7.40 | 8.03 | 9 | 10 |
| Iron | 19100 | 20300 | 6 | 10 |
| Lead | 12.2 | 12.4 | 1 | 10 |
| Magnesium | 6000 | 6230 | 4 | 10 |
| Manganese | 271 | 288 | 6 | 10 |
| Molybdenum | 0.445 | 0.398J | NA | 10 |
| Nickel | 9.89 | 10.7 | 8 | 10 |
| Potassium | 3500 | 3540 | 1 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | ND | ND | 0 | 10 |
| Strontium | 12.6 | 12.4 | 1 | 10 |
| Thallium | 0.216 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 930 | 935 | 0 | 10 |
| Vanadium | 33.1 | 34.9 | 6 | 10 |
| Zinc | 54.8 | 56.2 | 3 | 10 |
| Lithium | 23.4 | 22.3 | 5 | 10 |
| Phosphorus | 493 | 482 | 2 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C261
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGC031SB | ND | 1 | NA | 0.100 | 0.0500 | 03/30/1216:43 | 03/30/1212:45 | M47C026040 | M47C026032 | HGC031S | NA | 03/30/12 |
| LCS1S | HGC031SL | 0.878 | 1 | NA | 0.100 | 0.0500 | 03/30/1216:46 | 03/30/1212:45 | M47C026041 | M47C026032 | HGC031S | NA | 03/30/12 |
| LCD1S | HGC031SC | 0.888 | 1 | NA | 0.100 | 0.0500 | 03/30/1216:48 | 03/30/1212:45 | M47C026042 | M47C026032 | HGC031S | NA | 03/30/12 |
| SL-045-NBZ-SS-0.0-0.5DL | C261-01T | 3.58 | 10.0 | 7.7 | 1.08 | 0.542 | 03/30/1217:52 | 03/30/1212:45 | M47C026073 | M47C026068 | HGC031S | 03/26/12 | 03/26/12 |
| SL-045-NBZ-SB-4.0-5.0 | C261-03 | ND | 0.993 | 4.9 | 0.104 | 0.0522 | 03/30/1217:23 | 03/30/1212:45 | M47C026059 | M47C026056 | HGC031S | 03/26/12 | 03/26/12 |
| SL-046-NBZ-SS-0.0-0.5 | C261-04 | 0.357 | 0.995 | 15.0 | 0.117 | 0.0585 | 03/30/1217:26 | 03/30/1212:45 | M47C026060 | M47C026056 | HGC031S | 03/26/12 | 03/26/12 |
| SL-046-NBZ-SB-4.0-5.0 | C261-06 | ND | 0.997 | 5.4 | 0.105 | 0.0527 | 03/30/1217:28 | 03/30/1212:45 | M47C026061 | M47C026056 | HGC031S | 03/26/12 | 03/26/12 |
| SL-042-NBZ-SS-0.0-0.5DL | C261-07T | 2.21 | 9.90 | 14.1 | 1.15 | 0.576 | 03/30/1217:57 | 03/30/1212:45 | M47C026075 | M47C026068 | HGC031S | 03/26/12 | 03/26/12 |
| SL-043-NBZ-SS-0.0-0.5 | C261-08 | ND | 0.993 | 10.3 | 0.111 | 0.0554 | 03/30/1217:32 | 03/30/1212:45 | M47C026063 | M47C026056 | HGC031S | 03/26/12 | 03/26/12 |
| SL-050-NBZ-SS-0.0-0.5 | C261-09 | ND | 1.00 | 8.4 | 0.109 | 0.0546 | 03/30/1217:34 | 03/30/1212:45 | M47C026064 | M47C026056 | HGC031S | 03/26/12 | 03/26/12 |
| SL-123-NBZ-SS-0.0-0.5 | C261-11 | ND | 0.988 | 15.1 | 0.116 | 0.0582 | 03/30/1217:36 | 03/30/1212:45 | M47C026065 | M47C026056 | HGC031S | 03/26/12 | 03/26/12 |
| SL-124-NBZ-SS-0.0-0.5 | C261-12 | ND | 0.988 | 25.6 | 0.133 | 0.0664 | 03/30/1217:38 | 03/30/1212:45 | M47C026066 | M47C026056 | HGC031S | 03/26/12 | 03/26/12 |
| SL-126-NBZ-SS-0.0-0.5 | C261-13 | ND | 0.997 | 16.6 | 0.120 | 0.0598 | 03/30/1217:40 | 03/30/1212:45 | M47C026067 | M47C026056 | HGC031S | 03/26/12 | 03/26/12 |
| SL-133-NBZ-SS-0.0-0.5 | C261-14 | ND | 1.01 | 13.6 | 0.117 | 0.0584 | 03/30/1217:46 | 03/30/1212:45 | M47C026070 | M47C026068 | HGC031S | 03/26/12 | 03/26/12 |
| SL-195-NBZ-SS-0.0-0.5 | C261-15 | ND | 0.992 | 11.7 | 0.112 | 0.0562 | 03/30/1217:48 | 03/30/1212:45 | M47C026071 | M47C026068 | HGC031S | 03/26/12 | 03/26/12 |
| SL-196-NBZ-SS-0.0-0.5 | C261-16 | ND | 1.00 | 17.6 | 0.121 | 0.0607 | 03/30/1217:50 | 03/30/1212:45 | M47C026072 | M47C026068 | HGC031S | 03/26/12 | 03/26/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C261
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGC031SB | HGC031SL | HGC031SC | | |
| LAB FILE ID: | M47C026040 | M47C026041 | M47C026042 | | |
| DATIME EXTRCTD: | 03/30/1212:45 | 03/30/1212:45 | 03/30/1212:45 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 03/30/1216:43 | 03/30/1216:46 | 03/30/1216:48 | DATE RECEIVED: | 03/30/12 |
| PREP. BATCH: | HGC031S | HGC031S | HGC031S | | |
| CALIB. REF: | M47C026032 | M47C026032 | M47C026032 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .878 | 105 | .833 | .888 | 107 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C261
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 7.3 |
| DILTN FACTR: | 0.992 | 0.992 | | |
| SAMPLE ID: | SL-057-NBZ-SS-0.0-0.5 | | | |
| CONTROL NO.: | C254-08 | C254-08A | | |
| LAB FILE ID: | M47C026046 | M47C026043 | | |
| DATIME EXTRCTD: | 03/30/1212:45 | 03/30/1212:45 | DATE COLLECTED: | 03/23/12 |
| DATIME ANALYZD: | 03/30/1216:57 | 03/30/1216:50 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | HGC031S | HGC031S | | |
| CALIB. REF: | M47C026044 | M47C026032 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .891 | .945 | 106 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 7.3 |
| DILUTION FACTOR: | 0.992 | 4.96 | | |
| SAMPLE ID: | SL-057-NBZ-SS-0.0-0 | SL-057-NBZ-SS-0.0-0 | | |
| EMAX SAMP ID: | C254-08 | C254-08J | | |
| LAB FILE ID: | M47C026046 | M47C026047 | | |
| DATE EXTRACTED: | 03/30/1212:45 | 03/30/1212:45 | DATE COLLECTED: | 03/23/12 |
| DATE ANALYZED: | 03/30/1216:57 | 03/30/1216:59 | DATE RECEIVED: | 03/23/12 |
| PREP. BATCH: | HGC031S | HGC031S | | |
| CALIB. REF: | M47C026044 | M47C026044 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C261
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC008SB | ND | 1 | NA | 1.00 | 0.500 | 03/30/1202:07 | 03/29/1211:54 | AC39-60 | AC39-58 | ICC008S | NA | 03/29/12 |
| LCS1S | ICC008SL | 5.76 | 1 | NA | 1.00 | 0.500 | 03/30/1202:23 | 03/29/1211:54 | AC39-61 | AC39-58 | ICC008S | NA | 03/29/12 |
| LCD1S | ICC008SC | 5.76 | 1 | NA | 1.00 | 0.500 | 03/30/1202:39 | 03/29/1211:54 | AC39-62 | AC39-58 | ICC008S | NA | 03/29/12 |
| SL-045-NBZ-SS-0.0-0.5 | C261-01 | ND | 1 | 7.7 | 1.08 | 0.542 | 03/30/1202:55 | 03/29/1211:54 | AC39-63 | AC39-58 | ICC008S | 03/26/1211:41 | 03/26/12 |
| SL-045-NBZ-SB-4.0-5.0 | C261-03 | 3.34 | 1 | 4.9 | 1.05 | 0.526 | 03/30/1203:11 | 03/29/1211:54 | AC39-64 | AC39-58 | ICC008S | 03/26/1211:55 | 03/26/12 |
| SL-046-NBZ-SS-0.0-0.5 | C261-04 | ND | 1 | 15.0 | 1.18 | 0.588 | 03/30/1203:28 | 03/29/1211:54 | AC39-65 | AC39-58 | ICC008S | 03/26/1209:20 | 03/26/12 |
| SL-046-NBZ-SB-4.0-5.0 | C261-06 | 1.77 | 1 | 5.4 | 1.06 | 0.529 | 03/30/1203:44 | 03/29/1211:54 | AC39-66 | AC39-58 | ICC008S | 03/26/1210:15 | 03/26/12 |
| SL-042-NBZ-SS-0.0-0.5 | C261-07 | ND | 1 | 14.1 | 1.16 | 0.582 | 03/30/1204:00 | 03/29/1211:54 | AC39-67 | AC39-58 | ICC008S | 03/26/1214:10 | 03/26/12 |
| SL-050-NBZ-SS-0.0-0.5 | C261-09 | ND | 1 | 8.4 | 1.09 | 0.546 | 03/30/1204:16 | 03/29/1211:54 | AC39-68 | AC39-58 | ICC008S | 03/26/1214:30 | 03/26/12 |
| SL-043-NBZ-SS-0.0-0.5 | C261-08 | ND | 1 | 10.3 | 1.11 | 0.557 | 03/30/1205:21 | 03/29/1211:54 | AC39-72 | AC39-70 | ICC008S | 03/26/1215:35 | 03/26/12 |
| SL-043-NBZ-SS-0.0-0.5MS | C261-08M | 6.70 | 1 | 10.3 | 1.11 | 0.557 | 03/30/1205:37 | 03/29/1211:54 | AC39-73 | AC39-70 | ICC008S | 03/26/1215:35 | 03/26/12 |
| SL-043-NBZ-SS-0.0-0.5MSD | C261-08S | 6.69 | 1 | 10.3 | 1.11 | 0.557 | 03/30/1205:53 | 03/29/1211:54 | AC39-74 | AC39-70 | ICC008S | 03/26/1215:35 | 03/26/12 |
| SL-124-NBZ-SS-0.0-0.5 | C261-12 | ND | 1 | 25.6 | 1.34 | 0.672 | 03/30/1206:09 | 03/29/1211:54 | AC39-75 | AC39-70 | ICC008S | 03/26/1210:20 | 03/26/12 |
| SL-126-NBZ-SS-0.0-0.5 | C261-13 | ND | 1 | 16.6 | 1.20 | 0.600 | 03/30/1206:25 | 03/29/1211:54 | AC39-76 | AC39-70 | ICC008S | 03/26/1211:20 | 03/26/12 |
| SL-196-NBZ-SS-0.0-0.5 | C261-16 | ND | 1 | 17.6 | 1.21 | 0.607 | 03/30/1206:42 | 03/29/1211:54 | AC39-77 | AC39-70 | ICC008S | 03/26/1211:45 | 03/26/12 |
| SL-123-NBZ-SS-0.0-0.5 | C261-11 | ND | 1 | 15.1 | 1.18 | 0.589 | 03/30/1206:58 | 03/29/1211:54 | AC39-78 | AC39-70 | ICC008S | 03/26/1214:55 | 03/26/12 |
| SL-133-NBZ-SS-0.0-0.5 | C261-14 | ND | 1 | 13.6 | 1.16 | 0.579 | 03/30/1207:14 | 03/29/1211:54 | AC39-79 | AC39-70 | ICC008S | 03/26/1215:15 | 03/26/12 |
| SL-195-NBZ-SS-0.0-0.5 | C261-15 | ND | 1 | 11.7 | 1.13 | 0.566 | 03/30/1207:30 | 03/29/1211:54 | AC39-80 | AC39-70 | ICC008S | 03/26/1215:40 | 03/26/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC008SB | ICC008SL | ICC008SC | | |
| LAB FILE ID: | AC39-60 | AC39-61 | AC39-62 | | |
| DATE EXTRACTED: | 03/29/1211:54 | 03/29/1211:54 | 03/29/1211:54 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1202:07 | 03/30/1202:23 | 03/30/1202:39 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | ICC008S | ICC008S | ICC008S | | |
| CALIB. REF: | AC39-58 | AC39-58 | AC39-58 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 5.76 | 96 | 6.00 | 5.76 | 96 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: 300.0

MATRIX: SOIL % MOISTURE: 10.3

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-043-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C261-08 | C261-08M | C261-08S | | |
| LAB FILE ID: | AC39-72 | AC39-73 | AC39-74 | | |
| DATE EXTRACTED: | 03/29/1211:54 | 03/29/1211:54 | 03/29/1211:54 | DATE COLLECTED: | 03/26/12 15:35 |
| DATE ANALYZED: | 03/30/1205:21 | 03/30/1205:37 | 03/30/1205:53 | DATE RECEIVED: | 03/26/12 |
| PREP. BATCH: | ICC008S | ICC008S | ICC008S | | |
| CALIB. REF: | AC39-70 | AC39-70 | AC39-70 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.69 | 6.70 | 100 | 6.69 | 6.69 | 100 | 0 | 80-120 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C261
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICC008SB | ND | 1 | NA | 1.50 | 0.750 | 03/30/1202:07 | 03/29/1211:54 | AC39-60 | AC39-58 | ICC008S | NA | 03/29/12 |
| LCS1S | ICC008SL | 24.5 | 1 | NA | 1.50 | 0.750 | 03/30/1202:23 | 03/29/1211:54 | AC39-61 | AC39-58 | ICC008S | NA | 03/29/12 |
| LCD1S | ICC008SC | 24.5 | 1 | NA | 1.50 | 0.750 | 03/30/1202:39 | 03/29/1211:54 | AC39-62 | AC39-58 | ICC008S | NA | 03/29/12 |
| SL-045-NBZ-SS-0.0-0.5 | C261-01 | 2.62 | 1 | 7.7 | 1.63 | 0.813 | 03/30/1202:55 | 03/29/1211:54 | AC39-63 | AC39-58 | ICC008S | 03/26/1211:41 | 03/26/12 |
| SL-045-NBZ-SB-4.0-5.0 | C261-03 | 1.19J | 1 | 4.9 | 1.58 | 0.789 | 03/30/1203:11 | 03/29/1211:54 | AC39-64 | AC39-58 | ICC008S | 03/26/1211:55 | 03/26/12 |
| SL-046-NBZ-SS-0.0-0.5 | C261-04 | 15.7 | 1 | 15.0 | 1.76 | 0.882 | 03/30/1203:28 | 03/29/1211:54 | AC39-65 | AC39-58 | ICC008S | 03/26/1209:20 | 03/26/12 |
| SL-046-NBZ-SB-4.0-5.0 | C261-06 | 1.03J | 1 | 5.4 | 1.59 | 0.793 | 03/30/1203:44 | 03/29/1211:54 | AC39-66 | AC39-58 | ICC008S | 03/26/1210:15 | 03/26/12 |
| SL-042-NBZ-SS-0.0-0.5 | C261-07 | 6.34 | 1 | 14.1 | 1.75 | 0.873 | 03/30/1204:00 | 03/29/1211:54 | AC39-67 | AC39-58 | ICC008S | 03/26/1214:10 | 03/26/12 |
| SL-050-NBZ-SS-0.0-0.5 | C261-09 | 10.6 | 1 | 8.4 | 1.64 | 0.819 | 03/30/1204:16 | 03/29/1211:54 | AC39-68 | AC39-58 | ICC008S | 03/26/1214:30 | 03/26/12 |
| SL-043-NBZ-SS-0.0-0.5 | C261-08 | 10.8 | 1 | 10.3 | 1.67 | 0.836 | 03/30/1205:21 | 03/29/1211:54 | AC39-72 | AC39-70 | ICC008S | 03/26/1215:35 | 03/26/12 |
| SL-043-NBZ-SS-0.0-0.5MS | C261-08M | 40.1 | 1 | 10.3 | 1.67 | 0.836 | 03/30/1205:37 | 03/29/1211:54 | AC39-73 | AC39-70 | ICC008S | 03/26/1215:35 | 03/26/12 |
| SL-043-NBZ-SS-0.0-0.5MSD | C261-08S | 40.1 | 1 | 10.3 | 1.67 | 0.836 | 03/30/1205:53 | 03/29/1211:54 | AC39-74 | AC39-70 | ICC008S | 03/26/1215:35 | 03/26/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC008SB | ICC008SL | ICC008SC | | |
| LAB FILE ID: | AC39-60 | AC39-61 | AC39-62 | | |
| DATE EXTRACTED: | 03/29/1211:54 | 03/29/1211:54 | 03/29/1211:54 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1202:07 | 03/30/1202:23 | 03/30/1202:39 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | ICC008S | ICC008S | ICC008S | | |
| CALIB. REF: | AC39-58 | AC39-58 | AC39-58 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 24.5 | 92 | 26.6 | 24.5 | 92 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: 300.0

MATRIX: SOIL % MOISTURE: 10.3

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-043-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C261-08 | C261-08M | C261-08S | | |
| LAB FILE ID: | AC39-72 | AC39-73 | AC39-74 | | |
| DATE EXTRACTED: | 03/29/1211:54 | 03/29/1211:54 | 03/29/1211:54 | DATE COLLECTED: | 03/26/12 15:35 |
| DATE ANALYZED: | 03/30/1205:21 | 03/30/1205:37 | 03/30/1205:53 | DATE RECEIVED: | 03/26/12 |
| PREP. BATCH: | ICC008S | ICC008S | ICC008S | | |
| CALIB. REF: | AC39-70 | AC39-70 | AC39-70 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | 10.8 | 29.7 | 40.1 | 99 | 29.7 | 40.1 | 99 | 0 | 80-120 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C261
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCC023SB | ND | 1 | NA | 20.0 | 10.0 | 03/30/1223:12 | 03/29/1212:05 | JC30031 | JC30030 | PCC023S | NA | 03/29/12 |
| LCS1S | PCC023SL | 242 | 1 | NA | 20.0 | 10.0 | 03/30/1223:54 | 03/29/1212:05 | JC30033 | JC30030 | PCC023S | NA | 03/29/12 |
| LCD1S | PCC023SC | 242 | 1 | NA | 20.0 | 10.0 | 03/31/1200:15 | 03/29/1212:05 | JC30034 | JC30030 | PCC023S | NA | 03/29/12 |
| SL-045-NBZ-SS-0.0-0.5 | C261-01 | ND | 1 | 7.7 | 21.7 | 10.8 | 03/31/1200:37 | 03/29/1212:05 | JC30035 | JC30030 | PCC023S | 03/26/1211:41 | 03/26/12 |
| SL-045-NBZ-SB-4.0-5.0 | C261-03 | ND | 1 | 4.9 | 21.0 | 10.5 | 03/31/1200:58 | 03/29/1212:05 | JC30036 | JC30030 | PCC023S | 03/26/1211:55 | 03/26/12 |
| SL-046-NBZ-SS-0.0-0.5 | C261-04 | ND | 1 | 15.0 | 23.5 | 11.8 | 03/31/1201:19 | 03/29/1212:05 | JC30037 | JC30030 | PCC023S | 03/26/1209:20 | 03/26/12 |
| SL-046-NBZ-SB-4.0-5.0 | C261-06 | ND | 1 | 5.4 | 21.1 | 10.6 | 03/31/1201:40 | 03/29/1212:05 | JC30038 | JC30030 | PCC023S | 03/26/1210:15 | 03/26/12 |
| SL-042-NBZ-SS-0.0-0.5 | C261-07 | ND | 1 | 14.1 | 23.3 | 11.6 | 03/31/1202:01 | 03/29/1212:05 | JC30039 | JC30030 | PCC023S | 03/26/1214:10 | 03/26/12 |
| SL-043-NBZ-SS-0.0-0.5 | C261-08 | ND | 1 | 10.3 | 22.3 | 11.1 | 03/31/1203:04 | 03/29/1212:05 | JC30042 | JC30041 | PCC023S | 03/26/1215:35 | 03/26/12 |
| SL-043-NBZ-SS-0.0-0.5MS | C261-08M | 233 | 1 | 10.3 | 22.3 | 11.1 | 03/31/1203:25 | 03/29/1212:05 | JC30043 | JC30041 | PCC023S | 03/26/1215:35 | 03/26/12 |
| SL-043-NBZ-SS-0.0-0.5MSD | C261-08S | 240 | 1 | 10.3 | 22.3 | 11.1 | 03/31/1203:46 | 03/29/1212:05 | JC30044 | JC30041 | PCC023S | 03/26/1215:35 | 03/26/12 |
| SL-050-NBZ-SS-0.0-0.5 | C261-09 | ND | 1 | 8.4 | 21.8 | 10.9 | 03/31/1204:07 | 03/29/1212:05 | JC30045 | JC30041 | PCC023S | 03/26/1214:30 | 03/26/12 |
| SL-123-NBZ-SS-0.0-0.5 | C261-11 | ND | 1 | 15.1 | 23.6 | 11.8 | 04/04/1200:55 | 03/29/1212:05 | JD04029 | JD04021 | PCC023S | 03/26/1214:55 | 03/26/12 |
| SL-124-NBZ-SS-0.0-0.5 | C261-12 | ND | 1 | 25.6 | 26.9 | 13.4 | 04/04/1201:16 | 03/29/1212:05 | JD04030 | JD04021 | PCC023S | 03/26/1210:20 | 03/26/12 |
| SL-126-NBZ-SS-0.0-0.5 | C261-13 | ND | 1 | 16.6 | 24.0 | 12.0 | 04/04/1202:20 | 03/29/1212:05 | JD04033 | JD04032 | PCC023S | 03/26/1211:20 | 03/26/12 |
| SL-133-NBZ-SS-0.0-0.5 | C261-14 | ND | 1 | 13.6 | 23.1 | 11.6 | 04/04/1202:41 | 03/29/1212:05 | JD04034 | JD04032 | PCC023S | 03/26/1215:15 | 03/26/12 |
| SL-195-NBZ-SS-0.0-0.5 | C261-15 | ND | 1 | 11.7 | 22.7 | 11.3 | 04/04/1203:02 | 03/29/1212:05 | JD04035 | JD04032 | PCC023S | 03/26/1215:40 | 03/26/12 |
| SL-196-NBZ-SS-0.0-0.5 | C261-16 | ND | 1 | 17.6 | 24.3 | 12.1 | 04/04/1203:23 | 03/29/1212:05 | JD04036 | JD04032 | PCC023S | 03/26/1211:45 | 03/26/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCC023SB | PCC023SL | PCC023SC | | |
| LAB FILE ID: | JC30031 | JC30033 | JC30034 | | |
| DATE EXTRACTED: | 03/29/1212:05 | 03/29/1212:05 | 03/29/1212:05 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1223:12 | 03/30/1223:54 | 03/31/1200:15 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | PCC023S | PCC023S | PCC023S | | |
| CALIB. REF: | JC30030 | JC30030 | JC30030 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 242 | 97 | 250 | 242 | 97 | 0 | 85-115 | 15 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 10.3 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-043-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C261-08 | C261-08M | C261-08S | | |
| LAB FILE ID: | JC30042 | JC30043 | JC30044 | | |
| DATE EXTRACTED: | 03/29/1212:05 | 03/29/1212:05 | 03/29/1212:05 | DATE COLLECTED: | 03/26/12 15:35 |
| DATE ANALYZED: | 03/31/1203:04 | 03/31/1203:25 | 03/31/1203:46 | DATE RECEIVED: | 03/26/12 |
| PREP. BATCH: | PCC023S | PCC023S | PCC023S | | |
| CALIB. REF: | JC30041 | JC30041 | JC30041 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 279 | 233 | 84 | 279 | 240 | 86 | 3 | 80-120 | 20 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C261
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD002SB | ND | 1 | NA | 1.00 | 0.500 | 04/03/1219:46 | 04/02/1214:09 | ID04003 | ID04001 | HCD002S | NA | 04/02/12 |
| MBLK1S | HCD002SQ | ND | 1 | NA | 1.00 | 0.500 | 04/03/1219:56 | 04/02/1214:09 | ID04004 | ID04001 | HCD002S | NA | 04/02/12 |
| LCS1S | CSD002SL | 9.55 | 1 | NA | 1.00 | 0.500 | 04/03/1220:07 | 04/02/1214:09 | ID04005 | ID04001 | HCD002S | NA | 04/02/12 |
| LCS1S | CSD002SX | 10.0 | 1 | NA | 1.00 | 0.500 | 04/03/1220:17 | 04/02/1214:09 | ID04006 | ID04001 | HCD002S | NA | 04/02/12 |
| LCS2S | CID002SL | 480 | 20 | NA | 20.0 | 10.0 | 04/03/1220:28 | 04/02/1214:09 | ID04007 | ID04001 | HCD002S | NA | 04/02/12 |
| LCS2S | CID002SX | 452 | 20 | NA | 20.0 | 10.0 | 04/03/1220:38 | 04/02/1214:09 | ID04008 | ID04001 | HCD002S | NA | 04/02/12 |
| SL-045-NBZ-SS-0.0-0.5 | C261-01 | ND | 1 | 7.7 | 1.08 | 0.542 | 04/03/1220:48 | 04/02/1214:09 | ID04009 | ID04001 | HCD002S | 03/26/1211:41 | 03/26/12 |
| SL-045-NBZ-SS-0.0-0.5 | C261-01R | ND | 1 | 7.7 | 1.08 | 0.542 | 04/03/1220:59 | 04/02/1214:09 | ID04010 | ID04001 | HCD002S | 03/26/1211:41 | 03/26/12 |
| SL-045-NBZ-SB-4.0-5.0 | C261-03 | ND | 1 | 4.9 | 1.05 | 0.526 | 04/03/1221:09 | 04/02/1214:09 | ID04011 | ID04001 | HCD002S | 03/26/1211:55 | 03/26/12 |
| SL-045-NBZ-SB-4.0-5.0 | C261-03R | ND | 1 | 4.9 | 1.05 | 0.526 | 04/03/1221:20 | 04/02/1214:09 | ID04012 | ID04001 | HCD002S | 03/26/1211:55 | 03/26/12 |
| SL-042-NBZ-SS-0.0-0.5 | C261-07 | ND | 1 | 14.1 | 1.16 | 0.582 | 04/03/1222:01 | 04/02/1214:09 | ID04015 | ID04013 | HCD002S | 03/26/1214:10 | 03/26/12 |
| SL-042-NBZ-SS-0.0-0.5 | C261-07R | ND | 1 | 14.1 | 1.16 | 0.582 | 04/03/1222:12 | 04/02/1214:09 | ID04016 | ID04013 | HCD002S | 03/26/1214:10 | 03/26/12 |
| SL-042-NBZ-SS-0.0-0.5DUP | C261-07D | ND | 1 | 14.1 | 1.16 | 0.582 | 04/03/1222:22 | 04/02/1214:09 | ID04017 | ID04013 | HCD002S | 03/26/1214:10 | 03/26/12 |
| SL-042-NBZ-SS-0.0-0.5DUP | C261-07Z | ND | 1 | 14.1 | 1.16 | 0.582 | 04/03/1222:32 | 04/02/1214:09 | ID04018 | ID04013 | HCD002S | 03/26/1214:10 | 03/26/12 |
| SL-042-NBZ-SS-0.0-0.5MS | C261-07M | 11.3 | 1 | 14.1 | 1.16 | 0.582 | 04/03/1222:43 | 04/02/1214:09 | ID04019 | ID04013 | HCD002S | 03/26/1214:10 | 03/26/12 |
| SL-042-NBZ-SS-0.0-0.5MS | C261-07M1 | 10.5 | 1 | 14.1 | 1.16 | 0.582 | 04/03/1222:53 | 04/02/1214:09 | ID04020 | ID04013 | HCD002S | 03/26/1214:10 | 03/26/12 |
| SL-042-NBZ-SS-0.0-0.5MS | C261-07G | 185 | 10 | 14.1 | 11.6 | 5.82 | 04/03/1223:04 | 04/02/1214:09 | ID04021 | ID04013 | HCD002S | 03/26/1214:10 | 03/26/12 |
| SL-042-NBZ-SS-0.0-0.5MS | C261-07G1 | 171 | 10 | 14.1 | 11.6 | 5.82 | 04/03/1223:14 | 04/02/1214:09 | ID04022 | ID04013 | HCD002S | 03/26/1214:10 | 03/26/12 |
| SL-046-NBZ-SS-0.0-0.5 | C261-04 | ND | 1 | 15.0 | 1.18 | 0.588 | 04/03/1223:24 | 04/02/1214:09 | ID04023 | ID04013 | HCD002S | 03/26/1209:20 | 03/26/12 |
| SL-046-NBZ-SS-0.0-0.5 | C261-04R | ND | 1 | 15.0 | 1.18 | 0.588 | 04/03/1223:35 | 04/02/1214:09 | ID04024 | ID04013 | HCD002S | 03/26/1209:20 | 03/26/12 |
| SL-046-NBZ-SB-4.0-5.0 | C261-06 | ND | 1 | 5.4 | 1.06 | 0.529 | 04/04/1200:16 | 04/02/1214:09 | ID04027 | ID04025 | HCD002S | 03/26/1210:15 | 03/26/12 |
| SL-046-NBZ-SB-4.0-5.0 | C261-06R | ND | 1 | 5.4 | 1.06 | 0.529 | 04/04/1200:27 | 04/02/1214:09 | ID04028 | ID04025 | HCD002S | 03/26/1210:15 | 03/26/12 |
| SL-043-NBZ-SS-0.0-0.5 | C261-08 | ND | 1 | 10.3 | 1.11 | 0.557 | 04/04/1200:37 | 04/02/1214:09 | ID04029 | ID04025 | HCD002S | 03/26/1215:35 | 03/26/12 |
| SL-043-NBZ-SS-0.0-0.5 | C261-08R | ND | 1 | 10.3 | 1.11 | 0.557 | 04/04/1200:48 | 04/02/1214:09 | ID04030 | ID04025 | HCD002S | 03/26/1215:35 | 03/26/12 |
| SL-050-NBZ-SS-0.0-0.5 | C261-09 | ND | 1 | 8.4 | 1.09 | 0.546 | 04/04/1200:58 | 04/02/1214:09 | ID04031 | ID04025 | HCD002S | 03/26/1214:30 | 03/26/12 |
| SL-050-NBZ-SS-0.0-0.5 | C261-09R | ND | 1 | 8.4 | 1.09 | 0.546 | 04/04/1201:08 | 04/02/1214:09 | ID04032 | ID04025 | HCD002S | 03/26/1214:30 | 03/26/12 |
| SL-124-NBZ-SS-0.0-0.5 | C261-12 | ND | 1 | 25.6 | 1.34 | 0.672 | 04/04/1201:19 | 04/02/1214:09 | ID04033 | ID04025 | HCD002S | 03/26/1210:20 | 03/26/12 |
| SL-124-NBZ-SS-0.0-0.5 | C261-12R | ND | 1 | 25.6 | 1.34 | 0.672 | 04/04/1201:29 | 04/02/1214:09 | ID04034 | ID04025 | HCD002S | 03/26/1210:20 | 03/26/12 |
| SL-126-NBZ-SS-0.0-0.5 | C261-13 | ND | 1 | 16.6 | 1.20 | 0.600 | 04/04/1201:40 | 04/02/1214:09 | ID04035 | ID04025 | HCD002S | 03/26/1211:20 | 03/26/12 |
| SL-126-NBZ-SS-0.0-0.5 | C261-13R | ND | 1 | 16.6 | 1.20 | 0.600 | 04/04/1201:50 | 04/02/1214:09 | ID04036 | ID04025 | HCD002S | 03/26/1211:20 | 03/26/12 |
| SL-196-NBZ-SS-0.0-0.5 | C261-16 | ND | 1 | 17.6 | 1.21 | 0.607 | 04/04/1202:32 | 04/02/1214:09 | ID04039 | ID04037 | HCD002S | 03/26/1211:45 | 03/26/12 |
| SL-196-NBZ-SS-0.0-0.5 | C261-16R | ND | 1 | 17.6 | 1.21 | 0.607 | 04/04/1202:42 | 04/02/1214:09 | ID04040 | ID04037 | HCD002S | 03/26/1211:45 | 03/26/12 |
| SL-123-NBZ-SS-0.0-0.5 | C261-11 | ND | 1 | 15.1 | 1.18 | 0.589 | 04/04/1202:53 | 04/02/1214:09 | ID04041 | ID04037 | HCD002S | 03/26/1214:55 | 03/26/12 |
| SL-123-NBZ-SS-0.0-0.5 | C261-11R | ND | 1 | 15.1 | 1.18 | 0.589 | 04/04/1203:03 | 04/02/1214:09 | ID04042 | ID04037 | HCD002S | 03/26/1214:55 | 03/26/12 |
| SL-133-NBZ-SS-0.0-0.5 | C261-14 | ND | 1 | 13.6 | 1.16 | 0.579 | 04/04/1203:13 | 04/02/1214:09 | ID04043 | ID04037 | HCD002S | 03/26/1215:15 | 03/26/12 |
| SL-133-NBZ-SS-0.0-0.5 | C261-14R | ND | 1 | 13.6 | 1.16 | 0.579 | 04/04/1203:24 | 04/02/1214:09 | ID04044 | ID04037 | HCD002S | 03/26/1215:15 | 03/26/12 |
| SL-195-NBZ-SS-0.0-0.5 | C261-15 | ND | 1 | 11.7 | 1.13 | 0.566 | 04/04/1203:34 | 04/02/1214:09 | ID04045 | ID04037 | HCD002S | 03/26/1215:40 | 03/26/12 |
| SL-195-NBZ-SS-0.0-0.5 | C261-15R | ND | 1 | 11.7 | 1.13 | 0.566 | 04/04/1203:45 | 04/02/1214:09 | ID04046 | ID04037 | HCD002S | 03/26/1215:40 | 03/26/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD002SQ CID002SX
LAB FILE ID: ID04004 ID04008
DATE EXTRACTED: 04/02/1214:09 04/02/1214:09 DATE COLLECTED: NA
DATE ANALYZED: 04/03/1219:56 04/03/1220:38 DATE RECEIVED: 04/02/12
PREP. BATCH: HCD002S HCD002S
CALIB. REF: ID04001 ID04001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 513 | 452 | 88 | 80-120 |

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: 7199

MATRIX: SOIL % MOISTURE: 14.1
DILUTION FACTOR: 1 10
SAMPLE ID: SL-042-NBZ-SS-0.0-0.5
LAB SAMP ID: C261-07R C261-07G1
LAB FILE ID: ID04016 ID04022
DATE EXTRACTED: 04/02/1214:09 04/02/1214:09 DATE COLLECTED: 03/26/12 14:10
DATE ANALYZED: 04/03/1222:12 04/03/1223:14 DATE RECEIVED: 03/26/12
PREP. BATCH: HCD002S HCD002S
CALIB. REF: ID04013 ID04013

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 196 | 171 | 87 | 75-125 |

EMAX QUALITY CONTROL DATA
DUPLICATE SAMPLE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: 7199

MATRIX: SOIL % MOISTURE: 14.1

| | | | | |
|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | SL-042-NBZ-SS-0.0-0.5 | | | |
| EMAX SAMP ID: | C261-07R | C261-07Z | | |
| LAB FILE ID: | ID04016 | ID04018 | | |
| DATE EXTRACTED: | 04/02/1214:09 | 04/02/1214:09 | DATE COLLECTED: | 03/26/12 14:10 |
| DATE ANALYZED: | 04/03/1222:12 | 04/03/1222:32 | DATE RECEIVED: | 03/26/12 |
| PREP. BATCH: | HCD002S | HCD002S | | |
| CALIB. REF: | ID04013 | ID04013 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | DUPL RSLT (mg/kg) | RPD RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Hexavalent Chromium | ND | ND | 0 | 20 |

EMAX QUALITY CONTROL DATA
DUPLICATE SAMPLE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C261
METHOD: 7199

MATRIX: SOIL % MOISTURE: 14.1

| | | |
|---|---|---|
| DILUTION FACTOR: | 1 | 1 |
| SAMPLE ID: | SL-042-NBZ-SS-0.0-0.5 | |
| EMAX SAMP ID: | C261-07 | C261-07D |
| LAB FILE ID: | ID04015 | ID04017 |
| DATE EXTRACTED: | 04/02/1214:09 | 04/02/1214:09 |
| DATE ANALYZED: | 04/03/1222:01 | 04/03/1222:22 |
| PREP. BATCH: | HCD002S | HCD002S |
| CALIB. REF: | ID04013 | ID04013 |

DATE COLLECTED: 03/26/12 14:10
DATE RECEIVED: 03/26/12

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | DUPL RSLT (mg/kg) | RPD RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Hexavalent Chromium | ND | ND | 0 | 20 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C261

Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CNC013SB | ND | 1 | NA | 0.500 | 0.250 | 03/29/1218:30 | 03/29/1211:00 | CNC01310 | CNC01308 | CNC013S | NA | 03/29/12 |
| LCS1S | CNC013SL | 2.53 | 1 | NA | 0.500 | 0.250 | 03/29/1218:30 | 03/29/1211:00 | CNC01311 | CNC01308 | CNC013S | NA | 03/29/12 |
| LCD1S | CNC013SC | 2.76 | 1 | NA | 0.500 | 0.250 | 03/29/1218:30 | 03/29/1211:00 | CNC01312 | CNC01308 | CNC013S | NA | 03/29/12 |
| SL-045-NBZ-SS-0.0-0.5 | C261-01 | ND | 1 | 7.7 | 0.542 | 0.271 | 03/29/1218:34 | 03/29/1211:00 | CNC01324 | CNC01320 | CNC013S | 03/26/1211:41 | 03/26/12 |
| SL-045-NBZ-SB-4.0-5.0 | C261-03 | ND | 1 | 4.9 | 0.526 | 0.263 | 03/29/1218:34 | 03/29/1211:00 | CNC01325 | CNC01320 | CNC013S | 03/26/1211:55 | 03/26/12 |
| SL-046-NBZ-SS-0.0-0.5 | C261-04 | ND | 1 | 15.0 | 0.588 | 0.294 | 03/29/1218:34 | 03/29/1211:00 | CNC01326 | CNC01320 | CNC013S | 03/26/1209:20 | 03/26/12 |
| SL-046-NBZ-SB-4.0-5.0 | C261-06 | ND | 1 | 5.4 | 0.529 | 0.264 | 03/29/1218:34 | 03/29/1211:00 | CNC01327 | CNC01320 | CNC013S | 03/26/1210:15 | 03/26/12 |
| SL-042-NBZ-SS-0.0-0.5 | C261-07 | ND | 1 | 14.1 | 0.582 | 0.291 | 03/29/1218:35 | 03/29/1211:00 | CNC01328 | CNC01320 | CNC013S | 03/26/1214:10 | 03/26/12 |
| SL-043-NBZ-SS-0.0-0.5 | C261-08 | ND | 1 | 10.3 | 0.557 | 0.279 | 03/29/1218:35 | 03/29/1211:00 | CNC01329 | CNC01320 | CNC013S | 03/26/1215:35 | 03/26/12 |
| SL-050-NBZ-SS-0.0-0.5 | C261-09 | ND | 1 | 8.4 | 0.546 | 0.273 | 03/29/1218:36 | 03/29/1211:00 | CNC01330 | CNC01320 | CNC013S | 03/26/1214:30 | 03/26/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C261
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CNC013SL/C

DATE RECEIVED: 03/29/12
DATE EXTRACTED: 03/29/1211:00
DATE ANALYZED: 03/29/1218:30/18:30

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.53 | 101 | 2.50 | 2.76 | 110 | 9 | 85-125 | 20 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C261
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-123-NBZ-SS-0.0-0.5 | C261-11 | 6.62 | 1 | NA | NA | NA | 03/27/1218:23 | 03/27/1218:23 | 12PHC023S01 | PHC023S | PHC023S | 03/26/1214:55 | 03/26/12 |
| SL-133-NBZ-SS-0.0-0.5 | C261-14 | 7.65 | 1 | NA | NA | NA | 03/27/1218:26 | 03/27/1218:23 | 12PHC023S02 | PHC023S | PHC023S | 03/26/1215:15 | 03/26/12 |
| SL-195-NBZ-SS-0.0-0.5 | C261-15 | 6.67 | 1 | NA | NA | NA | 03/27/1218:28 | 03/27/1218:23 | 12PHC023S03 | PHC023S | PHC023S | 03/26/1215:40 | 03/26/12 |
| SL-045-NBZ-SS-0.0-0.5 | C261-01 | 6.46 | 1 | NA | NA | NA | 03/27/1218:30 | 03/27/1218:23 | 12PHC023S04 | PHC023S | PHC023S | 03/26/1211:41 | 03/26/12 |
| SL-045-NBZ-SB-4.0-5.0 | C261-03 | 7.44 | 1 | NA | NA | NA | 03/27/1218:34 | 03/27/1218:23 | 12PHC023S05 | PHC023S | PHC023S | 03/26/1211:55 | 03/26/12 |
| SL-046-NBZ-SS-0.0-0.5 | C261-04 | 6.75 | 1 | NA | NA | NA | 03/27/1218:37 | 03/27/1218:23 | 12PHC023S06 | PHC023S | PHC023S | 03/26/1209:20 | 03/26/12 |
| SL-046-NBZ-SB-4.0-5.0 | C261-06 | 6.74 | 1 | NA | NA | NA | 03/27/1218:40 | 03/27/1218:23 | 12PHC023S07 | PHC023S | PHC023S | 03/26/1210:15 | 03/26/12 |
| SL-042-NBZ-SS-0.0-0.5 | C261-07 | 8.03 | 1 | NA | NA | NA | 03/27/1218:42 | 03/27/1218:23 | 12PHC023S08 | PHC023S | PHC023S | 03/26/1214:10 | 03/26/12 |
| SL-042-NBZ-SS-0.0-0.5DUP | C261-07D | 8.00 | 1 | NA | NA | NA | 03/27/1218:44 | 03/27/1218:23 | 12PHC023S09 | PHC023S | PHC023S | 03/26/1214:10 | 03/26/12 |
| SL-043-NBZ-SS-0.0-0.5 | C261-08 | 6.11 | 1 | NA | NA | NA | 03/27/1218:47 | 03/27/1218:23 | 12PHC023S10 | PHC023S | PHC023S | 03/26/1215:35 | 03/26/12 |
| SL-050-NBZ-SS-0.0-0.5 | C261-09 | 6.83 | 1 | NA | NA | NA | 03/27/1218:49 | 03/27/1218:23 | 12PHC023S11 | PHC023S | PHC023S | 03/26/1214:30 | 03/26/12 |
| SL-124-NBZ-SS-0.0-0.5 | C261-12 | 6.38 | 1 | NA | NA | NA | 03/27/1218:51 | 03/27/1218:23 | 12PHC023S12 | PHC023S | PHC023S | 03/26/1210:20 | 03/26/12 |
| SL-126-NBZ-SS-0.0-0.5 | C261-13 | 6.95 | 1 | NA | NA | NA | 03/27/1218:53 | 03/27/1218:23 | 12PHC023S13 | PHC023S | PHC023S | 03/26/1211:20 | 03/26/12 |
| SL-196-NBZ-SS-0.0-0.5 | C261-16 | 6.65 | 1 | NA | NA | NA | 03/27/1218:53 | 03/27/1218:23 | 12PHC023S14 | PHC023S | PHC023S | 03/26/1211:45 | 03/26/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C261 DATE RECEIVED: 03/26/12
SAMPLE ID: SL-042-NBZ-SS-0.0-0.5DUP DATE EXTRACTED: 03/27/1218:23
CONTROL NO.: C261-07D DATE ANALYZED: 03/27/1218:44

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 8.03 | 8.00 | 0.03 | 0.10 |

# SAMPLE DELIVERY GROUP

# 12C273

**NBZ – Data Package Amendment**
**SDG 12C273, SDG 12C305, SDG DX163, SDG DX166**
**6-17-13**

During the database check, an inconsistency in sample identification was discovered that needed to be corrected. They are listed below:

- Sample SL-130-NBZ-SS-0.0-0.5 had duplicate results.
- One set of results belongs to SL-131-NBZ-SS-0.0-0.5.
- All data packages were reviewed by field personnel and the validator to determine which sample results went with which sample.
- The appropriate method results were moved to sample SL-131-NBZ-SS-0.0-05.

All changes have been documented and verified by the field personnel and data group.

Pam Hartman
Catherine Love
Cherie Zakowski

SL-130

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/10/12 17:03 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/13/12 09:30 |
| Lab Samp ID: C273-12R | Dilution Factor: 1 |
| Lab File ID: RDH192 | Matrix : SOIL |
| Ext Btch ID: SVD020S | % Moisture : 16.1 |
| Calib. Ref.: RCH007 | Instrument ID : T-0E7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 400 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 400 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 400 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 400 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 400 | 200 |
| BENZIDINE | ND | 990 | 500 |
| BENZOIC ACID | ND | 790 | 400 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1070 | 1192 | 89.8 | 35-130 |
| 2-FLUOROBIPHENYL | 283 | 397.3 | 71.3 | 45-130 |
| 2-FLUOROPHENOL | 860 | 1192 | 72.2 | 25-130 |
| NITROBENZENE-D5 | 271 | 397.3 | 68.3 | 40-130 |
| PHENOL-D5 | 978 | 1192 | 82.1 | 25-120 |
| TERPHENYL-D14 | 368 | 397.3 | 92.8 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

SL-130

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/10/12 17:03 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/13/12 09:30 |
| Lab Samp ID: C273-12R | Dilution Factor: 1 |
| Lab File ID: RDH192 | Matrix : SOIL |
| Ext Btch ID: SVD020S | % Moisture : 16.1 |
| Calib. Ref.: RCH007 | Instrument ID : T-QE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 1.0 |
| ACENAPHTHYLENE | ND | 2.0 | 1.0 |
| ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)PYRENE | 1.3J | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | 2.1 | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | 2.1 | 2.0 | 1.0 |
| CHRYSENE | ND | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 1.0 |
| FLUORANTHENE | 2.2 | 2.0 | 1.0 |
| FLUORENE | ND | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 1.0 |
| NAPHTHALENE | ND | 2.0 | 1.0 |
| PHENANTHRENE | 1.1J | 2.0 | 1.0 |
| PYRENE | 2.4 | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 30 | 20 | 10 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 297 | 397.3 | 74.8 | 40-130 |
| 2-FLUOROBIPHENYL | 306 | 397.3 | 77.1 | 45-130 |
| TERPHENYL-D14 | 346 | 397.3 | 87.0 | 45-135 |

SL-130

METHOD 3550B/8081A
PESTICIDES

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 03/27/12 |
| Batch No. | : 12C273 | Date Extracted: | 04/05/12 14:56 |
| Sample ID: | SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: | 04/11/12 15:32 |
| Lab Samp ID: | C273-12 | Dilution Factor: | 1 |
| Lab File ID: | LD11018A | Matrix : | SOIL |
| Ext Btch ID: | CPD010S | % Moisture : | 16.1 |
| Calib. Ref.: | LD11005A | Instrument ID : | GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.30 | 0.20 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.18J | 0.20 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| 0.50 | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR | 0.98 \| (ND) | 0.20 | 0.10 \| 0.10 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| ALDRIN | 0.31 \| (ND) | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| 4,4'-DDE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| DIELDRIN | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDRIN | 0.78 \| (ND) | 0.41 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDOSULFAN II | 3.4 \| (ND) | 0.41 | 0.20 \| 0.20 |
| 4,4'-DDT | 0.43 \| (0.32J) | 0.41 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| 6.8 | 0.41 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| ND | 2.0 | 1.0 \| 1.0 |
| MIREX | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.9 | 3.9 \| 3.9 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.1 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.482 \| (5.973) | 6.356 | 70.5 \| (94.0) | 50-130 |
| DECACHLOROBIPHENYL | (4.747) \| 4.480 | 6.356 | (74.7) \| 70.5 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SL-130

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 03/27/12 |
| Batch No. | : 12C273 | Date Extracted: | 04/06/12 16:33 |
| Sample ID: | SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: | 04/18/12 10:03 |
| Lab Samp ID: | C273-12 | Dilution Factor: | 1 |
| Lab File ID: | KD17029A | Matrix : | SOIL |
| Ext Btch ID: | CPD013S | % Moisture : | 16.1 |
| Calib. Ref.: | KD17017A | Instrument ID : | GCT071 |

| PARAMETERS | RESULTS (ug/kg) | | RL (ug/kg) | MDL (ug/kg) | |
|---|---|---|---|---|---|
| AROCLOR 1016 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1221 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1232 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1242 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1248 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1254 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1260 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1262 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1268 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 5432 | (ND) | ND | 3.9 | 2.0 | 2.0 |
| AROCLOR 5442 | (ND) | ND | 3.9 | 2.0 | 2.0 |
| AROCLOR 5460 | (ND) | ND | 3.9 | 2.0 | 2.0 |

| SURROGATE PARAMETERS | RESULTS | | SPK_AMT | % RECOVERY | | QC LIMIT |
|---|---|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.378) | 5.194 | 6.356 | (116) | 81.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (8.131) | 5.788 | 6.356 | (128) | 91.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

SL-130

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 22:07 |
| Lab Samp ID: C273-12 | Dilution Factor: 1 |
| Lab File ID: WD09033A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 16.1 |
| Calib. Ref.: WD09020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 4.3 | 2.1 \| 2.1 |
| 2,4-DB | (ND) \| ND | 2.0 | 1.0 \| 1.0 |
| 2,4,5-T | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| 2,4,5-TP(SILVEX) | 0.84 \| (ND) | 0.20 | 0.10 \| 0.10 |
| DALAPON | (ND) \| ND | 11 | 5.4 \| 5.4 |
| DICAMBA | (ND) \| ND | 1.4 | 0.72 \| 0.72 |
| DICHLOROPROP | (ND) \| ND | 2.9 | 1.4 \| 1.4 |
| DINOSEB | (ND) \| ND | 2.0 | 1.0 \| 1.0 |
| MCPA | 1200 \| (ND) | 300 | 150 \| 150 |
| MCPP | (ND) \| 230J | 300 | 150 \| 150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (83.86) \| 70.20 | 178.8 | (46.9) \| 39.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

SL-130

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 03/27/12 |
| SDG NO. | : 12C273 | Date Extracted: | 04/05/12 11:54 |
| Sample ID: | SL-130-N8Z-SS-0.0-0.5 | Date Analyzed: | 04/11/12 00:14 |
| Lab Samp ID: | C273-12 | Dilution Factor: | 1.00 |
| Lab File ID: | 98D05060 | Matrix : | SOIL |
| Ext Btch ID: | IMD009S | % Moisture : | 16.1 |
| Calib. Ref.: | 98D05053 | Instrument ID : | T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11300 | 28.6 | 14.3 |
| Antimony | 0.138J | 0.238 | 0.119 |
| Arsenic | 3.31 | 0.477 | 0.238 |
| Barium | 71.8 | 0.477 | 0.238 |
| Beryllium | 0.344 | 0.119 | 0.0596 |
| Boron | ND | 5.96 | 2.98 |
| Cadmium | 0.201 | 0.119 | 0.0596 |
| Calcium | 2770 | 23.8 | 11.9 |
| Chromium | 17.5 | 0.477 | 0.238 |
| Cobalt | 5.17 | 0.119 | 0.0596 |
| Copper | 6.90 | 0.477 | 0.238 |
| Iron | 19700 | 23.8 | 11.9 |
| Lead | 8.48 | 0.238 | 0.119 |
| Magnesium | 6810 | 11.9 | 5.96 |
| Manganese | 274 | 0.596 | 0.298 |
| Molybdenum | 0.267 | 0.119 | 0.0596 |
| Nickel | 10.7 | 0.477 | 0.238 |
| Potassium | 2990 | 71.5 | 35.8 |
| Selenium | ND | 0.477 | 0.238 |
| Silver | ND | 0.119 | 0.0596 |
| Sodium | ND | 119 | 59.6 |
| Strontium | 9.36 | 0.596 | 0.298 |
| Thallium | 0.214 | 0.119 | 0.0596 |
| Tin | ND | 11.9 | 5.96 |
| Titanium | 1020 | 1.19 | 0.596 |
| Vanadium | 35.3 | 0.119 | 0.0596 |
| Zinc | 54.9 | 3.58 | 1.79 |
| Lithium | 26.7 | 2.38 | 1.19 |
| Phosphorus | 429 | 14.3 | 7.15 |
| Zirconium | ND | 5.96 | 2.98 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD001SB | ND | 1 | NA | 0.100 | 0.0500 | 04/03/1210:18 | 04/02/1217:30 | M47D001010 | M47D001008 | HGD001S | NA | 04/02/12 |
| LCS1S | HGD001SL | 0.863 | 1 | NA | 0.100 | 0.0500 | 04/03/1210:20 | 04/02/1217:30 | M47D001011 | M47D001008 | HGD001S | NA | 04/02/12 |
| LCD1S | HGD001SC | 0.858 | 1 | NA | 0.100 | 0.0500 | 04/03/1210:23 | 04/02/1217:30 | M47D001012 | M47D001008 | HGD001S | NA | 04/02/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | ND | 0.997 | 12.3 | 0.114 | 0.0568 | 04/03/1211:00 | 04/02/1217:30 | M47D001030 | M47D001020 | HGD001S | 03/27/12 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | ND | 1.00 | 17.1 | 0.121 | 0.0603 | 04/03/1211:03 | 04/02/1217:30 | M47D001031 | M47D001020 | HGD001S | 03/27/12 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | ND | 1.00 | 11.5 | 0.113 | 0.0565 | 04/03/1211:09 | 04/02/1217:30 | M47D001034 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | ND | 0.993 | 11.9 | 0.113 | 0.0564 | 04/03/1211:11 | 04/02/1217:30 | M47D001035 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | ND | 1.01 | 13.8 | 0.117 | 0.0586 | 04/03/1211:13 | 04/02/1217:30 | M47D001036 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09 | ND | 0.987 | 12.8 | 0.113 | 0.0566 | 04/03/1211:15 | 04/02/1217:30 | M47D001037 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | ND | 0.997 | 11.1 | 0.112 | 0.0561 | 04/03/1211:17 | 04/02/1217:30 | M47D001038 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | ND | 1.01 | 20.0 | 0.126 | 0.0631 | 04/03/1211:20 | 04/02/1217:30 | M47D001039 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | ND | 0.992 | 16.1 | 0.118 | 0.0591 | 04/03/1211:22 | 04/02/1217:30 | M47D001040 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |

2105

SL-130

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCS1S | ICC009SL | 5.89 | 1 | NA | 1.00 | 0.500 | 03/31/1200:14 | 03/29/1217:10 | AC39-142 | AC39-138 | ICC009S | NA | 03/29/12 |
| LCD1S | ICC009SC | 5.86 | 1 | NA | 1.00 | 0.500 | 03/31/1200:30 | 03/29/1217:10 | AC39-143 | AC39-138 | ICC009S | NA | 03/29/12 |
| MBLK1S | ICC009SB | ND | 1 | NA | 1.00 | 0.500 | 03/31/1200:46 | 03/29/1217:10 | AC39-144 | AC39-138 | ICC009S | NA | 03/29/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | 1.40 | 1 | 12.3 | 1.14 | 0.570 | 03/31/1201:35 | 03/29/1217:10 | AC39-147 | AC39-145 | ICC009S | 03/27/1214:35 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | 0.860J | 1 | 17.1 | 1.21 | 0.603 | 03/31/1201:51 | 03/29/1217:10 | AC39-148 | AC39-145 | ICC009S | 03/27/1211:10 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | ND | 1 | 11.5 | 1.13 | 0.565 | 03/31/1202:07 | 03/29/1217:10 | AC39-149 | AC39-145 | ICC009S | 03/27/1209:40 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | ND | 1 | 11.9 | 1.14 | 0.568 | 03/31/1202:23 | 03/29/1217:10 | AC39-150 | AC39-145 | ICC009S | 03/27/1210:17 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | ND | 1 | 13.8 | 1.16 | 0.580 | 03/31/1202:39 | 03/29/1217:10 | AC39-151 | AC39-145 | ICC009S | 03/27/1213:55 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09 | 1.61 | 1 | 12.8 | 1.15 | 0.573 | 03/31/1202:55 | 03/29/1217:10 | AC39-152 | AC39-145 | ICC009S | 03/27/1214:55 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | ND | 1 | 11.1 | 1.12 | 0.562 | 03/31/1203:12 | 03/29/1217:10 | AC39-153 | AC39-145 | ICC009S | 03/27/1210:50 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | ND | 1 | 20.0 | 1.25 | 0.625 | 03/31/1203:28 | 03/29/1217:10 | AC39-154 | AC39-145 | ICC009S | 03/27/1214:35 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | ND | 1 | 16.1 | 1.19 | 0.596 | 03/31/1203:44 | 03/29/1217:10 | AC39-155 | AC39-145 | ICC009S | 03/27/1210:20 | 03/27/12 |

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SL-130

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD004SB | ND | 1 | NA | 20.0 | 10.0 | 04/05/1204:49 | 04/02/1215:30 | JD05029 | JD05028 | PCD004S | NA | 04/02/12 |
| LCS1S | PCD004SL | 272 | 1 | NA | 20.0 | 10.0 | 04/05/1205:31 | 04/02/1215:30 | JD05031 | JD05028 | PCD004S | NA | 04/02/12 |
| LCD1S | PCD004SC | 271 | 1 | NA | 20.0 | 10.0 | 04/05/1205:52 | 04/02/1215:30 | JD05032 | JD05028 | PCD004S | NA | 04/02/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | ND | 1 | 12.3 | 22.8 | 11.4 | 04/05/1206:13 | 04/02/1215:30 | JD05033 | JD05028 | PCD004S | 03/27/1214:35 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | ND | 1 | 17.1 | 24.1 | 12.1 | 04/05/1206:34 | 04/02/1215:30 | JD05034 | JD05028 | PCD004S | 03/27/1211:10 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | ND | 1 | 11.5 | 22.6 | 11.3 | 04/05/1206:55 | 04/02/1215:30 | JD05035 | JD05028 | PCD004S | 03/27/1209:40 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | ND | 1 | 11.9 | 22.7 | 11.4 | 04/05/1207:16 | 04/02/1215:30 | JD05036 | JD05028 | PCD004S | 03/27/1210:17 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | ND | 1 | 13.8 | 23.2 | 11.6 | 04/05/1207:37 | 04/02/1215:30 | JD05037 | JD05028 | PCD004S | 03/27/1213:55 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | ND | 1 | 11.1 | 22.5 | 11.2 | 04/05/1209:01 | 04/02/1215:30 | JD05041 | JD05039 | PCD004S | 03/27/1210:50 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | ND | 1 | 20.0 | 25.0 | 12.5 | 04/05/1209:22 | 04/02/1215:30 | JD05042 | JD05039 | PCD004S | 03/27/1214:35 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | ND | 1 | 16.1 | 23.8 | 11.9 | 04/05/1209:43 | 04/02/1215:30 | JD05043 | JD05039 | PCD004S | 03/27/1210:20 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09W | ND | 1 | 12.8 | 22.9 | 11.5 | 04/05/1214:13 | 04/02/1215:30 | JD05053 | JD05052 | PCD004S | 03/27/1214:55 | 03/27/12 |

C1222

SL-130

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | 7.32 | 1 | NA | NA | NA | 03/29/1218:20 | 03/29/1218:20 | 12PHC027S01 | 12PHC027S | 12PHC027S | 03/27/1214:35 | 03/27/12 |
| SL-039-NBZ-SB-2.0-3.0DUP | C273-04D | 7.29 | 1 | NA | NA | NA | 03/29/1218:20 | 03/29/1218:20 | 12PHC027S02 | 12PHC027S | 12PHC027S | 03/27/1214:35 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | 7.48 | 1 | NA | NA | NA | 03/29/1218:23 | 03/29/1218:20 | 12PHC027S03 | 12PHC027S | 12PHC027S | 03/27/1211:10 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | 6.66 | 1 | NA | NA | NA | 03/29/1218:25 | 03/29/1218:20 | 12PHC027S04 | 12PHC027S | 12PHC027S | 03/27/1209:40 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | 6.57 | 1 | NA | NA | NA | 03/29/1218:27 | 03/29/1218:20 | 12PHC027S05 | 12PHC027S | 12PHC027S | 03/27/1210:17 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | 6.27 | 1 | NA | NA | NA | 03/29/1218:28 | 03/29/1218:20 | 12PHC027S06 | 12PHC027S | 12PHC027S | 03/27/1213:55 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09 | 7.56 | 1 | NA | NA | NA | 03/29/1218:32 | 03/29/1218:20 | 12PHC027S07 | 12PHC027S | 12PHC027S | 03/27/1214:55 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | 6.42 | 1 | NA | NA | NA | 03/29/1218:34 | 03/29/1218:20 | 12PHC027S08 | 12PHC027S | 12PHC027S | 03/27/1210:50 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | 7.54 | 1 | NA | NA | NA | 03/29/1218:36 | 03/29/1218:20 | 12PHC027S09 | 12PHC027S | 12PHC027S | 03/27/1214:35 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | 6.47 | 1 | NA | NA | NA | 03/29/1218:38 | 03/29/1218:20 | 12PHC027S10 | 12PHC027S | 12PHC027S | 03/27/1210:20 | 03/27/12 |

12H27

SL-130

METHOD 6850
PERCHLORATE BY LC/MS

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : SOIL
Instrument ID : GO

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PLC003SB | ND | 1 | NA | 5.00 | 2.50 | 03/30/1208:01 | 03/29/1216:32 | NC30004 | NC30003 | PLC003S | NA | 03/29/12 |
| LCS1S | PLC003SL | 22.6 | 1 | NA | 5.00 | 2.50 | 03/30/1208:15 | 03/29/1216:32 | NC30005 | NC30003 | PLC003S | NA | 03/29/12 |
| LCD1S | PLC003SC | 22.9 | 1 | NA | 5.00 | 2.50 | 03/30/1208:29 | 03/29/1216:32 | NC30006 | NC30003 | PLC003S | NA | 03/29/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | ND | 1 | 11.9 | 5.68 | 2.84 | 03/30/1209:40 | 03/29/1216:32 | NC30011 | NC30003 | PLC003S | 03/27/1210:17 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | ND | 1 | 13.8 | 5.80 | 2.90 | 03/30/1209:54 | 03/29/1216:32 | NC30012 | NC30003 | PLC003S | 03/27/1213:55 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09 | ND | 1 | 12.8 | 5.73 | 2.87 | 03/30/1210:09 | 03/29/1216:32 | NC30013 | NC30003 | PLC003S | 03/27/1214:55 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | ND | 1 | 11.1 | 5.62 | 2.81 | 03/30/1210:37 | 03/29/1216:32 | NC30015 | NC30014 | PLC003S | 03/27/1210:50 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | ND | 1 | 20.0 | 6.25 | 3.12 | 03/30/1210:51 | 03/29/1216:32 | NC30016 | NC30014 | PLC003S | 03/27/1214:35 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | ND | 1 | 16.1 | 5.96 | 2.98 | 03/30/1211:05 | 03/29/1216:32 | NC30017 | NC30014 | PLC003S | 03/27/1210:20 | 03/27/12 |

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SL-130

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD001SB | ND | 1 | NA | 1.00 | 0.500 | 04/02/1218:11 | 04/02/1214:09 | ID02003 | ID02001 | HCD001S | NA | 04/02/12 |
| MBLK1S | HCD001SQ | ND | 1 | NA | 1.00 | 0.500 | 04/02/1218:21 | 04/02/1214:09 | ID02004 | ID02001 | HCD001S | NA | 04/02/12 |
| LCS1S | CSD001SL | 10.0 | 1 | NA | 1.00 | 0.500 | 04/02/1218:31 | 04/02/1214:09 | ID02005 | ID02001 | HCD001S | NA | 04/02/12 |
| LCS1S | CSD001SX | 10.0 | 1 | NA | 1.00 | 0.500 | 04/02/1218:42 | 04/02/1214:09 | ID02006 | ID02001 | HCD001S | NA | 04/02/12 |
| LCS2S | CID001SL | 206 | 10 | NA | 10.0 | 5.00 | 04/02/1219:03 | 04/02/1214:09 | ID02007 | ID02001 | HCD001S | NA | 04/02/12 |
| LCS2S | CID001SX | 213 | 10 | NA | 10.0 | 5.00 | 04/02/1219:13 | 04/02/1214:09 | ID02008 | ID02001 | HCD001S | NA | 04/02/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | ND | 1 | 12.3 | 1.14 | 0.570 | 04/02/1220:57 | 04/02/1214:09 | ID02017 | ID02013 | HCD001S | 03/27/1214:35 | 03/27/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04R | ND | 1 | 12.3 | 1.14 | 0.570 | 04/02/1221:07 | 04/02/1214:09 | ID02018 | ID02013 | HCD001S | 03/27/1214:35 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | ND | 1 | 17.1 | 1.21 | 0.603 | 04/02/1221:18 | 04/02/1214:09 | ID02019 | ID02013 | HCD001S | 03/27/1211:10 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05R | ND | 1 | 17.1 | 1.21 | 0.603 | 04/02/1221:28 | 04/02/1214:09 | ID02020 | ID02013 | HCD001S | 03/27/1211:10 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | ND | 1 | 11.5 | 1.13 | 0.565 | 04/02/1221:39 | 04/02/1214:09 | ID02021 | ID02013 | HCD001S | 03/27/1209:40 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06R | ND | 1 | 11.5 | 1.13 | 0.565 | 04/02/1221:49 | 04/02/1214:09 | ID02022 | ID02013 | HCD001S | 03/27/1209:40 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | ND | 1 | 11.9 | 1.14 | 0.568 | 04/02/1221:59 | 04/02/1214:09 | ID02023 | ID02013 | HCD001S | 03/27/1210:17 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07R | ND | 1 | 11.9 | 1.14 | 0.568 | 04/02/1222:10 | 04/02/1214:09 | ID02024 | ID02013 | HCD001S | 03/27/1210:17 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | ND | 1 | 13.8 | 1.16 | 0.580 | 04/02/1222:51 | 04/02/1214:09 | ID02027 | ID02025 | HCD001S | 03/27/1213:55 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08R | ND | 1 | 13.8 | 1.16 | 0.580 | 04/02/1223:02 | 04/02/1214:09 | ID02028 | ID02025 | HCD001S | 03/27/1213:55 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09 | ND | 1 | 12.8 | 1.15 | 0.573 | 04/02/1223:12 | 04/02/1214:09 | ID02029 | ID02025 | HCD001S | 03/27/1214:55 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09R | ND | 1 | 12.8 | 1.15 | 0.573 | 04/02/1223:23 | 04/02/1214:09 | ID02030 | ID02025 | HCD001S | 03/27/1214:55 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | ND | 1 | 11.1 | 1.12 | 0.562 | 04/02/1223:33 | 04/02/1214:09 | ID02031 | ID02025 | HCD001S | 03/27/1210:50 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10R | ND | 1 | 11.1 | 1.12 | 0.562 | 04/02/1223:43 | 04/02/1214:09 | ID02032 | ID02025 | HCD001S | 03/27/1210:50 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | ND | 1 | 20.0 | 1.25 | 0.625 | 04/02/1223:54 | 04/02/1214:09 | ID02033 | ID02025 | HCD001S | 03/27/1214:35 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11R | ND | 1 | 20.0 | 1.25 | 0.625 | 04/03/1200:04 | 04/02/1214:09 | ID02034 | ID02025 | HCD001S | 03/27/1214:35 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | ND | 1 | 16.1 | 1.19 | 0.596 | 04/03/1200:15 | 04/02/1214:09 | ID02035 | ID02025 | HCD001S | 03/27/1210:20 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12R | ND | 1 | 16.1 | 1.19 | 0.596 | 04/03/1200:25 | 04/02/1214:09 | ID02036 | ID02025 | HCD001S | 03/27/1210:20 | 03/27/12 |

C273

SL-130

SL-131

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

131 CZ 6/17/13



Sample Description: SL-130-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-NBZ-SS

LLI Sample # SW 6600778
LLI Group # 1299284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2012 10:35

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6607 SDG#: DX166-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.1 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

131 cz 6/17/13



Sample Description: SL-130-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-NBZ-SS

LLI Sample # SW 6600778
LLI Group # 1299284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2012 10:35

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6607 SDG#: DX166-07

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0628 | JQ | 0.0242 | 1.05 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.185 | JB | 0.0268 | 5.25 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.111 | JB | 0.0215 | 5.25 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.155 | JB | 0.0228 | 5.25 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.132 | JB | 0.0213 | 5.25 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.886 | JB | 0.0157 | 5.25 | 1 |
| 11031 | OCDD | 3268-87-9 | 4.85 | JB | 0.0183 | 10.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.102 | J | 0.0321 | 1.05 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.306 | JB | 0.0206 | 5.25 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.424 | JB | 0.0200 | 5.25 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.206 | JB | 0.0181 | 5.25 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.162 | JB | 0.0161 | 5.25 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.100 | JB | 0.0193 | 5.25 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.136 | JB | 0.0180 | 5.25 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.320 | JB | 0.0104 | 5.25 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0836 | JB | 0.0153 | 5.25 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.527 | JB | 0.0168 | 10.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 81 | 25 - 164 |
| 13C12-12378-PeCDD | 78 | 25 - 181 |
| 13C12-123478-HxCDD | 76 | 32 - 141 |
| 13C12-123678-HxCDD | 77 | 28 - 130 |
| 13C12-123789-HxCDD | 76 | 28 - 130 |
| 13C12-1234678-HpCDD | 74 | 23 - 140 |
| 13C12-OCDD | 67 | 17 - 157 |
| 13C12-2378-TCDF | 67 | 24 - 169 |
| 13C12-12378-PeCDF | 75 | 24 - 185 |
| 13C12-23478-PeCDF | 73 | 21 - 178 |
| 13C12-123478-HxCDF | 73 | 26 - 152 |
| 13C12-123678-HxCDF | 79 | 26 - 123 |
| 13C12-234678-HxCDF | 74 | 28 - 136 |
| 13C12-123789-HxCDF | 75 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 66 | 26 - 138 |
| 13C12-OCDF | 60 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

S2-131

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com



131 CR 6/7/13

Sample Description: SL-130-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-NBZ-SS

LLI Sample # SW 6600778
LLI Group # 1299284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2012 10:35

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6607 SDG#: DX166-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| S | *Saturation of detection signal* | | | | | |

*=This limit was used in the evaluation of the final result

SL-131

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

131 cr 6/17/13



**Sample Description:** SL-~~130~~-131-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-NBZ-SS

LLI Sample # SW 6600778
LLI Group # 1299284
Account # 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:35

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6607 SDG#: DX166-07

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 08:08 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

SL-131

131 C3 6/6/13

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/29/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/29/12 |
| Batch No. | : 12C3051 | Date Extracted | : 04/10/12 14:11 |
| Sample ID | : SL-131-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/17/12 03:46 |
| Lab Samp ID | : C305-09 | Dilution Factor | : 1 |
| Lab File ID | : RDH253 | Matrix | : SOIL |
| Ext Btch ID | : SVD019S | % Moisture | : 7.6 |
| Calib. Ref. | : RCH007 | Instrument ID | : T-QE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 450 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 869 | 1082 | 80.3 | 35-130 |
| 2-FLUOROBIPHENYL | 228 | 360.7 | 63.1 | 45-130 |
| 2-FLUOROPHENOL | 791 | 1082 | 73.1 | 25-130 |
| NITROBENZENE-D5 | 235 | 360.7 | 65.1 | 40-130 |
| PHENOL-D5 | 881 | 1082 | 81.4 | 25-120 |
| TERPHENYL-D14 | 309 | 360.7 | 85.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

CZ 6/17/13

131

SL-131

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-131-N8Z-SS-0.0-0.5 | Date Analyzed: 04/17/12 03:46 |
| Lab Samp ID: C305-09 | Dilution Factor: 1 |
| Lab File ID: RDH253 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 7.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-QE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | ND | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | ND | 1.8 | 0.92 |
| PYRENE | ND | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 18J | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | 14J | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 261 | 360.7 | 72.2 | 40-130 |
| 2-FLUOROBIPHENYL | 250 | 360.7 | 69.4 | 45-130 |
| TERPHENYL-D14 | 293 | 360.7 | 81.4 | 45-135 |

131 CZ 6/12/13

SC-131

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 10:30 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 22:56 |
| Lab Samp ID: C305-09 | Dilution Factor: 1 |
| Lab File ID: LD17029A | Matrix : SOIL |
| Ext Btch ID: CPD021S | % Moisture : 7.6 |
| Calib. Ref.: LD17005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | | RL (ug/kg) | MDL (ug/kg) | |
|---|---|---|---|---|---|
| ALPHA-BHC | (ND) | ND | 0.18 | 0.092 | 0.092 |
| GAMMA-BHC (LINDANE) | (ND) | 0.17J | 0.18 | 0.092 | 0.092 |
| BETA-BHC | (ND) | ND | 0.18 | 0.092 | 0.092 |
| HEPTACHLOR | 0.46 | (ND) | 0.18 | 0.092 | 0.092 |
| DELTA-BHC | (ND) | 3.8 | 0.18 | 0.092 | 0.092 |
| ALDRIN | (ND) | ND | 0.18 | 0.092 | 0.092 |
| HEPTACHLOR EPOXIDE | 1.3 | (ND) | 0.18 | 0.092 | 0.092 |
| ENDOSULFAN I | (ND) | 0.75 | 0.18 | 0.092 | 0.092 |
| 4,4'-DDE | 0.22J | (0.63) | 0.37 | 0.18 | 0.18 |
| DIELDRIN | (ND) | ND | 0.37 | 0.18 | 0.18 |
| ENDRIN | 0.97 | (ND) | 0.37 | 0.18 | 0.18 |
| 4,4'-DDD | 0.21J | (ND) | 0.37 | 0.18 | 0.18 |
| ENDOSULFAN II | 1.2 | (ND) | 0.37 | 0.18 | 0.18 |
| 4,4'-DDT | (ND) | 0.40 | 0.37 | 0.18 | 0.18 |
| ENDRIN ALDEHYDE | (ND) | ND | 0.37 | 0.18 | 0.18 |
| ENDOSULFAN SULFATE | (ND) | 0.72 | 0.37 | 0.18 | 0.18 |
| ENDRIN KETONE | (ND) | ND | 0.37 | 0.18 | 0.18 |
| METHOXYCHLOR | 1.8J | (ND) | 1.8 | 0.92 | 0.92 |
| MIREX | 0.74 | (ND) | 0.37 | 0.18 | 0.18 |
| TOXAPHENE | (ND) | ND | 7.1 | 3.6 | 3.6 |
| CHLORDANE (TECHNICAL) | (ND) | ND | 3.7 | 1.8 | 1.8 |

| SURROGATE PARAMETERS | RESULTS | | SPK_AMT | % RECOVERY | | QC LIMIT |
|---|---|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.004 | (7.182) | 5.772 | 86.7 | (124) | 50-130 |
| DECACHLOROBIPHENYL | 4.539 | (5.419) | 5.772 | 78.7 | (93.9) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SL-131

131 cz 6/17/13

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 13:15 |
| Sample ID: SL-131-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 22:01 |
| Lab Samp ID: C305-09 | Dilution Factor: 1 |
| Lab File ID: KD12086A | Matrix : SOIL |
| Ext Btch ID: CPD022S | % Moisture : 7.6 |
| Calib. Ref.: KD12074A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1221 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1232 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1242 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1248 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1254 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1260 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1262 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1268 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 5432 | (ND) \| ND | 3.6 | 1.8 \| 1.8 |
| AROCLOR 5442 | (ND) \| ND | 3.6 | 1.8 \| 1.8 |
| AROCLOR 5460 | (ND) \| ND | 3.6 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.456) \| 4.688 | 5.772 | (112) \| 81.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.269) \| 5.029 | 5.772 | (126) \| 87.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

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SL-131

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 02:50 |
| Lab Samp ID: C305-09 | Dilution Factor: 1 |
| Lab File ID: WD09045A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 7.6 |
| Calib. Ref.: WD09037A | Instrument ID : GCTO16 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| 2,4-DB | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| 2,4,5-T | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| 2,4,5-TP(SILVEX) | 0.53 \| (ND) | 0.18 | 0.092 \| 0.092 |
| DALAPON | (ND) \| ND | 9.7 | 4.9 \| 4.9 |
| DICAMBA | (ND) \| ND | 1.3 | 0.65 \| 0.65 |
| DICHLOROPROP | (ND) \| ND | 2.6 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| MCPA | (ND) \| ND | 270 | 140 \| 140 |
| MCPP | (ND) \| ND | 270 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (56.29) \| 43.83 | 162.3 | (34.7) \| 27.0 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

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SL-131

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 03/29/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 03/29/12 |
| SDG NO. | : 12C305 | Date Extracted: | 04/18/12 10:17 |
| Sample ID: | SL-131-NBZ-SS-0.0-0.5 | Date Analyzed: | 04/19/12 14:53 |
| Lab Samp ID: | C305-09R | Dilution Factor: | 1.00 |
| Lab File ID: | 98D11027 | Matrix : | SOIL |
| Ext Btch ID: | IMD027S | % Moisture : | 7.6 |
| Calib. Ref.: | 98D11017 | Instrument ID : | T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9740 | 26.0 | 13.0 |
| Antimony | 0.190J | 0.216 | 0.108 |
| Arsenic | 3.05 | 0.433 | 0.216 |
| Barium | 71.6 | 0.433 | 0.216 |
| Beryllium | 0.372 | 0.108 | 0.0541 |
| Boron | ND | 5.41 | 2.71 |
| Cadmium | 0.166 | 0.108 | 0.0541 |
| Calcium | 2440 | 21.6 | 10.8 |
| Chromium | 17.5 | 0.433 | 0.216 |
| Cobalt | 5.48 | 0.108 | 0.0541 |
| Copper | 7.14 | 0.433 | 0.216 |
| Iron | 20500 | 21.6 | 10.8 |
| Lead | 4.32 | 0.216 | 0.108 |
| Magnesium | 6150 | 10.8 | 5.41 |
| Manganese | 293 | 0.541 | 0.271 |
| Molybdenum | 0.354 | 0.108 | 0.0541 |
| Nickel | 10.3 | 0.433 | 0.216 |
| Potassium | 3140 | 64.9 | 32.5 |
| Selenium | ND | 0.433 | 0.216 |
| Silver | ND | 0.108 | 0.0541 |
| Sodium | ND | 108 | 54.1 |
| Strontium | 6.88 | 0.541 | 0.271 |
| Thallium | 0.225 | 0.108 | 0.0541 |
| Tin | ND | 10.8 | 5.41 |
| Titanium | 1010 | 1.08 | 0.541 |
| Vanadium | 37.4 | 0.108 | 0.0541 |
| Zinc | 50.1 | 3.25 | 1.62 |
| Lithium | 25.8 | 2.16 | 1.08 |
| Phosphorus | 384 | 13.0 | 6.49 |
| Zirconium | ND | 5.41 | 2.71 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD006SB | ND | 1 | NA | 0.100 | 0.0500 | 04/04/1215:25 | 04/04/1213:00 | M47D003010 | M47D003008 | HGD006S | NA | 04/04/12 |
| LCS1S | HGD006SL | 0.847 | 1 | NA | 0.100 | 0.0500 | 04/04/1215:27 | 04/04/1213:00 | M47D003011 | M47D003008 | HGD006S | NA | 04/04/12 |
| LCD1S | HGD006SC | 0.845 | 1 | NA | 0.100 | 0.0500 | 04/04/1215:29 | 04/04/1213:00 | M47D003012 | M47D003008 | HGD006S | NA | 04/04/12 |
| SL-092-NBZ-SS-0.0-0.5AS | C305-05A | 0.989 | 1.00 | 14.6 | 0.117 | 0.0585 | 04/04/1215:31 | 04/04/1213:00 | M47D003013 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | ND | 1.00 | 14.6 | 0.117 | 0.0585 | 04/04/1215:33 | 04/04/1213:00 | M47D003014 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5DL | C305-05J | ND | 5.02 | 14.6 | 0.588 | 0.294 | 04/04/1215:35 | 04/04/1213:00 | M47D003015 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M | 1.05 | 1.01 | 14.6 | 0.118 | 0.0591 | 04/04/1215:37 | 04/04/1213:00 | M47D003016 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S | 1.03 | 1.00 | 14.6 | 0.117 | 0.0585 | 04/04/1215:39 | 04/04/1213:00 | M47D003017 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5AS | C305-08A | 0.911 | 1.00 | 8.9 | 0.110 | 0.0549 | 04/04/1215:41 | 04/04/1213:00 | M47D003018 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | ND | 1.00 | 8.9 | 0.110 | 0.0549 | 04/04/1215:44 | 04/04/1213:00 | M47D003019 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5DL | C305-08J | ND | 5.02 | 8.9 | 0.551 | 0.276 | 04/04/1215:50 | 04/04/1213:00 | M47D003022 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M | 0.951 | 1.00 | 8.9 | 0.110 | 0.0549 | 04/04/1215:52 | 04/04/1213:00 | M47D003023 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S | 0.936 | 0.988 | 8.9 | 0.108 | 0.0542 | 04/04/1215:54 | 04/04/1213:00 | M47D003024 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-044-NBZ-SS-0.0-0.5DL | C305-03T | 24.3 | 50.1 | 3.5 | 5.19 | 2.60 | 04/04/1216:42 | 04/04/1213:00 | M47D003046 | M47D003044 | HGD006S | 03/29/12 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | ND | 0.992 | 17.7 | 0.121 | 0.0603 | 04/04/1215:58 | 04/04/1213:00 | M47D003026 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | ND | 1.00 | 12.5 | 0.114 | 0.0571 | 04/04/1216:00 | 04/04/1213:00 | M47D003027 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | ND | 1.01 | 12.8 | 0.116 | 0.0579 | 04/04/1216:03 | 04/04/1213:00 | M47D003028 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-100-NBZ-SS-0.0-0.5 | C305-09 | ND | 0.990 | 7.6 | 0.107 | 0.0536 | 04/04/1216:05 | 04/04/1213:00 | M47D003029 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | ND | 0.987 | 13.9 | 0.115 | 0.0573 | 04/04/1216:07 | 04/04/1213:00 | M47D003030 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-091-NBZ-SS-4.0-5.0 | C305-12 | ND | 1.00 | 18.6 | 0.123 | 0.0614 | 04/04/1216:09 | 04/04/1213:00 | M47D003031 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | ND | 0.998 | 15.9 | 0.119 | 0.0593 | 04/04/1216:15 | 04/04/1213:00 | M47D003034 | M47D003032 | HGD006S | 03/29/12 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | ND | 0.988 | 8.7 | 0.108 | 0.0541 | 04/04/1216:17 | 04/04/1213:00 | M47D003035 | M47D003032 | HGD006S | 03/29/12 | 03/29/12 |

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SL-131

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305

Matrix : SOIL
Instrument ID : DO

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD002SB | ND | 1 | NA | 1.00 | 0.500 | 04/03/1216:30 | 04/02/1216:09 | AD03-25 | AD03-23 | ICD002S | NA | 04/02/12 |
| LCS1S | ICD002SL | 5.78 | 1 | NA | 1.00 | 0.500 | 04/03/1216:46 | 04/02/1216:09 | AD03-26 | AD03-23 | ICD002S | NA | 04/02/12 |
| LCD1S | ICD002SC | 5.79 | 1 | NA | 1.00 | 0.500 | 04/03/1217:02 | 04/02/1216:09 | AD03-27 | AD03-23 | ICD002S | NA | 04/02/12 |
| SL-044-NBZ-SS-0.0-0.5 | C305-03 | 0.769J | 1 | NA | 1.00 | 0.500 | 04/03/1217:18 | 04/02/1216:09 | AD03-28 | AD03-23 | ICD002S | 03/29/1213:11 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | 0.529J | 1 | NA | 1.00 | 0.500 | 04/03/1217:35 | 04/02/1216:09 | AD03-29 | AD03-23 | ICD002S | 03/29/1209:09 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1217:51 | 04/02/1216:09 | AD03-30 | AD03-23 | ICD002S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M | 6.25 | 1 | NA | 1.00 | 0.500 | 04/03/1218:07 | 04/02/1216:09 | AD03-31 | AD03-23 | ICD002S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S | 6.26 | 1 | NA | 1.00 | 0.500 | 04/03/1218:23 | 04/02/1216:09 | AD03-32 | AD03-23 | ICD002S | 03/29/1211:43 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1218:39 | 04/02/1216:09 | AD03-33 | AD03-23 | ICD002S | 03/29/1210:05 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1219:44 | 04/02/1216:09 | AD03-37 | AD03-35 | ICD002S | 03/29/1209:25 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1220:00 | 04/02/1216:09 | AD03-38 | AD03-35 | ICD002S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M | 6.25 | 1 | NA | 1.00 | 0.500 | 04/03/1220:16 | 04/02/1216:09 | AD03-39 | AD03-35 | ICD002S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S | 6.20 | 1 | NA | 1.00 | 0.500 | 04/03/1220:32 | 04/02/1216:09 | AD03-40 | AD03-35 | ICD002S | 03/29/1215:10 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1220:49 | 04/02/1216:09 | AD03-41 | AD03-35 | ICD002S | 03/29/1210:35 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | 0.570J | 1 | NA | 1.00 | 0.500 | 04/03/1221:05 | 04/02/1216:09 | AD03-42 | AD03-35 | ICD002S | 03/29/1213:55 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12 | 4.50 | 1 | NA | 1.00 | 0.500 | 04/03/1221:21 | 04/02/1216:09 | AD03-43 | AD03-35 | ICD002S | 03/29/1210:20 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1221:37 | 04/02/1216:09 | AD03-44 | AD03-35 | ICD002S | 03/29/1212:09 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1221:53 | 04/02/1216:09 | AD03-45 | AD03-35 | ICD002S | 03/29/1215:10 | 03/29/12 |

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SL-131

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD006SB | ND | 1 | NA | 20.0 | 10.0 | 04/06/1202:15 | 04/02/1216:00 | JD06028 | JD06027 | PCD006S | NA | 04/02/12 |
| LCS1S | PCD006SL | 272 | 1 | NA | 20.0 | 10.0 | 04/06/1202:57 | 04/02/1216:00 | JD06030 | JD06027 | PCD006S | NA | 04/02/12 |
| LCD1S | PCD006SC | 276 | 1 | NA | 20.0 | 10.0 | 04/06/1203:18 | 04/02/1216:00 | JD06031 | JD06027 | PCD006S | NA | 04/02/12 |
| SL-044-NBZ-SS-0.0-0.5 | C305-03 | 32.1 | 1 | 3.5 | 20.7 | 10.4 | 04/06/1203:39 | 04/02/1216:00 | JD06032 | JD06027 | PCD006S | 03/29/1213:11 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | ND | 1 | 17.7 | 24.3 | 12.2 | 04/06/1204:00 | 04/02/1216:00 | JD06033 | JD06027 | PCD006S | 03/29/1209:09 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | ND | 1 | 14.6 | 23.4 | 11.7 | 04/06/1204:21 | 04/02/1216:00 | JD06034 | JD06027 | PCD006S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M | 316 | 1 | 14.6 | 23.4 | 11.7 | 04/06/1204:42 | 04/02/1216:00 | JD06035 | JD06027 | PCD006S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S | 317 | 1 | 14.6 | 23.4 | 11.7 | 04/06/1205:03 | 04/02/1216:00 | JD06036 | JD06027 | PCD006S | 03/29/1211:43 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | ND | 1 | 12.5 | 22.9 | 11.4 | 04/06/1206:06 | 04/02/1216:00 | JD06039 | JD06038 | PCD006S | 03/29/1210:05 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | ND | 1 | 12.8 | 22.9 | 11.5 | 04/06/1206:27 | 04/02/1216:00 | JD06040 | JD06038 | PCD006S | 03/29/1209:25 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | ND | 1 | 8.9 | 22.0 | 11.0 | 04/06/1206:48 | 04/02/1216:00 | JD06041 | JD06038 | PCD006S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M | 290 | 1 | 8.9 | 22.0 | 11.0 | 04/06/1207:09 | 04/02/1216:00 | JD06042 | JD06038 | PCD006S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S | 292 | 1 | 8.9 | 22.0 | 11.0 | 04/06/1207:30 | 04/02/1216:00 | JD06043 | JD06038 | PCD006S | 03/29/1215:10 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09 | ND | 1 | 7.6 | 21.6 | 10.8 | 04/06/1207:51 | 04/02/1216:00 | JD06044 | JD06038 | PCD006S | 03/29/1210:35 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | ND | 1 | 13.9 | 23.2 | 11.6 | 04/06/1208:12 | 04/02/1216:00 | JD06045 | JD06038 | PCD006S | 03/29/1213:55 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12 | ND | 1 | 18.6 | 24.6 | 12.3 | 04/06/1208:34 | 04/02/1216:00 | JD06046 | JD06038 | PCD006S | 03/29/1210:20 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | ND | 1 | 15.9 | 23.8 | 11.9 | 04/06/1209:37 | 04/02/1216:00 | JD06049 | JD06048 | PCD006S | 03/29/1212:09 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | ND | 1 | 8.7 | 21.9 | 11.0 | 04/06/1209:58 | 04/02/1216:00 | JD06050 | JD06048 | PCD006S | 03/29/1215:10 | 03/29/12 |

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SL-131

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD004SB | ND | 1 | NA | 1.00 | 0.500 | 04/05/1222:20 | 04/04/1214:52 | ID06010 | ID06008 | HCD004S | NA | 04/04/12 |
| MBLK1S | HCD004SQ | ND | 1 | NA | 1.00 | 0.500 | 04/05/1222:30 | 04/04/1214:52 | ID06011 | ID06008 | HCD004S | NA | 04/04/12 |
| LCS1S | CSD004SL | 10.2 | 1 | NA | 1.00 | 0.500 | 04/05/1222:41 | 04/04/1214:52 | ID06012 | ID06008 | HCD004S | NA | 04/04/12 |
| LCS1S | CSD004SX | 11.1 | 1 | NA | 1.00 | 0.500 | 04/05/1222:51 | 04/04/1214:52 | ID06013 | ID06008 | HCD004S | NA | 04/04/12 |
| LCS2S | CID004SL | 302 | 20 | NA | 20.0 | 10.0 | 04/05/1223:02 | 04/04/1214:52 | ID06014 | ID06008 | HCD004S | NA | 04/04/12 |
| LCS2S | CID004SX | 293 | 20 | NA | 20.0 | 10.0 | 04/05/1223:12 | 04/04/1214:52 | ID06015 | ID06008 | HCD004S | NA | 04/04/12 |
| SL-044-NBZ-SS-0.0-0.5 | C305-03 | ND | 1 | 3.5 | 1.04 | 0.518 | 04/05/1223:22 | 04/04/1214:52 | ID06016 | ID06008 | HCD004S | 03/29/1213:11 | 03/29/12 |
| SL-044-NBZ-SS-0.0-0.5 | C305-03R | ND | 1 | 3.5 | 1.04 | 0.518 | 04/05/1223:33 | 04/04/1214:52 | ID06017 | ID06008 | HCD004S | 03/29/1213:11 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | ND | 1 | 17.7 | 1.22 | 0.608 | 04/05/1223:43 | 04/04/1214:52 | ID06018 | ID06008 | HCD004S | 03/29/1209:09 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04R | ND | 1 | 17.7 | 1.22 | 0.608 | 04/05/1223:54 | 04/04/1214:52 | ID06019 | ID06008 | HCD004S | 03/29/1209:09 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | ND | 1 | 14.6 | 1.17 | 0.585 | 04/06/1200:25 | 04/04/1214:52 | ID06022 | ID06020 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05R | ND | 1 | 14.6 | 1.17 | 0.585 | 04/06/1200:35 | 04/04/1214:52 | ID06023 | ID06020 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05H | 197 | 20 | 14.6 | 23.4 | 11.7 | 04/06/1201:48 | 04/04/1214:52 | ID06030 | ID06020 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05H1 | 167 | 20 | 14.6 | 23.4 | 11.7 | 04/06/1201:59 | 04/04/1214:52 | ID06031 | ID06020 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | ND | 1 | 8.9 | 1.10 | 0.549 | 04/06/1202:30 | 04/04/1214:52 | ID06034 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08R | ND | 1 | 8.9 | 1.10 | 0.549 | 04/06/1202:40 | 04/04/1214:52 | ID06035 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08G | 202 | 20 | 8.9 | 22.0 | 11.0 | 04/06/1203:32 | 04/04/1214:52 | ID06040 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08G1 | 194 | 20 | 8.9 | 22.0 | 11.0 | 04/06/1203:43 | 04/04/1214:52 | ID06041 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08H | 193 | 20 | 8.9 | 22.0 | 11.0 | 04/06/1203:53 | 04/04/1214:52 | ID06042 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08H1 | 177 | 20 | 8.9 | 22.0 | 11.0 | 04/06/1204:03 | 04/04/1214:52 | ID06043 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | ND | 1 | 12.5 | 1.14 | 0.571 | 04/06/1204:35 | 04/04/1214:52 | ID06046 | ID06044 | HCD004S | 03/29/1210:05 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06R | ND | 1 | 12.5 | 1.14 | 0.571 | 04/06/1204:45 | 04/04/1214:52 | ID06047 | ID06044 | HCD004S | 03/29/1210:05 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09 | ND | 1 | 7.6 | 1.08 | 0.541 | 04/06/1205:16 | 04/04/1214:52 | ID06050 | ID06044 | HCD004S | 03/29/1210:35 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09R | ND | 1 | 7.6 | 1.08 | 0.541 | 04/06/1205:27 | 04/04/1214:52 | ID06051 | ID06044 | HCD004S | 03/29/1210:35 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | ND | 1 | 13.9 | 1.16 | 0.581 | 04/06/1205:37 | 04/04/1214:52 | ID06052 | ID06044 | HCD004S | 03/29/1213:55 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10R | ND | 1 | 13.9 | 1.16 | 0.581 | 04/06/1205:47 | 04/04/1214:52 | ID06053 | ID06044 | HCD004S | 03/29/1213:55 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12 | ND | 1 | 18.6 | 1.23 | 0.614 | 04/06/1205:58 | 04/04/1214:52 | ID06054 | ID06044 | HCD004S | 03/29/1210:20 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12R | ND | 1 | 18.6 | 1.23 | 0.614 | 04/06/1206:08 | 04/04/1214:52 | ID06055 | ID06044 | HCD004S | 03/29/1210:20 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | ND | 1 | 15.9 | 1.19 | 0.595 | 04/06/1206:39 | 04/04/1214:52 | ID06058 | ID06056 | HCD004S | 03/29/1212:09 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13R | ND | 1 | 15.9 | 1.19 | 0.595 | 04/06/1206:50 | 04/04/1214:52 | ID06059 | ID06056 | HCD004S | 03/29/1212:09 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | ND | 1 | 8.7 | 1.10 | 0.548 | 04/06/1207:00 | 04/04/1214:52 | ID06060 | ID06056 | HCD004S | 03/29/1215:10 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14R | ND | 1 | 8.7 | 1.10 | 0.548 | 04/06/1207:11 | 04/04/1214:52 | ID06061 | ID06056 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M | 12.3 | 1 | 14.6 | 1.17 | 0.585 | 04/06/1210:53 | 04/04/1214:52 | ID06072 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M1 | 10.5 | 1 | 14.6 | 1.17 | 0.585 | 04/06/1211:03 | 04/04/1214:52 | ID06073 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S | 12.1 | 1 | 14.6 | 1.17 | 0.585 | 04/06/1211:14 | 04/04/1214:52 | ID06074 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S1 | 12.5 | 1 | 14.6 | 1.17 | 0.585 | 04/06/1211:24 | 04/04/1214:52 | ID06075 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05G | 178 | 20 | 14.6 | 23.4 | 11.7 | 04/06/1211:34 | 04/04/1214:52 | ID06076 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05G1 | 192 | 20 | 14.6 | 23.4 | 11.7 | 04/06/1211:45 | 04/04/1214:52 | ID06077 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M | 10.0 | 1 | 8.9 | 1.10 | 0.549 | 04/06/1211:55 | 04/04/1214:52 | ID06078 | ID06070 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M1 | 11.4 | 1 | 8.9 | 1.10 | 0.549 | 04/06/1212:06 | 04/04/1214:52 | ID06079 | ID06070 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S | 11.6 | 1 | 8.9 | 1.10 | 0.549 | 04/06/1212:16 | 04/04/1214:52 | ID06080 | ID06070 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S1 | 10.6 | 1 | 8.9 | 1.10 | 0.549 | 04/06/1212:26 | 04/04/1214:52 | ID06081 | ID06070 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | ND | 1 | 12.8 | 1.15 | 0.573 | 04/06/1213:23 | 04/04/1214:52 | ID06084 | ID06082 | HCD004S | 03/29/1209:25 | 03/29/12 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305

Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-044-NBZ-SS-0.0-0.5 | C305-03 | 7.47 | 1 | NA | NA | NA | 03/30/1219:15 | 03/30/1219:15 | 12PHC030S01 | PHC030S | PHC030S | 03/29/1213:11 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | 7.54 | 1 | NA | NA | NA | 03/30/1219:17 | 03/30/1219:15 | 12PHC030S02 | PHC030S | PHC030S | 03/29/1209:09 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | 7.38 | 1 | NA | NA | NA | 03/30/1219:19 | 03/30/1219:15 | 12PHC030S03 | PHC030S | PHC030S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5DUP | C305-05D | 7.42 | 1 | NA | NA | NA | 03/30/1219:20 | 03/30/1219:15 | 12PHC030S04 | PHD030S | PHC030S | 03/29/1211:43 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | 6.80 | 1 | NA | NA | NA | 03/30/1219:21 | 03/30/1219:15 | 12PHC030S05 | PH3030S | PHC030S | 03/29/1210:05 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | 7.00 | 1 | NA | NA | NA | 03/30/1219:22 | 03/30/1219:15 | 12PHC030S06 | PHC030S | PHC030S | 03/29/1209:25 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | 6.83 | 1 | NA | NA | NA | 03/30/1219:23 | 03/30/1219:15 | 12PHC030S07 | PHC030S | PHC030S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5DUP | C305-08D | 6.81 | 1 | NA | NA | NA | 03/30/1219:25 | 03/30/1219:15 | 12PHC030S08 | PHC030S | PHC030S | 03/29/1215:10 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09 | 6.49 | 1 | NA | NA | NA | 03/30/1219:25 | 03/30/1219:15 | 12PHC030S09 | PHC030S | PHC030S | 03/29/1210:35 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | 7.34 | 1 | NA | NA | NA | 03/30/1219:27 | 03/30/1219:15 | 12PHC030S10 | PHC030S | PHC030S | 03/29/1213:55 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12 | 7.43 | 1 | NA | NA | NA | 03/30/1219:29 | 03/30/1219:15 | 12PHC030S11 | PHC030S | PHC030S | 03/29/1210:20 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | 7.24 | 1 | NA | NA | NA | 03/30/1219:33 | 03/30/1219:15 | 12PHC030S12 | PHC030S | PHC030S | 03/29/1212:09 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | 6.91 | 1 | NA | NA | NA | 03/30/1219:34 | 03/30/1219:15 | 12PHC030S13 | PHC030S | PHC030S | 03/29/1215:10 | 03/29/12 |

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CR 4/17/13

151-175

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/03/12 21:57 |
| Sample ID: TB-032712 | Date Analyzed: 04/03/12 21:57 |
| Lab Samp ID: C273-13 | Dilution Factor: 1 |
| Lab File ID: RDV010 | Matrix : WATER |
| Ext Btch ID: VO01D01 | % Moisture : NA |
| Calib. Ref.: RBV366 | Instrument ID : T-O01 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,1-TRICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,2-TRICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROETHENE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| 1,2,3-TRICHLOROBENZENE | ND | 1.0 | 0.30 |
| 1,2,3-TRICHLOROPROPANE | ND | 2.0 | 0.50 |
| 1,2,4-TRICHLOROBENZENE | ND | 1.0 | 0.30 |
| 1,2,4-TRIMETHYLBENZENE | ND | 1.0 | 0.20 |
| 1,2-DIBROMO-3-CHLOROPROPANE | ND | 2.0 | 0.50 |
| 1,2-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 1,2-DICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,2-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 1,2-DIBROMOETHANE (EDB) | ND | 1.0 | 0.20 |
| 1,3,5-TRIMETHYLBENZENE | ND | 1.0 | 0.20 |
| 1,3-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 1,4-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 2,2-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 2-CHLOROTOLUENE | ND | 1.0 | 0.20 |
| 4-CHLOROTOLUENE | ND | 1.0 | 0.20 |
| BENZENE | ND | 1.0 | 0.20 |
| BROMOBENZENE | ND | 1.0 | 0.20 |
| BROMOCHLOROMETHANE | ND | 1.0 | 0.20 |
| BROMODICHLOROMETHANE | ND | 1.0 | 0.20 |
| BROMOFORM | ND | 1.0 | 0.30 |
| BROMOMETHANE | ND | 1.0 | 0.30 |
| CARBON TETRACHLORIDE | ND | 1.0 | 0.20 |
| CHLOROBENZENE | ND | 1.0 | 0.20 |
| CHLOROETHANE | ND | 1.0 | 0.30 |
| CHLOROFORM | ND | 1.0 | 0.20 |
| CHLOROMETHANE | ND | 1.0 | 0.30 |
| CIS-1,2-DICHLOROETHENE | ND | 1.0 | 0.20 |
| CIS-1,3-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| DIBROMOCHLOROMETHANE | ND | 1.0 | 0.20 |
| DIBROMOMETHANE | ND | 1.0 | 0.20 |
| DICHLORODIFLUOROMETHANE | ND | 1.0 | 0.30 |
| ETHYLBENZENE | ND | 1.0 | 0.20 |
| HEXACHLOROBUTADIENE | ND | 1.0 | 0.30 |
| ISOPROPYL BENZENE | ND | 1.0 | 0.20 |
| M,P-XYLENE | ND | 2.0 | 0.40 |
| METHYL TERT-BUTYL ETHER (MTBE) | ND | 1.0 | 0.20 |
| METHYLENE CHLORIDE | 0.53J | 1.0 | 0.50 |
| N-BUTYLBENZENE | ND | 1.0 | 0.20 |
| N-PROPYLBENZENE | ND | 1.0 | 0.20 |
| O-XYLENE | ND | 1.0 | 0.20 |
| P-ISOPROPYLTOLUENE | ND | 1.0 | 0.20 |
| SEC-BUTYLBENZENE | ND | 1.0 | 0.20 |
| STYRENE | ND | 1.0 | 0.20 |
| TERT-BUTYLBENZENE | ND | 1.0 | 0.20 |
| TETRACHLOROETHENE | ND | 1.0 | 0.20 |
| TOLUENE | ND | 1.0 | 0.20 |
| TRANS-1,2-DICHLOROETHENE | ND | 1.0 | 0.20 |
| TRANS-1,3-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| TRICHLOROETHENE | ND | 1.0 | 0.20 |
| TRICHLOROFLUOROMETHANE | ND | 1.0 | 0.30 |
| VINYL CHLORIDE | ND | 1.0 | 0.20 |
| ACETONE | ND | 10 | 5.0 |
| 2-BUTANONE (MEK) | ND | 10 | 4.0 |
| 2-HEXANONE | ND | 10 | 4.0 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 10 | 4.0 |
| FREON113 | ND | 1.0 | 0.30 |
| 2-CHLOROETHYL VINYL ETHER | ND | 2.0 | 1.0 |
| 2-CHLORO-1,1,1-TRIFLUOROETHANE | ND | 1.0 | 0.20 |
| CHLOROTRIFLUOROETHYLENE | ND | 1.0 | 0.20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 10.7 | 10.00 | 107 | 80-120 |
| 4-BROMOFLUOROBENZENE | 10.4 | 10.00 | 104 | 86-115 |
| TOLUENE-D8 | 9.11 | 10.00 | 91.1 | 88-110 |
| DIBROMOFLUOROMETHANE | 9.91 | 10.00 | 99.1 | 86-118 |

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12C273 | Date Extracted: 04/03/12 20:32 |
| Sample ID: MBLK1W | Date Analyzed: 04/03/12 20:32 |
| Lab Samp ID: VO01D01B | Dilution Factor: 1 |
| Lab File ID: RDV007 | Matrix : WATER |
| Ext Btch ID: VO01D01 | % Moisture : NA |
| Calib. Ref.: RBV366 | Instrument ID : T-O01 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,1-TRICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,2-TRICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROETHENE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| 1,2,3-TRICHLOROBENZENE | ND | 1.0 | 0.30 |
| 1,2,3-TRICHLOROPROPANE | ND | 2.0 | 0.50 |
| 1,2,4-TRICHLOROBENZENE | ND | 1.0 | 0.30 |
| 1,2,4-TRIMETHYLBENZENE | ND | 1.0 | 0.20 |
| 1,2-DIBROMO-3-CHLOROPROPANE | ND | 2.0 | 0.50 |
| 1,2-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 1,2-DICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,2-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 1,2-DIBROMOETHANE (EDB) | ND | 1.0 | 0.20 |
| 1,3,5-TRIMETHYLBENZENE | ND | 1.0 | 0.20 |
| 1,3-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 1,4-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 2,2-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 2-CHLOROTOLUENE | ND | 1.0 | 0.20 |
| 4-CHLOROTOLUENE | ND | 1.0 | 0.20 |
| BENZENE | ND | 1.0 | 0.20 |
| BROMOBENZENE | ND | 1.0 | 0.20 |
| BROMOCHLOROMETHANE | ND | 1.0 | 0.20 |
| BROMODICHLOROMETHANE | ND | 1.0 | 0.20 |
| BROMOFORM | ND | 1.0 | 0.30 |
| BROMOMETHANE | ND | 1.0 | 0.30 |
| CARBON TETRACHLORIDE | ND | 1.0 | 0.20 |
| CHLOROBENZENE | ND | 1.0 | 0.20 |
| CHLOROETHANE | ND | 1.0 | 0.30 |
| CHLOROFORM | ND | 1.0 | 0.20 |
| CHLOROMETHANE | ND | 1.0 | 0.30 |
| CIS-1,2-DICHLOROETHENE | ND | 1.0 | 0.20 |
| CIS-1,3-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| DIBROMOCHLOROMETHANE | ND | 1.0 | 0.20 |
| DIBROMOMETHANE | ND | 1.0 | 0.20 |
| DICHLORODIFLUOROMETHANE | ND | 1.0 | 0.30 |
| ETHYLBENZENE | ND | 1.0 | 0.20 |
| HEXACHLOROBUTADIENE | ND | 1.0 | 0.30 |
| ISOPROPYL BENZENE | ND | 1.0 | 0.20 |
| M,P-XYLENE | ND | 2.0 | 0.40 |
| METHYL TERT-BUTYL ETHER (MTBE) | ND | 1.0 | 0.20 |
| METHYLENE CHLORIDE | ND | 1.0 | 0.50 |
| N-BUTYLBENZENE | ND | 1.0 | 0.20 |
| N-PROPYLBENZENE | ND | 1.0 | 0.20 |
| O-XYLENE | ND | 1.0 | 0.20 |
| P-ISOPROPYLTOLUENE | ND | 1.0 | 0.20 |
| SEC-BUTYLBENZENE | ND | 1.0 | 0.20 |
| STYRENE | ND | 1.0 | 0.20 |
| TERT-BUTYLBENZENE | ND | 1.0 | 0.20 |
| TETRACHLOROETHENE | ND | 1.0 | 0.20 |
| TOLUENE | ND | 1.0 | 0.20 |
| TRANS-1,2-DICHLOROETHENE | ND | 1.0 | 0.20 |
| TRANS-1,3-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| TRICHLOROETHENE | ND | 1.0 | 0.20 |
| TRICHLOROFLUOROMETHANE | ND | 1.0 | 0.30 |
| VINYL CHLORIDE | ND | 1.0 | 0.20 |
| ACETONE | ND | 10 | 5.0 |
| 2-BUTANONE (MEK) | ND | 10 | 4.0 |
| 2-HEXANONE | ND | 10 | 4.0 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 10 | 4.0 |
| FREON113 | ND | 1.0 | 0.30 |
| 2-CHLOROETHYL VINYL ETHER | ND | 2.0 | 1.0 |
| 2-CHLORO-1,1,1-TRIFLUOROETHANE | ND | 1.0 | 0.20 |
| CHLOROTRIFLUOROETHYLENE | ND | 1.0 | 0.20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 10.6 | 10.00 | 106 | 80-120 |
| 4-BROMOFLUOROBENZENE | 10.2 | 10.00 | 102 | 86-115 |
| TOLUENE-D8 | 9.04 | 10.00 | 90.4 | 88-110 |
| DIBROMOFLUOROMETHANE | 9.77 | 10.00 | 97.7 | 86-118 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VO01D01B | VO01D01L | VO01D01C | | |
| LAB FILE ID: | RDV007 | RDV004 | RDV005 | | |
| DATE EXTRACTED: | 04/03/1220:32 | 04/03/1219:07 | 04/03/1219:35 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1220:32 | 04/03/1219:07 | 04/03/1219:35 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | VO01D01 | VO01D01 | VO01D01 | | |
| CALIB. REF: | RBV366 | RBV366 | RBV366 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 10.0 | 9.77 | 98 | 10.0 | 9.74 | 97 | 0 | 70-130 | 30 |
| 1,1,1-Trichloroethane | ND | 10.0 | 9.73 | 97 | 10.0 | 10.0 | 100 | 3 | 70-130 | 30 |
| 1,1,2,2-Tetrachloroethane | ND | 10.0 | 10.2 | 102 | 10.0 | 9.85 | 98 | 3 | 70-130 | 30 |
| 1,1,2-Trichloroethane | ND | 10.0 | 10.2 | 102 | 10.0 | 10.0 | 100 | 2 | 70-130 | 30 |
| 1,1-Dichloroethane | ND | 10.0 | 10.3 | 103 | 10.0 | 10.5 | 105 | 2 | 70-130 | 30 |
| 1,1-Dichloroethene | ND | 10.0 | 10.2 | 102 | 10.0 | 10.0 | 100 | 2 | 60-130 | 30 |
| 1,1-Dichloropropene | ND | 10.0 | 9.56 | 96 | 10.0 | 9.47 | 95 | 1 | 70-140 | 30 |
| 1,2,3-Trichlorobenzene | ND | 10.0 | 11.4 | 114 | 10.0 | 11.8 | 118 | 3 | 60-130 | 30 |
| 1,2,3-Trichloropropane | ND | 10.0 | 10.3 | 103 | 10.0 | 9.87 | 99 | 4 | 70-140 | 30 |
| 1,2,4-Trichlorobenzene | ND | 10.0 | 11.3 | 113 | 10.0 | 11.6 | 116 | 3 | 60-140 | 30 |
| 1,2,4-Trimethylbenzene | ND | 10.0 | 9.80 | 98 | 10.0 | 9.84 | 98 | 0 | 70-130 | 30 |
| 1,2-Dibromo-3-chloropropane | ND | 10.0 | 10.2 | 102 | 10.0 | 10.0 | 100 | 2 | 60-130 | 30 |
| 1,2-Dichlorobenzene | ND | 10.0 | 9.89 | 99 | 10.0 | 9.87 | 99 | 0 | 70-130 | 30 |
| 1,2-Dichloroethane | ND | 10.0 | 10.9 | 109 | 10.0 | 10.6 | 106 | 3 | 70-130 | 30 |
| 1,2-Dichloropropane | ND | 10.0 | 10.2 | 102 | 10.0 | 9.93 | 99 | 2 | 70-130 | 30 |
| 1,2-Dibromoethane (EDB) | ND | 10.0 | 10.0 | 100 | 10.0 | 9.82 | 98 | 2 | 70-140 | 30 |
| 1,3,5-Trimethylbenzene | ND | 10.0 | 9.71 | 97 | 10.0 | 9.70 | 97 | 0 | 70-130 | 30 |
| 1,3-Dichlorobenzene | ND | 10.0 | 9.50 | 95 | 10.0 | 9.44 | 94 | 1 | 70-130 | 30 |
| 1,3-Dichloropropane | ND | 10.0 | 9.90 | 99 | 10.0 | 9.68 | 97 | 2 | 70-130 | 30 |
| 1,4-Dichlorobenzene | ND | 10.0 | 9.54 | 95 | 10.0 | 9.59 | 96 | 0 | 70-130 | 30 |
| 2,2-Dichloropropane | ND | 10.0 | 9.66 | 97 | 10.0 | 9.90 | 99 | 2 | 50-140 | 30 |
| 2-Chlorotoluene | ND | 10.0 | 9.42 | 94 | 10.0 | 9.34 | 93 | 1 | 70-130 | 30 |
| 4-Chlorotoluene | ND | 10.0 | 9.72 | 97 | 10.0 | 9.72 | 97 | 0 | 70-130 | 30 |
| Benzene | ND | 10.0 | 9.48 | 95 | 10.0 | 9.36 | 94 | 1 | 70-130 | 30 |
| Bromobenzene | ND | 10.0 | 9.27 | 93 | 10.0 | 9.13 | 91 | 2 | 70-130 | 30 |
| Bromochloromethane | ND | 10.0 | 10.9 | 109 | 10.0 | 11.0 | 110 | 1 | 70-130 | 30 |
| Bromodichloromethane | ND | 10.0 | 9.54 | 95 | 10.0 | 9.36 | 94 | 2 | 70-130 | 30 |
| Bromoform | ND | 10.0 | 9.93 | 99 | 10.0 | 9.63 | 96 | 3 | 60-140 | 30 |
| Bromomethane | ND | 10.0 | 10.1 | 101 | 10.0 | 8.61 | 86 | 16 | 50-140 | 30 |
| Carbon Tetrachloride | ND | 10.0 | 9.72 | 97 | 10.0 | 9.59 | 96 | 1 | 70-130 | 30 |
| Chlorobenzene | ND | 10.0 | 10.1 | 101 | 10.0 | 10.1 | 101 | 0 | 70-120 | 30 |
| Chloroethane | ND | 10.0 | 11.2 | 112 | 10.0 | 9.56 | 96 | 16 | 70-140 | 30 |
| Chloroform | ND | 10.0 | 10.1 | 101 | 10.0 | 10.2 | 102 | 1 | 70-130 | 30 |
| Chloromethane | ND | 10.0 | 9.17 | 92 | 10.0 | 8.09 | 81 | 13 | 60-130 | 30 |
| cis-1,2-Dichloroethene | ND | 10.0 | 9.08 | 91 | 10.0 | 9.14 | 91 | 1 | 70-130 | 30 |
| cis-1,3-Dichloropropene | ND | 10.0 | 9.86 | 99 | 10.0 | 9.61 | 96 | 3 | 70-130 | 30 |
| Dibromochloromethane | ND | 10.0 | 9.49 | 95 | 10.0 | 9.35 | 93 | 2 | 70-130 | 30 |
| Dibromomethane | ND | 10.0 | 10.3 | 103 | 10.0 | 10.0 | 100 | 2 | 70-140 | 30 |
| Dichlorodifluoromethane | ND | 10.0 | 8.77 | 88 | 10.0 | 7.47 | 75 | 16 | 50-140 | 30 |
| Ethylbenzene | ND | 10.0 | 10.1 | 101 | 10.0 | 9.87 | 99 | 2 | 70-130 | 30 |
| Hexachlorobutadiene | ND | 10.0 | 11.8 | 118 | 10.0 | 12.3 | 123 | 4 | 60-140 | 30 |
| Isopropyl Benzene | ND | 10.0 | 10.4 | 104 | 10.0 | 10.3 | 103 | 1 | 70-150 | 30 |
| m,p-Xylene | ND | 20.0 | 19.5 | 97 | 20.0 | 19.4 | 97 | 1 | 70-130 | 30 |
| Methyl tert-butyl Ether (MTBE) | ND | 10.0 | 10.2 | 102 | 10.0 | 10.1 | 101 | 1 | 70-140 | 30 |
| Methylene Chloride | ND | 10.0 | 10.7 | 107 | 10.0 | 10.6 | 106 | 1 | 70-130 | 30 |
| n-Butylbenzene | ND | 10.0 | 10.3 | 103 | 10.0 | 10.4 | 104 | 1 | 60-130 | 30 |
| n-Propylbenzene | ND | 10.0 | 9.50 | 95 | 10.0 | 9.43 | 94 | 1 | 70-140 | 30 |
| o-Xylene | ND | 10.0 | 9.70 | 97 | 10.0 | 9.66 | 97 | 0 | 70-130 | 30 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | ND | 10.0 | 10.5 | 105 | 10.0 | 10.5 | 105 | 0 | 70-140 | 30 |
| Sec-Butylbenzene | ND | 10.0 | 9.83 | 98 | 10.0 | 9.83 | 98 | 0 | 70-130 | 30 |
| Styrene | ND | 10.0 | 10.2 | 102 | 10.0 | 10.1 | 101 | 1 | 70-130 | 30 |
| Tert-Butylbenzene | ND | 10.0 | 9.14 | 91 | 10.0 | 9.12 | 91 | 0 | 70-130 | 30 |
| Tetrachloroethene | ND | 10.0 | 9.35 | 93 | 10.0 | 9.25 | 92 | 1 | 70-130 | 30 |
| Toluene | ND | 10.0 | 9.55 | 96 | 10.0 | 9.34 | 93 | 2 | 70-130 | 30 |
| Trans-1,2-Dichloroethene | ND | 10.0 | 9.80 | 98 | 10.0 | 9.87 | 99 | 1 | 70-130 | 30 |
| Trans-1,3-Dichloropropene | ND | 10.0 | 10.1 | 101 | 10.0 | 9.80 | 98 | 3 | 70-140 | 30 |
| Trichloroethene | ND | 10.0 | 9.40 | 94 | 10.0 | 9.35 | 93 | 1 | 70-130 | 30 |
| Trichlorofluoromethane | ND | 10.0 | 11.5 | 115 | 10.0 | 8.91 | 89 | 25 | 70-140 | 30 |
| Vinyl Chloride | ND | 10.0 | 10.7 | 107 | 10.0 | 8.99 | 90 | 17 | 60-150 | 30 |
| Acetone | ND | 50.0 | 52.2 | 104 | 50.0 | 52.5 | 105 | 0 | 50-150 | 30 |
| 2-Butanone (MEK) | ND | 50.0 | 55.3 | 111 | 50.0 | 53.5 | 107 | 3 | 60-140 | 30 |
| 2-Hexanone | ND | 50.0 | 56.2 | 112 | 50.0 | 53.6 | 107 | 5 | 70-140 | 30 |
| 4-Methyl-2-Pentanone (MIBK) | ND | 50.0 | 54.9 | 110 | 50.0 | 53.4 | 107 | 3 | 60-140 | 30 |
| Freon113 | ND | 10.0 | 10.8 | 108 | 10.0 | 11.0 | 110 | 1 | 70-140 | 30 |
| 2-Chloroethyl Vinyl Ether | ND | 10.0 | 9.10 | 91 | 10.0 | 8.86 | 89 | 3 | 30-160 | 30 |
| 2-Chloro-1,1,1-trifluoroethane | ND | 10.0 | 7.98 | 80 | 10.0 | 10.1 | 101 | 23 | 50-150 | 30 |
| Chlorotrifluoroethylene | ND | 10.0 | 7.96 | 80 | 10.0 | 10.8 | 108 | 30 | 50-150 | 30 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 10.0 | 10.2 | 102 | 10.0 | 10.2 | 102 | 80-120 |
| 4-Bromofluorobenzene | 10.0 | 9.72 | 97 | 10.0 | 9.55 | 96 | 86-115 |
| Toluene-d8 | 10.0 | 8.87 | 89 | 10.0 | 8.77 | 88 | 88-110 |
| Dibromofluoromethane | 10.0 | 9.59 | 96 | 10.0 | 9.75 | 97 | 86-118 |

METHOD 5030B/8260B SIM
VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/02/12 15:29 |
| Sample ID: TB-032712 | Date Analyzed: 04/02/12 15:29 |
| Lab Samp ID: C273-13 | Dilution Factor: 1 |
| Lab File ID: RDY009 | Matrix : WATER |
| Ext Btch ID: VOF5D01 | % Moisture : NA |
| Calib. Ref.: RKY092 | Instrument ID : TOF5 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,4-DIOXANE | ND | 4.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 4.00 | 5.000 | 80.0 | 50-150 |

METHOD 5030B/8260B SIM
VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12C273 | Date Extracted: 04/02/12 13:29 |
| Sample ID: MBLK1W | Date Analyzed: 04/02/12 13:29 |
| Lab Samp ID: VOF5D01B | Dilution Factor: 1 |
| Lab File ID: RDY006 | Matrix : WATER |
| Ext Btch ID: VOF5D01 | % Moisture : NA |
| Calib. Ref.: RKY092 | Instrument ID : TOF5 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,4-DIOXANE | ND | 4.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 4.61 | 5.000 | 92.1 | 50-150 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: 5030B/8260B SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VOF5D01B | VOF5D01L | VOF5D01C | | |
| LAB FILE ID: | RDY006 | RDY003 | RDY004 | | |
| DATE EXTRACTED: | 04/02/1213:29 | 04/02/1211:58 | 04/02/1212:29 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/02/1213:29 | 04/02/1211:58 | 04/02/1212:29 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | VOF5D01 | VOF5D01 | VOF5D01 | | |
| CALIB. REF: | RKY092 | RKY092 | RKY092 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ND | 50.0 | 53.0 | 106 | 50.0 | 52.0 | 104 | 2 | 50-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 5.00 | 4.47 | 89 | 5.00 | 4.31 | 86 | 50-150 |

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/28/12 13:56 |
| Sample ID: SL-039-NBZ-SB-2.5 | Date Analyzed: 03/28/12 13:56 |
| Lab Samp ID: C273-03 | Dilution Factor: 0.89 |
| Lab File ID: RCB517 | Matrix : SOIL |
| Ext Btch ID: VO03C36 | % Moisture : 12.3 |
| Calib. Ref.: RBB256 | Instrument ID : T-O03 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | ND | 5.1 | 1.0 |
| 1,1,1-TRICHLOROETHANE | ND | 5.1 | 1.0 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5.1 | 1.0 |
| 1,1,2-TRICHLOROETHANE | ND | 5.1 | 1.0 |
| 1,1-DICHLOROETHANE | ND | 5.1 | 1.0 |
| 1,1-DICHLOROETHENE | ND | 5.1 | 1.0 |
| 1,1-DICHLOROPROPENE | ND | 5.1 | 1.0 |
| 1,2,3-TRICHLOROBENZENE | ND | 5.1 | 2.0 |
| 1,2,3-TRICHLOROPROPANE | ND | 5.1 | 2.0 |
| 1,2,4-TRICHLOROBENZENE | ND | 5.1 | 2.0 |
| 1,2,4-TRIMETHYLBENZENE | ND | 5.1 | 1.0 |
| 1,2-DIBROMO-3-CHLOROPROPANE | ND | 5.1 | 2.0 |
| 1,2-DICHLOROBENZENE | ND | 5.1 | 1.0 |
| 1,2-DICHLOROETHANE | ND | 5.1 | 1.0 |
| 1,2-DICHLOROPROPANE | ND | 5.1 | 1.0 |
| 1,2-DIBROMOETHANE (EDB) | ND | 5.1 | 1.0 |
| 1,3,5-TRIMETHYLBENZENE | ND | 5.1 | 1.0 |
| 1,3-DICHLOROBENZENE | ND | 5.1 | 1.0 |
| 1,3-DICHLOROPROPANE | ND | 5.1 | 1.0 |
| 1,4-DICHLOROBENZENE | ND | 5.1 | 1.0 |
| 2,2-DICHLOROPROPANE | ND | 5.1 | 2.0 |
| 2-CHLOROTOLUENE | ND | 5.1 | 1.0 |
| 4-CHLOROTOLUENE | ND | 5.1 | 1.0 |
| BENZENE | ND | 5.1 | 1.0 |
| BROMOBENZENE | ND | 5.1 | 1.0 |
| BROMOCHLOROMETHANE | ND | 5.1 | 1.0 |
| BROMODICHLOROMETHANE | ND | 5.1 | 1.0 |
| BROMOFORM | ND | 5.1 | 2.0 |
| BROMOMETHANE | ND | 5.1 | 2.0 |
| CARBON TETRACHLORIDE | ND | 5.1 | 1.0 |
| CHLOROBENZENE | ND | 5.1 | 1.0 |
| CHLOROETHANE | ND | 5.1 | 2.0 |
| CHLOROFORM | ND | 5.1 | 1.0 |
| CHLOROMETHANE | ND | 5.1 | 2.0 |
| CIS-1,2-DICHLOROETHENE | ND | 5.1 | 1.0 |
| CIS-1,3-DICHLOROPROPENE | ND | 5.1 | 1.0 |
| DIBROMOCHLOROMETHANE | ND | 5.1 | 1.0 |
| DIBROMOMETHANE | ND | 5.1 | 1.0 |
| DICHLORODIFLUOROMETHANE | ND | 5.1 | 2.0 |
| ETHYLBENZENE | ND | 5.1 | 1.0 |
| HEXACHLOROBUTADIENE | ND | 5.1 | 2.0 |
| ISOPROPYL BENZENE | ND | 5.1 | 1.0 |
| M,P-XYLENE | ND | 5.1 | 2.0 |
| METHYL TERT-BUTYL ETHER (MTBE) | ND | 5.1 | 1.0 |
| METHYLENE CHLORIDE | ND | 5.1 | 2.0 |
| N-BUTYLBENZENE | ND | 5.1 | 1.0 |
| N-PROPYLBENZENE | ND | 5.1 | 1.0 |
| O-XYLENE | ND | 5.1 | 1.0 |
| P-ISOPROPYLTOLUENE | ND | 5.1 | 1.0 |
| SEC-BUTYLBENZENE | ND | 5.1 | 1.0 |
| STYRENE | ND | 5.1 | 1.0 |
| TERT-BUTYLBENZENE | ND | 5.1 | 1.0 |
| TETRACHLOROETHENE | ND | 5.1 | 1.0 |
| TOLUENE | ND | 5.1 | 1.0 |
| TRANS-1,2-DICHLOROETHENE | ND | 5.1 | 1.0 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.1 | 1.0 |
| TRICHLOROETHENE | ND | 5.1 | 1.0 |
| TRICHLOROFLUOROMETHANE | ND | 5.1 | 2.0 |
| VINYL CHLORIDE | ND | 5.1 | 2.0 |
| ACETONE | ND | 10 | 5.1 |
| 2-BUTANONE (MEK) | ND | 10 | 5.1 |
| 2-HEXANONE | ND | 10 | 5.1 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 10 | 5.1 |
| FREON113 | ND | 5.1 | 2.0 |
| 2-CHLOROETHYL VINYL ETHER | ND | 5.1 | 2.0 |
| 2-CHLORO-1,1,1-TRIFLUOROETHANE | ND | 5.1 | 2.0 |
| CHLOROTRIFLUOROETHYLENE | ND | 5.1 | 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 47.7 | 50.74 | 94.1 | 80-120 |
| 4-BROMOFLUOROBENZENE | 48.2 | 50.74 | 95.0 | 74-121 |
| TOLUENE-D8 | 45.4 | 50.74 | 89.5 | 81-117 |
| DIBROMOFLUOROMETHANE | 50.0 | 50.74 | 98.5 | 80-120 |

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C273 | Date Extracted: 03/28/12 12:20 |
| Sample ID: MBLK1S | Date Analyzed: 03/28/12 12:20 |
| Lab Samp ID: VO03C36B | Dilution Factor: 1 |
| Lab File ID: RCB514 | Matrix : SOIL |
| Ext Btch ID: VO03C36 | % Moisture : NA |
| Calib. Ref.: RBB256 | Instrument ID : T-O03 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1,1-TRICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1,2-TRICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1-DICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1-DICHLOROETHENE | ND | 5.0 | 1.0 |
| 1,1-DICHLOROPROPENE | ND | 5.0 | 1.0 |
| 1,2,3-TRICHLOROBENZENE | ND | 5.0 | 2.0 |
| 1,2,3-TRICHLOROPROPANE | ND | 5.0 | 2.0 |
| 1,2,4-TRICHLOROBENZENE | ND | 5.0 | 2.0 |
| 1,2,4-TRIMETHYLBENZENE | ND | 5.0 | 1.0 |
| 1,2-DIBROMO-3-CHLOROPROPANE | ND | 5.0 | 2.0 |
| 1,2-DICHLOROBENZENE | ND | 5.0 | 1.0 |
| 1,2-DICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,2-DICHLOROPROPANE | ND | 5.0 | 1.0 |
| 1,2-DIBROMOETHANE (EDB) | ND | 5.0 | 1.0 |
| 1,3,5-TRIMETHYLBENZENE | ND | 5.0 | 1.0 |
| 1,3-DICHLOROBENZENE | ND | 5.0 | 1.0 |
| 1,3-DICHLOROPROPANE | ND | 5.0 | 1.0 |
| 1,4-DICHLOROBENZENE | ND | 5.0 | 1.0 |
| 2,2-DICHLOROPROPANE | ND | 5.0 | 2.0 |
| 2-CHLOROTOLUENE | ND | 5.0 | 1.0 |
| 4-CHLOROTOLUENE | ND | 5.0 | 1.0 |
| BENZENE | ND | 5.0 | 1.0 |
| BROMOBENZENE | ND | 5.0 | 1.0 |
| BROMOCHLOROMETHANE | ND | 5.0 | 1.0 |
| BROMODICHLOROMETHANE | ND | 5.0 | 1.0 |
| BROMOFORM | ND | 5.0 | 2.0 |
| BROMOMETHANE | ND | 5.0 | 2.0 |
| CARBON TETRACHLORIDE | ND | 5.0 | 1.0 |
| CHLOROBENZENE | ND | 5.0 | 1.0 |
| CHLOROETHANE | ND | 5.0 | 2.0 |
| CHLOROFORM | ND | 5.0 | 1.0 |
| CHLOROMETHANE | ND | 5.0 | 2.0 |
| CIS-1,2-DICHLOROETHENE | ND | 5.0 | 1.0 |
| CIS-1,3-DICHLOROPROPENE | ND | 5.0 | 1.0 |
| DIBROMOCHLOROMETHANE | ND | 5.0 | 1.0 |
| DIBROMOMETHANE | ND | 5.0 | 1.0 |
| DICHLORODIFLUOROMETHANE | ND | 5.0 | 2.0 |
| ETHYLBENZENE | ND | 5.0 | 1.0 |
| HEXACHLOROBUTADIENE | ND | 5.0 | 2.0 |
| ISOPROPYL BENZENE | ND | 5.0 | 1.0 |
| M,P-XYLENE | ND | 5.0 | 2.0 |
| METHYL TERT-BUTYL ETHER (MTBE) | ND | 5.0 | 1.0 |
| METHYLENE CHLORIDE | ND | 5.0 | 2.0 |
| N-BUTYLBENZENE | ND | 5.0 | 1.0 |
| N-PROPYLBENZENE | ND | 5.0 | 1.0 |
| O-XYLENE | ND | 5.0 | 1.0 |
| P-ISOPROPYLTOLUENE | ND | 5.0 | 1.0 |
| SEC-BUTYLBENZENE | ND | 5.0 | 1.0 |
| STYRENE | ND | 5.0 | 1.0 |
| TERT-BUTYLBENZENE | ND | 5.0 | 1.0 |
| TETRACHLOROETHENE | ND | 5.0 | 1.0 |
| TOLUENE | ND | 5.0 | 1.0 |
| TRANS-1,2-DICHLOROETHENE | ND | 5.0 | 1.0 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.0 | 1.0 |
| TRICHLOROETHENE | ND | 5.0 | 1.0 |
| TRICHLOROFLUOROMETHANE | ND | 5.0 | 2.0 |
| VINYL CHLORIDE | ND | 5.0 | 2.0 |
| ACETONE | ND | 10 | 5.0 |
| 2-BUTANONE (MEK) | ND | 10 | 5.0 |
| 2-HEXANONE | ND | 10 | 5.0 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 10 | 5.0 |
| FREON113 | ND | 5.0 | 2.0 |
| 2-CHLOROETHYL VINYL ETHER | ND | 5.0 | 2.0 |
| 2-CHLORO-1,1,1-TRIFLUOROETHANE | ND | 5.0 | 2.0 |
| CHLOROTRIFLUOROETHYLENE | ND | 5.0 | 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 43.2 | 50.00 | 86.4 | 80-120 |
| 4-BROMOFLUOROBENZENE | 44.8 | 50.00 | 89.6 | 74-121 |
| TOLUENE-D8 | 45.9 | 50.00 | 91.7 | 81-117 |
| DIBROMOFLUOROMETHANE | 48.0 | 50.00 | 96.0 | 80-120 |

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C273 | Date Extracted: 03/28/12 13:25 |
| Sample ID: MBLK2S | Date Analyzed: 03/28/12 13:25 |
| Lab Samp ID: VPC027SB | Dilution Factor: 1 |
| Lab File ID: RCB516 | Matrix : SOIL |
| Ext Btch ID: VO03C36 | % Moisture : NA |
| Calib. Ref.: RBB256 | Instrument ID : T-003 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1,1-TRICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1,2-TRICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1-DICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1-DICHLOROETHENE | ND | 5.0 | 1.0 |
| 1,1-DICHLOROPROPENE | ND | 5.0 | 1.0 |
| 1,2,3-TRICHLOROBENZENE | ND | 5.0 | 2.0 |
| 1,2,3-TRICHLOROPROPANE | ND | 5.0 | 2.0 |
| 1,2,4-TRICHLOROBENZENE | ND | 5.0 | 2.0 |
| 1,2,4-TRIMETHYLBENZENE | ND | 5.0 | 1.0 |
| 1,2-DIBROMO-3-CHLOROPROPANE | ND | 5.0 | 2.0 |
| 1,2-DICHLOROBENZENE | ND | 5.0 | 1.0 |
| 1,2-DICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,2-DICHLOROPROPANE | ND | 5.0 | 1.0 |
| 1,2-DIBROMOETHANE (EDB) | ND | 5.0 | 1.0 |
| 1,3,5-TRIMETHYLBENZENE | ND | 5.0 | 1.0 |
| 1,3-DICHLOROBENZENE | ND | 5.0 | 1.0 |
| 1,3-DICHLOROPROPANE | ND | 5.0 | 1.0 |
| 1,4-DICHLOROBENZENE | ND | 5.0 | 1.0 |
| 2,2-DICHLOROPROPANE | ND | 5.0 | 2.0 |
| 2-CHLOROTOLUENE | ND | 5.0 | 1.0 |
| 4-CHLOROTOLUENE | ND | 5.0 | 1.0 |
| BENZENE | ND | 5.0 | 1.0 |
| BROMOBENZENE | ND | 5.0 | 1.0 |
| BROMOCHLOROMETHANE | ND | 5.0 | 1.0 |
| BROMODICHLOROMETHANE | ND | 5.0 | 1.0 |
| BROMOFORM | ND | 5.0 | 2.0 |
| BROMOMETHANE | ND | 5.0 | 2.0 |
| CARBON TETRACHLORIDE | ND | 5.0 | 1.0 |
| CHLOROBENZENE | ND | 5.0 | 1.0 |
| CHLOROETHANE | ND | 5.0 | 2.0 |
| CHLOROFORM | ND | 5.0 | 1.0 |
| CHLOROMETHANE | ND | 5.0 | 2.0 |
| CIS-1,2-DICHLOROETHENE | ND | 5.0 | 1.0 |
| CIS-1,3-DICHLOROPROPENE | ND | 5.0 | 1.0 |
| DIBROMOCHLOROMETHANE | ND | 5.0 | 1.0 |
| DIBROMOMETHANE | ND | 5.0 | 1.0 |
| DICHLORODIFLUOROMETHANE | ND | 5.0 | 2.0 |
| ETHYLBENZENE | ND | 5.0 | 1.0 |
| HEXACHLOROBUTADIENE | ND | 5.0 | 2.0 |
| ISOPROPYL BENZENE | ND | 5.0 | 1.0 |
| M,P-XYLENE | ND | 5.0 | 2.0 |
| METHYL TERT-BUTYL ETHER (MTBE) | ND | 5.0 | 1.0 |
| METHYLENE CHLORIDE | ND | 5.0 | 2.0 |
| N-BUTYLBENZENE | ND | 5.0 | 1.0 |
| N-PROPYLBENZENE | ND | 5.0 | 1.0 |
| O-XYLENE | ND | 5.0 | 1.0 |
| P-ISOPROPYLTOLUENE | ND | 5.0 | 1.0 |
| SEC-BUTYLBENZENE | ND | 5.0 | 1.0 |
| STYRENE | ND | 5.0 | 1.0 |
| TERT-BUTYLBENZENE | ND | 5.0 | 1.0 |
| TETRACHLOROETHENE | ND | 5.0 | 1.0 |
| TOLUENE | ND | 5.0 | 1.0 |
| TRANS-1,2-DICHLOROETHENE | ND | 5.0 | 1.0 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.0 | 1.0 |
| TRICHLOROETHENE | ND | 5.0 | 1.0 |
| TRICHLOROFLUOROMETHANE | ND | 5.0 | 2.0 |
| VINYL CHLORIDE | ND | 5.0 | 2.0 |
| ACETONE | ND | 10 | 5.0 |
| 2-BUTANONE (MEK) | ND | 10 | 5.0 |
| 2-HEXANONE | ND | 10 | 5.0 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 10 | 5.0 |
| FREON113 | ND | 5.0 | 2.0 |
| 2-CHLOROETHYL VINYL ETHER | ND | 5.0 | 2.0 |
| 2-CHLORO-1,1,1-TRIFLUOROETHANE | ND | 5.0 | 2.0 |
| CHLOROTRIFLUOROETHYLENE | ND | 5.0 | 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 46.9 | 50.00 | 93.8 | 80-120 |
| 4-BROMOFLUOROBENZENE | 45.8 | 50.00 | 91.5 | 74-121 |
| TOLUENE-D8 | 44.4 | 50.00 | 88.9 | 81-117 |
| DIBROMOFLUOROMETHANE | 50.6 | 50.00 | 101 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 5035/8260B

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: VO03C36B VO03C36L VO03C36C
LAB FILE ID: RCB514 RCB511 RCB512
DATE EXTRACTED: 03/28/1212:20 03/28/1210:39 03/28/1211:12 DATE COLLECTED: NA
DATE ANALYZED: 03/28/1212:20 03/28/1210:39 03/28/1211:12 DATE RECEIVED: 03/28/12
PREP. BATCH: VO03C36 VO03C36 VO03C36
CALIB. REF: RBB256 RBB256 RBB256

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 50.0 | 53.6 | 107 | 50.0 | 52.0 | 104 | 3 | 70-130 | 50 |
| 1,1,1-Trichloroethane | ND | 50.0 | 52.4 | 105 | 50.0 | 49.2 | 98 | 6 | 60-130 | 50 |
| 1,1,2,2-Tetrachloroethane | ND | 50.0 | 48.2 | 96 | 50.0 | 49.7 | 99 | 3 | 70-150 | 50 |
| 1,1,2-Trichloroethane | ND | 50.0 | 48.9 | 98 | 50.0 | 49.3 | 99 | 1 | 70-140 | 50 |
| 1,1-Dichloroethane | ND | 50.0 | 54.6 | 109 | 50.0 | 54.2 | 108 | 1 | 70-140 | 50 |
| 1,1-Dichloroethene | ND | 50.0 | 55.8 | 112 | 50.0 | 52.1 | 104 | 7 | 60-130 | 50 |
| 1,1-Dichloropropene | ND | 50.0 | 56.2 | 112 | 50.0 | 54.2 | 108 | 4 | 70-130 | 50 |
| 1,2,3-Trichlorobenzene | ND | 50.0 | 48.7 | 97 | 50.0 | 45.2 | 90 | 7 | 60-150 | 50 |
| 1,2,3-Trichloropropane | ND | 50.0 | 48.1 | 96 | 50.0 | 49.7 | 99 | 3 | 60-150 | 50 |
| 1,2,4-Trichlorobenzene | ND | 50.0 | 52.2 | 104 | 50.0 | 48.2 | 96 | 8 | 60-140 | 50 |
| 1,2,4-Trimethylbenzene | ND | 50.0 | 45.7 | 91 | 50.0 | 43.3 | 87 | 5 | 70-130 | 50 |
| 1,2-Dibromo-3-chloropropane | ND | 50.0 | 45.7 | 91 | 50.0 | 47.2 | 94 | 3 | 50-150 | 50 |
| 1,2-Dichlorobenzene | ND | 50.0 | 55.4 | 111 | 50.0 | 53.1 | 106 | 4 | 70-130 | 50 |
| 1,2-Dichloroethane | ND | 50.0 | 48.5 | 97 | 50.0 | 46.6 | 93 | 4 | 60-140 | 50 |
| 1,2-Dichloropropane | ND | 50.0 | 52.1 | 104 | 50.0 | 51.0 | 102 | 2 | 70-130 | 50 |
| 1,2-Dibromoethane (EDB) | ND | 50.0 | 46.0 | 92 | 50.0 | 46.4 | 93 | 1 | 50-150 | 50 |
| 1,3,5-Trimethylbenzene | ND | 50.0 | 46.2 | 92 | 50.0 | 43.8 | 88 | 5 | 70-130 | 50 |
| 1,3-Dichlorobenzene | ND | 50.0 | 57.0 | 114 | 50.0 | 53.9 | 108 | 6 | 70-130 | 50 |
| 1,3-Dichloropropane | ND | 50.0 | 52.5 | 105 | 50.0 | 52.9 | 106 | 1 | 70-140 | 50 |
| 1,4-Dichlorobenzene | ND | 50.0 | 56.5 | 113 | 50.0 | 54.0 | 108 | 5 | 70-130 | 50 |
| 2,2-Dichloropropane | ND | 50.0 | 56.4 | 113 | 50.0 | 52.5 | 105 | 7 | 40-140 | 50 |
| 2-Chlorotoluene | ND | 50.0 | 46.9 | 94 | 50.0 | 44.4 | 89 | 5 | 70-130 | 50 |
| 4-Chlorotoluene | ND | 50.0 | 46.0 | 92 | 50.0 | 43.9 | 88 | 5 | 70-130 | 50 |
| Benzene | ND | 50.0 | 52.7 | 105 | 50.0 | 52.1 | 104 | 1 | 70-130 | 50 |
| Bromobenzene | ND | 50.0 | 51.5 | 103 | 50.0 | 49.9 | 100 | 3 | 70-130 | 50 |
| Bromochloromethane | ND | 50.0 | 50.3 | 101 | 50.0 | 49.9 | 100 | 1 | 60-150 | 50 |
| Bromodichloromethane | ND | 50.0 | 51.9 | 104 | 50.0 | 49.8 | 100 | 4 | 60-130 | 50 |
| Bromoform | ND | 50.0 | 51.2 | 102 | 50.0 | 52.4 | 105 | 2 | 60-130 | 50 |
| Bromomethane | ND | 50.0 | 44.1 | 88 | 50.0 | 44.8 | 90 | 2 | 40-160 | 50 |
| Carbon Tetrachloride | ND | 50.0 | 51.8 | 104 | 50.0 | 48.1 | 96 | 7 | 50-130 | 50 |
| Chlorobenzene | ND | 50.0 | 52.1 | 104 | 50.0 | 50.3 | 101 | 4 | 70-130 | 50 |
| Chloroethane | ND | 50.0 | 43.0 | 86 | 50.0 | 43.4 | 87 | 1 | 60-150 | 50 |
| Chloroform | ND | 50.0 | 53.6 | 107 | 50.0 | 51.2 | 102 | 5 | 70-130 | 50 |
| Chloromethane | ND | 50.0 | 41.1 | 82 | 50.0 | 42.3 | 85 | 3 | 50-150 | 50 |
| cis-1,2-Dichloroethene | ND | 50.0 | 57.0 | 114 | 50.0 | 55.1 | 110 | 3 | 70-130 | 50 |
| cis-1,3-Dichloropropene | ND | 50.0 | 53.0 | 106 | 50.0 | 52.0 | 104 | 2 | 60-130 | 50 |
| Dibromochloromethane | ND | 50.0 | 53.5 | 107 | 50.0 | 52.9 | 106 | 1 | 70-130 | 50 |
| Dibromomethane | ND | 50.0 | 50.0 | 100 | 50.0 | 49.8 | 100 | 0 | 70-130 | 50 |
| Dichlorodifluoromethane | ND | 50.0 | 43.7 | 87 | 50.0 | 40.1 | 80 | 9 | 50-130 | 50 |
| Ethylbenzene | ND | 50.0 | 50.9 | 102 | 50.0 | 48.6 | 97 | 5 | 70-130 | 50 |
| Hexachlorobutadiene | ND | 50.0 | 51.3 | 103 | 50.0 | 45.9 | 92 | 11 | 50-140 | 50 |
| Isopropyl Benzene | ND | 50.0 | 46.4 | 93 | 50.0 | 44.8 | 90 | 3 | 70-140 | 50 |
| m,p-Xylene | ND | 100 | 100 | 100 | 100 | 96.0 | 96 | 4 | 70-140 | 50 |
| Methyl tert-butyl Ether (MTBE) | ND | 50.0 | 52.6 | 105 | 50.0 | 52.7 | 105 | 0 | 60-150 | 50 |
| Methylene Chloride | ND | 50.0 | 51.3 | 103 | 50.0 | 50.6 | 101 | 1 | 70-130 | 50 |
| n-Butylbenzene | ND | 50.0 | 51.0 | 102 | 50.0 | 47.4 | 95 | 7 | 50-150 | 50 |
| n-Propylbenzene | ND | 50.0 | 51.1 | 102 | 50.0 | 49.3 | 99 | 4 | 70-130 | 50 |
| o-Xylene | ND | 50.0 | 50.2 | 100 | 50.0 | 48.2 | 96 | 4 | 70-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | ND | 50.0 | 49.4 | 99 | 50.0 | 45.9 | 92 | 7 | 60-140 | 50 |
| Sec-Butylbenzene | ND | 50.0 | 49.3 | 99 | 50.0 | 46.3 | 93 | 6 | 70-130 | 50 |
| Styrene | ND | 50.0 | 51.4 | 103 | 50.0 | 50.1 | 100 | 2 | 60-140 | 50 |
| Tert-Butylbenzene | ND | 50.0 | 55.9 | 112 | 50.0 | 52.5 | 105 | 6 | 70-130 | 50 |
| Tetrachloroethene | ND | 50.0 | 56.4 | 113 | 50.0 | 54.2 | 108 | 4 | 70-130 | 50 |
| Toluene | ND | 50.0 | 50.8 | 102 | 50.0 | 49.5 | 99 | 3 | 70-130 | 50 |
| Trans-1,2-Dichloroethene | ND | 50.0 | 52.8 | 106 | 50.0 | 51.4 | 103 | 3 | 70-130 | 50 |
| Trans-1,3-Dichloropropene | ND | 50.0 | 52.2 | 104 | 50.0 | 51.2 | 102 | 2 | 60-140 | 50 |
| Trichloroethene | ND | 50.0 | 57.3 | 115 | 50.0 | 54.6 | 109 | 5 | 70-130 | 50 |
| Trichlorofluoromethane | ND | 50.0 | 42.2 | 84 | 50.0 | 41.0 | 82 | 3 | 70-140 | 50 |
| Vinyl Chloride | ND | 50.0 | 57.4 | 115 | 50.0 | 55.3 | 111 | 4 | 60-150 | 50 |
| Acetone | ND | 250 | 252 | 101 | 250 | 276 | 111 | 9 | 40-160 | 50 |
| 2-Butanone (MEK) | ND | 250 | 249 | 100 | 250 | 276 | 110 | 10 | 50-160 | 50 |
| 2-Hexanone | ND | 250 | 237 | 95 | 250 | 265 | 106 | 11 | 60-160 | 50 |
| 4-Methyl-2-Pentanone (MIBK) | ND | 250 | 237 | 95 | 250 | 263 | 105 | 10 | 70-160 | 50 |
| Freon113 | ND | 50.0 | 58.9 | 118 | 50.0 | 55.3 | 111 | 6 | 50-140 | 50 |
| 2-Chloroethyl Vinyl Ether | ND | 50.0 | 46.5 | 93 | 50.0 | 48.7 | 97 | 5 | 50-150 | 50 |
| 2-Chloro-1,1,1-trifluoroethane | ND | 50.0 | 48.8 | 98 | 50.0 | 47.1 | 94 | 3 | 50-150 | 50 |
| Chlorotrifluoroethylene | ND | 50.0 | 46.5 | 93 | 50.0 | 45.3 | 91 | 3 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 50.0 | 41.7 | 83 | 50.0 | 42.4 | 85 | 80-120 |
| 4-Bromofluorobenzene | 50.0 | 42.6 | 85 | 50.0 | 42.7 | 85 | 74-121 |
| Toluene-d8 | 50.0 | 45.4 | 91 | 50.0 | 45.4 | 91 | 81-117 |
| Dibromofluoromethane | 50.0 | 47.8 | 96 | 50.0 | 47.6 | 95 | 80-120 |

METHOD 5035/8260B SIM
VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/30/12 12:18 |
| Sample ID: SL-039-NBZ-SB-2.5 | Date Analyzed: 03/30/12 12:18 |
| Lab Samp ID: C273-03 | Dilution Factor: 1.02 |
| Lab File ID: RCY075 | Matrix : SOIL |
| Ext Btch ID: VOF5C04 | % Moisture : 12.3 |
| Calib. Ref.: RJY282 | Instrument ID : TOF5 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,4-DIOXANE | ND | 12 | 5.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 19.2 | 23.26 | 82.4 | 50-150 |

METHOD 5035/8260B SIM
VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C273 | Date Extracted: 03/30/12 10:46 |
| Sample ID: MBLK1S | Date Analyzed: 03/30/12 10:46 |
| Lab Samp ID: VOF5C04B | Dilution Factor: 1 |
| Lab File ID: RCY072 | Matrix : SOIL |
| Ext Btch ID: VOF5C04 | % Moisture : NA |
| Calib. Ref.: RJY282 | Instrument ID : TOF5 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,4-DIOXANE | ND | 10 | 5.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 18.2 | 20.00 | 90.9 | 50-150 |

METHOD 5035/8260B SIM
VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C273 | Date Extracted: 03/30/12 11:47 |
| Sample ID: MBLK2S | Date Analyzed: 03/30/12 11:47 |
| Lab Samp ID: VPC031SB | Dilution Factor: 1 |
| Lab File ID: RCY074 | Matrix : SOIL |
| Ext Btch ID: VOF5C04 | % Moisture : NA |
| Calib. Ref.: RJY282 | Instrument ID : TOF5 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,4-DIOXANE | ND | 10 | 5.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 16.2 | 20.00 | 81.2 | 50-150 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: 5035/8260B SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | VOF5C04B | VOF5C04L | VOF5C04C | | |
| LAB FILE ID: | RCY072 | RCY068 | RCY069 | | |
| DATE EXTRACTED: | 03/30/1210:46 | 03/30/1208:44 | 03/30/1209:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1210:46 | 03/30/1208:44 | 03/30/1209:15 | DATE RECEIVED: | 03/30/12 |
| PREP. BATCH: | VOF5C04 | VOF5C04 | VOF5C04 | | |
| CALIB. REF: | RJY282 | RJY282 | RJY282 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ND | 200 | 245 | 123 | 200 | 246 | 123 | 0 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 20.0 | 15.0 | 75 | 20.0 | 15.5 | 77 | 50-150 |

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/28/12 16:30 |
| Sample ID: EB-NBZ-SB-032712 | Date Analyzed: 03/30/12 22:53 |
| Lab Samp ID: C273-01 | Dilution Factor: 1.03 |
| Lab File ID: RCJ563 | Matrix : WATER |
| Ext Btch ID: SVC043W | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 10 | 5.1 |
| 1,2-DICHLOROBENZENE | ND | 10 | 5.1 |
| 1,3-DICHLOROBENZENE | ND | 10 | 5.1 |
| 1,4-DICHLOROBENZENE | ND | 10 | 5.1 |
| 2,4,5-TRICHLOROPHENOL | ND | 10 | 5.1 |
| 2,4,6-TRICHLOROPHENOL | ND | 10 | 5.1 |
| 2,4-DICHLOROPHENOL | ND | 10 | 5.1 |
| 2,4-DIMETHYLPHENOL | ND | 10 | 5.1 |
| 2,4-DINITROPHENOL | ND | 21 | 5.1 |
| 2,4-DINITROTOLUENE | ND | 10 | 5.1 |
| 2,6-DINITROTOLUENE | ND | 10 | 5.1 |
| 2-CHLORONAPHTHALENE | ND | 10 | 5.1 |
| 2-CHLOROPHENOL | ND | 10 | 5.1 |
| 2-METHYLNAPHTHALENE | ND | 10 | 5.1 |
| 2-METHYLPHENOL | ND | 10 | 5.1 |
| 2-NITROANILINE | ND | 10 | 5.1 |
| 2-NITROPHENOL | ND | 10 | 5.1 |
| 3,3'-DICHLOROBENZIDINE | ND | 10 | 5.1 |
| 3-NITROANILINE | ND | 10 | 5.1 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 21 | 5.1 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 10 | 5.1 |
| 4-CHLORO-3-METHYLPHENOL | ND | 10 | 5.1 |
| 4-CHLOROANILINE | ND | 10 | 5.1 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 10 | 5.1 |
| 4-METHYLPHENOL (1) | ND | 10 | 5.1 |
| 4-NITROANILINE | ND | 10 | 5.1 |
| 4-NITROPHENOL | ND | 21 | 5.1 |
| ACENAPHTHENE | ND | 10 | 5.1 |
| ACENAPHTHYLENE | ND | 10 | 5.1 |
| ANTHRACENE | ND | 10 | 5.1 |
| BENZO(A)ANTHRACENE | ND | 10 | 5.1 |
| BENZO(A)PYRENE | ND | 10 | 5.1 |
| BENZO(B)FLUORANTHENE | ND | 10 | 5.1 |
| BENZO(K)FLUORANTHENE | ND | 10 | 5.1 |
| BENZO(G,H,I)PERYLENE | ND | 10 | 5.1 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 10 | 5.1 |
| BIS(2-CHLOROETHYL)ETHER | ND | 10 | 5.1 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 10 | 5.1 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 21 | 5.1 |
| BUTYLBENZYLPHTHALATE | ND | 10 | 5.1 |
| CHRYSENE | ND | 10 | 5.1 |
| DI-N-BUTYLPHTHALATE | ND | 10 | 5.1 |
| DI-N-OCTYLPHTHALATE | ND | 10 | 5.1 |
| DIBENZO(A,H)ANTHRACENE | ND | 10 | 5.1 |
| DIBENZOFURAN | ND | 10 | 5.1 |
| DIETHYLPHTHALATE | ND | 10 | 5.1 |
| DIMETHYLPHTHALATE | ND | 10 | 5.1 |
| FLUORANTHENE | ND | 10 | 5.1 |
| FLUORENE | ND | 10 | 5.1 |
| HEXACHLOROBENZENE | ND | 10 | 5.1 |
| HEXACHLOROBUTADIENE | ND | 10 | 5.1 |
| HEXACHLOROCYCLOPENTADIENE | ND | 21 | 5.1 |
| HEXACHLOROETHANE | ND | 10 | 5.1 |
| INDENO(1,2,3-CD)PYRENE | ND | 10 | 5.1 |
| ISOPHORONE | ND | 10 | 5.1 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 10 | 5.1 |
| N-NITROSODIPHENYLAMINE (2) | ND | 10 | 5.1 |
| NAPHTHALENE | ND | 10 | 5.1 |
| NITROBENZENE | ND | 10 | 5.1 |
| PENTACHLOROPHENOL | ND | 21 | 5.1 |
| PHENANTHRENE | ND | 10 | 5.1 |
| PHENOL | ND | 10 | 5.1 |
| PYRENE | ND | 10 | 5.1 |
| BENZYL ALCOHOL | ND | 10 | 5.1 |
| 1-METHYLNAPHTHALENE | ND | 10 | 5.1 |
| 1,2-DIPHENYLHYDRAZINE | ND | 10 | 5.1 |
| 3,5-DIMETHYLPHENOL | ND | 21 | 5.1 |
| ANILINE | ND | 21 | 10 |
| BENZIDINE | ND | 52 | 21 |
| BENZOIC ACID | ND | 41 | 21 |
| CARBAZOLE | ND | 10 | 5.1 |
| N-NITROSODIMETHYLAMINE | ND | 10 | 5.1 |
| TETRALIN | ND | 10 | 10 |
| 2-BUTOXYETHANOL | ND | 10 | 10 |
| 2-PHENOXYETHANOL | ND | 10 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 41.1 | 61.80 | 66.5 | 30-130 |
| 2-FLUOROBIPHENYL | 13.9 | 20.60 | 67.3 | 45-130 |
| 2-FLUOROPHENOL | 28.3 | 61.80 | 45.7 | 20-130 |
| NITROBENZENE-D5 | 13.7 | 20.60 | 66.7 | 40-130 |
| PHENOL-D5 | 35.5 | 61.80 | 57.4 | 20-120 |
| TERPHENYL-D14 | 16.2 | 20.60 | 78.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/28/12 16:30 |
| Sample ID: EB-NBZ-SS-032712 | Date Analyzed: 03/30/12 23:11 |
| Lab Samp ID: C273-02 | Dilution Factor: 1.03 |
| Lab File ID: RCJ564 | Matrix : WATER |
| Ext Btch ID: SVC043W | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 10 | 5.1 |
| 1,2-DICHLOROBENZENE | ND | 10 | 5.1 |
| 1,3-DICHLOROBENZENE | ND | 10 | 5.1 |
| 1,4-DICHLOROBENZENE | ND | 10 | 5.1 |
| 2,4,5-TRICHLOROPHENOL | ND | 10 | 5.1 |
| 2,4,6-TRICHLOROPHENOL | ND | 10 | 5.1 |
| 2,4-DICHLOROPHENOL | ND | 10 | 5.1 |
| 2,4-DIMETHYLPHENOL | ND | 10 | 5.1 |
| 2,4-DINITROPHENOL | ND | 21 | 5.1 |
| 2,4-DINITROTOLUENE | ND | 10 | 5.1 |
| 2,6-DINITROTOLUENE | ND | 10 | 5.1 |
| 2-CHLORONAPHTHALENE | ND | 10 | 5.1 |
| 2-CHLOROPHENOL | ND | 10 | 5.1 |
| 2-METHYLNAPHTHALENE | ND | 10 | 5.1 |
| 2-METHYLPHENOL | ND | 10 | 5.1 |
| 2-NITROANILINE | ND | 10 | 5.1 |
| 2-NITROPHENOL | ND | 10 | 5.1 |
| 3,3'-DICHLOROBENZIDINE | ND | 10 | 5.1 |
| 3-NITROANILINE | ND | 10 | 5.1 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 21 | 5.1 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 10 | 5.1 |
| 4-CHLORO-3-METHYLPHENOL | ND | 10 | 5.1 |
| 4-CHLOROANILINE | ND | 10 | 5.1 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 10 | 5.1 |
| 4-METHYLPHENOL (1) | ND | 10 | 5.1 |
| 4-NITROANILINE | ND | 10 | 5.1 |
| 4-NITROPHENOL | ND | 21 | 5.1 |
| ACENAPHTHENE | ND | 10 | 5.1 |
| ACENAPHTHYLENE | ND | 10 | 5.1 |
| ANTHRACENE | ND | 10 | 5.1 |
| BENZO(A)ANTHRACENE | ND | 10 | 5.1 |
| BENZO(A)PYRENE | ND | 10 | 5.1 |
| BENZO(B)FLUORANTHENE | ND | 10 | 5.1 |
| BENZO(K)FLUORANTHENE | ND | 10 | 5.1 |
| BENZO(G,H,I)PERYLENE | ND | 10 | 5.1 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 10 | 5.1 |
| BIS(2-CHLOROETHYL)ETHER | ND | 10 | 5.1 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 10 | 5.1 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 21 | 5.1 |
| BUTYLBENZYLPHTHALATE | ND | 10 | 5.1 |
| CHRYSENE | ND | 10 | 5.1 |
| DI-N-BUTYLPHTHALATE | ND | 10 | 5.1 |
| DI-N-OCTYLPHTHALATE | ND | 10 | 5.1 |
| DIBENZO(A,H)ANTHRACENE | ND | 10 | 5.1 |
| DIBENZOFURAN | ND | 10 | 5.1 |
| DIETHYLPHTHALATE | ND | 10 | 5.1 |
| DIMETHYLPHTHALATE | ND | 10 | 5.1 |
| FLUORANTHENE | ND | 10 | 5.1 |
| FLUORENE | ND | 10 | 5.1 |
| HEXACHLOROBENZENE | ND | 10 | 5.1 |
| HEXACHLOROBUTADIENE | ND | 10 | 5.1 |
| HEXACHLOROCYCLOPENTADIENE | ND | 21 | 5.1 |
| HEXACHLOROETHANE | ND | 10 | 5.1 |
| INDENO(1,2,3-CD)PYRENE | ND | 10 | 5.1 |
| ISOPHORONE | ND | 10 | 5.1 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 10 | 5.1 |
| N-NITROSODIPHENYLAMINE (2) | ND | 10 | 5.1 |
| NAPHTHALENE | ND | 10 | 5.1 |
| NITROBENZENE | ND | 10 | 5.1 |
| PENTACHLOROPHENOL | ND | 21 | 5.1 |
| PHENANTHRENE | ND | 10 | 5.1 |
| PHENOL | ND | 10 | 5.1 |
| PYRENE | ND | 10 | 5.1 |
| BENZYL ALCOHOL | ND | 10 | 5.1 |
| 1-METHYLNAPHTHALENE | ND | 10 | 5.1 |
| 1,2-DIPHENYLHYDRAZINE | ND | 10 | 5.1 |
| 3,5-DIMETHYLPHENOL | ND | 21 | 5.1 |
| ANILINE | ND | 21 | 10 |
| BENZIDINE | ND | 52 | 21 |
| BENZOIC ACID | ND | 41 | 21 |
| CARBAZOLE | ND | 10 | 5.1 |
| N-NITROSODIMETHYLAMINE | ND | 10 | 5.1 |
| TETRALIN | ND | 10 | 10 |
| 2-BUTOXYETHANOL | ND | 10 | 10 |
| 2-PHENOXYETHANOL | ND | 10 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 52.4 | 61.80 | 84.8 | 30-130 |
| 2-FLUOROBIPHENYL | 15.5 | 20.60 | 75.4 | 45-130 |
| 2-FLUOROPHENOL | 32.7 | 61.80 | 52.9 | 20-130 |
| NITROBENZENE-D5 | 14.9 | 20.60 | 72.1 | 40-130 |
| PHENOL-D5 | 39.8 | 61.80 | 64.3 | 20-120 |
| TERPHENYL-D14 | 21.8 | 20.60 | 106 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C273 | Date Extracted: 03/28/12 16:30 |
| Sample ID: MBLK1W | Date Analyzed: 03/30/12 13:48 |
| Lab Samp ID: SVC043WB | Dilution Factor: 1 |
| Lab File ID: RCJ534 | Matrix : WATER |
| Ext Btch ID: SVC043W | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 10 | 5.0 |
| 1,2-DICHLOROBENZENE | ND | 10 | 5.0 |
| 1,3-DICHLOROBENZENE | ND | 10 | 5.0 |
| 1,4-DICHLOROBENZENE | ND | 10 | 5.0 |
| 2,4,5-TRICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4,6-TRICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4-DICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4-DIMETHYLPHENOL | ND | 10 | 5.0 |
| 2,4-DINITROPHENOL | ND | 20 | 5.0 |
| 2,4-DINITROTOLUENE | ND | 10 | 5.0 |
| 2,6-DINITROTOLUENE | ND | 10 | 5.0 |
| 2-CHLORONAPHTHALENE | ND | 10 | 5.0 |
| 2-CHLOROPHENOL | ND | 10 | 5.0 |
| 2-METHYLNAPHTHALENE | ND | 10 | 5.0 |
| 2-METHYLPHENOL | ND | 10 | 5.0 |
| 2-NITROANILINE | ND | 10 | 5.0 |
| 2-NITROPHENOL | ND | 10 | 5.0 |
| 3,3'-DICHLOROBENZIDINE | ND | 10 | 5.0 |
| 3-NITROANILINE | ND | 10 | 5.0 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 20 | 5.0 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 10 | 5.0 |
| 4-CHLORO-3-METHYLPHENOL | ND | 10 | 5.0 |
| 4-CHLOROANILINE | ND | 10 | 5.0 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 10 | 5.0 |
| 4-METHYLPHENOL (1) | ND | 10 | 5.0 |
| 4-NITROANILINE | ND | 10 | 5.0 |
| 4-NITROPHENOL | ND | 20 | 5.0 |
| ACENAPHTHENE | ND | 10 | 5.0 |
| ACENAPHTHYLENE | ND | 10 | 5.0 |
| ANTHRACENE | ND | 10 | 5.0 |
| BENZO(A)ANTHRACENE | ND | 10 | 5.0 |
| BENZO(A)PYRENE | ND | 10 | 5.0 |
| BENZO(B)FLUORANTHENE | ND | 10 | 5.0 |
| BENZO(K)FLUORANTHENE | ND | 10 | 5.0 |
| BENZO(G,H,I)PERYLENE | ND | 10 | 5.0 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 10 | 5.0 |
| BIS(2-CHLOROETHYL)ETHER | ND | 10 | 5.0 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 10 | 5.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 20 | 5.0 |
| BUTYLBENZYLPHTHALATE | ND | 10 | 5.0 |
| CHRYSENE | ND | 10 | 5.0 |
| DI-N-BUTYLPHTHALATE | ND | 10 | 5.0 |
| DI-N-OCTYLPHTHALATE | ND | 10 | 5.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 10 | 5.0 |
| DIBENZOFURAN | ND | 10 | 5.0 |
| DIETHYLPHTHALATE | ND | 10 | 5.0 |
| DIMETHYLPHTHALATE | ND | 10 | 5.0 |
| FLUORANTHENE | ND | 10 | 5.0 |
| FLUORENE | ND | 10 | 5.0 |
| HEXACHLOROBENZENE | ND | 10 | 5.0 |
| HEXACHLOROBUTADIENE | ND | 10 | 5.0 |
| HEXACHLOROCYCLOPENTADIENE | ND | 20 | 5.0 |
| HEXACHLOROETHANE | ND | 10 | 5.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 10 | 5.0 |
| ISOPHORONE | ND | 10 | 5.0 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 10 | 5.0 |
| N-NITROSODIPHENYLAMINE (2) | ND | 10 | 5.0 |
| NAPHTHALENE | ND | 10 | 5.0 |
| NITROBENZENE | ND | 10 | 5.0 |
| PENTACHLOROPHENOL | ND | 20 | 5.0 |
| PHENANTHRENE | ND | 10 | 5.0 |
| PHENOL | ND | 10 | 5.0 |
| PYRENE | ND | 10 | 5.0 |
| BENZYL ALCOHOL | ND | 10 | 5.0 |
| 1-METHYLNAPHTHALENE | ND | 10 | 5.0 |
| 1,2-DIPHENYLHYDRAZINE | ND | 10 | 5.0 |
| 3,5-DIMETHYLPHENOL | ND | 20 | 5.0 |
| ANILINE | ND | 20 | 10 |
| BENZIDINE | ND | 50 | 20 |
| BENZOIC ACID | ND | 40 | 20 |
| CARBAZOLE | ND | 10 | 5.0 |
| N-NITROSODIMETHYLAMINE | ND | 10 | 5.0 |
| TETRALIN | ND | 10 | 10 |
| 2-BUTOXYETHANOL | ND | 10 | 10 |
| 2-PHENOXYETHANOL | ND | 10 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 46.7 | 60.00 | 77.8 | 30-130 |
| 2-FLUOROBIPHENYL | 15.6 | 20.00 | 77.8 | 45-130 |
| 2-FLUOROPHENOL | 34.5 | 60.00 | 57.5 | 20-130 |
| NITROBENZENE-D5 | 15.8 | 20.00 | 78.8 | 40-130 |
| PHENOL-D5 | 41.6 | 60.00 | 69.4 | 20-120 |
| TERPHENYL-D14 | 19.7 | 20.00 | 98.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 3520C/8270C

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: SVC043WB SVC043WC
LAB FILE ID: RCJ534 RCJ536
DATE EXTRACTED: 03/28/1216:30 03/28/1216:30 DATE COLLECTED: NA
DATE ANALYZED: 03/30/1213:48 03/30/1214:26 DATE RECEIVED: 03/28/12
PREP. BATCH: SVC043W SVC043W
CALIB. REF: RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 40.0 | 28.7 | 72 | 30-130 |
| 1,2-Dichlorobenzene | ND | 40.0 | 28.6 | 72 | 30-130 |
| 1,3-Dichlorobenzene | ND | 40.0 | 27.8 | 70 | 30-130 |
| 1,4-Dichlorobenzene | ND | 40.0 | 28.1 | 70 | 30-130 |
| 2,4,5-Trichlorophenol | ND | 40.0 | 33.0 | 83 | 30-130 |
| 2,4,6-Trichlorophenol | ND | 40.0 | 36.7 | 92 | 30-130 |
| 2,4-Dichlorophenol | ND | 40.0 | 34.4 | 86 | 40-130 |
| 2,4-Dimethylphenol | ND | 40.0 | 33.5 | 84 | 30-130 |
| 2,4-Dinitrophenol | ND | 40.0 | 34.1 | 85 | 30-130 |
| 2,4-Dinitrotoluene | ND | 40.0 | 44.2 | 110 | 40-130 |
| 2,6-Dinitrotoluene | ND | 40.0 | 42.1 | 105 | 40-130 |
| 2-Chloronaphthalene | ND | 40.0 | 34.2 | 86 | 40-130 |
| 2-Chlorophenol | ND | 40.0 | 31.6 | 79 | 30-130 |
| 2-Methylnaphthalene | ND | 40.0 | 37.9 | 95 | 40-130 |
| 2-Methylphenol | ND | 40.0 | 29.3 | 73 | 30-130 |
| 2-Nitroaniline | ND | 40.0 | 37.7 | 94 | 40-130 |
| 2-Nitrophenol | ND | 40.0 | 34.6 | 86 | 40-130 |
| 3,3'-Dichlorobenzidine | ND | 40.0 | 40.2 | 100 | 20-140 |
| 3-Nitroaniline | ND | 40.0 | 35.9 | 90 | 30-130 |
| 4,6-Dinitro-2-Methylphenol | ND | 40.0 | 41.7 | 104 | 40-130 |
| 4-Bromophenyl-phenylether | ND | 40.0 | 40.8 | 102 | 50-130 |
| 4-Chloro-3-Methylphenol | ND | 40.0 | 36.0 | 90 | 30-130 |
| 4-Chloroaniline | ND | 40.0 | 30.9 | 77 | 30-130 |
| 4-Chlorophenyl-phenylether | ND | 40.0 | 42.8 | 107 | 50-130 |
| 4-Methylphenol | ND | 40.0 | 32.4 | 81 | 30-130 |
| 4-Nitroaniline | ND | 40.0 | 38.9 | 97 | 30-130 |
| 4-Nitrophenol | ND | 40.0 | 29.6 | 74 | 30-130 |
| Acenaphthene | ND | 40.0 | 40.0 | 100 | 40-130 |
| Acenaphthylene | ND | 40.0 | 40.5 | 101 | 40-130 |
| Anthracene | ND | 40.0 | 42.2 | 106 | 50-130 |
| Benzo(a)anthracene | ND | 40.0 | 44.6 | 111 | 50-130 |
| Benzo(a)pyrene | ND | 40.0 | 42.7 | 107 | 50-130 |
| Benzo(b)fluoranthene | ND | 40.0 | 45.6 | 114 | 40-140 |
| Benzo(k)fluoranthene | ND | 40.0 | 45.3 | 113 | 40-130 |
| Benzo(g,h,i)perylene | ND | 40.0 | 45.4 | 114 | 40-130 |
| bis(2-Chloroethoxy)methane | ND | 40.0 | 35.6 | 89 | 40-130 |
| bis(2-Chloroethyl)ether | ND | 40.0 | 34.4 | 86 | 30-130 |
| bis(2-Chloroisopropyl)ether | ND | 40.0 | 36.6 | 91 | 20-130 |
| bis(2-Ethylhexyl)phthalate | ND | 40.0 | 45.0 | 113 | 20-140 |
| Butylbenzylphthalate | ND | 40.0 | 45.3 | 113 | 40-130 |
| Chrysene | ND | 40.0 | 46.5 | 116 | 40-130 |
| Di-n-butylphthalate | ND | 40.0 | 44.0 | 110 | 30-160 |
| Di-n-octylphthalate | ND | 40.0 | 43.3 | 108 | 20-150 |
| Dibenzo(a,h)anthracene | ND | 40.0 | 45.8 | 114 | 40-130 |
| Dibenzofuran | ND | 40.0 | 39.1 | 98 | 40-130 |
| Diethylphthalate | ND | 40.0 | 41.4 | 103 | 30-140 |
| Dimethylphthalate | ND | 40.0 | 41.0 | 103 | 30-130 |
| Fluoranthene | ND | 40.0 | 46.3 | 116 | 40-130 |

| | | | | | |
|---|---|---|---|---|---|
| Fluorene | ND | 40.0 | 42.7 | 107 | 40-130 |
| Hexachlorobenzene | ND | 40.0 | 39.4 | 98 | 30-130 |
| Hexachlorobutadiene | ND | 40.0 | 30.5 | 76 | 10-130 |
| Hexachlorocyclopentadiene | ND | 40.0 | 15.9J | 40 | 10-130 |
| Hexachloroethane | ND | 40.0 | 28.3 | 71 | 20-130 |
| Indeno(1,2,3-cd)pyrene | ND | 40.0 | 46.0 | 115 | 50-130 |
| Isophorone | ND | 40.0 | 36.7 | 92 | 40-130 |
| n-Nitroso-di-n-propylamine | ND | 40.0 | 28.3 | 71 | 30-130 |
| n-Nitrosodiphenylamine | ND | 40.0 | 31.9 | 80 | 10-150 |
| Naphthalene | ND | 40.0 | 35.8 | 90 | 20-130 |
| Nitrobenzene | ND | 40.0 | 36.9 | 92 | 30-130 |
| Pentachlorophenol | ND | 40.0 | 35.7 | 89 | 30-130 |
| Phenanthrene | ND | 40.0 | 45.4 | 113 | 40-130 |
| Phenol | ND | 40.0 | 30.0 | 75 | 20-130 |
| Pyrene | ND | 40.0 | 44.0 | 110 | 40-130 |
| Benzyl Alcohol | ND | 40.0 | 31.1 | 78 | 30-130 |
| 1-Methylnaphthalene | ND | 40.0 | 38.4 | 96 | 40-130 |
| 1,2-Diphenylhydrazine | ND | 40.0 | 37.5 | 94 | 30-130 |
| 3,5-Dimethylphenol | ND | 40.0 | 31.7 | 79 | 20-150 |
| Aniline | ND | 40.0 | 24.0 | 60 | 10-130 |
| Benzidine | ND | 80.0 | 37.0J | 46 | 20-130 |
| Benzoic Acid | ND | 80.0 | 48.8 | 61 | 10-130 |
| Carbazole | ND | 40.0 | 41.4 | 103 | 50-130 |
| N-Nitrosodimethylamine | ND | 40.0 | 32.8 | 82 | 30-150 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|
| 2,4,6-Tribromophenol | 60.0 | 54.3 | 90 | 30-130 |
| 2-Fluorobiphenyl | 20.0 | 15.2 | 76 | 45-130 |
| 2-Fluorophenol | 60.0 | 34.4 | 57 | 20-130 |
| Nitrobenzene-d5 | 20.0 | 14.0 | 70 | 40-130 |
| Phenol-d5 | 60.0 | 39.8 | 66 | 20-120 |
| Terphenyl-d14 | 20.0 | 20.3 | 101 | 45-135 |

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/07/12 12:51 |
| Sample ID: SL-039-NBZ-SB-2.0-3.0 | Date Analyzed: 04/09/12 18:21 |
| Lab Samp ID: C273-04 | Dilution Factor: 1 |
| Lab File ID: RDJ172 | Matrix : SOIL |
| Ext Btch ID: SVD015S | % Moisture : 12.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 96 |
| 1,2-DICHLOROBENZENE | ND | 190 | 96 |
| 1,3-DICHLOROBENZENE | ND | 190 | 96 |
| 1,4-DICHLOROBENZENE | ND | 190 | 96 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 96 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 96 |
| 2,6-DINITROTOLUENE | ND | 190 | 96 |
| 2-CHLORONAPHTHALENE | ND | 190 | 96 |
| 2-CHLOROPHENOL | ND | 190 | 96 |
| 2-METHYLNAPHTHALENE | ND | 190 | 96 |
| 2-METHYLPHENOL | ND | 190 | 96 |
| 2-NITROANILINE | ND | 190 | 96 |
| 2-NITROPHENOL | ND | 190 | 96 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 96 |
| 3-NITROANILINE | ND | 190 | 96 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 96 |
| 4-CHLOROANILINE | ND | 190 | 96 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-METHYLPHENOL (1) | ND | 190 | 96 |
| 4-NITROANILINE | ND | 190 | 96 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 96 |
| ACENAPHTHYLENE | ND | 190 | 96 |
| ANTHRACENE | ND | 190 | 96 |
| BENZO(A)ANTHRACENE | ND | 190 | 96 |
| BENZO(A)PYRENE | ND | 190 | 96 |
| BENZO(B)FLUORANTHENE | ND | 190 | 96 |
| BENZO(K)FLUORANTHENE | ND | 190 | 96 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 96 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 96 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 96 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 96 |
| CHRYSENE | ND | 190 | 96 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 96 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 96 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 96 |
| DIBENZOFURAN | ND | 190 | 96 |
| DIETHYLPHTHALATE | ND | 190 | 96 |
| DIMETHYLPHTHALATE | ND | 190 | 96 |
| FLUORANTHENE | ND | 190 | 96 |
| FLUORENE | ND | 190 | 96 |
| HEXACHLOROBENZENE | ND | 190 | 96 |
| HEXACHLOROBUTADIENE | ND | 190 | 96 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 96 |
| HEXACHLOROETHANE | ND | 190 | 96 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 96 |
| ISOPHORONE | ND | 190 | 96 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 96 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 96 |
| NAPHTHALENE | ND | 190 | 96 |
| NITROBENZENE | ND | 190 | 96 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 96 |
| PHENOL | ND | 190 | 96 |
| PYRENE | ND | 190 | 96 |
| BENZYL ALCOHOL | ND | 190 | 96 |
| 1-METHYLNAPHTHALENE | ND | 190 | 96 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 96 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 96 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 950 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 96 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 96 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 776 | 1140 | 68.1 | 35-130 |
| 2-FLUOROBIPHENYL | 212 | 380.0 | 55.7 | 45-130 |
| 2-FLUOROPHENOL | 644 | 1140 | 56.5 | 25-130 |
| NITROBENZENE-D5 | 225 | 380.0 | 59.2 | 40-130 |
| PHENOL-D5 | 687 | 1140 | 60.2 | 25-120 |
| TERPHENYL-D14 | 318 | 380.0 | 83.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/07/12 12:51 |
| Sample ID: SL-038-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 18:40 |
| Lab Samp ID: C273-05 | Dilution Factor: 1 |
| Lab File ID: RDJ173 | Matrix : SOIL |
| Ext Btch ID: SVD015S | % Moisture : 17.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 400 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 400 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 400 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 400 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 400 | 200 |
| BENZIDINE | ND | 1000 | 510 |
| BENZOIC ACID | ND | 800 | 400 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 862 | 1206 | 71.4 | 35-130 |
| 2-FLUOROBIPHENYL | 233 | 402.1 | 58.0 | 45-130 |
| 2-FLUOROPHENOL | 676 | 1206 | 56.0 | 25-130 |
| NITROBENZENE-D5 | 231 | 402.1 | 57.4 | 40-130 |
| PHENOL-D5 | 730 | 1206 | 60.5 | 25-120 |
| TERPHENYL-D14 | 346 | 402.1 | 86.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/07/12 12:51 |
| Sample ID: SL-078-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 18:59 |
| Lab Samp ID: C273-06 | Dilution Factor: 1 |
| Lab File ID: RDJ174 | Matrix : SOIL |
| Ext Btch ID: SVD015S | % Moisture : 11.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 95 |
| 1,2-DICHLOROBENZENE | ND | 190 | 95 |
| 1,3-DICHLOROBENZENE | ND | 190 | 95 |
| 1,4-DICHLOROBENZENE | ND | 190 | 95 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 95 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 95 |
| 2,6-DINITROTOLUENE | ND | 190 | 95 |
| 2-CHLORONAPHTHALENE | ND | 190 | 95 |
| 2-CHLOROPHENOL | ND | 190 | 95 |
| 2-METHYLNAPHTHALENE | ND | 190 | 95 |
| 2-METHYLPHENOL | ND | 190 | 95 |
| 2-NITROANILINE | ND | 190 | 95 |
| 2-NITROPHENOL | ND | 190 | 95 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 95 |
| 3-NITROANILINE | ND | 190 | 95 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 95 |
| 4-CHLOROANILINE | ND | 190 | 95 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-METHYLPHENOL (1) | ND | 190 | 95 |
| 4-NITROANILINE | ND | 190 | 95 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 95 |
| ACENAPHTHYLENE | ND | 190 | 95 |
| ANTHRACENE | ND | 190 | 95 |
| BENZO(A)ANTHRACENE | ND | 190 | 95 |
| BENZO(A)PYRENE | ND | 190 | 95 |
| BENZO(B)FLUORANTHENE | ND | 190 | 95 |
| BENZO(K)FLUORANTHENE | ND | 190 | 95 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 95 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 95 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 95 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 95 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 95 |
| CHRYSENE | ND | 190 | 95 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 95 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 95 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 95 |
| DIBENZOFURAN | ND | 190 | 95 |
| DIETHYLPHTHALATE | ND | 190 | 95 |
| DIMETHYLPHTHALATE | ND | 190 | 95 |
| FLUORANTHENE | ND | 190 | 95 |
| FLUORENE | ND | 190 | 95 |
| HEXACHLOROBENZENE | ND | 190 | 95 |
| HEXACHLOROBUTADIENE | ND | 190 | 95 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 95 |
| HEXACHLOROETHANE | ND | 190 | 95 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 95 |
| ISOPHORONE | ND | 190 | 95 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 95 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 95 |
| NAPHTHALENE | ND | 190 | 95 |
| NITROBENZENE | ND | 190 | 95 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 95 |
| PHENOL | ND | 190 | 95 |
| PYRENE | ND | 190 | 95 |
| BENZYL ALCOHOL | ND | 190 | 95 |
| 1-METHYLNAPHTHALENE | ND | 190 | 95 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 95 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 95 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 940 | 470 |
| BENZOIC ACID | ND | 750 | 380 |
| CARBAZOLE | ND | 190 | 95 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 95 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 733 | 1130 | 64.9 | 35-130 |
| 2-FLUOROBIPHENYL | 189 | 376.6 | 50.1 | 45-130 |
| 2-FLUOROPHENOL | 591 | 1130 | 52.3 | 25-130 |
| NITROBENZENE-D5 | 202 | 376.6 | 53.7 | 40-130 |
| PHENOL-D5 | 641 | 1130 | 56.7 | 25-120 |
| TERPHENYL-D14 | 305 | 376.6 | 81.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/07/12 12:51 |
| Sample ID: SL-095-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 19:19 |
| Lab Samp ID: C273-07 | Dilution Factor: 1 |
| Lab File ID: RDJ175 | Matrix : SOIL |
| Ext Btch ID: SVD015S | % Moisture : 11.9 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 95 |
| 1,2-DICHLOROBENZENE | ND | 190 | 95 |
| 1,3-DICHLOROBENZENE | ND | 190 | 95 |
| 1,4-DICHLOROBENZENE | ND | 190 | 95 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 95 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 95 |
| 2,6-DINITROTOLUENE | ND | 190 | 95 |
| 2-CHLORONAPHTHALENE | ND | 190 | 95 |
| 2-CHLOROPHENOL | ND | 190 | 95 |
| 2-METHYLNAPHTHALENE | ND | 190 | 95 |
| 2-METHYLPHENOL | ND | 190 | 95 |
| 2-NITROANILINE | ND | 190 | 95 |
| 2-NITROPHENOL | ND | 190 | 95 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 95 |
| 3-NITROANILINE | ND | 190 | 95 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 95 |
| 4-CHLOROANILINE | ND | 190 | 95 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-METHYLPHENOL (1) | ND | 190 | 95 |
| 4-NITROANILINE | ND | 190 | 95 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 95 |
| ACENAPHTHYLENE | ND | 190 | 95 |
| ANTHRACENE | ND | 190 | 95 |
| BENZO(A)ANTHRACENE | ND | 190 | 95 |
| BENZO(A)PYRENE | ND | 190 | 95 |
| BENZO(B)FLUORANTHENE | ND | 190 | 95 |
| BENZO(K)FLUORANTHENE | ND | 190 | 95 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 95 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 95 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 95 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 95 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 95 |
| CHRYSENE | ND | 190 | 95 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 95 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 95 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 95 |
| DIBENZOFURAN | ND | 190 | 95 |
| DIETHYLPHTHALATE | ND | 190 | 95 |
| DIMETHYLPHTHALATE | ND | 190 | 95 |
| FLUORANTHENE | ND | 190 | 95 |
| FLUORENE | ND | 190 | 95 |
| HEXACHLOROBENZENE | ND | 190 | 95 |
| HEXACHLOROBUTADIENE | ND | 190 | 95 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 95 |
| HEXACHLOROETHANE | ND | 190 | 95 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 95 |
| ISOPHORONE | ND | 190 | 95 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 95 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 95 |
| NAPHTHALENE | ND | 190 | 95 |
| NITROBENZENE | ND | 190 | 95 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 95 |
| PHENOL | ND | 190 | 95 |
| PYRENE | ND | 190 | 95 |
| BENZYL ALCOHOL | ND | 190 | 95 |
| 1-METHYLNAPHTHALENE | ND | 190 | 95 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 95 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 95 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 940 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 95 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 95 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 798 | 1135 | 70.3 | 35-130 |
| 2-FLUOROBIPHENYL | 214 | 378.3 | 56.6 | 45-130 |
| 2-FLUOROPHENOL | 594 | 1135 | 52.4 | 25-130 |
| NITROBENZENE-D5 | 208 | 378.3 | 55.1 | 40-130 |
| PHENOL-D5 | 659 | 1135 | 58.0 | 25-120 |
| TERPHENYL-D14 | 327 | 378.3 | 86.4 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/07/12 12:51 |
| Sample ID: SL-102-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 19:38 |
| Lab Samp ID: C273-08 | Dilution Factor: 1 |
| Lab File ID: RDJ176 | Matrix : SOIL |
| Ext Btch ID: SVD015S | % Moisture : 13.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 97 |
| 1,2-DICHLOROBENZENE | ND | 190 | 97 |
| 1,3-DICHLOROBENZENE | ND | 190 | 97 |
| 1,4-DICHLOROBENZENE | ND | 190 | 97 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 97 |
| 2,4-DINITROPHENOL | ND | 390 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 97 |
| 2,6-DINITROTOLUENE | ND | 190 | 97 |
| 2-CHLORONAPHTHALENE | ND | 190 | 97 |
| 2-CHLOROPHENOL | ND | 190 | 97 |
| 2-METHYLNAPHTHALENE | ND | 190 | 97 |
| 2-METHYLPHENOL | ND | 190 | 97 |
| 2-NITROANILINE | ND | 190 | 97 |
| 2-NITROPHENOL | ND | 190 | 97 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 97 |
| 3-NITROANILINE | ND | 190 | 97 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 97 |
| 4-CHLOROANILINE | ND | 190 | 97 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-METHYLPHENOL (1) | ND | 190 | 97 |
| 4-NITROANILINE | ND | 190 | 97 |
| 4-NITROPHENOL | ND | 390 | 190 |
| ACENAPHTHENE | ND | 190 | 97 |
| ACENAPHTHYLENE | ND | 190 | 97 |
| ANTHRACENE | ND | 190 | 97 |
| BENZO(A)ANTHRACENE | ND | 190 | 97 |
| BENZO(A)PYRENE | ND | 190 | 97 |
| BENZO(B)FLUORANTHENE | ND | 190 | 97 |
| BENZO(K)FLUORANTHENE | ND | 190 | 97 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 97 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 97 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 97 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 97 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 97 |
| CHRYSENE | ND | 190 | 97 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 97 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 97 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 97 |
| DIBENZOFURAN | ND | 190 | 97 |
| DIETHYLPHTHALATE | ND | 190 | 97 |
| DIMETHYLPHTHALATE | ND | 190 | 97 |
| FLUORANTHENE | ND | 190 | 97 |
| FLUORENE | ND | 190 | 97 |
| HEXACHLOROBENZENE | ND | 190 | 97 |
| HEXACHLOROBUTADIENE | ND | 190 | 97 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 97 |
| HEXACHLOROETHANE | ND | 190 | 97 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 97 |
| ISOPHORONE | ND | 190 | 97 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 97 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 97 |
| NAPHTHALENE | ND | 190 | 97 |
| NITROBENZENE | ND | 190 | 97 |
| PENTACHLOROPHENOL | ND | 390 | 190 |
| PHENANTHRENE | ND | 190 | 97 |
| PHENOL | ND | 190 | 97 |
| PYRENE | ND | 190 | 97 |
| BENZYL ALCOHOL | ND | 190 | 97 |
| 1-METHYLNAPHTHALENE | ND | 190 | 97 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 97 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 97 |
| ANILINE | ND | 390 | 190 |
| BENZIDINE | ND | 960 | 490 |
| BENZOIC ACID | ND | 770 | 390 |
| CARBAZOLE | ND | 190 | 97 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 97 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 745 | 1160 | 64.2 | 35-130 |
| 2-FLUOROBIPHENYL | 196 | 386.7 | 50.6 | 45-130 |
| 2-FLUOROPHENOL | 587 | 1160 | 50.6 | 25-130 |
| NITROBENZENE-D5 | 199 | 386.7 | 51.3 | 40-130 |
| PHENOL-D5 | 630 | 1160 | 54.3 | 25-120 |
| TERPHENYL-D14 | 298 | 386.7 | 77.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/10/12 17:03 |
| Sample ID: SL-109-NBZ-SS-0.0-0.5 | Date Analyzed: 04/12/12 01:55 |
| Lab Samp ID: C273-09R | Dilution Factor: 1 |
| Lab File ID: RDH183 | Matrix : SOIL |
| Ext Btch ID: SVD020S | % Moisture : 12.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 96 |
| 1,2-DICHLOROBENZENE | ND | 190 | 96 |
| 1,3-DICHLOROBENZENE | ND | 190 | 96 |
| 1,4-DICHLOROBENZENE | ND | 190 | 96 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 96 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 96 |
| 2,6-DINITROTOLUENE | ND | 190 | 96 |
| 2-CHLORONAPHTHALENE | ND | 190 | 96 |
| 2-CHLOROPHENOL | ND | 190 | 96 |
| 2-METHYLNAPHTHALENE | ND | 190 | 96 |
| 2-METHYLPHENOL | ND | 190 | 96 |
| 2-NITROANILINE | ND | 190 | 96 |
| 2-NITROPHENOL | ND | 190 | 96 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 96 |
| 3-NITROANILINE | ND | 190 | 96 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 96 |
| 4-CHLOROANILINE | ND | 190 | 96 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-METHYLPHENOL (1) | ND | 190 | 96 |
| 4-NITROANILINE | ND | 190 | 96 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 96 |
| ACENAPHTHYLENE | ND | 190 | 96 |
| ANTHRACENE | ND | 190 | 96 |
| BENZO(A)ANTHRACENE | ND | 190 | 96 |
| BENZO(A)PYRENE | ND | 190 | 96 |
| BENZO(B)FLUORANTHENE | ND | 190 | 96 |
| BENZO(K)FLUORANTHENE | ND | 190 | 96 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 96 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 96 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 96 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 96 |
| CHRYSENE | ND | 190 | 96 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 96 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 96 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 96 |
| DIBENZOFURAN | ND | 190 | 96 |
| DIETHYLPHTHALATE | ND | 190 | 96 |
| DIMETHYLPHTHALATE | ND | 190 | 96 |
| FLUORANTHENE | ND | 190 | 96 |
| FLUORENE | ND | 190 | 96 |
| HEXACHLOROBENZENE | ND | 190 | 96 |
| HEXACHLOROBUTADIENE | ND | 190 | 96 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 96 |
| HEXACHLOROETHANE | ND | 190 | 96 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 96 |
| ISOPHORONE | ND | 190 | 96 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 96 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 96 |
| NAPHTHALENE | ND | 190 | 96 |
| NITROBENZENE | ND | 190 | 96 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 96 |
| PHENOL | ND | 190 | 96 |
| PYRENE | ND | 190 | 96 |
| BENZYL ALCOHOL | ND | 190 | 96 |
| 1-METHYLNAPHTHALENE | ND | 190 | 96 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 96 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 96 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 950 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 96 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 96 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 974 | 1147 | 85.0 | 35-130 |
| 2-FLUOROBIPHENYL | 232 | 382.2 | 60.7 | 45-130 |
| 2-FLUOROPHENOL | 727 | 1147 | 63.4 | 25-130 |
| NITROBENZENE-D5 | 204 | 382.2 | 53.3 | 40-130 |
| PHENOL-D5 | 810 | 1147 | 70.7 | 25-120 |
| TERPHENYL-D14 | 361 | 382.2 | 94.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/07/12 12:51 |
| Sample ID: SL-119-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 20:16 |
| Lab Samp ID: C273-10 | Dilution Factor: 1 |
| Lab File ID: RDJ178 | Matrix : SOIL |
| Ext Btch ID: SVD015S | % Moisture : 11.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 750 | 380 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 706 | 1125 | 62.8 | 35-130 |
| 2-FLUOROBIPHENYL | 200 | 374.9 | 53.5 | 45-130 |
| 2-FLUOROPHENOL | 628 | 1125 | 55.8 | 25-130 |
| NITROBENZENE-D5 | 212 | 374.9 | 56.4 | 40-130 |
| PHENOL-D5 | 677 | 1125 | 60.2 | 25-120 |
| TERPHENYL-D14 | 280 | 374.9 | 74.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/07/12 12:51 |
| Sample ID: SL-129-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 20:36 |
| Lab Samp ID: C273-11 | Dilution Factor: 1 |
| Lab File ID: RDJ179 | Matrix : SOIL |
| Ext Btch ID: SVD015S | % Moisture : 20.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 210 | 100 |
| 1,2-DICHLOROBENZENE | ND | 210 | 100 |
| 1,3-DICHLOROBENZENE | ND | 210 | 100 |
| 1,4-DICHLOROBENZENE | ND | 210 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 210 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 210 | 100 |
| 2,4-DICHLOROPHENOL | ND | 210 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 210 | 100 |
| 2,4-DINITROPHENOL | ND | 420 | 210 |
| 2,4-DINITROTOLUENE | ND | 210 | 100 |
| 2,6-DINITROTOLUENE | ND | 210 | 100 |
| 2-CHLORONAPHTHALENE | ND | 210 | 100 |
| 2-CHLOROPHENOL | ND | 210 | 100 |
| 2-METHYLNAPHTHALENE | ND | 210 | 100 |
| 2-METHYLPHENOL | ND | 210 | 100 |
| 2-NITROANILINE | ND | 210 | 100 |
| 2-NITROPHENOL | ND | 210 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 210 | 100 |
| 3-NITROANILINE | ND | 210 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 420 | 210 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 210 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 210 | 100 |
| 4-CHLOROANILINE | ND | 210 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 210 | 100 |
| 4-METHYLPHENOL (1) | ND | 210 | 100 |
| 4-NITROANILINE | ND | 210 | 100 |
| 4-NITROPHENOL | ND | 420 | 210 |
| ACENAPHTHENE | ND | 210 | 100 |
| ACENAPHTHYLENE | ND | 210 | 100 |
| ANTHRACENE | ND | 210 | 100 |
| BENZO(A)ANTHRACENE | ND | 210 | 100 |
| BENZO(A)PYRENE | ND | 210 | 100 |
| BENZO(B)FLUORANTHENE | ND | 210 | 100 |
| BENZO(K)FLUORANTHENE | ND | 210 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 210 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 210 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 210 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 210 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 210 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 210 | 100 |
| CHRYSENE | ND | 210 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 210 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 210 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 210 | 100 |
| DIBENZOFURAN | ND | 210 | 100 |
| DIETHYLPHTHALATE | ND | 210 | 100 |
| DIMETHYLPHTHALATE | ND | 210 | 100 |
| FLUORANTHENE | ND | 210 | 100 |
| FLUORENE | ND | 210 | 100 |
| HEXACHLOROBENZENE | ND | 210 | 100 |
| HEXACHLOROBUTADIENE | ND | 210 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 210 | 100 |
| HEXACHLOROETHANE | ND | 210 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 210 | 100 |
| ISOPHORONE | ND | 210 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 210 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 210 | 100 |
| NAPHTHALENE | ND | 210 | 100 |
| NITROBENZENE | ND | 210 | 100 |
| PENTACHLOROPHENOL | ND | 420 | 210 |
| PHENANTHRENE | ND | 210 | 100 |
| PHENOL | ND | 210 | 100 |
| PYRENE | ND | 210 | 100 |
| BENZYL ALCOHOL | ND | 210 | 100 |
| 1-METHYLNAPHTHALENE | ND | 210 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 210 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 210 | 100 |
| ANILINE | ND | 420 | 210 |
| BENZIDINE | ND | 1000 | 520 |
| BENZOIC ACID | ND | 830 | 420 |
| CARBAZOLE | ND | 210 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 210 | 100 |
| TETRALIN | ND | 210 | 210 |
| 2-BUTOXYETHANOL | ND | 210 | 210 |
| 2-PHENOXYETHANOL | ND | 210 | 210 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 847 | 1250 | 67.8 | 35-130 |
| 2-FLUOROBIPHENYL | 222 | 416.6 | 53.3 | 45-130 |
| 2-FLUOROPHENOL | 639 | 1250 | 51.2 | 25-130 |
| NITROBENZENE-D5 | 228 | 416.6 | 54.8 | 40-130 |
| PHENOL-D5 | 736 | 1250 | 58.9 | 25-120 |
| TERPHENYL-D14 | 308 | 416.6 | 74.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/10/12 17:03 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/13/12 09:30 |
| Lab Samp ID: C273-12R | Dilution Factor: 1 |
| Lab File ID: RDH192 | Matrix : SOIL |
| Ext Btch ID: SVD020S | % Moisture : 16.1 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 400 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 400 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 400 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 400 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 400 | 200 |
| BENZIDINE | ND | 990 | 500 |
| BENZOIC ACID | ND | 790 | 400 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1070 | 1192 | 89.8 | 35-130 |
| 2-FLUOROBIPHENYL | 283 | 397.3 | 71.3 | 45-130 |
| 2-FLUOROPHENOL | 860 | 1192 | 72.2 | 25-130 |
| NITROBENZENE-D5 | 271 | 397.3 | 68.3 | 40-130 |
| PHENOL-D5 | 978 | 1192 | 82.1 | 25-120 |
| TERPHENYL-D14 | 368 | 397.3 | 92.8 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/07/12 |
| Batch No. : 12C273 | Date Extracted: 04/07/12 12:51 |
| Sample ID: MBLK1S | Date Analyzed: 04/09/12 12:53 |
| Lab Samp ID: SVD015SB | Dilution Factor: 1 |
| Lab File ID: RDJ155 | Matrix : SOIL |
| Ext Btch ID: SVD015S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 715 | 1000 | 71.5 | 35-130 |
| 2-FLUOROBIPHENYL | 202 | 333.3 | 60.5 | 45-130 |
| 2-FLUOROPHENOL | 648 | 1000 | 64.8 | 25-130 |
| NITROBENZENE-D5 | 230 | 333.3 | 68.9 | 40-130 |
| PHENOL-D5 | 655 | 1000 | 65.5 | 25-120 |
| TERPHENYL-D14 | 292 | 333.3 | 87.7 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12C273 | Date Extracted: 04/10/12 17:03 |
| Sample ID: MBLK2S | Date Analyzed: 04/11/12 22:45 |
| Lab Samp ID: SVD020SB | Dilution Factor: 1 |
| Lab File ID: RDH173 | Matrix : SOIL |
| Ext Btch ID: SVD020S | % Moisture : NA |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 826 | 1000 | 82.6 | 35-130 |
| 2-FLUOROBIPHENYL | 237 | 333.3 | 71.0 | 45-130 |
| 2-FLUOROPHENOL | 755 | 1000 | 75.5 | 25-130 |
| NITROBENZENE-D5 | 218 | 333.3 | 65.5 | 40-130 |
| PHENOL-D5 | 823 | 1000 | 82.3 | 25-120 |
| TERPHENYL-D14 | 336 | 333.3 | 101 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVD015SB SVD015SL SVD015SC
LAB FILE ID: RDJ155 RDJ156 RDJ157
DATE EXTRACTED: 04/07/1212:51 04/07/1212:51 04/07/1212:51 DATE COLLECTED: NA
DATE ANALYZED: 04/09/1212:53 04/09/1213:12 04/09/1213:31 DATE RECEIVED: 04/07/12
PREP. BATCH: SVD015S SVD015S SVD015S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 445 | 67 | 667 | 364 | 55 | 20 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 433 | 65 | 667 | 356 | 53 | 20 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 436 | 65 | 667 | 353 | 53 | 21 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 428 | 64 | 667 | 353 | 53 | 19 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 503 | 76 | 667 | 443 | 66 | 13 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 573 | 86 | 667 | 470 | 71 | 20 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 523 | 78 | 667 | 434 | 65 | 19 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 521 | 78 | 667 | 437 | 65 | 18 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 344 | 52 | 667 | 382 | 57 | 10 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 569 | 85 | 667 | 532 | 80 | 7 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 587 | 88 | 667 | 506 | 76 | 15 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 506 | 76 | 667 | 415 | 62 | 20 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 501 | 75 | 667 | 403 | 60 | 22 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 578 | 87 | 667 | 487 | 73 | 17 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 461 | 69 | 667 | 379 | 57 | 19 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 604 | 91 | 667 | 534 | 80 | 12 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 533 | 80 | 667 | 443 | 66 | 19 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 540 | 81 | 667 | 513 | 77 | 5 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 493 | 74 | 667 | 517 | 78 | 5 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 468 | 70 | 667 | 498 | 75 | 6 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 538 | 81 | 667 | 480 | 72 | 12 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 539 | 81 | 667 | 455 | 68 | 17 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 457 | 69 | 667 | 379 | 57 | 19 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 582 | 87 | 667 | 498 | 75 | 15 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 475 | 71 | 667 | 395 | 59 | 18 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 553 | 83 | 667 | 506 | 76 | 9 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 560 | 84 | 667 | 515 | 77 | 8 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 555 | 83 | 667 | 466 | 70 | 17 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 592 | 89 | 667 | 499 | 75 | 17 | 30-130 | 50 |
| Anthracene | ND | 667 | 554 | 83 | 667 | 508 | 76 | 9 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 578 | 87 | 667 | 564 | 85 | 2 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 579 | 87 | 667 | 560 | 84 | 3 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 629 | 94 | 667 | 620 | 93 | 1 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 575 | 86 | 667 | 556 | 83 | 3 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 611 | 92 | 667 | 601 | 90 | 2 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 598 | 90 | 667 | 503 | 75 | 17 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 571 | 86 | 667 | 466 | 70 | 20 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 589 | 88 | 667 | 490 | 74 | 18 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 631 | 95 | 667 | 610 | 92 | 3 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 658 | 99 | 667 | 616 | 92 | 7 | 40-150 | 50 |
| Chrysene | ND | 667 | 583 | 87 | 667 | 568 | 85 | 3 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 584 | 88 | 667 | 553 | 83 | 5 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 659 | 99 | 667 | 643 | 97 | 2 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 616 | 92 | 667 | 602 | 90 | 2 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 539 | 81 | 667 | 456 | 68 | 17 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 575 | 86 | 667 | 526 | 79 | 9 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 549 | 82 | 667 | 486 | 73 | 12 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 596 | 89 | 667 | 562 | 84 | 6 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 598 | 90 | 667 | 524 | 79 | 13 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 536 | 80 | 667 | 489 | 73 | 9 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 478 | 72 | 667 | 386 | 58 | 21 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 411 | 62 | 667 | 340 | 51 | 19 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 468 | 70 | 667 | 388 | 58 | 19 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 618 | 93 | 667 | 604 | 91 | 2 | 30-140 | 50 |
| Isophorone | ND | 667 | 587 | 88 | 667 | 488 | 73 | 18 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 472 | 71 | 667 | 389 | 58 | 19 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 427 | 64 | 667 | 379 | 57 | 12 | 30-140 | 50 |
| Naphthalene | ND | 667 | 538 | 81 | 667 | 448 | 67 | 18 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 573 | 86 | 667 | 475 | 71 | 19 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 453 | 68 | 667 | 437 | 66 | 4 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 581 | 87 | 667 | 528 | 79 | 9 | 30-130 | 50 |
| Phenol | ND | 667 | 516 | 77 | 667 | 417 | 63 | 21 | 30-130 | 50 |
| Pyrene | ND | 667 | 594 | 89 | 667 | 569 | 85 | 4 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 501 | 75 | 667 | 415 | 62 | 19 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 570 | 86 | 667 | 482 | 72 | 17 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 552 | 83 | 667 | 479 | 72 | 14 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 508 | 76 | 667 | 424 | 64 | 18 | 20-150 | 50 |
| Aniline | ND | 667 | 393 | 59 | 667 | 330J | 50 | 17 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1470 | 55 | 2670 | 1400 | 52 | 5 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 446J | 17 | 2670 | 617J | 23 | 32 | 10-130 | 50 |
| Carbazole | ND | 667 | 534 | 80 | 667 | 507 | 76 | 5 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 578 | 87 | 667 | 476 | 71 | 19 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 797 | 80 | 1000 | 723 | 72 | 35-130 |
| 2-Fluorobiphenyl | 333 | 213 | 64 | 333 | 182 | 55 | 45-130 |
| 2-Fluorophenol | 1000 | 700 | 70 | 1000 | 578 | 58 | 25-130 |
| Nitrobenzene-d5 | 333 | 246 | 74 | 333 | 207 | 62 | 40-130 |
| Phenol-d5 | 1000 | 727 | 73 | 1000 | 613 | 61 | 25-120 |
| Terphenyl-d14 | 333 | 282 | 85 | 333 | 277 | 83 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK2S
LAB SAMP ID: SVD020SB SVD020SL SVD020SC
LAB FILE ID: RDH173 RDH215 RDH216
DATE EXTRACTED: 04/10/1217:03 04/10/1217:03 04/10/1217:03 DATE COLLECTED: NA
DATE ANALYZED: 04/11/1222:45 04/13/1216:35 04/13/1216:54 DATE RECEIVED: 04/10/12
PREP. BATCH: SVD020S SVD020S SVD020S
CALIB. REF: RCH007 RCH007 RCH007

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 379 | 57 | 667 | 388 | 58 | 2 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 386 | 58 | 667 | 393 | 59 | 2 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 385 | 58 | 667 | 389 | 58 | 1 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 384 | 58 | 667 | 387 | 58 | 1 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 478 | 72 | 667 | 496 | 74 | 4 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 500 | 75 | 667 | 533 | 80 | 6 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 454 | 68 | 667 | 466 | 70 | 3 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 448 | 67 | 667 | 452 | 68 | 1 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 426 | 64 | 667 | 448 | 67 | 5 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 685 | 103 | 667 | 613 | 92 | 11 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 576 | 86 | 667 | 572 | 86 | 1 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 401 | 60 | 667 | 426 | 64 | 6 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 456 | 68 | 667 | 464 | 70 | 2 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 491 | 74 | 667 | 501 | 75 | 2 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 442 | 66 | 667 | 457 | 69 | 3 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 510 | 76 | 667 | 515 | 77 | 1 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 490 | 73 | 667 | 494 | 74 | 1 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 661 | 99 | 667 | 504 | 76 | 27 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 571 | 86 | 667 | 540 | 81 | 6 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 507 | 76 | 667 | 482 | 72 | 5 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 606 | 91 | 667 | 583 | 87 | 4 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 469 | 70 | 667 | 485 | 73 | 3 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 432 | 65 | 667 | 436 | 65 | 1 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 498 | 75 | 667 | 526 | 79 | 6 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 426 | 64 | 667 | 438 | 66 | 3 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 680 | 102 | 667 | 626 | 94 | 8 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 572 | 86 | 667 | 534 | 80 | 7 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 504 | 76 | 667 | 534 | 80 | 6 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 543 | 81 | 667 | 582 | 87 | 7 | 30-130 | 50 |
| Anthracene | ND | 667 | 583 | 87 | 667 | 516 | 77 | 12 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 716 | 107 | 667 | 608 | 91 | 16 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 694 | 104 | 667 | 580 | 87 | 18 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 754 | 113 | 667 | 630 | 94 | 18 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 701 | 105 | 667 | 604 | 91 | 15 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 773 | 116 | 667 | 640 | 96 | 19 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 490 | 74 | 667 | 506 | 76 | 3 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 491 | 74 | 667 | 503 | 75 | 2 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 487 | 73 | 667 | 498 | 75 | 2 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 737 | 111 | 667 | 619 | 93 | 17 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 752 | 113 | 667 | 639 | 96 | 16 | 40-150 | 50 |
| Chrysene | ND | 667 | 739 | 111 | 667 | 623 | 93 | 17 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 671 | 101 | 667 | 580 | 87 | 14 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 703 | 105 | 667 | 602 | 90 | 15 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 756 | 113 | 667 | 629 | 94 | 18 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 483 | 72 | 667 | 511 | 77 | 6 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 587 | 88 | 667 | 527 | 79 | 11 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 529 | 79 | 667 | 522 | 78 | 1 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 689 | 103 | 667 | 614 | 92 | 11 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 538 | 81 | 667 | 555 | 83 | 3 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 602 | 90 | 667 | 547 | 82 | 10 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 392 | 59 | 667 | 407 | 61 | 4 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 201 | 30 | 667 | 244 | 37 | 19 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 315 | 47 | 667 | 331 | 50 | 5 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 765 | 115 | 667 | 615 | 92 | 22 | 30-140 | 50 |
| Isophorone | ND | 667 | 456 | 68 | 667 | 525 | 79 | 14 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 402 | 60 | 667 | 409 | 61 | 2 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 438 | 66 | 667 | 394 | 59 | 11 | 30-140 | 50 |
| Naphthalene | ND | 667 | 492 | 74 | 667 | 493 | 74 | 0 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 466 | 70 | 667 | 472 | 71 | 1 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 746 | 112 | 667 | 650 | 97 | 14 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 601 | 90 | 667 | 530 | 79 | 13 | 30-130 | 50 |
| Phenol | ND | 667 | 471 | 71 | 667 | 472 | 71 | 0 | 30-130 | 50 |
| Pyrene | ND | 667 | 648 | 97 | 667 | 549 | 82 | 17 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 464 | 70 | 667 | 477 | 72 | 3 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 498 | 75 | 667 | 513 | 77 | 3 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 476 | 71 | 667 | 462 | 69 | 3 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 468 | 70 | 667 | 486 | 73 | 4 | 20-150 | 50 |
| Aniline | ND | 667 | 334 | 50 | 667 | 343 | 51 | 3 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1530 | 57 | 2670 | 1470 | 55 | 4 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 1500 | 56 | 2670 | 1610 | 60 | 7 | 10-130 | 50 |
| Carbazole | ND | 667 | 637 | 96 | 667 | 565 | 85 | 12 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 560 | 84 | 667 | 567 | 85 | 1 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 915 | 91 | 1000 | 815 | 82 | 35-130 |
| 2-Fluorobiphenyl | 333 | 189 | 57 | 333 | 192 | 58 | 45-130 |
| 2-Fluorophenol | 1000 | 600 | 60 | 1000 | 603 | 60 | 25-130 |
| Nitrobenzene-d5 | 333 | 197 | 59 | 333 | 195 | 58 | 40-130 |
| Phenol-d5 | 1000 | 688 | 69 | 1000 | 678 | 68 | 25-120 |
| Terphenyl-d14 | 333 | 344 | 103 | 333 | 282 | 85 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/10/12 17:03 |
| Sample ID: SL-039-NBZ-SB-2.0-3.0 | Date Analyzed: 04/13/12 17:12 |
| Lab Samp ID: C273-04N | Dilution Factor: 1 |
| Lab File ID: RDH217 | Matrix : SOIL |
| Ext Btch ID: SVD020S | % Moisture : 12.3 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.97 |
| ACENAPHTHYLENE | ND | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)PYRENE | ND | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.97 |
| CHRYSENE | ND | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | ND | 1.9 | 0.97 |
| FLUORENE | ND | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.97 |
| NAPHTHALENE | ND | 1.9 | 0.97 |
| PHENANTHRENE | ND | 1.9 | 0.97 |
| PYRENE | ND | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 40 | 19 | 9.6 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.6 |
| DIETHYLPHTHALATE | ND | 19 | 9.6 |
| DIMETHYLPHTHALATE | ND | 19 | 9.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 173 | 380.0 | 45.5 | 40-130 |
| 2-FLUOROBIPHENYL | 175 | 380.0 | 46.2 | 45-130 |
| TERPHENYL-D14 | 342 | 380.0 | 90.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/10/12 17:03 |
| Sample ID: SL-038-NBZ-SS-0.0-0.5 | Date Analyzed: 04/12/12 00:39 |
| Lab Samp ID: C273-05R | Dilution Factor: 1 |
| Lab File ID: RDH179 | Matrix : SOIL |
| Ext Btch ID: SVD020S | % Moisture : 17.1 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.1 | 1.0 |
| ACENAPHTHYLENE | ND | 2.1 | 1.0 |
| ANTHRACENE | ND | 2.1 | 1.0 |
| BENZO(A)ANTHRACENE | 15 | 2.1 | 1.0 |
| BENZO(A)PYRENE | ND | 2.1 | 1.0 |
| BENZO(B)FLUORANTHENE | 6.0 | 2.1 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.1 | 1.0 |
| BENZO(G,H,I)PERYLENE | 7.6 | 2.1 | 1.0 |
| CHRYSENE | ND | 2.1 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.1 | 1.0 |
| FLUORANTHENE | ND | 2.1 | 1.0 |
| FLUORENE | ND | 2.1 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.1 | 1.0 |
| NAPHTHALENE | ND | 2.1 | 1.0 |
| PHENANTHRENE | ND | 2.1 | 1.0 |
| PYRENE | ND | 2.1 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.1 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.1 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 62 | 20 | 10 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.1 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 229 | 402.1 | 56.9 | 40-130 |
| 2-FLUOROBIPHENYL | 261 | 402.1 | 65.0 | 45-130 |
| TERPHENYL-D14 | 369 | 402.1 | 91.7 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/10/12 17:03 |
| Sample ID: SL-078-NBZ-SS-0.0-0.5 | Date Analyzed: 04/12/12 00:58 |
| Lab Samp ID: C273-06R | Dilution Factor: 1 |
| Lab File ID: RDH180 | Matrix : SOIL |
| Ext Btch ID: SVD020S | % Moisture : 11.5 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.96 |
| ACENAPHTHYLENE | ND | 1.9 | 0.96 |
| ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)PYRENE | ND | 1.9 | 0.96 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.96 |
| CHRYSENE | ND | 1.9 | 0.96 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.96 |
| FLUORANTHENE | ND | 1.9 | 0.96 |
| FLUORENE | ND | 1.9 | 0.96 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.96 |
| NAPHTHALENE | ND | 1.9 | 0.96 |
| PHENANTHRENE | ND | 1.9 | 0.96 |
| PYRENE | ND | 1.9 | 0.96 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 19 | 19 | 9.5 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.5 |
| DIETHYLPHTHALATE | ND | 19 | 9.5 |
| DIMETHYLPHTHALATE | ND | 19 | 9.5 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.96 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 215 | 376.6 | 57.0 | 40-130 |
| 2-FLUOROBIPHENYL | 245 | 376.6 | 65.2 | 45-130 |
| TERPHENYL-D14 | 299 | 376.6 | 79.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/10/12 17:03 |
| Sample ID: SL-095-NBZ-SS-0.0-0.5 | Date Analyzed: 04/12/12 01:17 |
| Lab Samp ID: C273-07R | Dilution Factor: 1 |
| Lab File ID: RDH181 | Matrix : SOIL |
| Ext Btch ID: SVD020S | % Moisture : 11.9 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.96 |
| ACENAPHTHYLENE | ND | 1.9 | 0.96 |
| ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)PYRENE | ND | 1.9 | 0.96 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.96 |
| CHRYSENE | ND | 1.9 | 0.96 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.96 |
| FLUORANTHENE | ND | 1.9 | 0.96 |
| FLUORENE | ND | 1.9 | 0.96 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.96 |
| NAPHTHALENE | ND | 1.9 | 0.96 |
| PHENANTHRENE | ND | 1.9 | 0.96 |
| PYRENE | ND | 1.9 | 0.96 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 15J | 19 | 9.5 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.5 |
| DIETHYLPHTHALATE | ND | 19 | 9.5 |
| DIMETHYLPHTHALATE | ND | 19 | 9.5 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.96 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 218 | 378.3 | 57.7 | 40-130 |
| 2-FLUOROBIPHENYL | 235 | 378.3 | 62.2 | 45-130 |
| TERPHENYL-D14 | 324 | 378.3 | 85.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/10/12 17:03 |
| Sample ID: SL-102-NBZ-SS-0.0-0.5 | Date Analyzed: 04/12/12 01:36 |
| Lab Samp ID: C273-08R | Dilution Factor: 1 |
| Lab File ID: RDH182 | Matrix : SOIL |
| Ext Btch ID: SVD020S | % Moisture : 13.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 0.99 |
| ACENAPHTHYLENE | ND | 2.0 | 0.99 |
| ANTHRACENE | ND | 2.0 | 0.99 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 0.99 |
| BENZO(A)PYRENE | ND | 2.0 | 0.99 |
| BENZO(B)FLUORANTHENE | ND | 2.0 | 0.99 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 0.99 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 0.99 |
| CHRYSENE | ND | 2.0 | 0.99 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 0.99 |
| FLUORANTHENE | ND | 2.0 | 0.99 |
| FLUORENE | ND | 2.0 | 0.99 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 0.99 |
| NAPHTHALENE | ND | 2.0 | 0.99 |
| PHENANTHRENE | ND | 2.0 | 0.99 |
| PYRENE | ND | 2.0 | 0.99 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 26 | 19 | 9.7 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.7 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.7 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.7 |
| DIETHYLPHTHALATE | ND | 19 | 9.7 |
| DIMETHYLPHTHALATE | ND | 19 | 9.7 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 0.99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 232 | 386.7 | 59.9 | 40-130 |
| 2-FLUOROBIPHENYL | 258 | 386.7 | 66.8 | 45-130 |
| TERPHENYL-D14 | 330 | 386.7 | 85.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/10/12 17:03 |
| Sample ID: SL-109-NBZ-SS-0.0-0.5 | Date Analyzed: 04/12/12 01:55 |
| Lab Samp ID: C273-09R | Dilution Factor: 1 |
| Lab File ID: RDH183 | Matrix : SOIL |
| Ext Btch ID: SVD020S | % Moisture : 12.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.97 |
| ACENAPHTHYLENE | ND | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)PYRENE | ND | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.97 |
| CHRYSENE | ND | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | ND | 1.9 | 0.97 |
| FLUORENE | ND | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.97 |
| NAPHTHALENE | ND | 1.9 | 0.97 |
| PHENANTHRENE | ND | 1.9 | 0.97 |
| PYRENE | ND | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 17J | 19 | 9.6 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.6 |
| DIETHYLPHTHALATE | ND | 19 | 9.6 |
| DIMETHYLPHTHALATE | ND | 19 | 9.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 231 | 382.2 | 60.5 | 40-130 |
| 2-FLUOROBIPHENYL | 252 | 382.2 | 66.0 | 45-130 |
| TERPHENYL-D14 | 331 | 382.2 | 86.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/10/12 17:03 |
| Sample ID: SL-119-NBZ-SS-0.0-0.5 | Date Analyzed: 04/13/12 08:53 |
| Lab Samp ID: C273-10R | Dilution Factor: 1 |
| Lab File ID: RDH190 | Matrix : SOIL |
| Ext Btch ID: SVD020S | % Moisture : 11.1 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.96 |
| ACENAPHTHYLENE | ND | 1.9 | 0.96 |
| ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)PYRENE | ND | 1.9 | 0.96 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(G,H,I)PERYLENE | 1.1J | 1.9 | 0.96 |
| CHRYSENE | ND | 1.9 | 0.96 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.96 |
| FLUORANTHENE | 1.2J | 1.9 | 0.96 |
| FLUORENE | ND | 1.9 | 0.96 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.96 |
| NAPHTHALENE | ND | 1.9 | 0.96 |
| PHENANTHRENE | ND | 1.9 | 0.96 |
| PYRENE | 1.2J | 1.9 | 0.96 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 20 | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.96 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 222 | 374.9 | 59.3 | 40-130 |
| 2-FLUOROBIPHENYL | 260 | 374.9 | 69.4 | 45-130 |
| TERPHENYL-D14 | 310 | 374.9 | 82.7 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/10/12 17:03 |
| Sample ID: SL-129-NBZ-SS-0.0-0.5 | Date Analyzed: 04/13/12 09:12 |
| Lab Samp ID: C273-11R | Dilution Factor: 1 |
| Lab File ID: RDH191 | Matrix : SOIL |
| Ext Btch ID: SVD020S | % Moisture : 20.0 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.1 | 1.1 |
| ACENAPHTHYLENE | ND | 2.1 | 1.1 |
| ANTHRACENE | 2.1J | 2.1 | 1.1 |
| BENZO(A)ANTHRACENE | 12 | 2.1 | 1.1 |
| BENZO(A)PYRENE | 15 | 2.1 | 1.1 |
| BENZO(B)FLUORANTHENE | 23 | 2.1 | 1.1 |
| BENZO(K)FLUORANTHENE | 5.8 | 2.1 | 1.1 |
| BENZO(G,H,I)PERYLENE | 13 | 2.1 | 1.1 |
| CHRYSENE | 19 | 2.1 | 1.1 |
| DIBENZO(A,H)ANTHRACENE | 2.3 | 2.1 | 1.1 |
| FLUORANTHENE | 32 | 2.1 | 1.1 |
| FLUORENE | ND | 2.1 | 1.1 |
| INDENO(1,2,3-CD)PYRENE | 8.7 | 2.1 | 1.1 |
| NAPHTHALENE | ND | 2.1 | 1.1 |
| PHENANTHRENE | 11 | 2.1 | 1.1 |
| PYRENE | 30 | 2.1 | 1.1 |
| 2-METHYLNAPHTHALENE | ND | 2.1 | 1.1 |
| 1-METHYLNAPHTHALENE | ND | 2.1 | 1.1 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 53 | 21 | 11 |
| BUTYLBENZYLPHTHALATE | 18J | 21 | 11 |
| DI-N-BUTYLPHTHALATE | 15J | 21 | 11 |
| DI-N-OCTYLPHTHALATE | ND | 21 | 11 |
| DIETHYLPHTHALATE | ND | 21 | 11 |
| DIMETHYLPHTHALATE | ND | 21 | 11 |
| N-NITROSODIMETHYLAMINE | ND | 2.1 | 1.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 273 | 416.6 | 65.6 | 40-130 |
| 2-FLUOROBIPHENYL | 291 | 416.6 | 69.8 | 45-130 |
| TERPHENYL-D14 | 328 | 416.6 | 78.8 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/10/12 17:03 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/13/12 09:30 |
| Lab Samp ID: C273-12R | Dilution Factor: 1 |
| Lab File ID: RDH192 | Matrix : SOIL |
| Ext Btch ID: SVD020S | % Moisture : 16.1 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 1.0 |
| ACENAPHTHYLENE | ND | 2.0 | 1.0 |
| ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)PYRENE | 1.3J | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | 2.1 | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | 2.1 | 2.0 | 1.0 |
| CHRYSENE | ND | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 1.0 |
| FLUORANTHENE | 2.2 | 2.0 | 1.0 |
| FLUORENE | ND | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 1.0 |
| NAPHTHALENE | ND | 2.0 | 1.0 |
| PHENANTHRENE | 1.1J | 2.0 | 1.0 |
| PYRENE | 2.4 | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 30 | 20 | 10 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 297 | 397.3 | 74.8 | 40-130 |
| 2-FLUOROBIPHENYL | 306 | 397.3 | 77.1 | 45-130 |
| TERPHENYL-D14 | 346 | 397.3 | 87.0 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12C273 | Date Extracted: 04/10/12 17:03 |
| Sample ID: MBLK1S | Date Analyzed: 04/13/12 08:33 |
| Lab Samp ID: SVD020SQ | Dilution Factor: 1 |
| Lab File ID: RDH189 | Matrix : SOIL |
| Ext Btch ID: SVD020S | % Moisture : NA |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 202 | 333.3 | 60.6 | 40-130 |
| 2-FLUOROBIPHENYL | 218 | 333.3 | 65.5 | 45-130 |
| TERPHENYL-D14 | 242 | 333.3 | 72.6 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVD020SQ | SVD020SX | SVD020SY | | |
| LAB FILE ID: | RDH189 | RDH176 | RDH177 | | |
| DATE EXTRACTED: | 04/10/1217:03 | 04/10/1217:03 | 04/10/1217:03 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/13/1208:33 | 04/11/1223:42 | 04/12/1200:01 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | SVD020S | SVD020S | SVD020S | | |
| CALIB. REF: | RCH007 | RCH007 | RCH007 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 310 | 93 | 333 | 318 | 96 | 3 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 337 | 101 | 333 | 344 | 103 | 2 | 20-130 | 50 |
| Anthracene | ND | 333 | 277 | 83 | 333 | 293 | 88 | 6 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 297 | 89 | 333 | 331 | 99 | 11 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 336 | 101 | 333 | 349 | 105 | 4 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 355 | 107 | 333 | 381 | 114 | 7 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 359 | 108 | 333 | 374 | 112 | 4 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 387 | 116 | 333 | 407 | 122 | 5 | 30-140 | 50 |
| Chrysene | ND | 333 | 286 | 86 | 333 | 319 | 96 | 11 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 373 | 112 | 333 | 391 | 117 | 5 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 313 | 94 | 333 | 333 | 100 | 6 | 30-130 | 50 |
| Fluorene | ND | 333 | 315 | 95 | 333 | 326 | 98 | 3 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 372 | 112 | 333 | 390 | 117 | 5 | 20-160 | 50 |
| Naphthalene | ND | 333 | 287 | 86 | 333 | 279 | 84 | 3 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 272 | 82 | 333 | 288 | 86 | 5 | 20-130 | 50 |
| Pyrene | ND | 333 | 295 | 88 | 333 | 316 | 95 | 7 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 294 | 88 | 333 | 292 | 88 | 0 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 302 | 91 | 333 | 301 | 90 | 0 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 262 | 79 | 333 | 287 | 86 | 9 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 258 | 77 | 333 | 284 | 85 | 10 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 266 | 80 | 333 | 279 | 84 | 5 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 287 | 86 | 333 | 298 | 89 | 4 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 275 | 83 | 333 | 286 | 86 | 4 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 294 | 88 | 333 | 305 | 92 | 4 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 308 | 93 | 333 | 295 | 88 | 5 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 224 | 67 | 333 | 211 | 63 | 40-130 |
| 2-Fluorobiphenyl | 333 | 244 | 73 | 333 | 238 | 71 | 45-130 |
| Terphenyl-d14 | 333 | 286 | 86 | 333 | 290 | 87 | 45-135 |

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/31/12 09:35 |
| Sample ID: SL-039-NBZ-SB-2.5 | Date Analyzed: 03/31/12 09:35 |
| Lab Samp ID: C273-03 | Dilution Factor: 0.91 |
| Lab File ID: EC29062A | Matrix : SOIL |
| Ext Btch ID: GMC028S | % Moisture : 12.3 |
| Calib. Ref.: EC29058A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.73 | 2.075 | 83.3 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 03/29/12 14:08

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/31/12 |
| Batch No. : 12C273 | Date Extracted: 03/31/12 07:29 |
| Sample ID: MBLK1S | Date Analyzed: 03/31/12 07:29 |
| Lab Samp ID: GMC028SB | Dilution Factor: 1 |
| Lab File ID: EC29059A | Matrix : SOIL |
| Ext Btch ID: GMC028S | % Moisture : NA |
| Calib. Ref.: EC29058A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.78 | 2.000 | 89.1 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 03/29/12 14:08

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 5035/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | GMC028SB | GMC028SL | GMC028SC | | |
| LAB FILE ID: | EC29059A | EC29060A | EC29061A | | |
| DATE EXTRACTED: | 03/31/1207:29 | 03/31/1208:11 | 03/31/1208:53 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/31/1207:29 | 03/31/1208:11 | 03/31/1208:53 | DATE RECEIVED: | 03/31/12 |
| PREP. BATCH: | GMC028S | GMC028S | GMC028S | | |
| CALIB. REF: | EC29058A | EC29058A | EC29058A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 25.0 | 22.5 | 90 | 25.0 | 24.3 | 97 | 8 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 2.00 | 2.05 | 103 | 2.00 | 2.10 | 105 | 60-130 |

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/29/12 21:56 |
| Sample ID: TB-032712 | Date Analyzed: 03/29/12 21:56 |
| Lab Samp ID: C273-13 | Dilution Factor: 1 |
| Lab File ID: EC29011A | Matrix : WATER |
| Ext Btch ID: VA39C14 | % Moisture : NA |
| Calib. Ref.: EC29002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 24J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 35.2 | 40.00 | 88.1 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C273 | Date Extracted: 03/29/12 16:20 |
| Sample ID: MBLK1W | Date Analyzed: 03/29/12 16:20 |
| Lab Samp ID: VA39C14B | Dilution Factor: 1 |
| Lab File ID: EC29003A | Matrix : WATER |
| Ext Btch ID: VA39C14 | % Moisture : NA |
| Calib. Ref.: EC29002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 35.7 | 40.00 | 89.3 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 5030B/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VA39C14B | VA39C14L | VA39C14C | | |
| LAB FILE ID: | EC29003A | EC29004A | EC29005A | | |
| DATE EXTRACTED: | 03/29/1216:20 | 03/29/1217:02 | 03/29/1217:44 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/29/1216:20 | 03/29/1217:02 | 03/29/1217:44 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | VA39C14 | VA39C14 | VA39C14 | | |
| CALIB. REF: | EC29002A | EC29002A | EC29002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 500 | 456 | 91 | 500 | 489 | 98 | 7 | 60-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 40.0 | 39.1 | 98 | 40.0 | 41.3 | 103 | 60-130 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/28/12 12:16 |
| Sample ID: EB-NBZ-SB-032712 | Date Analyzed: 03/28/12 12:16 |
| Lab Samp ID: C273-01 | Dilution Factor: 1 |
| Lab File ID: BC28007A | Matrix : WATER |
| Ext Btch ID: MEC004W | % Moisture : NA |
| Calib. Ref.: BC28002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/28/12 12:30 |
| Sample ID: EB-NBZ-SS-032712 | Date Analyzed: 03/28/12 12:30 |
| Lab Samp ID: C273-02 | Dilution Factor: 1 |
| Lab File ID: BC28008A | Matrix : WATER |
| Ext Btch ID: MEC004W | % Moisture : NA |
| Calib. Ref.: BC28002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | MEC004WB | MEC004WL | MEC004WC | | |
| LAB FILE ID: | BC28003A | BC28004A | BC28005A | | |
| DATE EXTRACTED: | 03/28/1210:45 | 03/28/1211:20 | 03/28/1211:39 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/28/1210:45 | 03/28/1211:20 | 03/28/1211:39 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | MEC004W | MEC004W | MEC004W | | |
| CALIB. REF: | BC28002A | BC28002A | BC28002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 8320 | 83 | 10000 | 9480 | 95 | 13 | 50-150 | 30 |
| Isopropanol | ND | 10000 | 8390 | 84 | 10000 | 8450 | 84 | 1 | 50-150 | 30 |
| Methanol | ND | 10000 | 10600 | 106 | 10000 | 9960 | 100 | 6 | 50-150 | 30 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/29/12 11:40 |
| Sample ID: SL-039-NBZ-SB-2.0-3.0 | Date Analyzed: 03/30/12 12:32 |
| Lab Samp ID: C273-04 | Dilution Factor: 1 |
| Lab File ID: BC30017A | Matrix : SOIL |
| Ext Btch ID: MEC008S | % Moisture : 12.3 |
| Calib. Ref.: BC30006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 570 | 290 |
| ISOPROPANOL | ND | 570 | 290 |
| METHANOL | ND | 570 | 290 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C273 | Date Extracted: 03/28/12 10:45 |
| Sample ID: MBLK1W | Date Analyzed: 03/28/12 10:45 |
| Lab Samp ID: MEC004WB | Dilution Factor: 1 |
| Lab File ID: BC28003A | Matrix : WATER |
| Ext Btch ID: MEC004W | % Moisture : NA |
| Calib. Ref.: BC28002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C273 | Date Extracted: 03/29/12 11:40 |
| Sample ID: MBLK1S | Date Analyzed: 03/30/12 08:49 |
| Lab Samp ID: MEC008SB | Dilution Factor: 1 |
| Lab File ID: BC30007A | Matrix : SOIL |
| Ext Btch ID: MEC008S | % Moisture : NA |
| Calib. Ref.: BC30006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 500 | 250 |
| ISOPROPANOL | ND | 500 | 250 |
| METHANOL | ND | 500 | 250 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | MEC008SB | MEC008SL | MEC008SC | | |
| LAB FILE ID: | BC30007A | BC30008A | BC30009A | | |
| DATE EXTRACTED: | 03/29/1211:40 | 03/29/1211:40 | 03/29/1211:40 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1208:49 | 03/30/1209:18 | 03/30/1209:45 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | MEC008S | MEC008S | MEC008S | | |
| CALIB. REF: | BC30006A | BC30006A | BC30006A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 9020 | 90 | 10000 | 8200 | 82 | 10 | 50-150 | 50 |
| Isopropanol | ND | 10000 | 9470 | 95 | 10000 | 9970 | 100 | 5 | 50-150 | 50 |
| Methanol | ND | 10000 | 11400 | 114 | 10000 | 11400 | 114 | 0 | 50-150 | 50 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/27/12 |
| Batch No. | : 12C273 | Date Extracted | : 03/28/12 13:39 |
| Sample ID | : EB-NBZ-SB-032712 | Date Analyzed | : 03/28/12 13:39 |
| Lab Samp ID | : C273-01 | Dilution Factor | : 1 |
| Lab File ID | : TC28011A | Matrix | : WATER |
| Ext Btch ID | : PEC007W | % Moisture | : NA |
| Calib. Ref. | : TC28004A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C273 | Date Extracted: 03/28/12 12:55 |
| Sample ID: MBLK1W | Date Analyzed: 03/28/12 12:55 |
| Lab Samp ID: PEC007WQ | Dilution Factor: 1 |
| Lab File ID: TC28008A | Matrix : WATER |
| Ext Btch ID: PEC007W | % Moisture : NA |
| Calib. Ref.: TC28004A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | PEC007WQ | PEC007WL | PEC007WC | | |
| LAB FILE ID: | TC28008A | TC28005A | TC28006A | | |
| DATE EXTRACTED: | 03/28/1212:55 | 03/28/1211:18 | 03/28/1211:36 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/28/1212:55 | 03/28/1211:18 | 03/28/1211:36 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | PEC007W | PEC007W | PEC007W | | |
| CALIB. REF: | TC28004A | TC28004A | TC28004A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 45.4 | 91 | 50.0 | 35.7 | 71 | 24 | 50-150 | 30 |
| Ethylene Glycol | ND | 50.0 | 49.0 | 98 | 50.0 | 43.9 | 88 | 11 | 50-150 | 30 |
| Propylene Glycol | ND | 25.0 | 25.2 | 101 | 25.0 | 23.4 | 94 | 7 | 50-150 | 30 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/28/12 13:51 |
| Sample ID: EB-NBZ-SS-032712 | Date Analyzed: 03/28/12 13:51 |
| Lab Samp ID: C273-02 | Dilution Factor: 1 |
| Lab File ID: TC28012A | Matrix : WATER |
| Ext Btch ID: PEC007W | % Moisture : NA |
| Calib. Ref.: TC28004A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/29/12 11:40 |
| Sample ID: SL-039-NBZ-SB-2.0-3.0 | Date Analyzed: 03/30/12 12:04 |
| Lab Samp ID: C273-04 | Dilution Factor: 1 |
| Lab File ID: TC30014A | Matrix : SOIL |
| Ext Btch ID: PEC008S | % Moisture : 12.3 |
| Calib. Ref.: TC30013A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 17 | 8.6 |
| ETHYLENE GLYCOL | ND | 11 | 5.7 |
| PROPYLENE GLYCOL | ND | 11 | 5.7 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C273 | Date Extracted: 03/29/12 11:40 |
| Sample ID: MBLK1S | Date Analyzed: 03/30/12 10:54 |
| Lab Samp ID: PEC008SB | Dilution Factor: 1 |
| Lab File ID: TC30010A | Matrix : SOIL |
| Ext Btch ID: PEC008S | % Moisture : NA |
| Calib. Ref.: TC30004A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.5 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 5.0 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PEC008SB | PEC008SL | PEC008SC | | |
| LAB FILE ID: | TC30010A | TC30011A | TC30012A | | |
| DATE EXTRACTED: | 03/29/1211:40 | 03/29/1211:40 | 03/29/1211:40 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1210:54 | 03/30/1211:05 | 03/30/1211:17 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | PEC008S | PEC008S | PEC008S | | |
| CALIB. REF: | TC30004A | TC30004A | TC30004A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 46.7 | 93 | 50.0 | 45.9 | 92 | 2 | 50-150 | 50 |
| Ethylene Glycol | ND | 50.0 | 50.5 | 101 | 50.0 | 51.4 | 103 | 2 | 50-150 | 50 |
| Propylene Glycol | ND | 25.0 | 26.1 | 104 | 25.0 | 26.1 | 104 | 0 | 50-150 | 50 |

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/28/12 12:15 |
| Sample ID: EB-NBZ-SB-032712 | Date Analyzed: 03/29/12 16:08 |
| Lab Samp ID: C273-01 | Dilution Factor: 1.04 |
| Lab File ID: LC29017A | Matrix : WATER |
| Ext Btch ID: DSC035W | % Moisture : NA |
| Calib. Ref.: LC29015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.52 | 0.10 |
| EFH(C12-C14) | ND | 0.52 | 0.10 |
| EFH(C15-C20) | ND | 0.52 | 0.10 |
| EFH(C21-C30) | ND | 0.52 | 0.10 |
| EFH(C30-C40) | ND | 0.52 | 0.10 |
| TOTAL EFH(C8-C40) | ND | 0.52 | 0.10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.875 | 1.040 | 84.1 | 40-130 |
| HEXACOSANE | 0.251 | 0.2600 | 96.5 | 40-150 |

RL : Reporting Limit

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/28/12 12:15 |
| Sample ID: EB-NBZ-SS-032712 | Date Analyzed: 03/29/12 16:25 |
| Lab Samp ID: C273-02 | Dilution Factor: 1.01 |
| Lab File ID: LC29018A | Matrix : WATER |
| Ext Btch ID: DSC035W | % Moisture : NA |
| Calib. Ref.: LC29015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.51 | 0.10 |
| EFH(C12-C14) | ND | 0.51 | 0.10 |
| EFH(C15-C20) | ND | 0.51 | 0.10 |
| EFH(C21-C30) | ND | 0.51 | 0.10 |
| EFH(C30-C40) | ND | 0.51 | 0.10 |
| TOTAL EFH(C8-C40) | ND | 0.51 | 0.10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.820 | 1.010 | 81.2 | 40-130 |
| HEXACOSANE | 0.234 | 0.2525 | 92.8 | 40-150 |

RL : Reporting Limit

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C273 | Date Extracted: 03/28/12 12:15 |
| Sample ID: MBLK1W | Date Analyzed: 03/29/12 12:46 |
| Lab Samp ID: DSC035WB | Dilution Factor: 1 |
| Lab File ID: LC29005A | Matrix : WATER |
| Ext Btch ID: DSC035W | % Moisture : NA |
| Calib. Ref.: LC29003A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.50 | 0.10 |
| EFH(C12-C14) | ND | 0.50 | 0.10 |
| EFH(C15-C20) | ND | 0.50 | 0.10 |
| EFH(C21-C30) | ND | 0.50 | 0.10 |
| EFH(C30-C40) | ND | 0.50 | 0.10 |
| TOTAL EFH(C8-C40) | ND | 0.50 | 0.10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.780 | 1.000 | 78.0 | 40-130 |
| HEXACOSANE | 0.227 | 0.2500 | 90.7 | 40-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 3520C/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | DSC035WB | DSC035WL | DSC035WC | | |
| LAB FILE ID: | LC29005A | LC29006A | LC29007A | | |
| DATE EXTRACTED: | 03/28/1212:15 | 03/28/1212:15 | 03/28/1212:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/29/1212:46 | 03/29/1213:03 | 03/29/1213:19 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | DSC035W | DSC035W | DSC035W | | |
| CALIB. REF: | LC29003A | LC29003A | LC29003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 5.00 | 5.49 | 110 | 5.00 | 4.94 | 99 | 11 | 20-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 1.00 | 0.879 | 88 | 1.00 | 0.840 | 84 | 40-130 |
| Hexacosane | 0.250 | 0.244 | 98 | 0.250 | 0.242 | 97 | 40-150 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/29/12 16:35 |
| Sample ID: SL-039-NBZ-SB-2.0-3.0 | Date Analyzed: 03/30/12 18:52 |
| Lab Samp ID: C273-04 | Dilution Factor: 1 |
| Lab File ID: LC30030A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : 12.3 |
| Calib. Ref.: LC30026A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.73J | 1.1 | 0.57 |
| EFH(C12-C14) | 1.4 | 1.1 | 0.57 |
| EFH(C15-C20) | 29 | 1.1 | 0.57 |
| EFH(C21-C30) | 25 | 1.1 | 0.57 |
| EFH(C30-C40) | 7.3 | 1.1 | 0.57 |
| TOTAL EFH(C8-C40) | 63 | 1.1 | 0.57 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.64 | 11.40 | 67.0 | 50-150 |
| HEXACOSANE | 2.50 | 2.851 | 87.6 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/29/12 16:35 |
| Sample ID: SL-038-NBZ-SS-0.0-0.5 | Date Analyzed: 03/30/12 19:26 |
| Lab Samp ID: C273-05 | Dilution Factor: 1 |
| Lab File ID: LC30032A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : 17.1 |
| Calib. Ref.: LC30026A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 1.7 | 1.2 | 0.60 |
| EFH(C12-C14) | 2.2 | 1.2 | 0.60 |
| EFH(C15-C20) | 19 | 1.2 | 0.60 |
| EFH(C21-C30) | 44 | 1.2 | 0.60 |
| EFH(C30-C40) | 42 | 1.2 | 0.60 |
| TOTAL EFH(C8-C40) | 110 | 1.2 | 0.60 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 8.52 | 12.06 | 70.6 | 50-150 |
| HEXACOSANE | 3.06 | 3.016 | 101 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/29/12 16:35 |
| Sample ID: SL-078-NBZ-SS-0.0-0.5 | Date Analyzed: 03/30/12 19:09 |
| Lab Samp ID: C273-06 | Dilution Factor: 1 |
| Lab File ID: LC30031A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : 11.5 |
| Calib. Ref.: LC30026A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.60J | 1.1 | 0.56 |
| EFH(C12-C14) | ND | 1.1 | 0.56 |
| EFH(C15-C20) | 0.75J | 1.1 | 0.56 |
| EFH(C21-C30) | 5.1 | 1.1 | 0.56 |
| EFH(C30-C40) | 11 | 1.1 | 0.56 |
| TOTAL EFH(C8-C40) | 17 | 1.1 | 0.56 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.39 | 11.30 | 65.4 | 50-150 |
| HEXACOSANE | 2.39 | 2.825 | 84.7 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C273 | Date Extracted: 03/29/12 16:35 |
| Sample ID: MBLK1S | Date Analyzed: 03/30/12 11:33 |
| Lab Samp ID: DSC037SB | Dilution Factor: 1 |
| Lab File ID: LC30004A | Matrix : SOIL |
| Ext Btch ID: DSC037S | % Moisture : NA |
| Calib. Ref.: LC30002A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.02 | 10.00 | 70.2 | 50-150 |
| HEXACOSANE | 2.02 | 2.500 | 80.7 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 3550B/8015B EFH

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: DSC037SB DSC037SL DSC037SC
LAB FILE ID: LC30004A LC30005A LC30006A
DATE EXTRACTED: 03/29/1216:35 03/29/1216:35 03/29/1216:35 DATE COLLECTED: NA
DATE ANALYZED: 03/30/1211:33 03/30/1211:50 03/30/1212:07 DATE RECEIVED: 03/29/12
PREP. BATCH: DSC037S DSC037S DSC037S
CALIB. REF: LC30002A LC30002A LC30002A

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 48.5 | 97 | 50.0 | 48.3 | 97 | 0 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 6.95 | 69 | 10.0 | 7.30 | 73 | 50-150 |
| Hexacosane | 2.50 | 2.06 | 82 | 2.50 | 1.98 | 79 | 50-150 |

METHOD 3520C/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/28/12 15:15 |
| Sample ID: EB-NBZ-SS-032712 | Date Analyzed: 04/08/12 05:02 |
| Lab Samp ID: C273-02 | Dilution Factor: 1.04 |
| Lab File ID: LD07027A | Matrix : WATER |
| Ext Btch ID: CPC046W | % Moisture : NA |
| Calib. Ref.: LD07020A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.10 | 0.010\|0.010 |
| BETA-BHC | (ND)\|0.048J | 0.10 | 0.010\|0.010 |
| HEPTACHLOR | (ND)\|ND | 0.10 | 0.010\|0.010 |
| DELTA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ALDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN I | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| DIELDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDD | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN II | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDT | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN KETONE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| METHOXYCHLOR | (ND)\|ND | 1.0 | 0.10\|0.10 |
| MIREX | (ND)\|ND | 0.10 | 0.010\|0.010 |
| TOXAPHENE | (ND)\|ND | 2.1 | 0.52\|0.52 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 1.0 | 0.26\|0.26 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 0.3373\|(0.3557) | 0.4160 | 81.1\|(85.5) | 60-140 |
| DECACHLOROBIPHENYL | 0.4106\|(0.4353) | 0.4160 | 98.7\|(105) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3520C/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C273 | Date Extracted: 03/28/12 15:15 |
| Sample ID: MBLK1W | Date Analyzed: 04/07/12 22:28 |
| Lab Samp ID: CPC046WB | Dilution Factor: 1 |
| Lab File ID: LD07009A | Matrix : WATER |
| Ext Btch ID: CPC046W | % Moisture : NA |
| Calib. Ref.: LD07005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.10 | 0.010\|0.010 |
| BETA-BHC | (ND)\|0.015J | 0.10 | 0.010\|0.010 |
| HEPTACHLOR | (ND)\|ND | 0.10 | 0.010\|0.010 |
| DELTA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ALDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN I | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| DIELDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDD | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN II | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDT | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN KETONE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| METHOXYCHLOR | (ND)\|ND | 1.0 | 0.10\|0.10 |
| MIREX | (ND)\|ND | 0.10 | 0.010\|0.010 |
| TOXAPHENE | (ND)\|ND | 2.0 | 0.50\|0.50 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 1.0 | 0.25\|0.25 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 0.3945\|(0.4119) | 0.4000 | 98.6\|(103) | 60-140 |
| DECACHLOROBIPHENYL | 0.4301\|(0.4456) | 0.4000 | 108\|(111) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 3520C/8081A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | CPC046WB | CPC046WL | CPC046WC | | |
| LAB FILE ID: | LD07009A | LD07010A | LD07011A | | |
| DATE EXTRACTED: | 03/28/1215:15 | 03/28/1215:15 | 03/28/1215:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/07/1222:28 | 04/07/1222:50 | 04/07/1223:12 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | CPC046W | CPC046W | CPC046W | | |
| CALIB. REF: | LD07005A | LD07005A | LD07005A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 0.200 | 0.229\|(0.245) | 114\|(122) | 0.200 | (0.230)\|0.230 | (115)\|115 | (0)\|6 | 30-150 | 30 |
| gamma-BHC (Lindane) | (ND)\|ND | 0.200 | 0.237\|(0.252) | 118\|(126) | 0.200 | 0.245\|(0.253) | 122\|(126) | 3\|(0) | 40-130 | 30 |
| beta-BHC | (ND)\|0.015J | 0.200 | 0.221\|(0.253) | 110\|(126) | 0.200 | (0.239)\|0.217 | (119)\|108 | (8)\|15 | 60-130 | 30 |
| Heptachlor | (ND)\|ND | 0.200 | 0.237\|(0.238) | 118\|(119) | 0.200 | 0.245\|(0.258) | 122\|(129) | 3\|(8) | 30-140 | 30 |
| delta-BHC | (ND)\|ND | 0.200 | 0.244\|(0.274) | 122\|(137) | 0.200 | 0.251\|(0.286) | 125\|(143) | 3\|(4) | 30-150 | 30 |
| Aldrin | (ND)\|ND | 0.200 | (0.246)\|0.263 | (123)\|132* | 0.200 | (0.257)\|0.272 | (128)\|136* | (4)\|3 | 40-130 | 30 |
| Heptachlor Epoxide | (ND)\|ND | 0.200 | 0.250\|(0.261) | 125\|(130) | 0.200 | 0.255\|(0.267) | 127\|(134) | 2\|(2) | 50-140 | 30 |
| Endosulfan I | (ND)\|ND | 0.200 | 0.229\|(0.259) | 114\|(130) | 0.200 | 0.218\|(0.258) | 109\|(129) | 5\|(0) | 60-140 | 30 |
| 4,4'-DDE | (ND)\|ND | 0.200 | 0.239\|(0.247) | 119\|(123) | 0.200 | 0.234\|(0.247) | 117\|(123) | 2\|(0) | 50-140 | 30 |
| Dieldrin | (ND)\|ND | 0.200 | 0.248\|(0.253) | 124\|(126) | 0.200 | 0.252\|(0.257) | 126\|(128) | 2\|(2) | 60-140 | 30 |
| Endrin | (ND)\|ND | 0.200 | (0.249)\|0.249 | (124)\|124 | 0.200 | 0.253\|(0.254) | 126\|(127) | 2\|(2) | 50-140 | 30 |
| 4,4'-DDD | (ND)\|ND | 0.200 | 0.233\|(0.234) | 116\|(117) | 0.200 | 0.236\|(0.239) | 118\|(119) | 1\|(2) | 50-160 | 30 |
| Endosulfan II | (ND)\|ND | 0.200 | 0.245\|(0.253) | 122\|(126) | 0.200 | 0.247\|(0.257) | 123\|(128) | 1\|(2) | 60-150 | 30 |
| 4,4'-DDT | (ND)\|ND | 0.200 | (0.269)\|0.243 | (134)\|122 | 0.200 | (0.272)\|0.256 | (136)\|128 | (1)\|5 | 60-140 | 30 |
| Endrin aldehyde | (ND)\|ND | 0.200 | 0.243\|(0.251) | 122\|(125) | 0.200 | 0.252\|(0.254) | 126\|(127) | 4\|(1) | 60-160 | 30 |
| Endosulfan Sulfate | (ND)\|ND | 0.200 | 0.251\|(0.270) | 125\|(135) | 0.200 | 0.256\|(0.272) | 128\|(136) | 2\|(1) | 70-140 | 30 |
| Endrin Ketone | (ND)\|ND | 0.200 | 0.242\|(0.257) | 121\|(128) | 0.200 | 0.245\|(0.262) | 122\|(131) | 1\|(2) | 30-150 | 30 |
| Methoxychlor | (ND)\|ND | 2.00 | 2.24\|(2.44) | 112\|(122) | 2.00 | 2.28\|(2.50) | 114\|(125) | 2\|(2) | 70-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 0.4000 | 0.3773\|(0.3920) | 94.3\|(98.0) | 0.4000 | 0.3810\|(0.4034) | 95.3\|(101) | 60-140 |
| Decachlorobiphenyl | 0.4000 | 0.3890\|(0.4406) | 97.2\|(110) | 0.4000 | 0.4002\|(0.4279) | 100\|(107) | 20-120 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 14:56 |
| Sample ID: SL-038-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 18:06 |
| Lab Samp ID: C273-05J | Dilution Factor: 100 |
| Lab File ID: LD19018A | Matrix : SOIL |
| Ext Btch ID: CPD010S | % Moisture : 17.1 |
| Calib. Ref.: LD19008A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 21 | 10\|10 |
| GAMMA-BHC (LINDANE) | (ND)\|740 | 21 | 10\|10 |
| BETA-BHC | (ND)\|(ND | 760 | 760\|760 |
| HEPTACHLOR | 150\|(ND) | 21 | 10\|10 |
| DELTA-BHC | (ND)\|ND | 21 | 10\|10 |
| ALDRIN | 5800\|(ND) | 21 | 10\|10 |
| HEPTACHLOR EPOXIDE | (ND)\|880 | 21 | 10\|10 |
| ENDOSULFAN I | (ND)\|6700E | 21 | 10\|10 |
| 4,4'-DDE | (ND)\|ND | 41 | 21\|21 |
| DIELDRIN | (ND)\|ND | 41 | 21\|21 |
| ENDRIN | 5700E\|(ND) | 41 | 21\|21 |
| 4,4'-DDD | 1100\|(ND) | 41 | 21\|21 |
| ENDOSULFAN II | 10000E\|(ND) | 41 | 21\|21 |
| 4,4'-DDT | (ND)\|ND | 41 | 21\|21 |
| ENDRIN ALDEHYDE | (ND)\|ND | 41 | 21\|21 |
| ENDOSULFAN SULFATE | (ND)\|850 | 41 | 21\|21 |
| ENDRIN KETONE | (ND)\|ND | 41 | 21\|21 |
| METHOXYCHLOR | (ND)\|ND | 210 | 100\|100 |
| MIREX | 560\|(ND) | 41 | 21\|21 |
| TOXAPHENE | (ND)\|ND | 800 | 400\|400 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 410 | 210\|210 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (ND)\|ND | 6.433 | (DO)\|DO | 50-130 |
| DECACHLOROBIPHENYL | (ND)\|ND | 6.433 | (DO)\|DO | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 14:56 |
| Sample ID: SL-078-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 13:19 |
| Lab Samp ID: C273-06 | Dilution Factor: 1 |
| Lab File ID: LD11012A | Matrix : SOIL |
| Ext Btch ID: CPD010S | % Moisture : 11.5 |
| Calib. Ref.: LD11005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.12J | 0.19 | 0.096 \| 0.096 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| BETA-BHC | (ND) \| 5.5 | 0.19 | 0.096 \| 0.096 |
| HEPTACHLOR | 0.52 \| (ND) | 0.19 | 0.096 \| 0.096 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| ALDRIN | 2.3 \| (ND) | 0.19 | 0.096 \| 0.096 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| ENDOSULFAN I | (ND) \| 4.6 | 0.19 | 0.096 \| 0.096 |
| 4,4'-DDE | 0.30J \| (0.24J) | 0.38 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDRIN | 3.8 \| (ND) | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN II | 7.4 \| (ND) | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDT | (0.31J) \| 0.58 | 0.38 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| 1.3J | 1.9 | 0.96 \| 0.96 |
| MIREX | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.5 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.8 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (5.640) \| 8.668 | 6.026 | (93.6) \| 144* | 50-130 |
| DECACHLOROBIPHENYL | 5.516 \| (6.529) | 6.026 | 91.5 \| (108) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 14:56 |
| Sample ID: SL-095-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 13:41 |
| Lab Samp ID: C273-07 | Dilution Factor: 1 |
| Lab File ID: LD11013A | Matrix : SOIL |
| Ext Btch ID: CPD010S | % Moisture : 11.9 |
| Calib. Ref.: LD11005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.26 | 0.19 | 0.096 \| 0.096 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.17J | 0.19 | 0.096 \| 0.096 |
| BETA-BHC | 6.8 \| (14F) | 0.19 | 0.096 \| 0.096 |
| HEPTACHLOR | 0.75 \| (ND) | 0.19 | 0.096 \| 0.096 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| ALDRIN | 6.8 \| (ND) | 0.19 | 0.096 \| 0.096 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| ENDOSULFAN I | (ND) \| 2.9 | 0.19 | 0.096 \| 0.096 |
| 4,4'-DDE | 0.27J \| (ND) | 0.39 | 0.19 \| 0.19 |
| DIELDRIN | 0.24J \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDRIN | 7.5 \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN II | 13 \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDT | (0.25J) \| 1.1 | 0.39 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| METHOXYCHLOR | 3.0 \| (ND) | 1.9 | 0.96 \| 0.96 |
| MIREX | 0.79 \| (ND) | 0.39 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.5 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (6.024) \| 10.45 | 6.053 | (99.5) \| 173* | 50-130 |
| DECACHLOROBIPHENYL | (5.278) \| 4.835 | 6.053 | (87.2) \| 79.9 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 14:56 |
| Sample ID: SL-102-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 14:03 |
| Lab Samp ID: C273-08 | Dilution Factor: 1 |
| Lab File ID: LD11014A | Matrix : SOIL |
| Ext Btch ID: CPD010S | % Moisture : 13.8 |
| Calib. Ref.: LD11005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.65 | 0.20 | 0.099\|0.099 |
| GAMMA-BHC (LINDANE) | (ND)\|0.32 | 0.20 | 0.099\|0.099 |
| BETA-BHC | (ND)\|0.40 | 0.20 | 0.099\|0.099 |
| HEPTACHLOR | 0.83\|(ND) | 0.20 | 0.099\|0.099 |
| DELTA-BHC | (ND)\|ND | 0.20 | 0.099\|0.099 |
| ALDRIN | 0.29\|(ND) | 0.20 | 0.099\|0.099 |
| HEPTACHLOR EPOXIDE | 0.10J\|(ND) | 0.20 | 0.099\|0.099 |
| ENDOSULFAN I | (ND)\|ND | 0.20 | 0.099\|0.099 |
| 4,4'-DDE | 0.47\|(ND) | 0.39 | 0.20\|0.20 |
| DIELDRIN | (ND)\|ND | 0.39 | 0.20\|0.20 |
| ENDRIN | (ND)\|ND | 0.39 | 0.20\|0.20 |
| 4,4'-DDD | (ND)\|ND | 0.39 | 0.20\|0.20 |
| ENDOSULFAN II | (ND)\|ND | 0.39 | 0.20\|0.20 |
| 4,4'-DDT | (ND)\|1.0 | 0.39 | 0.20\|0.20 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.39 | 0.20\|0.20 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.39 | 0.20\|0.20 |
| ENDRIN KETONE | (ND)\|ND | 0.39 | 0.20\|0.20 |
| METHOXYCHLOR | (ND)\|ND | 2.0 | 0.99\|0.99 |
| MIREX | (ND)\|ND | 0.39 | 0.20\|0.20 |
| TOXAPHENE | (ND)\|ND | 7.7 | 3.8\|3.8 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.500\|(6.799) | 6.187 | 72.7\|(110) | 50-130 |
| DECACHLOROBIPHENYL | 5.136\|(5.332) | 6.187 | 83.0\|(86.2) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 14:56 |
| Sample ID: SL-109-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 14:25 |
| Lab Samp ID: C273-09 | Dilution Factor: 1 |
| Lab File ID: LD11015A | Matrix : SOIL |
| Ext Btch ID: CPD010S | % Moisture : 12.8 |
| Calib. Ref.: LD11005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.47 | 0.19 | 0.097\|0.097 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.19 | 0.097\|0.097 |
| BETA-BHC | (ND)\|0.50 | 0.19 | 0.097\|0.097 |
| HEPTACHLOR | (ND)\|0.35 | 0.19 | 0.097\|0.097 |
| DELTA-BHC | (ND)\|ND | 0.19 | 0.097\|0.097 |
| ALDRIN | 0.26\|(ND) | 0.19 | 0.097\|0.097 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.19 | 0.097\|0.097 |
| ENDOSULFAN I | (ND)\|ND | 0.19 | 0.097\|0.097 |
| 4,4'-DDE | 0.32J\|(ND) | 0.39 | 0.19\|0.19 |
| DIELDRIN | 0.24J\|(ND) | 0.39 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.39 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.39 | 0.19\|0.19 |
| ENDOSULFAN II | (ND)\|ND | 0.39 | 0.19\|0.19 |
| 4,4'-DDT | (1.9)\|1.7 | 0.39 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.39 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.39 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.39 | 0.19\|0.19 |
| METHOXYCHLOR | (ND)\|ND | 1.9 | 0.97\|0.97 |
| MIREX | 0.36J\|(ND) | 0.39 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.6 | 3.8\|3.8 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.9 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.553\|(6.526) | 6.116 | 74.5\|(107) | 50-130 |
| DECACHLOROBIPHENYL | 5.362\|(5.954) | 6.116 | 87.7\|(97.4) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 14:56 |
| Sample ID: SL-119-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 14:47 |
| Lab Samp ID: C273-10 | Dilution Factor: 1 |
| Lab File ID: LD11016A | Matrix : SOIL |
| Ext Btch ID: CPD010S | % Moisture : 11.1 |
| Calib. Ref.: LD11005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.44 | 0.19 | 0.096 \| 0.096 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| BETA-BHC | (ND) \| 0.32 | 0.19 | 0.096 \| 0.096 |
| HEPTACHLOR | 0.49 \| (ND) | 0.19 | 0.096 \| 0.096 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| ALDRIN | 0.21 \| (ND) | 0.19 | 0.096 \| 0.096 |
| HEPTACHLOR EPOXIDE | 0.18J \| (ND) | 0.19 | 0.096 \| 0.096 |
| ENDOSULFAN I | (ND) \| 0.11J | 0.19 | 0.096 \| 0.096 |
| 4,4'-DDE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.41 \| (ND) | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDT | (0.33J) \| 0.66 | 0.38 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| METHOXYCHLOR | 1.2J \| (ND) | 1.9 | 0.96 \| 0.96 |
| MIREX | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.4 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.8 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.636 \| (6.269) | 5.999 | 77.3 \| (105) | 50-130 |
| DECACHLOROBIPHENYL | (5.325) \| 5.077 | 5.999 | (88.8) \| 84.6 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 14:56 |
| Sample ID: SL-129-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 15:10 |
| Lab Samp ID: C273-11 | Dilution Factor: 1 |
| Lab File ID: LD11017A | Matrix : SOIL |
| Ext Btch ID: CPD010S | % Moisture : 20.0 |
| Calib. Ref.: LD11005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.28 | 0.21 | 0.11 \| 0.11 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.21 | 0.11 \| 0.11 |
| BETA-BHC | (ND) \| 0.39 | 0.21 | 0.11 \| 0.11 |
| HEPTACHLOR | 0.20J \| (1.7) | 0.21 | 0.11 \| 0.11 |
| DELTA-BHC | (ND) \| ND | 0.21 | 0.11 \| 0.11 |
| ALDRIN | (ND) \| 0.25 | 0.21 | 0.11 \| 0.11 |
| HEPTACHLOR EPOXIDE | (0.22) \| 0.87 | 0.21 | 0.11 \| 0.11 |
| ENDOSULFAN I | (ND) \| 0.21J | 0.21 | 0.11 \| 0.11 |
| 4,4'-DDE | (1.7) \| 1.0 | 0.42 | 0.21 \| 0.21 |
| DIELDRIN | 2.5 \| (ND) | 0.42 | 0.21 \| 0.21 |
| ENDRIN | (ND) \| 0.50 | 0.42 | 0.21 \| 0.21 |
| 4,4'-DDD | (ND) \| ND | 0.42 | 0.21 \| 0.21 |
| ENDOSULFAN II | (ND) \| ND | 0.42 | 0.21 \| 0.21 |
| 4,4'-DDT | 11 \| (3.4) | 0.42 | 0.21 \| 0.21 |
| ENDRIN ALDEHYDE | 0.23J \| (ND) | 0.42 | 0.21 \| 0.21 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.42 | 0.21 \| 0.21 |
| ENDRIN KETONE | (ND) \| ND | 0.42 | 0.21 \| 0.21 |
| METHOXYCHLOR | (ND) \| ND | 2.1 | 1.1 \| 1.1 |
| MIREX | 0.81 \| (ND) | 0.42 | 0.21 \| 0.21 |
| TOXAPHENE | (ND) \| ND | 8.2 | 4.1 \| 4.1 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.2 | 2.1 \| 2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.940 \| (8.211) | 6.666 | 89.1 \| (123) | 50-130 |
| DECACHLOROBIPHENYL | (5.823) \| 5.722 | 6.666 | (87.4) \| 85.8 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 14:56 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 15:32 |
| Lab Samp ID: C273-12 | Dilution Factor: 1 |
| Lab File ID: LD11018A | Matrix : SOIL |
| Ext Btch ID: CPD010S | % Moisture : 16.1 |
| Calib. Ref.: LD11005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.30 | 0.20 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.18J | 0.20 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| 0.50 | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR | 0.98 \| (ND) | 0.20 | 0.10 \| 0.10 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| ALDRIN | 0.31 \| (ND) | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| 4,4'-DDE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| DIELDRIN | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDRIN | 0.78 \| (ND) | 0.41 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDOSULFAN II | 3.4 \| (ND) | 0.41 | 0.20 \| 0.20 |
| 4,4'-DDT | 0.43 \| (0.32J) | 0.41 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| 6.8 | 0.41 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| ND | 2.0 | 1.0 \| 1.0 |
| MIREX | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.9 | 3.9 \| 3.9 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.1 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.482 \| (5.973) | 6.356 | 70.5 \| (94.0) | 50-130 |
| DECACHLOROBIPHENYL | (4.747) \| 4.480 | 6.356 | (74.7) \| 70.5 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 14:56 |
| Sample ID: MBLK1S | Date Analyzed: 04/11/12 12:13 |
| Lab Samp ID: CPD010SB | Dilution Factor: 1 |
| Lab File ID: LD11009A | Matrix : SOIL |
| Ext Btch ID: CPD010S | % Moisture : NA |
| Calib. Ref.: LD11005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.966\|(5.520) | 5.333 | 93.1\|(104) | 50-130 |
| DECACHLOROBIPHENYL | 5.301\|(5.758) | 5.333 | 99.4\|(108) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | CPD010SB | CPD010SL | CPD010SC | | |
| LAB FILE ID: | LD11009A | LD11010A | LD11011A | | |
| DATE EXTRACTED: | 04/05/1214:56 | 04/05/1214:56 | 04/05/1214:56 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1212:13 | 04/11/1212:35 | 04/11/1212:57 | DATE RECEIVED: | 04/05/12 |
| PREP. BATCH: | CPD010S | CPD010S | CPD010S | | |
| CALIB. REF: | LD11005A | LD11005A | LD11005A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 2.67 | 2.65\|(2.89) | 99\|(108) | 2.67 | 2.77\|(3.04) | 104\|(114) | 4\|(5) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|ND | 2.67 | 2.65\|(2.91) | 99\|(109) | 2.67 | 2.78\|(3.07) | 104\|(115) | 5\|(5) | 40-130 | 50 |
| beta-BHC | (ND)\|ND | 2.67 | (2.97)\|2.68 | (111)\|100 | 2.67 | (3.21)\|2.82 | (120)\|106 | (8)\|5 | 50-140 | 50 |
| Heptachlor | (ND)\|ND | 2.67 | 2.93\|(3.07) | 110\|(115) | 2.67 | 3.17\|(3.27) | 119\|(122) | 8\|(6) | 30-130 | 50 |
| delta-BHC | (ND)\|ND | 2.67 | 3.08\|(3.48) | 115\|(130) | 2.67 | 3.26\|(3.82) | 122\|(143) | 6\|(9) | 30-150 | 50 |
| Aldrin | (ND)\|ND | 2.67 | 2.60\|(2.98) | 97\|(112) | 2.67 | 3.03\|(3.21) | 113\|(120) | 15\|(7) | 30-130 | 50 |
| Heptachlor Epoxide | (ND)\|ND | 2.67 | 2.67\|(3.12) | 100\|(117) | 2.67 | 2.90\|(3.12) | 109\|(117) | 8\|(0) | 60-140 | 50 |
| Endosulfan I | (ND)\|ND | 2.67 | 2.58\|(2.89) | 97\|(108) | 2.67 | 2.82\|(3.07) | 106\|(115) | 9\|(6) | 50-150 | 50 |
| 4,4'-DDE | (ND)\|ND | 2.67 | 3.01\|(3.03) | 113\|(113) | 2.67 | 3.13\|(3.14) | 117\|(118) | 4\|(4) | 50-150 | 50 |
| Dieldrin | (ND)\|ND | 2.67 | (3.23)\|3.00 | (121)\|112 | 2.67 | (3.05)\|3.03 | (114)\|113 | (6)\|1 | 60-130 | 50 |
| Endrin | (ND)\|ND | 2.67 | 2.97\|(3.13) | 111\|(117) | 2.67 | 3.08\|(3.09) | 115\|(116) | 4\|(1) | 50-140 | 50 |
| 4,4'-DDD | (ND)\|ND | 2.67 | 2.90\|(2.94) | 109\|(110) | 2.67 | 3.04\|(3.05) | 114\|(114) | 5\|(4) | 50-160 | 50 |
| Endosulfan II | (ND)\|ND | 2.67 | 3.11\|(3.21) | 116\|(120) | 2.67 | 3.27\|(3.37) | 122\|(126) | 5\|(5) | 60-150 | 50 |
| 4,4'-DDT | (ND)\|ND | 2.67 | (3.73)\|3.25 | (140)\|122 | 2.67 | (3.69)\|3.38 | (138)\|127 | (1)\|4 | 60-140 | 50 |
| Endrin aldehyde | (ND)\|ND | 2.67 | (3.10)\|3.08 | (116)\|115 | 2.67 | 3.08\|(3.16) | 115\|(118) | 1\|(3) | 50-160 | 50 |
| Endosulfan Sulfate | (ND)\|ND | 2.67 | 3.36\|(3.43) | 126\|(128) | 2.67 | 3.51\|(3.60) | 131\|(135) | 4\|(5) | 70-140 | 50 |
| Endrin Ketone | (ND)\|ND | 2.67 | 3.11\|(3.15) | 116\|(118) | 2.67 | 3.24\|(3.37) | 121\|(126) | 4\|(7) | 70-160 | 50 |
| Methoxychlor | (ND)\|ND | 26.7 | 28.7\|(30.6) | 107\|(115) | 26.7 | 30.0\|(32.1) | 112\|(120) | 4\|(5) | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 4.885\|(5.144) | 91.6\|(96.5) | 5.333 | 5.363\|(5.760) | 101\|(108) | 50-130 |
| Decachlorobiphenyl | 5.333 | 5.438\|(6.103) | 102\|(114) | 5.333 | 6.082\|(6.415) | 114\|(120) | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/06/12 16:33 |
| Sample ID: SL-039-NBZ-SB-2.0-3.0 | Date Analyzed: 04/17/12 11:22 |
| Lab Samp ID: C273-04T | Dilution Factor: 20 |
| Lab File ID: KD17005A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : 12.3 |
| Calib. Ref.: KD17002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 39 | 19\|19 |
| AROCLOR 1221 | (ND)\|ND | 39 | 19\|19 |
| AROCLOR 1232 | (ND)\|ND | 39 | 19\|19 |
| AROCLOR 1242 | (ND)\|ND | 39 | 19\|19 |
| AROCLOR 1248 | (ND)\|ND | 39 | 19\|19 |
| AROCLOR 1254 | (ND)\|ND | 39 | 19\|19 |
| AROCLOR 1260 | (ND)\|ND | 39 | 19\|19 |
| AROCLOR 1262 | (ND)\|ND | 39 | 19\|19 |
| AROCLOR 1268 | (ND)\|ND | 39 | 19\|19 |
| AROCLOR 5432 | (ND)\|ND | 75 | 39\|39 |
| AROCLOR 5442 | (ND)\|ND | 75 | 39\|39 |
| AROCLOR 5460 | (ND)\|ND | 75 | 39\|39 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (ND)\|ND | 6.081 | (DO)\|DO | 45-120 |
| TETRACHLORO-M-XYLENE | (ND)\|ND | 6.081 | (DO)\|DO | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/06/12 16:33 |
| Sample ID: SL-038-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 15:06 |
| Lab Samp ID: C273-05T | Dilution Factor: 20 |
| Lab File ID: KD17008A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : 17.1 |
| Calib. Ref.: KD17002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 41 | 21\|21 |
| AROCLOR 1221 | (ND)\|ND | 41 | 21\|21 |
| AROCLOR 1232 | (ND)\|ND | 41 | 21\|21 |
| AROCLOR 1242 | (ND)\|ND | 41 | 21\|21 |
| AROCLOR 1248 | (ND)\|ND | 41 | 21\|21 |
| AROCLOR 1254 | (ND)\|ND | 41 | 21\|21 |
| AROCLOR 1260 | (ND)\|ND | 41 | 21\|21 |
| AROCLOR 1262 | (ND)\|ND | 41 | 21\|21 |
| AROCLOR 1268 | (ND)\|ND | 41 | 21\|21 |
| AROCLOR 5432 | (ND)\|ND | 80 | 41\|41 |
| AROCLOR 5442 | (ND)\|ND | 80 | 41\|41 |
| AROCLOR 5460 | (ND)\|ND | 80 | 41\|41 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (ND)\|ND | 6.433 | (DO)\|DO | 45-120 |
| TETRACHLORO-M-XYLENE | (ND)\|ND | 6.433 | (DO)\|DO | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/06/12 16:33 |
| Sample ID: SL-078-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 04:38 |
| Lab Samp ID: C273-06 | Dilution Factor: 1 |
| Lab File ID: KD17023A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : 11.5 |
| Calib. Ref.: KD17017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.789)\|4.792 | 6.026 | (113)\|79.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.688)\|5.870 | 6.026 | (128)\|97.4 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/06/12 16:33 |
| Sample ID: SL-095-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 05:32 |
| Lab Samp ID: C273-07 | Dilution Factor: 1 |
| Lab File ID: KD17024A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : 11.9 |
| Calib. Ref.: KD17017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.964)\|4.891 | 6.053 | (115)\|80.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.507)\|6.590 | 6.053 | (124)\|109 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/06/12 16:33 |
| Sample ID: SL-102-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 06:26 |
| Lab Samp ID: C273-08 | Dilution Factor: 1 |
| Lab File ID: KD17025A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : 13.8 |
| Calib. Ref.: KD17017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.441\|(5.089) | 6.187 | 120*\|(82.3) | 45-120 |
| TETRACHLORO-M-XYLENE | (8.019)\|5.706 | 6.187 | (130)\|92.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/06/12 16:33 |
| Sample ID: SL-109-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 07:20 |
| Lab Samp ID: C273-09 | Dilution Factor: 1 |
| Lab File ID: KD17026A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : 12.8 |
| Calib. Ref.: KD17017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.073)\|4.943 | 6.116 | (116)\|80.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.817)\|5.036 | 6.116 | (128)\|82.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/06/12 16:33 |
| Sample ID: SL-119-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 08:14 |
| Lab Samp ID: C273-10 | Dilution Factor: 1 |
| Lab File ID: KD17027A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : 11.1 |
| Calib. Ref.: KD17017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.847)\|4.993 | 5.999 | (114)\|83.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.631)\|5.441 | 5.999 | (127)\|90.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/06/12 16:33 |
| Sample ID: SL-129-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 09:08 |
| Lab Samp ID: C273-11 | Dilution Factor: 1 |
| Lab File ID: KD17028A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : 20.0 |
| Calib. Ref.: KD17017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1221 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1232 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1242 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1248 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1254 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1260 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1262 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1268 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 5432 | (ND)\|ND | 4.1 | 2.1\|2.1 |
| AROCLOR 5442 | (ND)\|ND | 4.1 | 2.1\|2.1 |
| AROCLOR 5460 | (17)\|17 | 4.1 | 2.1\|2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.111)\|4.771 | 6.666 | (107)\|71.6 | 45-120 |
| TETRACHLORO-M-XYLENE | (8.304)\|5.733 | 6.666 | (125)\|86.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/27/12 |
| Batch No. | : 12C273 | Date Extracted | : 04/06/12 16:33 |
| Sample ID | : SL-130-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/18/12 10:03 |
| Lab Samp ID | : C273-12 | Dilution Factor | : 1 |
| Lab File ID | : KD17029A | Matrix | : SOIL |
| Ext Btch ID | : CPD013S | % Moisture | : 16.1 |
| Calib. Ref. | : KD17017A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.378)\|5.194 | 6.356 | (116)\|81.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (8.131)\|5.788 | 6.356 | (128)\|91.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/06/12 |
| Batch No. : 12C273 | Date Extracted: 04/06/12 16:33 |
| Sample ID: MBLK1S | Date Analyzed: 04/18/12 01:56 |
| Lab Samp ID: 60D013SB | Dilution Factor: 1 |
| Lab File ID: KD17020A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : NA |
| Calib. Ref.: KD17017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 8.264\|(5.724) | 5.333 | 155*\|(107) | 45-120 |
| TETRACHLORO-M-XYLENE | 8.795\|(6.579) | 5.333 | 165*\|(123) | 10-160 |

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Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 3550B/8082

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60D013SB | 60D013SL | 60D013SC | | |
| LAB FILE ID: | KD17020A | KD17021A | KD17022A | | |
| DATE EXTRACTED: | 04/06/1216:33 | 04/06/1216:33 | 04/06/1216:33 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/18/1201:56 | 04/18/1202:50 | 04/18/1203:44 | DATE RECEIVED: | 04/06/12 |
| PREP. BATCH: | CPD013S | CPD013S | CPD013S | | |
| CALIB. REF: | KD17017A | KD17017A | KD17017A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (65.8)\|60.5 | (99)\|91 | 66.7 | (64.2)\|53.1 | (96)\|80 | (2)\|13 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (79.4)\|59.5 | (119)\|89 | 66.7 | (74.3)\|55.8 | (111)\|84 | (7)\|6 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | (71.2)\|67.4 | (107)\|101 | 66.7 | (68.1)\|63.5 | (102)\|95 | (4)\|6 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | 6.553\|(4.670) | 123*\|(87.6) | 5.333 | (5.936)\|4.267 | (111)\|80.0 | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (6.823)\|5.538 | (128)\|104 | 5.333 | (6.136)\|5.066 | (115)\|95.0 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/29/12 17:58 |
| Sample ID: EB-NBZ-SS-032712 | Date Analyzed: 03/30/12 21:01 |
| Lab Samp ID: C273-02 | Dilution Factor: 1 |
| Lab File ID: WC30024A | Matrix : WATER |
| Ext Btch ID: HEC011W | % Moisture : NA |
| Calib. Ref.: WC30015A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4-DB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-T | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DALAPON | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICAMBA | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICHLOROPROP | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DINOSEB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| MCPA | (ND)\|ND | 100 | 20\|20 |
| MCPP | (ND)\|ND | 100 | 20\|20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (10.16)\|9.238 | 10.00 | (102)\|92.4 | 40-140 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C273 | Date Extracted: 03/29/12 17:58 |
| Sample ID: MBLK1W | Date Analyzed: 03/30/12 14:36 |
| Lab Samp ID: HEC011WB | Dilution Factor: 1 |
| Lab File ID: WC30005A | Matrix : WATER |
| Ext Btch ID: HEC011W | % Moisture : NA |
| Calib. Ref.: WC30004A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4-DB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-T | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DALAPON | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICAMBA | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICHLOROPROP | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DINOSEB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| MCPA | (ND)\|ND | 100 | 20\|20 |
| MCPP | (ND)\|ND | 100 | 20\|20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (10.22)\|9.599 | 10.00 | (102)\|96.0 | 40-140 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 8151A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HEC011WB | HEC011WL | HEC011WC | | |
| LAB FILE ID: | WC30005A | WC30006A | WC30007A | | |
| DATE EXTRACTED: | 03/29/1217:58 | 03/29/1217:58 | 03/29/1217:58 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1214:36 | 03/30/1214:56 | 03/30/1215:16 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | HEC011W | HEC011W | HEC011W | | |
| CALIB. REF: | WC30004A | WC30004A | WC30004A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 1.00 | (1.20)\|1.10 | (120)\|110 | 1.00 | (1.27)\|1.15 | (127)\|115 | (6)\|4 | 40-130 | 30 |
| 2,4-DB | (ND)\|ND | 1.00 | (1.28)\|1.22 | (128)\|122 | 1.00 | (1.41)\|1.25 | (141)\|125 | (10)\|2 | 30-160 | 30 |
| 2,4,5-T | (ND)\|ND | 1.00 | 1.13\|(1.15) | 113\|(115) | 1.00 | 1.20\|(1.21) | 120\|(121) | 6\|(5) | 40-140 | 30 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 1.00 | (1.19)\|1.12 | (119)\|112 | 1.00 | (1.24)\|1.16 | (124)\|116 | (4)\|4 | 60-140 | 30 |
| Dalapon | (ND)\|ND | 1.00 | 0.625J\|(0.786J) | 62\|(79) | 1.00 | (0.644J)\|0.583J | (64)\|58 | (3)\|30 | 30-130 | 30 |
| Dicamba | (ND)\|ND | 1.00 | (1.05)\|1.02 | (105)\|102 | 1.00 | (1.10)\|1.08 | (110)\|108 | (5)\|6 | 50-130 | 30 |
| Dichloroprop | (ND)\|ND | 1.00 | (1.19)\|1.16 | (119)\|116 | 1.00 | (1.26)\|1.20 | (126)\|120 | (6)\|3 | 70-150 | 30 |
| Dinoseb | (ND)\|ND | 1.00 | 0.880\|(0.925) | 88\|(92) | 1.00 | 0.951\|(0.972) | 95\|(97) | 8\|(5) | 20-130 | 30 |
| MCPA | (ND)\|ND | 50.0 | (61.3J)\|55.7J | (123)\|111 | 50.0 | (70.0J)\|62.5J | (140)\|125 | (13)\|12 | 30-150 | 30 |
| MCPP | (ND)\|ND | 50.0 | (53.6J)\|48.4J | (107)\|97 | 50.0 | (71.6J)\|50.1J | (143)\|100 | (29)\|3 | 30-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 10.00 | (10.48)\|10.13 | (105)\|101 | 10.00 | (11.23)\|10.78 | (112)\|108 | 40-140 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-038-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 23:22 |
| Lab Samp ID: C273-05T | Dilution Factor: 20 |
| Lab File ID: WD09095A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 17.1 |
| Calib. Ref.: WD09091A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 87 | 43\|43 |
| 2,4-DB | (ND)\|25000 | 41 | 21\|21 |
| 2,4,5-T | (ND)\|ND | 4.1 | 2.1\|2.1 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 4.1 | 2.1\|2.1 |
| DALAPON | (ND)\|ND | 220 | 110\|110 |
| DICAMBA | (ND)\|ND | 29 | 14\|14 |
| DICHLOROPROP | (ND)\|ND | 58 | 29\|29 |
| DINOSEB | (ND)\|1600 | 41 | 21\|21 |
| MCPA | (ND)\|ND | 6000 | 3000\|3000 |
| MCPP | (ND)\|ND | 6000 | 3000\|3000 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (147.2)\|108.4 | 180.9 | (81.4)\|59.9 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-078-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 19:46 |
| Lab Samp ID: C273-06 | Dilution Factor: 1 |
| Lab File ID: WD09027A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 11.5 |
| Calib. Ref.: WD09020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.096\|0.096 |
| 2,4,5-TP(SILVEX) | 2.4\|(ND) | 0.19 | 0.096\|0.096 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.68\|0.68 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|2.5 | 1.9 | 0.96\|0.96 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (75.79)\|64.26 | 169.5 | (44.7)\|37.9 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-095-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 20:09 |
| Lab Samp ID: C273-07 | Dilution Factor: 1 |
| Lab File ID: WD09028A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 11.9 |
| Calib. Ref.: WD09020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.0\|2.0 |
| 2,4-DB | (ND)\|45 | 1.9 | 0.96\|0.96 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.096\|0.096 |
| 2,4,5-TP(SILVEX) | 0.64\|(ND) | 0.19 | 0.096\|0.096 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.68\|0.68 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (55.37)\|40.23 | 170.3 | (32.5)\|23.6 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-102-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 20:33 |
| Lab Samp ID: C273-08 | Dilution Factor: 1 |
| Lab File ID: WD09029A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 13.8 |
| Calib. Ref.: WD09020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 0.99\|0.99 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.099\|0.099 |
| 2,4,5-TP(SILVEX) | 1.1\|(ND) | 0.20 | 0.099\|0.099 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.70\|0.70 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 0.99\|0.99 |
| MCPA | (ND)\|ND | 290 | 150\|150 |
| MCPP | (ND)\|ND | 290 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (70.15)\|58.92 | 174.0 | (40.3)\|33.9 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-109-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 20:56 |
| Lab Samp ID: C273-09 | Dilution Factor: 1 |
| Lab File ID: WD09030A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 12.8 |
| Calib. Ref.: WD09020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.097\|0.097 |
| 2,4,5-TP(SILVEX) | 1.7\|(ND) | 0.19 | 0.097\|0.097 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.69\|0.69 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| MCPA | 1500\|(ND) | 290 | 140\|140 |
| MCPP | (ND)\|ND | 290 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (81.99)\|67.90 | 172.0 | (47.7)\|39.5 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-119-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 21:20 |
| Lab Samp ID: C273-10 | Dilution Factor: 1 |
| Lab File ID: WD09031A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 11.1 |
| Calib. Ref.: WD09020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 4.0 | 2.0 \| 2.0 |
| 2,4-DB | 3.6 \| (ND) | 1.9 | 0.96 \| 0.96 |
| 2,4,5-T | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| 2,4,5-TP(SILVEX) | 2.3 \| (ND) | 0.19 | 0.096 \| 0.096 |
| DALAPON | (ND) \| ND | 10 | 5.1 \| 5.1 |
| DICAMBA | (ND) \| ND | 1.3 | 0.67 \| 0.67 |
| DICHLOROPROP | (ND) \| ND | 2.7 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| 1.0J | 1.9 | 0.96 \| 0.96 |
| MCPA | 1400 \| (ND) | 280 | 140 \| 140 |
| MCPP | (ND) \| ND | 280 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (82.49) \| 71.64 | 168.7 | (48.9) \| 42.5 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-129-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 21:43 |
| Lab Samp ID: C273-11 | Dilution Factor: 1 |
| Lab File ID: WD09032A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 20.0 |
| Calib. Ref.: WD09020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.5 | 2.2\|2.2 |
| 2,4-DB | (ND)\|ND | 2.1 | 1.1\|1.1 |
| 2,4,5-T | (ND)\|ND | 0.21 | 0.11\|0.11 |
| 2,4,5-TP(SILVEX) | (1.2)\|0.87 | 0.21 | 0.11\|0.11 |
| DALAPON | (ND)\|ND | 11 | 5.6\|5.6 |
| DICAMBA | (ND)\|ND | 1.5 | 0.75\|0.75 |
| DICHLOROPROP | (ND)\|ND | 3.0 | 1.5\|1.5 |
| DINOSEB | (ND)\|ND | 2.1 | 1.1\|1.1 |
| MCPA | (ND)\|ND | 310 | 160\|160 |
| MCPP | (ND)\|ND | 310 | 160\|160 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (66.04)\|51.78 | 187.5 | (35.2)\|27.6 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 22:07 |
| Lab Samp ID: C273-12 | Dilution Factor: 1 |
| Lab File ID: WD09033A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 16.1 |
| Calib. Ref.: WD09020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.3 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | 0.84\|(ND) | 0.20 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.4\|5.4 |
| DICAMBA | (ND)\|ND | 1.4 | 0.72\|0.72 |
| DICHLOROPROP | (ND)\|ND | 2.9 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| MCPA | 1200\|(ND) | 300 | 150\|150 |
| MCPP | (ND)\|230J | 300 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (83.86)\|70.20 | 178.8 | (46.9)\|39.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 18:17 |
| Sample ID: MBLK1S | Date Analyzed: 04/09/12 17:27 |
| Lab Samp ID: HED003SB | Dilution Factor: 1 |
| Lab File ID: WD09021A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : NA |
| Calib. Ref.: WD09020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 3.6 | 1.8 \| 1.8 |
| 2,4-DB | (ND) \| ND | 1.7 | 0.85 \| 0.85 |
| 2,4,5-T | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| 2,4,5-TP(SILVEX) | 1.4 \| (ND) | 0.17 | 0.085 \| 0.085 |
| DALAPON | (ND) \| ND | 9.0 | 4.5 \| 4.5 |
| DICAMBA | (ND) \| ND | 1.2 | 0.60 \| 0.60 |
| DICHLOROPROP | (ND) \| ND | 2.4 | 1.2 \| 1.2 |
| DINOSEB | (ND) \| ND | 1.7 | 0.85 \| 0.85 |
| MCPA | (ND) \| ND | 250 | 120 \| 120 |
| MCPP | (ND) \| ND | 250 | 120 \| 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (78.81) \| 68.76 | 150.0 | (52.5) \| 45.8 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HED003SB | HED003SL | HED003SC | | |
| LAB FILE ID: | WD09021A | WD09022A | WD09023A | | |
| DATE EXTRACTED: | 04/05/1218:17 | 04/05/1218:17 | 04/05/1218:17 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/09/1217:27 | 04/09/1217:48 | 04/09/1218:12 | DATE RECEIVED: | 04/05/12 |
| PREP. BATCH: | HED003S | HED003S | HED003S | | |
| CALIB. REF: | WD09020A | WD09020A | WD09020A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | (14.0)\|13.6 | (93)\|91 | 15.0 | 8.52\|(9.33) | 57\|(62) | 49\|(37) | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 18.0\|(22.0) | 120\|(147) | 15.0 | (11.4)\|10.0 | (76)\|67 | (45)\|75* | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | 15.6\|(16.1) | 104\|(107) | 15.0 | 12.1\|(12.4) | 81\|(83) | 25\|(26) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | 1.4\|(ND) | 15.0 | 23.0\|(18.9) | 253*\|(126) | 15.0 | 19.7\|(17.8) | 131\|(119) | 15\|(6) | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | (19.3)\|18.0 | (129)\|120 | 15.0 | (12.2)\|12.1 | (81)\|81 | (45)\|39 | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (16.6)\|16.1 | (111)\|107 | 15.0 | (12.2)\|11.8 | (81)\|79 | (31)\|31 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | (18.9)\|54.3 | (126)\|362* | 15.0 | (14.6)\|50.0 | (97)\|333* | (26)\|8 | 60-160 | 50 |
| Dinoseb | (ND)\|ND | 15.0 | (12.7)\|12.2 | (85)\|81 | 15.0 | (12.2)\|9.94 | (81)\|66 | (4)\|20 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (1140)\|710 | (152)\|95 | 750 | (738)\|520 | (98)\|69 | (43)\|31 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | 1300\|(600) | 173*\|(80) | 750 | 434\|(445) | 58\|(59) | 100*\|(30) | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 | (182.7)\|165.3 | (122)\|110 | 150.0 | (128.8)\|116.5 | (85.9)\|77.7 | 10-150 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/31/12 12:02 |
| Sample ID: EB-NBZ-SB-032712 | Date Analyzed: 04/02/12 13:44 |
| Lab Samp ID: C273-01 | Dilution Factor: 1 |
| Lab File ID: XD02007A | Matrix : WATER |
| Ext Btch ID: EXC028W | % Moisture : NA |
| Calib. Ref.: XD02002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | 0.25J | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 3.27 | 4.000 | 81.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/31/12 12:02 |
| Sample ID: EB-NBZ-SS-032712 | Date Analyzed: 04/02/12 14:18 |
| Lab Samp ID: C273-02 | Dilution Factor: 1 |
| Lab File ID: XD02008A | Matrix : WATER |
| Ext Btch ID: EXC028W | % Moisture : NA |
| Calib. Ref.: XD02002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | ND | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 3.54 | 4.000 | 88.4 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/31/12 |
| Batch No. : 12C273 | Date Extracted: 03/31/12 12:02 |
| Sample ID: MBLK1W | Date Analyzed: 04/02/12 11:27 |
| Lab Samp ID: EXC028WB | Dilution Factor: 1 |
| Lab File ID: XD02003A | Matrix : WATER |
| Ext Btch ID: EXC028W | % Moisture : NA |
| Calib. Ref.: XD02002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | ND | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 3.00 | 4.000 | 75.1 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 8330A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | EXC028WB | EXC028WL | EXC028WC | | |
| LAB FILE ID: | XD02003A | XD02004A | XD02005A | | |
| DATE EXTRACTED: | 03/31/1212:02 | 03/31/1212:02 | 03/31/1212:02 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/02/1211:27 | 04/02/1212:01 | 04/02/1212:36 | DATE RECEIVED: | 03/31/12 |
| PREP. BATCH: | EXC028W | EXC028W | EXC028W | | |
| CALIB. REF: | XD02002A | XD02002A | XD02002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 4.00 | 3.95 | 99 | 4.00 | 4.12 | 103 | 4 | 70-130 | 30 |
| RDX | ND | 4.00 | 3.16 | 79 | 4.00 | 3.34 | 84 | 6 | 60-130 | 30 |
| 1,3,5-Trinitrobenzene | ND | 4.00 | 4.10 | 102 | 4.00 | 4.33 | 108 | 5 | 70-130 | 30 |
| 1,3-Dinitrobenzene | ND | 4.00 | 3.35 | 84 | 4.00 | 3.56 | 89 | 6 | 70-130 | 30 |
| Tetryl | ND | 4.00 | 3.72 | 93 | 4.00 | 3.91 | 98 | 5 | 70-130 | 30 |
| Nitrobenzene | ND | 4.00 | 3.65 | 91 | 4.00 | 3.89 | 97 | 7 | 70-130 | 30 |
| 2,4,6-Trinitrotoluene | ND | 4.00 | 4.05 | 101 | 4.00 | 4.38 | 110 | 8 | 70-130 | 30 |
| 4-Amino-2,6-Dinitrotoluene | ND | 4.00 | 3.76 | 94 | 4.00 | 3.99 | 100 | 6 | 70-130 | 30 |
| 2-Amino-4,6-Dinitrotoluene | ND | 4.00 | 3.55 | 89 | 4.00 | 3.82 | 96 | 7 | 70-130 | 30 |
| 2,6-Dinitrotoluene | ND | 4.00 | 3.99 | 100 | 4.00 | 4.26 | 106 | 7 | 70-130 | 30 |
| 2,4-Dinitrotoluene | ND | 4.00 | 4.13 | 103 | 4.00 | 4.31 | 108 | 4 | 70-130 | 30 |
| 2-Nitrotoluene | ND | 4.00 | 3.73 | 93 | 4.00 | 4.28 | 107 | 14 | 70-130 | 30 |
| 3-Nitrotoluene | ND | 4.00 | 3.72 | 93 | 4.00 | 3.50 | 88 | 6 | 70-130 | 30 |
| 4-Nitrotoluene | ND | 4.00 | 3.51 | 88 | 4.00 | 3.99 | 100 | 13 | 70-130 | 30 |
| 2,4-Diamino-6-nitrotoluene | ND | 4.00 | 1.27J | 32 | 4.00 | 1.26J | 32 | 1 | 20-130 | 30 |
| 2,6-Diamino-4-nitrotoluene | ND | 4.00 | 1.24J | 31 | 4.00 | 1.22J | 31 | 1 | 20-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 4.00 | 3.29 | 82 | 4.00 | 3.45 | 86 | 65-135 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-039-NBZ-SB-2.0-3.0 | Date Analyzed: 04/04/12 01:20 |
| Lab Samp ID: C273-04 | Dilution Factor: 1 |
| Lab File ID: XD03018A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: XD03013A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1820 | 2000 | 90.8 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-038-NBZ-SS-0.0-0.5 | Date Analyzed: 04/04/12 01:54 |
| Lab Samp ID: C273-05 | Dilution Factor: 1 |
| Lab File ID: XD03019A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: XD03013A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1790 | 2000 | 89.7 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-078-NBZ-SS-0.0-0.5 | Date Analyzed: 04/04/12 02:28 |
| Lab Samp ID: C273-06 | Dilution Factor: 1 |
| Lab File ID: XD03020A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: XD03013A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1810 | 2000 | 90.7 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12C273 | Date Extracted: 04/02/12 19:23 |
| Sample ID: MBLK1S | Date Analyzed: 04/03/12 16:49 |
| Lab Samp ID: EXD001SB | Dilution Factor: 1 |
| Lab File ID: XD03003A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: XD03002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1840 | 2000 | 91.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 8330A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD001SB | EXD001SL | EXD001SC | | |
| LAB FILE ID: | XD03003A | XD03004A | XD03005A | | |
| DATE EXTRACTED: | 04/02/1219:23 | 04/02/1219:23 | 04/02/1219:23 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1216:49 | 04/03/1217:23 | 04/03/1217:57 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | EXD001S | EXD001S | EXD001S | | |
| CALIB. REF: | XD03002A | XD03002A | XD03002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 2120 | 106 | 2000 | 2130 | 106 | 0 | 70-130 | 50 |
| RDX | ND | 2000 | 2180 | 109 | 2000 | 2170 | 109 | 0 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2320 | 116 | 2000 | 2380 | 119 | 2 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2110 | 106 | 2000 | 2160 | 108 | 2 | 70-130 | 50 |
| Tetryl | ND | 2000 | 2460 | 123 | 2000 | 2500 | 125 | 1 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 1910 | 96 | 2000 | 1990 | 99 | 4 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 2130 | 106 | 2000 | 2170 | 108 | 2 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 2190 | 110 | 2000 | 2170 | 109 | 1 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 2110 | 106 | 2000 | 2080 | 104 | 2 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2150 | 107 | 2000 | 2210 | 110 | 3 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2250 | 113 | 2000 | 2240 | 112 | 1 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 2100 | 105 | 2000 | 2220 | 111 | 6 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 2080 | 104 | 2000 | 1940 | 97 | 7 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 2050 | 103 | 2000 | 2090 | 105 | 2 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1770 | 88 | 2000 | 1790 | 89 | 1 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2170 | 109 | 2000 | 2160 | 108 | 1 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1860 | 93 | 2000 | 1950 | 98 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/27/12 |
| Batch No. | : 12C273 | Date Extracted | : 03/31/12 10:54 |
| Sample ID | : EB-NBZ-SB-032712 | Date Analyzed | : 04/02/12 11:43 |
| Lab Samp ID | : C273-01 | Dilution Factor | : 1 |
| Lab File ID | : PD02007A | Matrix | : WATER |
| Ext Btch ID | : EXC027W | % Moisture | : NA |
| Calib. Ref. | : PD02002A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 595 | 500.0 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 03/31/12 10:54 |
| Sample ID: EB-NBZ-SS-032712 | Date Analyzed: 04/02/12 11:57 |
| Lab Samp ID: C273-02 | Dilution Factor: 1 |
| Lab File ID: PD02008A | Matrix : WATER |
| Ext Btch ID: EXC027W | % Moisture : NA |
| Calib. Ref.: PD02002A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 597 | 500.0 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/31/12 |
| Batch No. : 12C273 | Date Extracted: 03/31/12 10:54 |
| Sample ID: MBLK1W | Date Analyzed: 04/02/12 10:48 |
| Lab Samp ID: EXC027WB | Dilution Factor: 1 |
| Lab File ID: PD02003A | Matrix : WATER |
| Ext Btch ID: EXC027W | % Moisture : NA |
| Calib. Ref.: PD02002A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 576 | 500.0 | 115 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | EXC027WB | EXC027WL | EXC027WC | | |
| LAB FILE ID: | PD02003A | PD02004A | PD02005A | | |
| DATE EXTRACTED: | 03/31/1210:54 | 03/31/1210:54 | 03/31/1210:54 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/02/1210:48 | 04/02/1211:02 | 04/02/1211:16 | DATE RECEIVED: | 03/31/12 |
| PREP. BATCH: | EXC027W | EXC027W | EXC027W | | |
| CALIB. REF: | PD02002A | PD02002A | PD02002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 1870 | 1930 | 103 | 1870 | 1940 | 103 | 1 | 50-150 | 30 |
| PETN | ND | 1870 | 1940 | 103 | 1870 | 1930 | 103 | 0 | 50-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 500 | 580 | 116 | 500 | 577 | 115 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-039-NBZ-SB-2.0-3.0 | Date Analyzed: 04/03/12 19:22 |
| Lab Samp ID: C273-04 | Dilution Factor: 1 |
| Lab File ID: PD03025A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: PD03020A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2380 | 2000 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/27/12 |
| Batch No. | : 12C273 | Date Extracted | : 04/02/12 19:23 |
| Sample ID | : SL-038-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/03/12 19:36 |
| Lab Samp ID | : C273-05 | Dilution Factor | : 1 |
| Lab File ID | : PD03026A | Matrix | : SOIL |
| Ext Btch ID | : EXD001S | % Moisture | : NA |
| Calib. Ref. | : PD03020A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2390 | 2000 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-078-NBZ-SS-0.0-0.5 | Date Analyzed: 04/03/12 19:50 |
| Lab Samp ID: C273-06 | Dilution Factor: 1 |
| Lab File ID: PD03027A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: PD03020A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2360 | 2000 | 118 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/02/12 |
| Batch No. | : 12C273 | Date Extracted | : 04/02/12 19:23 |
| Sample ID | : MBLK1S | Date Analyzed | : 04/03/12 15:57 |
| Lab Samp ID | : EXD001SB | Dilution Factor | : 1 |
| Lab File ID | : PD03010A | Matrix | : SOIL |
| Ext Btch ID | : EXD001S | % Moisture | : NA |
| Calib. Ref. | : PD03009A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2380 | 2000 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD001SB | EXD001SX | EXD001SY | | |
| LAB FILE ID: | PD03010A | PD03011A | PD03012A | | |
| DATE EXTRACTED: | 04/02/1219:23 | 04/02/1219:23 | 04/02/1219:23 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1215:57 | 04/03/1216:11 | 04/03/1216:25 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | EXD001S | EXD001S | EXD001S | | |
| CALIB. REF: | PD03009A | PD03009A | PD03009A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7550 | 101 | 7500 | 7410 | 99 | 2 | 50-150 | 50 |
| PETN | ND | 7500 | 7800 | 104 | 7500 | 7920 | 106 | 1 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2420 | 121 | 2000 | 2420 | 121 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/27/12 |
| SDG NO. | : 12C273 | Date Extracted | : 04/02/12 13:15 |
| Sample ID | : EB-NBZ-SB-032712 | Date Analyzed | : 04/16/12 13:31 |
| Lab Samp ID | : C273-01 | Dilution Factor | : 1 |
| Lab File ID | : 98D08036 | Matrix | : WATER |
| Ext Btch ID | : IMD001W | % Moisture | : NA |
| Calib. Ref. | : 98D08026 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Aluminum | 0.0368J | 0.100 | 0.0200 |
| Antimony | ND | 0.00100 | 0.000500 |
| Arsenic | ND | 0.00100 | 0.000200 |
| Barium | ND | 0.00100 | 0.000500 |
| Beryllium | ND | 0.00100 | 0.000100 |
| Boron | ND | 0.0100 | 0.00500 |
| Cadmium | ND | 0.00100 | 0.000200 |
| Calcium | ND | 0.100 | 0.0250 |
| Chromium | ND | 0.00100 | 0.000200 |
| Cobalt | ND | 0.00100 | 0.000200 |
| Copper | 0.00137 | 0.00100 | 0.000500 |
| Iron | ND | 0.100 | 0.0100 |
| Lead | ND | 0.00100 | 0.000100 |
| Magnesium | ND | 0.100 | 0.0100 |
| Manganese | ND | 0.00100 | 0.000200 |
| Molybdenum | ND | 0.00200 | 0.000500 |
| Nickel | ND | 0.00100 | 0.000200 |
| Potassium | ND | 0.100 | 0.0200 |
| Selenium | ND | 0.00100 | 0.000300 |
| Silver | ND | 0.00100 | 0.000200 |
| Sodium | 0.200 | 0.100 | 0.0500 |
| Strontium | ND | 0.00200 | 0.00100 |
| Thallium | ND | 0.00100 | 0.000200 |
| Tin | ND | 0.00100 | 0.000200 |
| Titanium | ND | 0.00200 | 0.000500 |
| Vanadium | ND | 0.00100 | 0.000500 |
| Zinc | ND | 0.0200 | 0.0100 |
| Lithium | ND | 0.00200 | 0.000500 |
| Phosphorus | ND | 0.0500 | 0.0250 |
| Zirconium | ND | 0.00500 | 0.00200 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/27/12 |
| SDG NO. | : 12C273 | Date Extracted | : 04/02/12 13:15 |
| Sample ID | : EB-NBZ-SS-032712 | Date Analyzed | : 04/16/12 13:35 |
| Lab Samp ID | : C273-02 | Dilution Factor | : 1 |
| Lab File ID | : 98D08037 | Matrix | : WATER |
| Ext Btch ID | : IMD001W | % Moisture | : NA |
| Calib. Ref. | : 98D08026 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Aluminum | ND | 0.100 | 0.0200 |
| Antimony | ND | 0.00100 | 0.000500 |
| Arsenic | ND | 0.00100 | 0.000200 |
| Barium | ND | 0.00100 | 0.000500 |
| Beryllium | ND | 0.00100 | 0.000100 |
| Boron | ND | 0.0100 | 0.00500 |
| Cadmium | ND | 0.00100 | 0.000200 |
| Calcium | ND | 0.100 | 0.0250 |
| Chromium | ND | 0.00100 | 0.000200 |
| Cobalt | ND | 0.00100 | 0.000200 |
| Copper | 0.000807J | 0.00100 | 0.000500 |
| Iron | ND | 0.100 | 0.0100 |
| Lead | ND | 0.00100 | 0.000100 |
| Magnesium | ND | 0.100 | 0.0100 |
| Manganese | ND | 0.00100 | 0.000200 |
| Molybdenum | ND | 0.00200 | 0.000500 |
| Nickel | ND | 0.00100 | 0.000200 |
| Potassium | ND | 0.100 | 0.0200 |
| Selenium | ND | 0.00100 | 0.000300 |
| Silver | ND | 0.00100 | 0.000200 |
| Sodium | ND | 0.100 | 0.0500 |
| Strontium | ND | 0.00200 | 0.00100 |
| Thallium | ND | 0.00100 | 0.000200 |
| Tin | ND | 0.00100 | 0.000200 |
| Titanium | ND | 0.00200 | 0.000500 |
| Vanadium | ND | 0.00100 | 0.000500 |
| Zinc | ND | 0.0200 | 0.0100 |
| Lithium | ND | 0.00200 | 0.000500 |
| Phosphorus | ND | 0.0500 | 0.0250 |
| Zirconium | ND | 0.00500 | 0.00200 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| SDG NO. : 12C273 | Date Extracted: 04/02/12 13:15 |
| Sample ID: MBLK1W | Date Analyzed: 04/16/12 13:10 |
| Lab Samp ID: IMD001WB | Dilution Factor: 1 |
| Lab File ID: 98D08028 | Matrix : WATER |
| Ext Btch ID: IMD001W | % Moisture : NA |
| Calib. Ref.: 98D08026 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Aluminum | ND | 0.100 | 0.0200 |
| Antimony | ND | 0.00100 | 0.000500 |
| Arsenic | ND | 0.00100 | 0.000200 |
| Barium | ND | 0.00100 | 0.000500 |
| Beryllium | ND | 0.00100 | 0.000100 |
| Boron | ND | 0.0100 | 0.00500 |
| Cadmium | ND | 0.00100 | 0.000200 |
| Calcium | ND | 0.100 | 0.0250 |
| Chromium | ND | 0.00100 | 0.000200 |
| Cobalt | ND | 0.00100 | 0.000200 |
| Copper | ND | 0.00100 | 0.000500 |
| Iron | ND | 0.100 | 0.0100 |
| Lead | ND | 0.00100 | 0.000100 |
| Magnesium | ND | 0.100 | 0.0100 |
| Manganese | ND | 0.00100 | 0.000200 |
| Molybdenum | ND | 0.00200 | 0.000500 |
| Nickel | ND | 0.00100 | 0.000200 |
| Potassium | ND | 0.100 | 0.0200 |
| Selenium | ND | 0.00100 | 0.000300 |
| Silver | ND | 0.00100 | 0.000200 |
| Sodium | ND | 0.100 | 0.0500 |
| Strontium | ND | 0.00200 | 0.00100 |
| Thallium | ND | 0.00100 | 0.000200 |
| Tin | ND | 0.00100 | 0.000200 |
| Titanium | ND | 0.00200 | 0.000500 |
| Vanadium | ND | 0.00100 | 0.000500 |
| Zinc | ND | 0.0200 | 0.0100 |
| Lithium | ND | 0.00200 | 0.000500 |
| Phosphorus | ND | 0.0500 | 0.0250 |
| Zirconium | ND | 0.00500 | 0.00200 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C273
METHOD: METHOD 6020

MATRIX: WATER % MOISTURE: NA
DILTN FACTR: 1 1 1
SAMPLE ID: MBLK1W
CONTROL NO.: IMD001WB IMD001WL IMD001WC
LAB FILE ID: 98D08028 98D08029 98D08030
DATIME EXTRCTD: 04/02/1213:15 04/02/1213:15 04/02/1213:15 DATE COLLECTED: NA
DATIME ANALYZD: 04/16/1213:10 04/16/1213:14 04/16/1213:19 DATE RECEIVED: 04/02/12
PREP. BATCH: IMD001W IMD001W IMD001W
CALIB. REF: 98D08026 98D08026 98D08026

ACCESSION:

| PARAMETER | BLNK RSLT mg/L | SPIKE AMT mg/L | BS RSLT mg/L | BS % REC | SPIKE AMT mg/L | BSD RSLT mg/L | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2.50 | 2.37 | 95 | 2.50 | 2.40 | 96 | 1 | 80-120 | 20 |
| Antimony | ND | 0.0250 | 0.0247 | 99 | 0.0250 | 0.0248 | 99 | 0 | 80-120 | 20 |
| Arsenic | ND | 0.0250 | 0.0238 | 95 | 0.0250 | 0.0242 | 97 | 2 | 80-120 | 20 |
| Barium | ND | 0.0250 | 0.0251 | 100 | 0.0250 | 0.0249 | 100 | 1 | 80-120 | 20 |
| Beryllium | ND | 0.0250 | 0.0248 | 99 | 0.0250 | 0.0246 | 98 | 1 | 80-120 | 20 |
| Boron | ND | 0.0250 | 0.0251 | 100 | 0.0250 | 0.0249 | 100 | 1 | 80-120 | 20 |
| Cadmium | ND | 0.0250 | 0.0242 | 97 | 0.0250 | 0.0240 | 96 | 1 | 80-120 | 20 |
| Calcium | ND | 2.50 | 2.58 | 103 | 2.50 | 2.60 | 104 | 1 | 80-120 | 20 |
| Chromium | ND | 0.0250 | 0.0243 | 97 | 0.0250 | 0.0242 | 97 | 0 | 80-120 | 20 |
| Cobalt | ND | 0.0250 | 0.0249 | 100 | 0.0250 | 0.0249 | 99 | 0 | 80-120 | 20 |
| Copper | ND | 0.0250 | 0.0244 | 98 | 0.0250 | 0.0242 | 97 | 1 | 80-120 | 20 |
| Iron | ND | 2.50 | 2.63 | 105 | 2.50 | 2.63 | 105 | 0 | 80-120 | 20 |
| Lead | ND | 0.0250 | 0.0245 | 98 | 0.0250 | 0.0246 | 98 | 0 | 80-120 | 20 |
| Magnesium | ND | 2.50 | 2.33 | 93 | 2.50 | 2.33 | 93 | 0 | 80-120 | 20 |
| Manganese | ND | 0.0250 | 0.0247 | 99 | 0.0250 | 0.0244 | 98 | 1 | 80-120 | 20 |
| Molybdenum | ND | 0.0250 | 0.0238 | 95 | 0.0250 | 0.0240 | 96 | 1 | 80-120 | 20 |
| Nickel | ND | 0.0250 | 0.0243 | 97 | 0.0250 | 0.0239 | 96 | 2 | 80-120 | 20 |
| Potassium | ND | 2.50 | 2.57 | 103 | 2.50 | 2.58 | 103 | 0 | 80-120 | 20 |
| Selenium | ND | 0.0250 | 0.0239 | 95 | 0.0250 | 0.0245 | 98 | 3 | 80-120 | 20 |
| Silver | ND | 0.0250 | 0.0246 | 98 | 0.0250 | 0.0246 | 98 | 0 | 80-120 | 20 |
| Sodium | ND | 2.50 | 2.32 | 93 | 2.50 | 2.35 | 94 | 1 | 80-120 | 20 |
| Strontium | ND | 0.0250 | 0.0252 | 101 | 0.0250 | 0.0252 | 101 | 0 | 80-120 | 20 |
| Thallium | ND | 0.0250 | 0.0240 | 96 | 0.0250 | 0.0238 | 95 | 1 | 80-120 | 20 |
| Tin | ND | 0.0250 | 0.0251 | 100 | 0.0250 | 0.0251 | 100 | 0 | 80-120 | 20 |
| Titanium | ND | 0.0250 | 0.0248 | 99 | 0.0250 | 0.0247 | 99 | 1 | 80-120 | 20 |
| Vanadium | ND | 0.0250 | 0.0242 | 97 | 0.0250 | 0.0243 | 97 | 0 | 80-120 | 20 |
| Zinc | ND | 0.0500 | 0.0491 | 98 | 0.0500 | 0.0482 | 96 | 2 | 80-120 | 20 |
| Lithium | ND | 0.0250 | 0.0246 | 99 | 0.0250 | 0.0245 | 98 | 0 | 80-120 | 20 |
| Phosphorus | ND | 0.250 | 0.230 | 92 | 0.250 | 0.233 | 93 | 1 | 80-120 | 20 |
| Zirconium | ND | 0.0250 | 0.0248 | 99 | 0.0250 | 0.0253 | 101 | 2 | 80-120 | 20 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/27/12 |
| SDG NO. | : 12C273 | Date Extracted | : 04/05/12 11:54 |
| Sample ID | : SL-039-NBZ-SB-2.0-3.0 | Date Analyzed | : 04/10/12 23:23 |
| Lab Samp ID | : C273-04 | Dilution Factor | : 1.00 |
| Lab File ID | : 98D05049 | Matrix | : SOIL |
| Ext Btch ID | : IMD009S | % Moisture | : 12.3 |
| Calib. Ref. | : 98D05041 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11700 | 27.4 | 13.7 |
| Antimony | 0.184J | 0.228 | 0.114 |
| Arsenic | 4.79 | 0.456 | 0.228 |
| Barium | 66.6 | 0.456 | 0.228 |
| Beryllium | 0.515 | 0.114 | 0.0570 |
| Boron | 5.10J | 5.70 | 2.85 |
| Cadmium | 0.229 | 0.114 | 0.0570 |
| Calcium | 2650 | 22.8 | 11.4 |
| Chromium | 14.6 | 0.456 | 0.228 |
| Cobalt | 4.95 | 0.114 | 0.0570 |
| Copper | 8.24 | 0.456 | 0.228 |
| Iron | 18400 | 22.8 | 11.4 |
| Lead | 10.3 | 0.228 | 0.114 |
| Magnesium | 4310 | 11.4 | 5.70 |
| Manganese | 221 | 0.570 | 0.285 |
| Molybdenum | 0.506 | 0.114 | 0.0570 |
| Nickel | 8.30 | 0.456 | 0.228 |
| Potassium | 2690 | 68.4 | 34.2 |
| Selenium | 0.341J | 0.456 | 0.228 |
| Silver | 0.0590J | 0.114 | 0.0570 |
| Sodium | 97.8J | 114 | 57.0 |
| Strontium | 15.0 | 0.570 | 0.285 |
| Thallium | 0.252 | 0.114 | 0.0570 |
| Tin | ND | 11.4 | 5.70 |
| Titanium | 880 | 1.14 | 0.570 |
| Vanadium | 31.1 | 0.114 | 0.0570 |
| Zinc | 60.7 | 3.42 | 1.71 |
| Lithium | 20.9 | 2.28 | 1.14 |
| Phosphorus | 292 | 13.7 | 6.84 |
| Zirconium | ND | 5.70 | 2.85 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/27/12 |
| SDG NO. | : 12C273 | Date Extracted | : 04/05/12 11:54 |
| Sample ID | : SL-038-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/10/12 23:27 |
| Lab Samp ID | : C273-05 | Dilution Factor | : 0.962 |
| Lab File ID | : 98D05050 | Matrix | : SOIL |
| Ext Btch ID | : IMD009S | % Moisture | : 17.1 |
| Calib. Ref. | : 98D05041 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11400 | 27.9 | 13.9 |
| Antimony | 0.434 | 0.232 | 0.116 |
| Arsenic | 4.14 | 0.464 | 0.232 |
| Barium | 69.5 | 0.464 | 0.232 |
| Beryllium | 0.426 | 0.116 | 0.0580 |
| Boron | 5.67J | 5.80 | 2.90 |
| Cadmium | 0.423 | 0.116 | 0.0580 |
| Calcium | 3020 | 23.2 | 11.6 |
| Chromium | 14.8 | 0.464 | 0.232 |
| Cobalt | 5.67 | 0.116 | 0.0580 |
| Copper | 10.2 | 0.464 | 0.232 |
| Iron | 17200 | 23.2 | 11.6 |
| Lead | 23.6 | 0.232 | 0.116 |
| Magnesium | 4230 | 11.6 | 5.80 |
| Manganese | 268 | 0.580 | 0.290 |
| Molybdenum | 0.769 | 0.116 | 0.0580 |
| Nickel | 9.85 | 0.464 | 0.232 |
| Potassium | 2730 | 69.6 | 34.8 |
| Selenium | 0.266J | 0.464 | 0.232 |
| Silver | 0.168 | 0.116 | 0.0580 |
| Sodium | 88.4J | 116 | 58.0 |
| Strontium | 16.4 | 0.580 | 0.290 |
| Thallium | 0.223 | 0.116 | 0.0580 |
| Tin | ND | 11.6 | 5.80 |
| Titanium | 834 | 1.16 | 0.580 |
| Vanadium | 29.3 | 0.116 | 0.0580 |
| Zinc | 74.2 | 3.48 | 1.74 |
| Lithium | 21.6 | 2.32 | 1.16 |
| Phosphorus | 309 | 13.9 | 6.96 |
| Zirconium | ND | 5.80 | 2.90 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/27/12 |
| SDG NO. | : 12C273 | Date Extracted | : 04/05/12 11:54 |
| Sample ID | : SL-078-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/10/12 23:32 |
| Lab Samp ID | : C273-06 | Dilution Factor | : 0.985 |
| Lab File ID | : 98D05051 | Matrix | : SOIL |
| Ext Btch ID | : IMD009S | % Moisture | : 11.5 |
| Calib. Ref. | : 98D05041 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10900 | 26.7 | 13.4 |
| Antimony | 0.119J | 0.223 | 0.111 |
| Arsenic | 3.27 | 0.445 | 0.223 |
| Barium | 71.2 | 0.445 | 0.223 |
| Beryllium | 0.388 | 0.111 | 0.0556 |
| Boron | ND | 5.56 | 2.78 |
| Cadmium | 0.192 | 0.111 | 0.0556 |
| Calcium | 2960 | 22.3 | 11.1 |
| Chromium | 13.8 | 0.445 | 0.223 |
| Cobalt | 4.56 | 0.111 | 0.0556 |
| Copper | 6.49 | 0.445 | 0.223 |
| Iron | 18100 | 22.3 | 11.1 |
| Lead | 8.25 | 0.223 | 0.111 |
| Magnesium | 5400 | 11.1 | 5.56 |
| Manganese | 272 | 0.556 | 0.278 |
| Molybdenum | 0.306 | 0.111 | 0.0556 |
| Nickel | 8.84 | 0.445 | 0.223 |
| Potassium | 3140 | 66.8 | 33.4 |
| Selenium | ND | 0.445 | 0.223 |
| Silver | ND | 0.111 | 0.0556 |
| Sodium | ND | 111 | 55.6 |
| Strontium | 9.39 | 0.556 | 0.278 |
| Thallium | 0.220 | 0.111 | 0.0556 |
| Tin | ND | 11.1 | 5.56 |
| Titanium | 855 | 1.11 | 0.556 |
| Vanadium | 29.3 | 0.111 | 0.0556 |
| Zinc | 52.1 | 3.34 | 1.67 |
| Lithium | 24.6 | 2.23 | 1.11 |
| Phosphorus | 520 | 13.4 | 6.68 |
| Zirconium | ND | 5.56 | 2.78 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/27/12 |
| SDG NO. | : 12C273 | Date Extracted | : 04/05/12 11:54 |
| Sample ID | : SL-095-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/10/12 23:51 |
| Lab Samp ID | : C273-07 | Dilution Factor | : 1.00 |
| Lab File ID | : 98D05055 | Matrix | : SOIL |
| Ext Btch ID | : IMD009S | % Moisture | : 11.9 |
| Calib. Ref. | : 98D05053 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9860 | 27.2 | 13.6 |
| Antimony | 0.158J | 0.227 | 0.114 |
| Arsenic | 3.64 | 0.454 | 0.227 |
| Barium | 65.0 | 0.454 | 0.227 |
| Beryllium | 0.345 | 0.114 | 0.0568 |
| Boron | ND | 5.68 | 2.84 |
| Cadmium | 0.163 | 0.114 | 0.0568 |
| Calcium | 1910 | 22.7 | 11.4 |
| Chromium | 14.0 | 0.454 | 0.227 |
| Cobalt | 3.75 | 0.114 | 0.0568 |
| Copper | 5.47 | 0.454 | 0.227 |
| Iron | 16200 | 22.7 | 11.4 |
| Lead | 7.24 | 0.227 | 0.114 |
| Magnesium | 4240 | 11.4 | 5.68 |
| Manganese | 203 | 0.568 | 0.284 |
| Molybdenum | 0.350 | 0.114 | 0.0568 |
| Nickel | 7.40 | 0.454 | 0.227 |
| Potassium | 2570 | 68.1 | 34.1 |
| Selenium | ND | 0.454 | 0.227 |
| Silver | ND | 0.114 | 0.0568 |
| Sodium | ND | 114 | 56.8 |
| Strontium | 11.1 | 0.568 | 0.284 |
| Thallium | 0.205 | 0.114 | 0.0568 |
| Tin | ND | 11.4 | 5.68 |
| Titanium | 799 | 1.14 | 0.568 |
| Vanadium | 27.5 | 0.114 | 0.0568 |
| Zinc | 47.8 | 3.41 | 1.70 |
| Lithium | 16.8 | 2.27 | 1.14 |
| Phosphorus | 286 | 13.6 | 6.81 |
| Zirconium | ND | 5.68 | 2.84 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/27/12 |
| SDG NO. | : 12C273 | Date Extracted | : 04/05/12 11:54 |
| Sample ID | : SL-102-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/10/12 23:55 |
| Lab Samp ID | : C273-08 | Dilution Factor | : 0.980 |
| Lab File ID | : 98D05056 | Matrix | : SOIL |
| Ext Btch ID | : IMD009S | % Moisture | : 13.8 |
| Calib. Ref. | : 98D05053 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 13200 | 27.3 | 13.6 |
| Antimony | 0.164J | 0.227 | 0.114 |
| Arsenic | 2.80 | 0.455 | 0.227 |
| Barium | 86.7 | 0.455 | 0.227 |
| Beryllium | 0.458 | 0.114 | 0.0568 |
| Boron | ND | 5.68 | 2.84 |
| Cadmium | 0.224 | 0.114 | 0.0568 |
| Calcium | 2290 | 22.7 | 11.4 |
| Chromium | 18.0 | 0.455 | 0.227 |
| Cobalt | 5.31 | 0.114 | 0.0568 |
| Copper | 7.75 | 0.455 | 0.227 |
| Iron | 20000 | 22.7 | 11.4 |
| Lead | 7.74 | 0.227 | 0.114 |
| Magnesium | 5930 | 11.4 | 5.68 |
| Manganese | 284 | 0.568 | 0.284 |
| Molybdenum | 0.465 | 0.114 | 0.0568 |
| Nickel | 10.8 | 0.455 | 0.227 |
| Potassium | 3100 | 68.2 | 34.1 |
| Selenium | ND | 0.455 | 0.227 |
| Silver | ND | 0.114 | 0.0568 |
| Sodium | 65.9J | 114 | 56.8 |
| Strontium | 14.3 | 0.568 | 0.284 |
| Thallium | 0.227 | 0.114 | 0.0568 |
| Tin | ND | 11.4 | 5.68 |
| Titanium | 1030 | 1.14 | 0.568 |
| Vanadium | 37.6 | 0.114 | 0.0568 |
| Zinc | 53.8 | 3.41 | 1.71 |
| Lithium | 25.4 | 2.27 | 1.14 |
| Phosphorus | 399 | 13.6 | 6.82 |
| Zirconium | ND | 5.68 | 2.84 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/27/12 |
| SDG NO. | : 12C273 | Date Extracted | : 04/05/12 11:54 |
| Sample ID | : SL-109-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 00:00 |
| Lab Samp ID | : C273-09 | Dilution Factor | : 0.962 |
| Lab File ID | : 98D05057 | Matrix | : SOIL |
| Ext Btch ID | : IMD009S | % Moisture | : 12.8 |
| Calib. Ref. | : 98D05053 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 15500 | 26.5 | 13.2 |
| Antimony | 0.246 | 0.221 | 0.110 |
| Arsenic | 4.38 | 0.441 | 0.221 |
| Barium | 120 | 0.441 | 0.221 |
| Beryllium | 0.575 | 0.110 | 0.0552 |
| Boron | ND | 5.52 | 2.76 |
| Cadmium | 0.215 | 0.110 | 0.0552 |
| Calcium | 3050 | 22.1 | 11.0 |
| Chromium | 18.3 | 0.441 | 0.221 |
| Cobalt | 5.47 | 0.110 | 0.0552 |
| Copper | 8.69 | 0.441 | 0.221 |
| Iron | 20400 | 22.1 | 11.0 |
| Lead | 7.13 | 0.221 | 0.110 |
| Magnesium | 5180 | 11.0 | 5.52 |
| Manganese | 248 | 0.552 | 0.276 |
| Molybdenum | 0.622 | 0.110 | 0.0552 |
| Nickel | 11.3 | 0.441 | 0.221 |
| Potassium | 3120 | 66.2 | 33.1 |
| Selenium | ND | 0.441 | 0.221 |
| Silver | 0.199 | 0.110 | 0.0552 |
| Sodium | 76.0J | 110 | 55.2 |
| Strontium | 22.7 | 0.552 | 0.276 |
| Thallium | 0.248 | 0.110 | 0.0552 |
| Tin | ND | 11.0 | 5.52 |
| Titanium | 1010 | 1.10 | 0.552 |
| Vanadium | 36.7 | 0.110 | 0.0552 |
| Zinc | 52.8 | 3.31 | 1.65 |
| Lithium | 23.5 | 2.21 | 1.10 |
| Phosphorus | 271 | 13.2 | 6.62 |
| Zirconium | ND | 5.52 | 2.76 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/27/12 |
| SDG NO. | : 12C273 | Date Extracted | : 04/05/12 11:54 |
| Sample ID | : SL-119-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 00:05 |
| Lab Samp ID | : C273-10 | Dilution Factor | : 1.00 |
| Lab File ID | : 98D05058 | Matrix | : SOIL |
| Ext Btch ID | : IMD009S | % Moisture | : 11.1 |
| Calib. Ref. | : 98D05053 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11800 | 27.0 | 13.5 |
| Antimony | 0.134J | 0.225 | 0.112 |
| Arsenic | 4.05 | 0.450 | 0.225 |
| Barium | 71.4 | 0.450 | 0.225 |
| Beryllium | 0.379 | 0.112 | 0.0562 |
| Boron | ND | 5.62 | 2.81 |
| Cadmium | 0.146 | 0.112 | 0.0562 |
| Calcium | 2080 | 22.5 | 11.2 |
| Chromium | 17.9 | 0.450 | 0.225 |
| Cobalt | 5.14 | 0.112 | 0.0562 |
| Copper | 7.22 | 0.450 | 0.225 |
| Iron | 20300 | 22.5 | 11.2 |
| Lead | 5.55 | 0.225 | 0.112 |
| Magnesium | 6770 | 11.2 | 5.62 |
| Manganese | 265 | 0.562 | 0.281 |
| Molybdenum | 0.360 | 0.112 | 0.0562 |
| Nickel | 10.1 | 0.450 | 0.225 |
| Potassium | 3040 | 67.5 | 33.7 |
| Selenium | ND | 0.450 | 0.225 |
| Silver | ND | 0.112 | 0.0562 |
| Sodium | ND | 112 | 56.2 |
| Strontium | 9.33 | 0.562 | 0.281 |
| Thallium | 0.222 | 0.112 | 0.0562 |
| Tin | ND | 11.2 | 5.62 |
| Titanium | 1060 | 1.12 | 0.562 |
| Vanadium | 38.8 | 0.112 | 0.0562 |
| Zinc | 49.8 | 3.37 | 1.69 |
| Lithium | 25.7 | 2.25 | 1.12 |
| Phosphorus | 337 | 13.5 | 6.75 |
| Zirconium | ND | 5.62 | 2.81 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/27/12 |
| SDG NO. | : 12C273 | Date Extracted | : 04/05/12 11:54 |
| Sample ID | : SL-129-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 00:10 |
| Lab Samp ID | : C273-11 | Dilution Factor | : 0.957 |
| Lab File ID | : 98D05059 | Matrix | : SOIL |
| Ext Btch ID | : IMD009S | % Moisture | : 20.0 |
| Calib. Ref. | : 98D05053 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12300 | 28.7 | 14.4 |
| Antimony | 0.239J | 0.239 | 0.120 |
| Arsenic | 3.74 | 0.478 | 0.239 |
| Barium | 126 | 0.478 | 0.239 |
| Beryllium | 0.452 | 0.120 | 0.0598 |
| Boron | 4.21J | 5.98 | 2.99 |
| Cadmium | 0.465 | 0.120 | 0.0598 |
| Calcium | 6760 | 23.9 | 12.0 |
| Chromium | 14.9 | 0.478 | 0.239 |
| Cobalt | 5.10 | 0.120 | 0.0598 |
| Copper | 9.22 | 0.478 | 0.239 |
| Iron | 17500 | 23.9 | 12.0 |
| Lead | 21.9 | 0.239 | 0.120 |
| Magnesium | 4340 | 12.0 | 5.98 |
| Manganese | 300 | 0.598 | 0.299 |
| Molybdenum | 0.633 | 0.120 | 0.0598 |
| Nickel | 10.0 | 0.478 | 0.239 |
| Potassium | 3870 | 71.8 | 35.9 |
| Selenium | ND | 0.478 | 0.239 |
| Silver | 0.612 | 0.120 | 0.0598 |
| Sodium | ND | 120 | 59.8 |
| Strontium | 33.5 | 0.598 | 0.299 |
| Thallium | 0.218 | 0.120 | 0.0598 |
| Tin | ND | 12.0 | 5.98 |
| Titanium | 868 | 1.20 | 0.598 |
| Vanadium | 29.7 | 0.120 | 0.0598 |
| Zinc | 90.7 | 3.59 | 1.79 |
| Lithium | 19.6 | 2.39 | 1.20 |
| Phosphorus | 549 | 14.4 | 7.18 |
| Zirconium | ND | 5.98 | 2.99 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/27/12 |
| SDG NO. | : 12C273 | Date Extracted | : 04/05/12 11:54 |
| Sample ID | : SL-130-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 00:14 |
| Lab Samp ID | : C273-12 | Dilution Factor | : 1.00 |
| Lab File ID | : 98D05060 | Matrix | : SOIL |
| Ext Btch ID | : IMD009S | % Moisture | : 16.1 |
| Calib. Ref. | : 98D05053 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11300 | 28.6 | 14.3 |
| Antimony | 0.138J | 0.238 | 0.119 |
| Arsenic | 3.31 | 0.477 | 0.238 |
| Barium | 71.8 | 0.477 | 0.238 |
| Beryllium | 0.344 | 0.119 | 0.0596 |
| Boron | ND | 5.96 | 2.98 |
| Cadmium | 0.201 | 0.119 | 0.0596 |
| Calcium | 2770 | 23.8 | 11.9 |
| Chromium | 17.5 | 0.477 | 0.238 |
| Cobalt | 5.17 | 0.119 | 0.0596 |
| Copper | 6.90 | 0.477 | 0.238 |
| Iron | 19700 | 23.8 | 11.9 |
| Lead | 8.48 | 0.238 | 0.119 |
| Magnesium | 6810 | 11.9 | 5.96 |
| Manganese | 274 | 0.596 | 0.298 |
| Molybdenum | 0.267 | 0.119 | 0.0596 |
| Nickel | 10.7 | 0.477 | 0.238 |
| Potassium | 2990 | 71.5 | 35.8 |
| Selenium | ND | 0.477 | 0.238 |
| Silver | ND | 0.119 | 0.0596 |
| Sodium | ND | 119 | 59.6 |
| Strontium | 9.36 | 0.596 | 0.298 |
| Thallium | 0.214 | 0.119 | 0.0596 |
| Tin | ND | 11.9 | 5.96 |
| Titanium | 1020 | 1.19 | 0.596 |
| Vanadium | 35.3 | 0.119 | 0.0596 |
| Zinc | 54.9 | 3.58 | 1.79 |
| Lithium | 26.7 | 2.38 | 1.19 |
| Phosphorus | 429 | 14.3 | 7.15 |
| Zirconium | ND | 5.96 | 2.98 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| SDG NO. : 12C273 | Date Extracted: 04/05/12 11:54 |
| Sample ID: MBLK1S | Date Analyzed: 04/10/12 21:02 |
| Lab Samp ID: IMD009SB | Dilution Factor: 1 |
| Lab File ID: 98D05019 | Matrix : SOIL |
| Ext Btch ID: IMD009S | % Moisture : NA |
| Calib. Ref.: 98D05017 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C273
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IMD009SB | IMD009SL | IMD009SC | | |
| LAB FILE ID: | 98D05019 | 98D05020 | 98D05021 | | |
| DATIME EXTRCTD: | 04/05/1211:54 | 04/05/1211:54 | 04/05/1211:54 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/10/1221:02 | 04/10/1221:07 | 04/10/1221:11 | DATE RECEIVED: | 04/05/12 |
| PREP. BATCH: | IMD009S | IMD009S | IMD009S | | |
| CALIB. REF: | 98D05017 | 98D05017 | 98D05017 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2520 | 101 | 2500 | 2590 | 104 | 3 | 80-120 | 20 |
| Antimony | ND | 25.0 | 24.3 | 97 | 25.0 | 25.0 | 100 | 3 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 23.7 | 95 | 25.0 | 24.1 | 96 | 2 | 80-120 | 20 |
| Barium | ND | 25.0 | 24.0 | 96 | 25.0 | 24.5 | 98 | 2 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 23.3 | 93 | 25.0 | 23.8 | 95 | 2 | 80-120 | 20 |
| Boron | ND | 25.0 | 23.6 | 94 | 25.0 | 24.1 | 97 | 2 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 23.7 | 95 | 25.0 | 24.2 | 97 | 2 | 80-120 | 20 |
| Calcium | ND | 2500 | 2560 | 102 | 2500 | 2580 | 103 | 1 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.3 | 97 | 25.0 | 24.5 | 98 | 1 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 23.3 | 93 | 25.0 | 23.9 | 96 | 3 | 80-120 | 20 |
| Copper | ND | 25.0 | 23.9 | 96 | 25.0 | 24.1 | 96 | 1 | 80-120 | 20 |
| Iron | ND | 2500 | 2520 | 101 | 2500 | 2550 | 102 | 1 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.4 | 102 | 25.0 | 25.6 | 102 | 1 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2550 | 102 | 2500 | 2610 | 104 | 2 | 80-120 | 20 |
| Manganese | ND | 25.0 | 23.9 | 96 | 25.0 | 24.3 | 97 | 2 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 23.9 | 96 | 25.0 | 24.7 | 99 | 3 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.0 | 96 | 25.0 | 24.2 | 97 | 1 | 80-120 | 20 |
| Potassium | ND | 2500 | 2620 | 105 | 2500 | 2610 | 104 | 1 | 80-120 | 20 |
| Selenium | ND | 25.0 | 23.1 | 92 | 25.0 | 23.9 | 96 | 4 | 80-120 | 20 |
| Silver | ND | 25.0 | 24.1 | 96 | 25.0 | 24.8 | 99 | 3 | 80-120 | 20 |
| Sodium | ND | 2500 | 2470 | 99 | 2500 | 2490 | 99 | 1 | 80-120 | 20 |
| Strontium | ND | 25.0 | 24.3 | 97 | 25.0 | 24.8 | 99 | 2 | 80-120 | 20 |
| Thallium | ND | 25.0 | 24.9 | 100 | 25.0 | 25.0 | 100 | 0 | 80-120 | 20 |
| Tin | ND | 25.0 | 26.6 | 107 | 25.0 | 27.2 | 109 | 2 | 80-120 | 20 |
| Titanium | ND | 25.0 | 24.2 | 97 | 25.0 | 25.0 | 100 | 3 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 24.3 | 97 | 25.0 | 24.5 | 98 | 1 | 80-120 | 20 |
| Zinc | ND | 25.0 | 23.2 | 93 | 50.0 | 23.9 | 96 | 3 | 80-120 | 20 |
| Lithium | ND | 25.0 | 24.8 | 99 | 25.0 | 25.0 | 100 | 1 | 80-120 | 20 |
| Phosphorus | ND | 250 | 242 | 97 | 250 | 246 | 98 | 2 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 24.9 | 100 | 25.0 | 25.2 | 101 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C273
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 14.6
DILTN FACTR: 0.971 0.971
SAMPLE ID: SL-092-NBZ-SS-0.0-0.5
CONTROL NO.: C305-05 C305-05A
LAB FILE ID: 98D05027 98D05026
DATIME EXTRCTD: 04/05/1211:54 04/05/1211:54 DATE COLLECTED: 03/29/12
DATIME ANALYZD: 04/10/1221:39 04/10/1221:34 DATE RECEIVED: 03/29/12
PREP. BATCH: IMD009S IMD009S
CALIB. REF: 98D05017 98D05017

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 12400 | 2840 | 15200 | 97 | 75-125 |
| Antimony | 0.215J | 28.4 | 28.6 | 100 | 75-125 |
| Arsenic | 4.10 | 28.4 | 30.6 | 93 | 75-125 |
| Barium | 83.6 | 28.4 | 113 | 103 | 75-125 |
| Beryllium | 0.457 | 28.4 | 27.1 | 94 | 75-125 |
| Boron | ND | 28.4 | 29.2 | 103 | 75-125 |
| Cadmium | 0.215 | 28.4 | 27.8 | 97 | 75-125 |
| Calcium | 2690 | 2840 | 5400 | 95 | 75-125 |
| Chromium | 16.3 | 28.4 | 42.1 | 91 | 75-125 |
| Cobalt | 4.36 | 28.4 | 28.8 | 86 | 75-125 |
| Copper | 6.33 | 28.4 | 31.1 | 87 | 75-125 |
| Iron | 17700 | 2840 | 20000 | 80 | 75-125 |
| Lead | 6.38 | 28.4 | 34.7 | 99 | 75-125 |
| Magnesium | 4310 | 2840 | 7150 | 100 | 75-125 |
| Manganese | 294 | 28.4 | 309 | 54* | 75-125 |
| Molybdenum | 0.458 | 28.4 | 29.1 | 101 | 75-125 |
| Nickel | 9.68 | 28.4 | 34.7 | 88 | 75-125 |
| Potassium | 2930 | 2840 | 5680 | 97 | 75-125 |
| Selenium | 0.228J | 28.4 | 26.7 | 93 | 75-125 |
| Silver | ND | 28.4 | 27.7 | 97 | 75-125 |
| Sodium | 81.8J | 2840 | 2720 | 93 | 75-125 |
| Strontium | 20.0 | 28.4 | 47.4 | 96 | 75-125 |
| Thallium | 0.212 | 28.4 | 28.4 | 99 | 75-125 |
| Tin | ND | 28.4 | 31.6 | 111 | 75-125 |
| Titanium | 858 | 28.4 | 874 | 54* | 75-125 |
| Vanadium | 31.3 | 28.4 | 57.2 | 91 | 75-125 |
| Zinc | 43.7 | 56.9 | 95.7 | 91 | 75-125 |
| Lithium | 30.1 | 28.4 | 58.4 | 100 | 75-125 |
| Phosphorus | 283 | 284 | 580 | 105 | 75-125 |
| Zirconium | ND | 28.4 | 27.2 | 96 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 14.6
DILUTION FACTOR: 0.971 4.85
SAMPLE ID: SL-092-NBZ-SS- SL-092-NBZ-SS-
EMAX SAMP ID: C305-05 C305-05J
LAB FILE ID: 98D05027 98D05031
DATE EXTRACTED: 04/05/1211:54 04/05/1211:54 DATE COLLECTED: 03/29/12
DATE ANALYZED: 04/10/1221:39 04/10/1221:58 DATE RECEIVED: 03/29/12
PREP. BATCH: IMD009S IMD009S
CALIB. REF: 98D05017 98D05029

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 12400 | 12700 | 2 | 10 |
| Antimony | 0.215J | ND | NA | 10 |
| Arsenic | 4.10 | 4.30 | 5 | 10 |
| Barium | 83.6 | 80.8 | 3 | 10 |
| Beryllium | 0.457 | 0.481J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.215 | ND | NA | 10 |
| Calcium | 2690 | 2840 | 6 | 10 |
| Chromium | 16.3 | 17.0 | 4 | 10 |
| Cobalt | 4.36 | 4.64 | 6 | 10 |
| Copper | 6.33 | 6.94 | 10 | 10 |
| Iron | 17700 | 18500 | 4 | 10 |
| Lead | 6.38 | 6.45 | 1 | 10 |
| Magnesium | 4310 | 4460 | 4 | 10 |
| Manganese | 294 | 312 | 6 | 10 |
| Molybdenum | 0.458 | 0.412J | NA | 10 |
| Nickel | 9.68 | 10.1 | 5 | 10 |
| Potassium | 2930 | 2910 | 1 | 10 |
| Selenium | 0.228J | ND | NA | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | 81.8J | ND | NA | 10 |
| Strontium | 20.0 | 19.4 | 3 | 10 |
| Thallium | 0.212 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 858 | 852 | 1 | 10 |
| Vanadium | 31.3 | 31.7 | 1 | 10 |
| Zinc | 43.7 | 49.6 | 13* | 10 |
| Lithium | 30.1 | 29.0 | 4 | 10 |
| Phosphorus | 283 | 296 | 4 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7470A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : WATER
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | HGD005WB | ND | 1 | NA | 0.000500 | 0.000100 | 04/03/1216:45 | 04/03/1211:30 | M47D002041 | M47D002032 | HGD005W | NA | 04/03/12 |
| LCS1W | HGD005WL | 0.00510 | 1 | NA | 0.000500 | 0.000100 | 04/03/1216:47 | 04/03/1211:30 | M47D002042 | M47D002032 | HGD005W | NA | 04/03/12 |
| LCD1W | HGD005WC | 0.00513 | 1 | NA | 0.000500 | 0.000100 | 04/03/1216:50 | 04/03/1211:30 | M47D002043 | M47D002032 | HGD005W | NA | 04/03/12 |
| EB-NBZ-SB-032712 | C273-01 | ND | 1 | NA | 0.000500 | 0.000100 | 04/03/1217:37 | 04/03/1211:30 | M47D002065 | M47D002056 | HGD005W | 03/27/12 | 03/27/12 |
| EB-NBZ-SS-032712 | C273-02 | ND | 1 | NA | 0.000500 | 0.000100 | 04/03/1217:40 | 04/03/1211:30 | M47D002066 | M47D002056 | HGD005W | 03/27/12 | 03/27/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C273
METHOD: METHOD 7470A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| CONTROL NO.: | HGD005WB | HGD005WL | HGD005WC | | |
| LAB FILE ID: | M47D002041 | M47D002042 | M47D002043 | | |
| DATIME EXTRCTD: | 04/03/1211:30 | 04/03/1211:30 | 04/03/1211:30 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/03/1216:45 | 04/03/1216:47 | 04/03/1216:50 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | HGD005W | HGD005W | HGD005W | | |
| CALIB. REF: | M47D002032 | M47D002032 | M47D002032 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/L | SPIKE AMT mg/L | BS RSLT mg/L | BS % REC | SPIKE AMT mg/L | BSD RSLT mg/L | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .005 | .0051 | 102 | .005 | .00513 | 103 | 1 | 80-120 | 20 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD001SB | ND | 1 | NA | 0.100 | 0.0500 | 04/03/1210:18 | 04/02/1217:30 | M47D001010 | M47D001008 | HGD001S | NA | 04/02/12 |
| LCS1S | HGD001SL | 0.863 | 1 | NA | 0.100 | 0.0500 | 04/03/1210:20 | 04/02/1217:30 | M47D001011 | M47D001008 | HGD001S | NA | 04/02/12 |
| LCD1S | HGD001SC | 0.858 | 1 | NA | 0.100 | 0.0500 | 04/03/1210:23 | 04/02/1217:30 | M47D001012 | M47D001008 | HGD001S | NA | 04/02/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | ND | 0.997 | 12.3 | 0.114 | 0.0568 | 04/03/1211:00 | 04/02/1217:30 | M47D001030 | M47D001020 | HGD001S | 03/27/12 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | ND | 1.00 | 17.1 | 0.121 | 0.0603 | 04/03/1211:03 | 04/02/1217:30 | M47D001031 | M47D001020 | HGD001S | 03/27/12 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | ND | 1.00 | 11.5 | 0.113 | 0.0565 | 04/03/1211:09 | 04/02/1217:30 | M47D001034 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | ND | 0.993 | 11.9 | 0.113 | 0.0564 | 04/03/1211:11 | 04/02/1217:30 | M47D001035 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | ND | 1.01 | 13.8 | 0.117 | 0.0586 | 04/03/1211:13 | 04/02/1217:30 | M47D001036 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09 | ND | 0.987 | 12.8 | 0.113 | 0.0566 | 04/03/1211:15 | 04/02/1217:30 | M47D001037 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | ND | 0.997 | 11.1 | 0.112 | 0.0561 | 04/03/1211:17 | 04/02/1217:30 | M47D001038 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | ND | 1.01 | 20.0 | 0.126 | 0.0631 | 04/03/1211:20 | 04/02/1217:30 | M47D001039 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | ND | 0.992 | 16.1 | 0.118 | 0.0591 | 04/03/1211:22 | 04/02/1217:30 | M47D001040 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C273
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGD001SB | HGD001SL | HGD001SC | | |
| LAB FILE ID: | M47D001010 | M47D001011 | M47D001012 | | |
| DATIME EXTRCTD: | 04/02/1217:30 | 04/02/1217:30 | 04/02/1217:30 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/03/1210:18 | 04/03/1210:20 | 04/03/1210:23 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | HGD001S | HGD001S | HGD001S | | |
| CALIB. REF: | M47D001008 | M47D001008 | M47D001008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .863 | 104 | .833 | .858 | 103 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C273
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 11.6
DILTN FACTR: 1.00 1.00
SAMPLE ID: AABS1111S001
CONTROL NO.: C278-03 C278-03A
LAB FILE ID: M47D001014 M47D001013
DATIME EXTRCTD: 04/02/1217:30 04/02/1217:30 DATE COLLECTED: 03/27/12
DATIME ANALYZD: 04/03/1210:27 04/03/1210:25 DATE RECEIVED: 03/28/12
PREP. BATCH: HGD001S HGD001S
CALIB. REF: M47D001008 M47D001008

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .942 | .982 | 104 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 11.6

| | | | | |
|---|---|---|---|---|
| DILUTION FACTOR: | 1.00 | 5.00 | | |
| SAMPLE ID: | AABS1111S001 | AABS1111S001DL | | |
| EMAX SAMP ID: | C278-03 | C278-03J | | |
| LAB FILE ID: | M47D001014 | M47D001015 | | |
| DATE EXTRACTED: | 04/02/1217:30 | 04/02/1217:30 | DATE COLLECTED: | 03/27/12 |
| DATE ANALYZED: | 04/03/1210:27 | 04/03/1210:29 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | HGD001S | HGD001S | | |
| CALIB. REF: | M47D001008 | M47D001008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273
Matrix : WATER
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | ICC057WB | ND | 1 | NA | 0.443 | 0.222 | 03/28/1212:17 | NA | AC37-03 | AC37-01 | ICC057W | NA | NA |
| LCS1W | ICC057WL | 8.11 | 1 | NA | 0.443 | 0.222 | 03/28/1212:33 | NA | AC37-04 | AC37-01 | ICC057W | NA | NA |
| LCD1W | ICC057WC | 8.12 | 1 | NA | 0.443 | 0.222 | 03/28/1212:49 | NA | AC37-05 | AC37-01 | ICC057W | NA | NA |
| EB-NBZ-SB-032712 | C273-01 | ND | 1 | NA | 0.443 | 0.222 | 03/28/1213:06 | NA | AC37-06 | AC37-01 | ICC057W | 03/27/1215:00 | 03/27/12 |
| EB-NBZ-SS-032712 | C273-02 | 0.490 | 1 | NA | 0.443 | 0.222 | 03/28/1213:22 | NA | AC37-07 | AC37-01 | ICC057W | 03/27/1215:30 | 03/27/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | ICC057WB | ICC057WL | ICC057WC | | |
| LAB FILE ID: | AC37-03 | AC37-04 | AC37-05 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/28/1212:17 | 03/28/1212:33 | 03/28/1212:49 | DATE RECEIVED: | NA |
| PREP. BATCH: | ICC057W | ICC057W | ICC057W | | |
| CALIB. REF: | AC37-01 | AC37-01 | AC37-01 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 8.86 | 8.11 | 91 | 8.86 | 8.12 | 92 | 0 | 90-110 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCS1S | ICC009SL | 26.1 | 1 | NA | 1.50 | 0.750 | 03/31/1200:14 | 03/29/1217:10 | AC39-142 | AC39-138 | ICC009S | NA | 03/29/12 |
| LCD1S | ICC009SC | 26.0 | 1 | NA | 1.50 | 0.750 | 03/31/1200:30 | 03/29/1217:10 | AC39-143 | AC39-138 | ICC009S | NA | 03/29/12 |
| MBLK1S | ICC009SB | ND | 1 | NA | 1.50 | 0.750 | 03/31/1200:46 | 03/29/1217:10 | AC39-144 | AC39-138 | ICC009S | NA | 03/29/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | 1.63J | 1 | 12.3 | 1.71 | 0.855 | 03/31/1201:35 | 03/29/1217:10 | AC39-147 | AC39-145 | ICC009S | 03/27/1214:35 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | 2.49 | 1 | 17.1 | 1.81 | 0.905 | 03/31/1201:51 | 03/29/1217:10 | AC39-148 | AC39-145 | ICC009S | 03/27/1211:10 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | 8.71 | 1 | 11.5 | 1.69 | 0.847 | 03/31/1202:07 | 03/29/1217:10 | AC39-149 | AC39-145 | ICC009S | 03/27/1209:40 | 03/27/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC009SB | ICC009SL | ICC009SC | | |
| LAB FILE ID: | AC39-144 | AC39-142 | AC39-143 | | |
| DATE EXTRACTED: | 03/29/1217:10 | 03/29/1217:10 | 03/29/1217:10 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/31/1200:46 | 03/31/1200:14 | 03/31/1200:30 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | ICC009S | ICC009S | ICC009S | | |
| CALIB. REF: | AC39-138 | AC39-138 | AC39-138 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 26.1 | 98 | 26.6 | 26.0 | 98 | 0 | 90-110 | 20 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : WATER
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | ICC057WB | ND | 1 | NA | 0.100 | 0.0500 | 03/28/1212:17 | NA | AC37-03 | AC37-01 | ICC057W | NA | NA |
| LCS1W | ICC057WL | 1.91 | 1 | NA | 0.100 | 0.0500 | 03/28/1212:33 | NA | AC37-04 | AC37-01 | ICC057W | NA | NA |
| LCD1W | ICC057WC | 1.91 | 1 | NA | 0.100 | 0.0500 | 03/28/1212:49 | NA | AC37-05 | AC37-01 | ICC057W | NA | NA |
| EB-NBZ-SB-032712 | C273-01 | ND | 1 | NA | 0.100 | 0.0500 | 03/28/1213:06 | NA | AC37-06 | AC37-01 | ICC057W | 03/27/1215:00 | 03/27/12 |
| EB-NBZ-SS-032712 | C273-02 | ND | 1 | NA | 0.100 | 0.0500 | 03/28/1213:22 | NA | AC37-07 | AC37-01 | ICC057W | 03/27/1215:30 | 03/27/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | ICC057WB | ICC057WL | ICC057WC | | |
| LAB FILE ID: | AC37-03 | AC37-04 | AC37-05 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/28/1212:17 | 03/28/1212:33 | 03/28/1212:49 | DATE RECEIVED: | NA |
| PREP. BATCH: | ICC057W | ICC057W | ICC057W | | |
| CALIB. REF: | AC37-01 | AC37-01 | AC37-01 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 2.00 | 1.91 | 95 | 2.00 | 1.91 | 96 | 0 | 90-110 | 20 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCS1S | ICC009SL | 5.89 | 1 | NA | 1.00 | 0.500 | 03/31/1200:14 | 03/29/1217:10 | AC39-142 | AC39-138 | ICC009S | NA | 03/29/12 |
| LCD1S | ICC009SC | 5.86 | 1 | NA | 1.00 | 0.500 | 03/31/1200:30 | 03/29/1217:10 | AC39-143 | AC39-138 | ICC009S | NA | 03/29/12 |
| MBLK1S | ICC009SB | ND | 1 | NA | 1.00 | 0.500 | 03/31/1200:46 | 03/29/1217:10 | AC39-144 | AC39-138 | ICC009S | NA | 03/29/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | 1.40 | 1 | 12.3 | 1.14 | 0.570 | 03/31/1201:35 | 03/29/1217:10 | AC39-147 | AC39-145 | ICC009S | 03/27/1214:35 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | 0.860J | 1 | 17.1 | 1.21 | 0.603 | 03/31/1201:51 | 03/29/1217:10 | AC39-148 | AC39-145 | ICC009S | 03/27/1211:10 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | ND | 1 | 11.5 | 1.13 | 0.565 | 03/31/1202:07 | 03/29/1217:10 | AC39-149 | AC39-145 | ICC009S | 03/27/1209:40 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | ND | 1 | 11.9 | 1.14 | 0.568 | 03/31/1202:23 | 03/29/1217:10 | AC39-150 | AC39-145 | ICC009S | 03/27/1210:17 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | ND | 1 | 13.8 | 1.16 | 0.580 | 03/31/1202:39 | 03/29/1217:10 | AC39-151 | AC39-145 | ICC009S | 03/27/1213:55 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09 | 1.61 | 1 | 12.8 | 1.15 | 0.573 | 03/31/1202:55 | 03/29/1217:10 | AC39-152 | AC39-145 | ICC009S | 03/27/1214:55 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | ND | 1 | 11.1 | 1.12 | 0.562 | 03/31/1203:12 | 03/29/1217:10 | AC39-153 | AC39-145 | ICC009S | 03/27/1210:50 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | ND | 1 | 20.0 | 1.25 | 0.625 | 03/31/1203:28 | 03/29/1217:10 | AC39-154 | AC39-145 | ICC009S | 03/27/1214:35 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | ND | 1 | 16.1 | 1.19 | 0.596 | 03/31/1203:44 | 03/29/1217:10 | AC39-155 | AC39-145 | ICC009S | 03/27/1210:20 | 03/27/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICC009SB | ICC009SL | ICC009SC | | |
| LAB FILE ID: | AC39-144 | AC39-142 | AC39-143 | | |
| DATE EXTRACTED: | 03/29/1217:10 | 03/29/1217:10 | 03/29/1217:10 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/31/1200:46 | 03/31/1200:14 | 03/31/1200:30 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | ICC009S | ICC009S | ICC009S | | |
| CALIB. REF: | AC39-138 | AC39-138 | AC39-138 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 5.89 | 98 | 6.00 | 5.86 | 98 | 0 | 90-110 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : WATER
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | PCD001WB | ND | 1 | NA | 2.00 | 1.00 | 04/03/1214:43 | NA | JD04002 | JD04001 | PCD001W | NA | NA |
| LCS1W | PCD001WL | 24.9 | 1 | NA | 2.00 | 1.00 | 04/03/1215:25 | NA | JD04004 | JD04001 | PCD001W | NA | NA |
| LCD1W | PCD001WC | 25.1 | 1 | NA | 2.00 | 1.00 | 04/03/1215:46 | NA | JD04005 | JD04001 | PCD001W | NA | NA |
| EB-NBZ-SB-032712 | C273-01 | ND | 1 | NA | 2.00 | 1.00 | 04/03/1220:22 | NA | JD04016 | JD04012 | PCD001W | 03/27/1215:00 | 03/27/12 |
| EB-NBZ-SS-032712 | C273-02 | ND | 1 | NA | 2.00 | 1.00 | 04/03/1220:43 | NA | JD04017 | JD04012 | PCD001W | 03/27/1215:30 | 03/27/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | PCD001WB | PCD001WL | PCD001WC | | |
| LAB FILE ID: | JD04002 | JD04004 | JD04005 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1214:43 | 04/03/1215:25 | 04/03/1215:46 | DATE RECEIVED: | NA |
| PREP. BATCH: | PCD001W | PCD001W | PCD001W | | |
| CALIB. REF: | JD04001 | JD04001 | JD04001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 25.0 | 24.9 | 100 | 25.0 | 25.1 | 100 | 1 | 85-115 | 15 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD004SB | ND | 1 | NA | 20.0 | 10.0 | 04/05/1204:49 | 04/02/1215:30 | JD05029 | JD05028 | PCD004S | NA | 04/02/12 |
| LCS1S | PCD004SL | 272 | 1 | NA | 20.0 | 10.0 | 04/05/1205:31 | 04/02/1215:30 | JD05031 | JD05028 | PCD004S | NA | 04/02/12 |
| LCD1S | PCD004SC | 271 | 1 | NA | 20.0 | 10.0 | 04/05/1205:52 | 04/02/1215:30 | JD05032 | JD05028 | PCD004S | NA | 04/02/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | ND | 1 | 12.3 | 22.8 | 11.4 | 04/05/1206:13 | 04/02/1215:30 | JD05033 | JD05028 | PCD004S | 03/27/1214:35 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | ND | 1 | 17.1 | 24.1 | 12.1 | 04/05/1206:34 | 04/02/1215:30 | JD05034 | JD05028 | PCD004S | 03/27/1211:10 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | ND | 1 | 11.5 | 22.6 | 11.3 | 04/05/1206:55 | 04/02/1215:30 | JD05035 | JD05028 | PCD004S | 03/27/1209:40 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | ND | 1 | 11.9 | 22.7 | 11.4 | 04/05/1207:16 | 04/02/1215:30 | JD05036 | JD05028 | PCD004S | 03/27/1210:17 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | ND | 1 | 13.8 | 23.2 | 11.6 | 04/05/1207:37 | 04/02/1215:30 | JD05037 | JD05028 | PCD004S | 03/27/1213:55 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | ND | 1 | 11.1 | 22.5 | 11.2 | 04/05/1209:01 | 04/02/1215:30 | JD05041 | JD05039 | PCD004S | 03/27/1210:50 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | ND | 1 | 20.0 | 25.0 | 12.5 | 04/05/1209:22 | 04/02/1215:30 | JD05042 | JD05039 | PCD004S | 03/27/1214:35 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | ND | 1 | 16.1 | 23.8 | 11.9 | 04/05/1209:43 | 04/02/1215:30 | JD05043 | JD05039 | PCD004S | 03/27/1210:20 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09W | ND | 1 | 12.8 | 22.9 | 11.5 | 04/05/1214:13 | 04/02/1215:30 | JD05053 | JD05052 | PCD004S | 03/27/1214:55 | 03/27/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD004SB | PCD004SL | PCD004SC | | |
| LAB FILE ID: | JD05029 | JD05031 | JD05032 | | |
| DATE EXTRACTED: | 04/02/1215:30 | 04/02/1215:30 | 04/02/1215:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/05/1204:49 | 04/05/1205:31 | 04/05/1205:52 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | PCD004S | PCD004S | PCD004S | | |
| CALIB. REF: | JD05028 | JD05028 | JD05028 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 272 | 109 | 250 | 271 | 108 | 0 | 85-115 | 15 |

METHOD 6850
PERCHLORATE BY LC/MS

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273
Matrix : SOIL
Instrument ID : G0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PLC003SB | ND | 1 | NA | 5.00 | 2.50 | 03/30/1208:01 | 03/29/1216:32 | NC30004 | NC30003 | PLC003S | NA | 03/29/12 |
| LCS1S | PLC003SL | 22.6 | 1 | NA | 5.00 | 2.50 | 03/30/1208:15 | 03/29/1216:32 | NC30005 | NC30003 | PLC003S | NA | 03/29/12 |
| LCD1S | PLC003SC | 22.9 | 1 | NA | 5.00 | 2.50 | 03/30/1208:29 | 03/29/1216:32 | NC30006 | NC30003 | PLC003S | NA | 03/29/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | ND | 1 | 11.9 | 5.68 | 2.84 | 03/30/1209:40 | 03/29/1216:32 | NC30011 | NC30003 | PLC003S | 03/27/1210:17 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | ND | 1 | 13.8 | 5.80 | 2.90 | 03/30/1209:54 | 03/29/1216:32 | NC30012 | NC30003 | PLC003S | 03/27/1213:55 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09 | ND | 1 | 12.8 | 5.73 | 2.87 | 03/30/1210:09 | 03/29/1216:32 | NC30013 | NC30003 | PLC003S | 03/27/1214:55 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | ND | 1 | 11.1 | 5.62 | 2.81 | 03/30/1210:37 | 03/29/1216:32 | NC30015 | NC30014 | PLC003S | 03/27/1210:50 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | ND | 1 | 20.0 | 6.25 | 3.12 | 03/30/1210:51 | 03/29/1216:32 | NC30016 | NC30014 | PLC003S | 03/27/1214:35 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | ND | 1 | 16.1 | 5.96 | 2.98 | 03/30/1211:05 | 03/29/1216:32 | NC30017 | NC30014 | PLC003S | 03/27/1210:20 | 03/27/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: METHOD 6850

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PLC003SB | PLC003SL | PLC003SC | | |
| LAB FILE ID: | NC30004 | NC30005 | NC30006 | | |
| DATE EXTRACTED: | 03/29/1216:32 | 03/29/1216:32 | 03/29/1216:32 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1208:01 | 03/30/1208:15 | 03/30/1208:29 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | PLC003S | PLC003S | PLC003S | | |
| CALIB. REF: | NC30003 | NC30003 | NC30003 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 25.0 | 22.6 | 90 | 25.0 | 22.9 | 92 | 1 | 85-115 | 15 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273
Matrix : WATER
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | HCC019WB | ND | 1 | NA | 0.200 | 0.100 | 03/28/1210:39 | NA | IC30003 | IC30001 | HCC019W | NA | NA |
| MBLK1W | HCC019WQ | ND | 1 | NA | 0.200 | 0.100 | 03/28/1210:50 | NA | IC30004 | IC30001 | HCC019W | NA | NA |
| LCS1W | HCC019WL | 2.16 | 1 | NA | 0.200 | 0.100 | 03/28/1211:42 | NA | IC30009 | IC30001 | HCC019W | NA | NA |
| LCS1W | HCC019WX | 2.00 | 1 | NA | 0.200 | 0.100 | 03/28/1211:52 | NA | IC30010 | IC30001 | HCC019W | NA | NA |
| LCD1W | HCC019WC | 1.91 | 1 | NA | 0.200 | 0.100 | 03/28/1212:03 | NA | IC30011 | IC30001 | HCC019W | NA | NA |
| LCD1W | HCC019WY | 2.23 | 1 | NA | 0.200 | 0.100 | 03/28/1212:13 | NA | IC30012 | IC30001 | HCC019W | NA | NA |
| EB-NBZ-SB-032712 | C273-01 | ND | 1 | NA | 0.200 | 0.100 | 03/28/1211:00 | NA | IC30005 | IC30001 | HCC019W | 03/27/1215:00 | 03/27/12 |
| EB-NBZ-SB-032712 | C273-01R | ND | 1 | NA | 0.200 | 0.100 | 03/28/1211:11 | NA | IC30006 | IC30001 | HCC019W | 03/27/1215:00 | 03/27/12 |
| EB-NBZ-SS-032712 | C273-02 | ND | 1 | NA | 0.200 | 0.100 | 03/28/1211:21 | NA | IC30007 | IC30001 | HCC019W | 03/27/1215:30 | 03/27/12 |
| EB-NBZ-SS-032712 | C273-02R | ND | 1 | NA | 0.200 | 0.100 | 03/28/1211:31 | NA | IC30008 | IC30001 | HCC019W | 03/27/1215:30 | 03/27/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: 7199

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HCC019WQ | HCC019WX | HCC019WY | | |
| LAB FILE ID: | IC30004 | IC30010 | IC30012 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/28/1210:50 | 03/28/1211:52 | 03/28/1212:13 | DATE RECEIVED: | NA |
| PREP. BATCH: | HCC019W | HCC019W | HCC019W | | |
| CALIB. REF: | IC30001 | IC30001 | IC30001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 2.00 | 2.00 | 100 | 2.00 | 2.23 | 111 | 11 | 80-120 | 20 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD001SB | ND | 1 | NA | 1.00 | 0.500 | 04/02/1218:11 | 04/02/1214:09 | ID02003 | ID02001 | HCD001S | NA | 04/02/12 |
| MBLK1S | HCD001SQ | ND | 1 | NA | 1.00 | 0.500 | 04/02/1218:21 | 04/02/1214:09 | ID02004 | ID02001 | HCD001S | NA | 04/02/12 |
| LCS1S | CSD001SL | 10.0 | 1 | NA | 1.00 | 0.500 | 04/02/1218:31 | 04/02/1214:09 | ID02005 | ID02001 | HCD001S | NA | 04/02/12 |
| LCS1S | CSD001SX | 10.0 | 1 | NA | 1.00 | 0.500 | 04/02/1218:42 | 04/02/1214:09 | ID02006 | ID02001 | HCD001S | NA | 04/02/12 |
| LCS2S | CID001SL | 206 | 10 | NA | 10.0 | 5.00 | 04/02/1219:03 | 04/02/1214:09 | ID02007 | ID02001 | HCD001S | NA | 04/02/12 |
| LCS2S | CID001SX | 213 | 10 | NA | 10.0 | 5.00 | 04/02/1219:13 | 04/02/1214:09 | ID02008 | ID02001 | HCD001S | NA | 04/02/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | ND | 1 | 12.3 | 1.14 | 0.570 | 04/02/1220:57 | 04/02/1214:09 | ID02017 | ID02013 | HCD001S | 03/27/1214:35 | 03/27/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04R | ND | 1 | 12.3 | 1.14 | 0.570 | 04/02/1221:07 | 04/02/1214:09 | ID02018 | ID02013 | HCD001S | 03/27/1214:35 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | ND | 1 | 17.1 | 1.21 | 0.603 | 04/02/1221:18 | 04/02/1214:09 | ID02019 | ID02013 | HCD001S | 03/27/1211:10 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05R | ND | 1 | 17.1 | 1.21 | 0.603 | 04/02/1221:28 | 04/02/1214:09 | ID02020 | ID02013 | HCD001S | 03/27/1211:10 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | ND | 1 | 11.5 | 1.13 | 0.565 | 04/02/1221:39 | 04/02/1214:09 | ID02021 | ID02013 | HCD001S | 03/27/1209:40 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06R | ND | 1 | 11.5 | 1.13 | 0.565 | 04/02/1221:49 | 04/02/1214:09 | ID02022 | ID02013 | HCD001S | 03/27/1209:40 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | ND | 1 | 11.9 | 1.14 | 0.568 | 04/02/1221:59 | 04/02/1214:09 | ID02023 | ID02013 | HCD001S | 03/27/1210:17 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07R | ND | 1 | 11.9 | 1.14 | 0.568 | 04/02/1222:10 | 04/02/1214:09 | ID02024 | ID02013 | HCD001S | 03/27/1210:17 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | ND | 1 | 13.8 | 1.16 | 0.580 | 04/02/1222:51 | 04/02/1214:09 | ID02027 | ID02025 | HCD001S | 03/27/1213:55 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08R | ND | 1 | 13.8 | 1.16 | 0.580 | 04/02/1223:02 | 04/02/1214:09 | ID02028 | ID02025 | HCD001S | 03/27/1213:55 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09 | ND | 1 | 12.8 | 1.15 | 0.573 | 04/02/1223:12 | 04/02/1214:09 | ID02029 | ID02025 | HCD001S | 03/27/1214:55 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09R | ND | 1 | 12.8 | 1.15 | 0.573 | 04/02/1223:23 | 04/02/1214:09 | ID02030 | ID02025 | HCD001S | 03/27/1214:55 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | ND | 1 | 11.1 | 1.12 | 0.562 | 04/02/1223:33 | 04/02/1214:09 | ID02031 | ID02025 | HCD001S | 03/27/1210:50 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10R | ND | 1 | 11.1 | 1.12 | 0.562 | 04/02/1223:43 | 04/02/1214:09 | ID02032 | ID02025 | HCD001S | 03/27/1210:50 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | ND | 1 | 20.0 | 1.25 | 0.625 | 04/02/1223:54 | 04/02/1214:09 | ID02033 | ID02025 | HCD001S | 03/27/1214:35 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11R | ND | 1 | 20.0 | 1.25 | 0.625 | 04/03/1200:04 | 04/02/1214:09 | ID02034 | ID02025 | HCD001S | 03/27/1214:35 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | ND | 1 | 16.1 | 1.19 | 0.596 | 04/03/1200:15 | 04/02/1214:09 | ID02035 | ID02025 | HCD001S | 03/27/1210:20 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12R | ND | 1 | 16.1 | 1.19 | 0.596 | 04/03/1200:25 | 04/02/1214:09 | ID02036 | ID02025 | HCD001S | 03/27/1210:20 | 03/27/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 10
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD001SQ CID001SX
LAB FILE ID: ID02004 ID02008
DATE EXTRACTED: 04/02/1214:09 04/02/1214:09 DATE COLLECTED: NA
DATE ANALYZED: 04/02/1218:21 04/02/1219:13 DATE RECEIVED: 04/02/12
PREP. BATCH: HCD001S HCD001S
CALIB. REF: ID02001 ID02001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 232 | 213 | 91 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C273
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD001SQ | CSD001SX | | |
| LAB FILE ID: | ID02004 | ID02006 | | |
| DATE EXTRACTED: | 04/02/1214:09 | 04/02/1214:09 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/02/1218:21 | 04/02/1218:42 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | HCD001S | HCD001S | | |
| CALIB. REF: | ID02001 | ID02001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 9.99 | 100 | 80-120 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : WATER
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | CNC014WB | ND | 1 | NA | 0.0100 | 0.00500 | 03/30/1218:22 | 03/30/1213:05 | CNC01410 | CNC01408 | CNC014W | NA | 03/30/12 |
| LCS1W | CNC014WL | 0.0889 | 1 | NA | 0.0100 | 0.00500 | 03/30/1218:22 | 03/30/1213:05 | CNC01411 | CNC01408 | CNC014W | NA | 03/30/12 |
| LCD1W | CNC014WC | 0.0873 | 1 | NA | 0.0100 | 0.00500 | 03/30/1218:22 | 03/30/1213:05 | CNC01412 | CNC01408 | CNC014W | NA | 03/30/12 |
| EB-NBZ-SB-032712 | C273-01 | ND | 1 | NA | 0.0100 | 0.00500 | 03/30/1218:23 | 03/30/1213:05 | CNC01415 | CNC01408 | CNC014W | 03/27/1215:00 | 03/27/12 |
| EB-NBZ-SS-032712 | C273-02 | ND | 1 | NA | 0.0100 | 0.00500 | 03/30/1218:23 | 03/30/1213:05 | CNC01416 | CNC01408 | CNC014W | 03/27/1215:30 | 03/27/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 12C273
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: CNC014WL/C

DATE RECEIVED: 03/30/12
DATE EXTRACTED: 03/30/12 13:05
DATE ANALYZED: 03/30/12 18:22/18:22

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 0.100 | 0.0889 | 89 | 0.100 | 0.0873 | 87 | 2 | 85-115 | 20 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CND003SB | ND | 1 | NA | 0.500 | 0.250 | 04/06/1217:46 | 04/06/1211:00 | CND00310 | CND00308 | CND003S | NA | 04/06/12 |
| LCS1S | CND003SL | 2.34 | 1 | NA | 0.500 | 0.250 | 04/06/1217:46 | 04/06/1211:00 | CND00311 | CND00308 | CND003S | NA | 04/06/12 |
| LCD1S | CND003SC | 2.30 | 1 | NA | 0.500 | 0.250 | 04/06/1217:46 | 04/06/1211:00 | CND00312 | CND00308 | CND003S | NA | 04/06/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | ND | 1 | 12.3 | 0.570 | 0.285 | 04/06/1217:47 | 04/06/1211:00 | CND00313 | CND00308 | CND003S | 03/27/1214:35 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | ND | 1 | 17.1 | 0.603 | 0.302 | 04/06/1217:47 | 04/06/1211:00 | CND00314 | CND00308 | CND003S | 03/27/1211:10 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | ND | 1 | 11.5 | 0.565 | 0.282 | 04/06/1217:47 | 04/06/1211:00 | CND00315 | CND00308 | CND003S | 03/27/1209:40 | 03/27/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C273
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CND003SL/C

DATE RECEIVED: 04/06/12
DATE EXTRACTED: 04/06/12 11:00
DATE ANALYZED: 04/06/12 17:46/17:46

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.34 | 94 | 2.50 | 2.30 | 92 | 2 | 85-125 | 20 |

METHOD 9040C
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273
Matrix : WATER
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EB-NBZ-SB-032712 | C273-01 | 5.67 | 1 | NA | ND | ND | 03/28/1209:58 | NA | 12PHC024W01 | 12PHC024W | 12PHC024W | 03/27/1215:00 | 03/27/12 |
| EB-NBZ-SS-032712 | C273-02 | 5.05 | 1 | NA | ND | ND | 03/28/1210:00 | NA | 12PHC024W02 | 12PHC024W | 12PHC024W | 03/27/1215:30 | 03/27/12 |
| EB-NBZ-SS-032712DUP | C273-02D | 5.05 | 1 | NA | ND | ND | 03/28/1210:01 | NA | 12PHC024W03 | 12PHC024W | 12PHC024W | 03/27/1215:30 | 03/27/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9040C
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 12C273 DATE RECEIVED: 03/27/12
SAMPLE ID: EB-NBZ-SS-032712DUP DATE EXTRACTED: NA
CONTROL NO.: C273-02D DATE ANALYZED: 03/28/12 10:01

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | QC LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 5.05 | 5.05 | 0 | 0.1 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | 7.32 | 1 | 12.3 | ND | ND | 03/29/1218:20 | 03/29/1218:20 | 12PHC027S01 | 12PHC027S | 12PHC027S | 03/27/1214:35 | 03/27/12 |
| SL-039-NBZ-SB-2.0-3.0DUP | C273-04D | 7.29 | 1 | 12.3 | ND | ND | 03/29/1218:20 | 03/29/1218:20 | 12PHC027S02 | 12PHC027S | 12PHC027S | 03/27/1214:35 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | 7.48 | 1 | 17.1 | ND | ND | 03/29/1218:23 | 03/29/1218:20 | 12PHC027S03 | 12PHC027S | 12PHC027S | 03/27/1211:10 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | 6.66 | 1 | 11.5 | ND | ND | 03/29/1218:25 | 03/29/1218:20 | 12PHC027S04 | 12PHC027S | 12PHC027S | 03/27/1209:40 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | 6.57 | 1 | 11.9 | ND | ND | 03/29/1218:27 | 03/29/1218:20 | 12PHC027S05 | 12PHC027S | 12PHC027S | 03/27/1210:17 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | 6.27 | 1 | 13.8 | ND | ND | 03/29/1218:28 | 03/29/1218:20 | 12PHC027S06 | 12PHC027S | 12PHC027S | 03/27/1213:55 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09 | 7.56 | 1 | 12.8 | ND | ND | 03/29/1218:32 | 03/29/1218:20 | 12PHC027S07 | 12PHC027S | 12PHC027S | 03/27/1214:55 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | 6.42 | 1 | 11.1 | ND | ND | 03/29/1218:34 | 03/29/1218:20 | 12PHC027S08 | 12PHC027S | 12PHC027S | 03/27/1210:50 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | 7.54 | 1 | 20.0 | ND | ND | 03/29/1218:36 | 03/29/1218:20 | 12PHC027S09 | 12PHC027S | 12PHC027S | 03/27/1214:35 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | 6.47 | 1 | 16.1 | ND | ND | 03/29/1218:38 | 03/29/1218:20 | 12PHC027S10 | 12PHC027S | 12PHC027S | 03/27/1210:20 | 03/27/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C273 DATE RECEIVED: 03/27/12
SAMPLE ID: SL-039-NBZ-SB-2.0-3.0DUP DATE EXTRACTED: 03/29/12 18:20
CONTROL NO.: C273-04D DATE ANALYZED: 03/29/12 18:20

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | QC LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 7.32 | 7.29 | 0.03 | 0.1 |

# SAMPLE DELIVERY GROUP

# 12C285

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-040-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 17:40 |
| Lab Samp ID: C285-01 | Dilution Factor: 1 |
| Lab File ID: RDH127 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 11.1 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 750 | 380 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1160 | 1125 | 103 | 35-130 |
| 2-FLUOROBIPHENYL | 215 | 374.9 | 57.4 | 45-130 |
| 2-FLUOROPHENOL | 645 | 1125 | 57.3 | 25-130 |
| NITROBENZENE-D5 | 187 | 374.9 | 49.9 | 40-130 |
| PHENOL-D5 | 743 | 1125 | 66.0 | 25-120 |
| TERPHENYL-D14 | 286 | 374.9 | 76.3 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-094-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 17:59 |
| Lab Samp ID: C285-02 | Dilution Factor: 1 |
| Lab File ID: RDH128 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 13.2 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 97 |
| 1,2-DICHLOROBENZENE | ND | 190 | 97 |
| 1,3-DICHLOROBENZENE | ND | 190 | 97 |
| 1,4-DICHLOROBENZENE | ND | 190 | 97 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 97 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 97 |
| 2,6-DINITROTOLUENE | ND | 190 | 97 |
| 2-CHLORONAPHTHALENE | ND | 190 | 97 |
| 2-CHLOROPHENOL | ND | 190 | 97 |
| 2-METHYLNAPHTHALENE | ND | 190 | 97 |
| 2-METHYLPHENOL | ND | 190 | 97 |
| 2-NITROANILINE | ND | 190 | 97 |
| 2-NITROPHENOL | ND | 190 | 97 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 97 |
| 3-NITROANILINE | ND | 190 | 97 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 97 |
| 4-CHLOROANILINE | ND | 190 | 97 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-METHYLPHENOL (1) | ND | 190 | 97 |
| 4-NITROANILINE | ND | 190 | 97 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 97 |
| ACENAPHTHYLENE | ND | 190 | 97 |
| ANTHRACENE | ND | 190 | 97 |
| BENZO(A)ANTHRACENE | ND | 190 | 97 |
| BENZO(A)PYRENE | ND | 190 | 97 |
| BENZO(B)FLUORANTHENE | ND | 190 | 97 |
| BENZO(K)FLUORANTHENE | ND | 190 | 97 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 97 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 97 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 97 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 97 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 97 |
| CHRYSENE | ND | 190 | 97 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 97 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 97 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 97 |
| DIBENZOFURAN | ND | 190 | 97 |
| DIETHYLPHTHALATE | ND | 190 | 97 |
| DIMETHYLPHTHALATE | ND | 190 | 97 |
| FLUORANTHENE | ND | 190 | 97 |
| FLUORENE | ND | 190 | 97 |
| HEXACHLOROBENZENE | ND | 190 | 97 |
| HEXACHLOROBUTADIENE | ND | 190 | 97 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 97 |
| HEXACHLOROETHANE | ND | 190 | 97 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 97 |
| ISOPHORONE | ND | 190 | 97 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 97 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 97 |
| NAPHTHALENE | ND | 190 | 97 |
| NITROBENZENE | ND | 190 | 97 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 97 |
| PHENOL | ND | 190 | 97 |
| PYRENE | ND | 190 | 97 |
| BENZYL ALCOHOL | ND | 190 | 97 |
| 1-METHYLNAPHTHALENE | ND | 190 | 97 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 97 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 97 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 960 | 480 |
| BENZOIC ACID | ND | 770 | 380 |
| CARBAZOLE | ND | 190 | 97 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 97 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1390 | 1152 | 120 | 35-130 |
| 2-FLUOROBIPHENYL | 242 | 384.0 | 62.9 | 45-130 |
| 2-FLUOROPHENOL | 732 | 1152 | 63.6 | 25-130 |
| NITROBENZENE-D5 | 241 | 384.0 | 62.8 | 40-130 |
| PHENOL-D5 | 846 | 1152 | 73.4 | 25-120 |
| TERPHENYL-D14 | 297 | 384.0 | 77.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-096-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 18:17 |
| Lab Samp ID: C285-03 | Dilution Factor: 1 |
| Lab File ID: RDH129 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 13.7 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 97 |
| 1,2-DICHLOROBENZENE | ND | 190 | 97 |
| 1,3-DICHLOROBENZENE | ND | 190 | 97 |
| 1,4-DICHLOROBENZENE | ND | 190 | 97 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 97 |
| 2,4-DINITROPHENOL | ND | 390 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 97 |
| 2,6-DINITROTOLUENE | ND | 190 | 97 |
| 2-CHLORONAPHTHALENE | ND | 190 | 97 |
| 2-CHLOROPHENOL | ND | 190 | 97 |
| 2-METHYLNAPHTHALENE | ND | 190 | 97 |
| 2-METHYLPHENOL | ND | 190 | 97 |
| 2-NITROANILINE | ND | 190 | 97 |
| 2-NITROPHENOL | ND | 190 | 97 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 97 |
| 3-NITROANILINE | ND | 190 | 97 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 97 |
| 4-CHLOROANILINE | ND | 190 | 97 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-METHYLPHENOL (1) | ND | 190 | 97 |
| 4-NITROANILINE | ND | 190 | 97 |
| 4-NITROPHENOL | ND | 390 | 190 |
| ACENAPHTHENE | ND | 190 | 97 |
| ACENAPHTHYLENE | ND | 190 | 97 |
| ANTHRACENE | ND | 190 | 97 |
| BENZO(A)ANTHRACENE | ND | 190 | 97 |
| BENZO(A)PYRENE | ND | 190 | 97 |
| BENZO(B)FLUORANTHENE | ND | 190 | 97 |
| BENZO(K)FLUORANTHENE | ND | 190 | 97 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 97 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 97 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 97 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 97 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 97 |
| CHRYSENE | ND | 190 | 97 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 97 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 97 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 97 |
| DIBENZOFURAN | ND | 190 | 97 |
| DIETHYLPHTHALATE | ND | 190 | 97 |
| DIMETHYLPHTHALATE | ND | 190 | 97 |
| FLUORANTHENE | ND | 190 | 97 |
| FLUORENE | ND | 190 | 97 |
| HEXACHLOROBENZENE | ND | 190 | 97 |
| HEXACHLOROBUTADIENE | ND | 190 | 97 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 97 |
| HEXACHLOROETHANE | ND | 190 | 97 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 97 |
| ISOPHORONE | ND | 190 | 97 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 97 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 97 |
| NAPHTHALENE | ND | 190 | 97 |
| NITROBENZENE | ND | 190 | 97 |
| PENTACHLOROPHENOL | ND | 390 | 190 |
| PHENANTHRENE | ND | 190 | 97 |
| PHENOL | ND | 190 | 97 |
| PYRENE | ND | 190 | 97 |
| BENZYL ALCOHOL | ND | 190 | 97 |
| 1-METHYLNAPHTHALENE | ND | 190 | 97 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 97 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 97 |
| ANILINE | ND | 390 | 190 |
| BENZIDINE | ND | 960 | 490 |
| BENZOIC ACID | ND | 770 | 390 |
| CARBAZOLE | ND | 190 | 97 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 97 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1410 | 1159 | 122 | 35-130 |
| 2-FLUOROBIPHENYL | 259 | 386.2 | 67.0 | 45-130 |
| 2-FLUOROPHENOL | 748 | 1159 | 64.6 | 25-130 |
| NITROBENZENE-D5 | 224 | 386.2 | 57.9 | 40-130 |
| PHENOL-D5 | 884 | 1159 | 76.3 | 25-120 |
| TERPHENYL-D14 | 310 | 386.2 | 80.3 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-135-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 18:36 |
| Lab Samp ID: C285-04 | Dilution Factor: 1 |
| Lab File ID: RDH130 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 12.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 96 |
| 1,2-DICHLOROBENZENE | ND | 190 | 96 |
| 1,3-DICHLOROBENZENE | ND | 190 | 96 |
| 1,4-DICHLOROBENZENE | ND | 190 | 96 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 96 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 96 |
| 2,6-DINITROTOLUENE | ND | 190 | 96 |
| 2-CHLORONAPHTHALENE | ND | 190 | 96 |
| 2-CHLOROPHENOL | ND | 190 | 96 |
| 2-METHYLNAPHTHALENE | ND | 190 | 96 |
| 2-METHYLPHENOL | ND | 190 | 96 |
| 2-NITROANILINE | ND | 190 | 96 |
| 2-NITROPHENOL | ND | 190 | 96 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 96 |
| 3-NITROANILINE | ND | 190 | 96 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 96 |
| 4-CHLOROANILINE | ND | 190 | 96 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-METHYLPHENOL (1) | ND | 190 | 96 |
| 4-NITROANILINE | ND | 190 | 96 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 96 |
| ACENAPHTHYLENE | ND | 190 | 96 |
| ANTHRACENE | ND | 190 | 96 |
| BENZO(A)ANTHRACENE | ND | 190 | 96 |
| BENZO(A)PYRENE | ND | 190 | 96 |
| BENZO(B)FLUORANTHENE | ND | 190 | 96 |
| BENZO(K)FLUORANTHENE | ND | 190 | 96 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 96 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 96 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 96 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 96 |
| CHRYSENE | ND | 190 | 96 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 96 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 96 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 96 |
| DIBENZOFURAN | ND | 190 | 96 |
| DIETHYLPHTHALATE | ND | 190 | 96 |
| DIMETHYLPHTHALATE | ND | 190 | 96 |
| FLUORANTHENE | ND | 190 | 96 |
| FLUORENE | ND | 190 | 96 |
| HEXACHLOROBENZENE | ND | 190 | 96 |
| HEXACHLOROBUTADIENE | ND | 190 | 96 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 96 |
| HEXACHLOROETHANE | ND | 190 | 96 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 96 |
| ISOPHORONE | ND | 190 | 96 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 96 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 96 |
| NAPHTHALENE | ND | 190 | 96 |
| NITROBENZENE | ND | 190 | 96 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 96 |
| PHENOL | ND | 190 | 96 |
| PYRENE | ND | 190 | 96 |
| BENZYL ALCOHOL | ND | 190 | 96 |
| 1-METHYLNAPHTHALENE | ND | 190 | 96 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 96 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 96 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 950 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 96 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 96 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1020 | 1147 | 88.8 | 35-130 |
| 2-FLUOROBIPHENYL | 211 | 382.2 | 55.1 | 45-130 |
| 2-FLUOROPHENOL | 640 | 1147 | 55.8 | 25-130 |
| NITROBENZENE-D5 | 189 | 382.2 | 49.5 | 40-130 |
| PHENOL-D5 | 755 | 1147 | 65.9 | 25-120 |
| TERPHENYL-D14 | 285 | 382.2 | 74.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-136-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 18:55 |
| Lab Samp ID: C285-05 | Dilution Factor: 1 |
| Lab File ID: RDH131 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 9.7 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 93 |
| 1,2-DICHLOROBENZENE | ND | 180 | 93 |
| 1,3-DICHLOROBENZENE | ND | 180 | 93 |
| 1,4-DICHLOROBENZENE | ND | 180 | 93 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 93 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 93 |
| 2,6-DINITROTOLUENE | ND | 180 | 93 |
| 2-CHLORONAPHTHALENE | ND | 180 | 93 |
| 2-CHLOROPHENOL | ND | 180 | 93 |
| 2-METHYLNAPHTHALENE | ND | 180 | 93 |
| 2-METHYLPHENOL | ND | 180 | 93 |
| 2-NITROANILINE | ND | 180 | 93 |
| 2-NITROPHENOL | ND | 180 | 93 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 93 |
| 3-NITROANILINE | ND | 180 | 93 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 93 |
| 4-CHLOROANILINE | ND | 180 | 93 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-METHYLPHENOL (1) | ND | 180 | 93 |
| 4-NITROANILINE | ND | 180 | 93 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 93 |
| ACENAPHTHYLENE | ND | 180 | 93 |
| ANTHRACENE | ND | 180 | 93 |
| BENZO(A)ANTHRACENE | ND | 180 | 93 |
| BENZO(A)PYRENE | ND | 180 | 93 |
| BENZO(B)FLUORANTHENE | ND | 180 | 93 |
| BENZO(K)FLUORANTHENE | ND | 180 | 93 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 93 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 93 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 93 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 93 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 93 |
| CHRYSENE | ND | 180 | 93 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 93 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 93 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 93 |
| DIBENZOFURAN | ND | 180 | 93 |
| DIETHYLPHTHALATE | ND | 180 | 93 |
| DIMETHYLPHTHALATE | ND | 180 | 93 |
| FLUORANTHENE | ND | 180 | 93 |
| FLUORENE | ND | 180 | 93 |
| HEXACHLOROBENZENE | ND | 180 | 93 |
| HEXACHLOROBUTADIENE | ND | 180 | 93 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 93 |
| HEXACHLOROETHANE | ND | 180 | 93 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 93 |
| ISOPHORONE | ND | 180 | 93 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 93 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 93 |
| NAPHTHALENE | ND | 180 | 93 |
| NITROBENZENE | ND | 180 | 93 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 93 |
| PHENOL | ND | 180 | 93 |
| PYRENE | ND | 180 | 93 |
| BENZYL ALCOHOL | ND | 180 | 93 |
| 1-METHYLNAPHTHALENE | ND | 180 | 93 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 93 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 93 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 920 | 470 |
| BENZOIC ACID | ND | 740 | 370 |
| CARBAZOLE | ND | 180 | 93 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 93 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1120 | 1107 | 102 | 35-130 |
| 2-FLUOROBIPHENYL | 253 | 369.1 | 68.4 | 45-130 |
| 2-FLUOROPHENOL | 755 | 1107 | 68.2 | 25-130 |
| NITROBENZENE-D5 | 256 | 369.1 | 69.3 | 40-130 |
| PHENOL-D5 | 886 | 1107 | 80.0 | 25-120 |
| TERPHENYL-D14 | 305 | 369.1 | 82.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-139-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 19:14 |
| Lab Samp ID: C285-06 | Dilution Factor: 1 |
| Lab File ID: RDH132 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 16.3 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 400 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 400 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 400 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 400 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 400 | 200 |
| BENZIDINE | ND | 990 | 500 |
| BENZOIC ACID | ND | 800 | 400 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1110 | 1195 | 92.6 | 35-130 |
| 2-FLUOROBIPHENYL | 239 | 398.2 | 60.0 | 45-130 |
| 2-FLUOROPHENOL | 647 | 1195 | 54.1 | 25-130 |
| NITROBENZENE-D5 | 233 | 398.2 | 58.6 | 40-130 |
| PHENOL-D5 | 791 | 1195 | 66.2 | 25-120 |
| TERPHENYL-D14 | 304 | 398.2 | 76.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-141-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 19:33 |
| Lab Samp ID: C285-07 | Dilution Factor: 1 |
| Lab File ID: RDH133 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 10.9 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 750 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1090 | 1122 | 97.3 | 35-130 |
| 2-FLUOROBIPHENYL | 247 | 374.1 | 66.0 | 45-130 |
| 2-FLUOROPHENOL | 723 | 1122 | 64.5 | 25-130 |
| NITROBENZENE-D5 | 229 | 374.1 | 61.3 | 40-130 |
| PHENOL-D5 | 825 | 1122 | 73.5 | 25-120 |
| TERPHENYL-D14 | 294 | 374.1 | 78.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-143-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 19:52 |
| Lab Samp ID: C285-08 | Dilution Factor: 1 |
| Lab File ID: RDH134 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 7.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 460 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 984 | 1085 | 90.7 | 35-130 |
| 2-FLUOROBIPHENYL | 205 | 361.5 | 56.8 | 45-130 |
| 2-FLUOROPHENOL | 643 | 1085 | 59.2 | 25-130 |
| NITROBENZENE-D5 | 194 | 361.5 | 53.8 | 40-130 |
| PHENOL-D5 | 752 | 1085 | 69.3 | 25-120 |
| TERPHENYL-D14 | 290 | 361.5 | 80.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-036-NBZ-SB-4.0-5.0 | Date Analyzed: 04/10/12 20:11 |
| Lab Samp ID: C285-10 | Dilution Factor: 1 |
| Lab File ID: RDH135 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 11.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 95 |
| 1,2-DICHLOROBENZENE | ND | 190 | 95 |
| 1,3-DICHLOROBENZENE | ND | 190 | 95 |
| 1,4-DICHLOROBENZENE | ND | 190 | 95 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 95 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 95 |
| 2,6-DINITROTOLUENE | ND | 190 | 95 |
| 2-CHLORONAPHTHALENE | ND | 190 | 95 |
| 2-CHLOROPHENOL | ND | 190 | 95 |
| 2-METHYLNAPHTHALENE | ND | 190 | 95 |
| 2-METHYLPHENOL | ND | 190 | 95 |
| 2-NITROANILINE | ND | 190 | 95 |
| 2-NITROPHENOL | ND | 190 | 95 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 95 |
| 3-NITROANILINE | ND | 190 | 95 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 95 |
| 4-CHLOROANILINE | ND | 190 | 95 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-METHYLPHENOL (1) | ND | 190 | 95 |
| 4-NITROANILINE | ND | 190 | 95 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 95 |
| ACENAPHTHYLENE | ND | 190 | 95 |
| ANTHRACENE | ND | 190 | 95 |
| BENZO(A)ANTHRACENE | ND | 190 | 95 |
| BENZO(A)PYRENE | ND | 190 | 95 |
| BENZO(B)FLUORANTHENE | ND | 190 | 95 |
| BENZO(K)FLUORANTHENE | ND | 190 | 95 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 95 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 95 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 95 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 95 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 95 |
| CHRYSENE | ND | 190 | 95 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 95 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 95 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 95 |
| DIBENZOFURAN | ND | 190 | 95 |
| DIETHYLPHTHALATE | ND | 190 | 95 |
| DIMETHYLPHTHALATE | ND | 190 | 95 |
| FLUORANTHENE | ND | 190 | 95 |
| FLUORENE | ND | 190 | 95 |
| HEXACHLOROBENZENE | ND | 190 | 95 |
| HEXACHLOROBUTADIENE | ND | 190 | 95 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 95 |
| HEXACHLOROETHANE | ND | 190 | 95 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 95 |
| ISOPHORONE | ND | 190 | 95 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 95 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 95 |
| NAPHTHALENE | ND | 190 | 95 |
| NITROBENZENE | ND | 190 | 95 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 95 |
| PHENOL | ND | 190 | 95 |
| PYRENE | ND | 190 | 95 |
| BENZYL ALCOHOL | ND | 190 | 95 |
| 1-METHYLNAPHTHALENE | ND | 190 | 95 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 95 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 95 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 940 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 95 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 95 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1010 | 1134 | 89.4 | 35-130 |
| 2-FLUOROBIPHENYL | 207 | 377.9 | 54.8 | 45-130 |
| 2-FLUOROPHENOL | 625 | 1134 | 55.1 | 25-130 |
| NITROBENZENE-D5 | 213 | 377.9 | 56.4 | 40-130 |
| PHENOL-D5 | 727 | 1134 | 64.1 | 25-120 |
| TERPHENYL-D14 | 284 | 377.9 | 75.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-037-NBZ-SB-3.0-4.0 | Date Analyzed: 04/10/12 20:30 |
| Lab Samp ID: C285-12 | Dilution Factor: 1 |
| Lab File ID: RDH136 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 10.2 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 920 | 470 |
| BENZOIC ACID | ND | 740 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1290 | 1114 | 115 | 35-130 |
| 2-FLUOROBIPHENYL | 229 | 371.2 | 61.6 | 45-130 |
| 2-FLUOROPHENOL | 720 | 1114 | 64.7 | 25-130 |
| NITROBENZENE-D5 | 218 | 371.2 | 58.8 | 40-130 |
| PHENOL-D5 | 830 | 1114 | 74.6 | 25-120 |
| TERPHENYL-D14 | 305 | 371.2 | 82.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-040-NBZ-SB-2.5-3.5 | Date Analyzed: 04/10/12 20:48 |
| Lab Samp ID: C285-14 | Dilution Factor: 1 |
| Lab File ID: RDH137 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 4.5 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 88 |
| 1,2-DICHLOROBENZENE | ND | 170 | 88 |
| 1,3-DICHLOROBENZENE | ND | 170 | 88 |
| 1,4-DICHLOROBENZENE | ND | 170 | 88 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 88 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 88 |
| 2,4-DICHLOROPHENOL | ND | 170 | 88 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 88 |
| 2,4-DINITROPHENOL | ND | 350 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 88 |
| 2,6-DINITROTOLUENE | ND | 170 | 88 |
| 2-CHLORONAPHTHALENE | ND | 170 | 88 |
| 2-CHLOROPHENOL | ND | 170 | 88 |
| 2-METHYLNAPHTHALENE | ND | 170 | 88 |
| 2-METHYLPHENOL | ND | 170 | 88 |
| 2-NITROANILINE | ND | 170 | 88 |
| 2-NITROPHENOL | ND | 170 | 88 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 88 |
| 3-NITROANILINE | ND | 170 | 88 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 88 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 88 |
| 4-CHLOROANILINE | ND | 170 | 88 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 88 |
| 4-METHYLPHENOL (1) | ND | 170 | 88 |
| 4-NITROANILINE | ND | 170 | 88 |
| 4-NITROPHENOL | ND | 350 | 170 |
| ACENAPHTHENE | ND | 170 | 88 |
| ACENAPHTHYLENE | ND | 170 | 88 |
| ANTHRACENE | ND | 170 | 88 |
| BENZO(A)ANTHRACENE | ND | 170 | 88 |
| BENZO(A)PYRENE | ND | 170 | 88 |
| BENZO(B)FLUORANTHENE | ND | 170 | 88 |
| BENZO(K)FLUORANTHENE | ND | 170 | 88 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 88 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 88 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 88 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 88 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 88 |
| CHRYSENE | ND | 170 | 88 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 88 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 88 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 88 |
| DIBENZOFURAN | ND | 170 | 88 |
| DIETHYLPHTHALATE | ND | 170 | 88 |
| DIMETHYLPHTHALATE | ND | 170 | 88 |
| FLUORANTHENE | ND | 170 | 88 |
| FLUORENE | ND | 170 | 88 |
| HEXACHLOROBENZENE | ND | 170 | 88 |
| HEXACHLOROBUTADIENE | ND | 170 | 88 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 88 |
| HEXACHLOROETHANE | ND | 170 | 88 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 88 |
| ISOPHORONE | ND | 170 | 88 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 88 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 88 |
| NAPHTHALENE | ND | 170 | 88 |
| NITROBENZENE | ND | 170 | 88 |
| PENTACHLOROPHENOL | ND | 350 | 170 |
| PHENANTHRENE | ND | 170 | 88 |
| PHENOL | ND | 170 | 88 |
| PYRENE | ND | 170 | 88 |
| BENZYL ALCOHOL | ND | 170 | 88 |
| 1-METHYLNAPHTHALENE | ND | 170 | 88 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 88 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 88 |
| ANILINE | ND | 350 | 170 |
| BENZIDINE | ND | 870 | 440 |
| BENZOIC ACID | ND | 700 | 350 |
| CARBAZOLE | ND | 170 | 88 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 88 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1010 | 1047 | 96.6 | 35-130 |
| 2-FLUOROBIPHENYL | 227 | 349.0 | 64.9 | 45-130 |
| 2-FLUOROPHENOL | 642 | 1047 | 61.3 | 25-130 |
| NITROBENZENE-D5 | 199 | 349.0 | 57.0 | 40-130 |
| PHENOL-D5 | 776 | 1047 | 74.2 | 25-120 |
| TERPHENYL-D14 | 302 | 349.0 | 86.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-036-NBZ-SB-7.5-8.5 | Date Analyzed: 04/10/12 21:07 |
| Lab Samp ID: C285-16 | Dilution Factor: 1 |
| Lab File ID: RDH138 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 23.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 220 | 110 |
| 1,2-DICHLOROBENZENE | ND | 220 | 110 |
| 1,3-DICHLOROBENZENE | ND | 220 | 110 |
| 1,4-DICHLOROBENZENE | ND | 220 | 110 |
| 2,4,5-TRICHLOROPHENOL | ND | 220 | 110 |
| 2,4,6-TRICHLOROPHENOL | ND | 220 | 110 |
| 2,4-DICHLOROPHENOL | ND | 220 | 110 |
| 2,4-DIMETHYLPHENOL | ND | 220 | 110 |
| 2,4-DINITROPHENOL | ND | 440 | 220 |
| 2,4-DINITROTOLUENE | ND | 220 | 110 |
| 2,6-DINITROTOLUENE | ND | 220 | 110 |
| 2-CHLORONAPHTHALENE | ND | 220 | 110 |
| 2-CHLOROPHENOL | ND | 220 | 110 |
| 2-METHYLNAPHTHALENE | ND | 220 | 110 |
| 2-METHYLPHENOL | ND | 220 | 110 |
| 2-NITROANILINE | ND | 220 | 110 |
| 2-NITROPHENOL | ND | 220 | 110 |
| 3,3'-DICHLOROBENZIDINE | ND | 220 | 110 |
| 3-NITROANILINE | ND | 220 | 110 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 440 | 220 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 220 | 110 |
| 4-CHLORO-3-METHYLPHENOL | ND | 220 | 110 |
| 4-CHLOROANILINE | ND | 220 | 110 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 220 | 110 |
| 4-METHYLPHENOL (1) | ND | 220 | 110 |
| 4-NITROANILINE | ND | 220 | 110 |
| 4-NITROPHENOL | ND | 440 | 220 |
| ACENAPHTHENE | ND | 220 | 110 |
| ACENAPHTHYLENE | ND | 220 | 110 |
| ANTHRACENE | ND | 220 | 110 |
| BENZO(A)ANTHRACENE | ND | 220 | 110 |
| BENZO(A)PYRENE | ND | 220 | 110 |
| BENZO(B)FLUORANTHENE | ND | 220 | 110 |
| BENZO(K)FLUORANTHENE | ND | 220 | 110 |
| BENZO(G,H,I)PERYLENE | ND | 220 | 110 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 220 | 110 |
| BIS(2-CHLOROETHYL)ETHER | ND | 220 | 110 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 220 | 110 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 220 | 110 |
| BUTYLBENZYLPHTHALATE | ND | 220 | 110 |
| CHRYSENE | ND | 220 | 110 |
| DI-N-BUTYLPHTHALATE | ND | 220 | 110 |
| DI-N-OCTYLPHTHALATE | ND | 220 | 110 |
| DIBENZO(A,H)ANTHRACENE | ND | 220 | 110 |
| DIBENZOFURAN | ND | 220 | 110 |
| DIETHYLPHTHALATE | ND | 220 | 110 |
| DIMETHYLPHTHALATE | ND | 220 | 110 |
| FLUORANTHENE | ND | 220 | 110 |
| FLUORENE | ND | 220 | 110 |
| HEXACHLOROBENZENE | ND | 220 | 110 |
| HEXACHLOROBUTADIENE | ND | 220 | 110 |
| HEXACHLOROCYCLOPENTADIENE | ND | 220 | 110 |
| HEXACHLOROETHANE | ND | 220 | 110 |
| INDENO(1,2,3-CD)PYRENE | ND | 220 | 110 |
| ISOPHORONE | ND | 220 | 110 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 220 | 110 |
| N-NITROSODIPHENYLAMINE (2) | ND | 220 | 110 |
| NAPHTHALENE | ND | 220 | 110 |
| NITROBENZENE | ND | 220 | 110 |
| PENTACHLOROPHENOL | ND | 440 | 220 |
| PHENANTHRENE | ND | 220 | 110 |
| PHENOL | ND | 220 | 110 |
| PYRENE | ND | 220 | 110 |
| BENZYL ALCOHOL | ND | 220 | 110 |
| 1-METHYLNAPHTHALENE | ND | 220 | 110 |
| 1,2-DIPHENYLHYDRAZINE | ND | 220 | 110 |
| 3,5-DIMETHYLPHENOL | ND | 220 | 110 |
| ANILINE | ND | 440 | 220 |
| BENZIDINE | ND | 1100 | 550 |
| BENZOIC ACID | ND | 870 | 440 |
| CARBAZOLE | ND | 220 | 110 |
| N-NITROSODIMETHYLAMINE | ND | 220 | 110 |
| TETRALIN | ND | 220 | 220 |
| 2-BUTOXYETHANOL | ND | 220 | 220 |
| 2-PHENOXYETHANOL | ND | 220 | 220 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 942 | 1309 | 71.9 | 35-130 |
| 2-FLUOROBIPHENYL | 196 | 436.3 | 45.0 | 45-130 |
| 2-FLUOROPHENOL | 608 | 1309 | 46.4 | 25-130 |
| NITROBENZENE-D5 | 181 | 436.3 | 41.5 | 40-130 |
| PHENOL-D5 | 727 | 1309 | 55.6 | 25-120 |
| TERPHENYL-D14 | 349 | 436.3 | 79.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: DUP-03-NBZ-QC-032812 | Date Analyzed: 04/10/12 21:26 |
| Lab Samp ID: C285-17 | Dilution Factor: 1 |
| Lab File ID: RDH139 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 5.9 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 89 |
| 1,2-DICHLOROBENZENE | ND | 180 | 89 |
| 1,3-DICHLOROBENZENE | ND | 180 | 89 |
| 1,4-DICHLOROBENZENE | ND | 180 | 89 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 89 |
| 2,4-DINITROPHENOL | ND | 350 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 89 |
| 2,6-DINITROTOLUENE | ND | 180 | 89 |
| 2-CHLORONAPHTHALENE | ND | 180 | 89 |
| 2-CHLOROPHENOL | ND | 180 | 89 |
| 2-METHYLNAPHTHALENE | ND | 180 | 89 |
| 2-METHYLPHENOL | ND | 180 | 89 |
| 2-NITROANILINE | ND | 180 | 89 |
| 2-NITROPHENOL | ND | 180 | 89 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 89 |
| 3-NITROANILINE | ND | 180 | 89 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 89 |
| 4-CHLOROANILINE | ND | 180 | 89 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-METHYLPHENOL (1) | ND | 180 | 89 |
| 4-NITROANILINE | ND | 180 | 89 |
| 4-NITROPHENOL | ND | 350 | 180 |
| ACENAPHTHENE | ND | 180 | 89 |
| ACENAPHTHYLENE | ND | 180 | 89 |
| ANTHRACENE | ND | 180 | 89 |
| BENZO(A)ANTHRACENE | ND | 180 | 89 |
| BENZO(A)PYRENE | ND | 180 | 89 |
| BENZO(B)FLUORANTHENE | ND | 180 | 89 |
| BENZO(K)FLUORANTHENE | ND | 180 | 89 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 89 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 89 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 89 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 89 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 89 |
| CHRYSENE | ND | 180 | 89 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 89 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 89 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 89 |
| DIBENZOFURAN | ND | 180 | 89 |
| DIETHYLPHTHALATE | ND | 180 | 89 |
| DIMETHYLPHTHALATE | ND | 180 | 89 |
| FLUORANTHENE | ND | 180 | 89 |
| FLUORENE | ND | 180 | 89 |
| HEXACHLOROBENZENE | ND | 180 | 89 |
| HEXACHLOROBUTADIENE | ND | 180 | 89 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 89 |
| HEXACHLOROETHANE | ND | 180 | 89 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 89 |
| ISOPHORONE | ND | 180 | 89 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 89 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 89 |
| NAPHTHALENE | ND | 180 | 89 |
| NITROBENZENE | ND | 180 | 89 |
| PENTACHLOROPHENOL | ND | 350 | 180 |
| PHENANTHRENE | ND | 180 | 89 |
| PHENOL | ND | 180 | 89 |
| PYRENE | ND | 180 | 89 |
| BENZYL ALCOHOL | ND | 180 | 89 |
| 1-METHYLNAPHTHALENE | ND | 180 | 89 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 89 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 89 |
| ANILINE | ND | 350 | 180 |
| BENZIDINE | ND | 880 | 450 |
| BENZOIC ACID | ND | 710 | 350 |
| CARBAZOLE | ND | 180 | 89 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 89 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 903 | 1063 | 84.9 | 35-130 |
| 2-FLUOROBIPHENYL | 216 | 354.2 | 61.1 | 45-130 |
| 2-FLUOROPHENOL | 631 | 1063 | 59.3 | 25-130 |
| NITROBENZENE-D5 | 194 | 354.2 | 54.8 | 40-130 |
| PHENOL-D5 | 737 | 1063 | 69.4 | 25-120 |
| TERPHENYL-D14 | 275 | 354.2 | 77.8 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: MBLK1S | Date Analyzed: 04/10/12 14:52 |
| Lab Samp ID: SVD016SB | Dilution Factor: 1 |
| Lab File ID: RDH118 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : NA |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 739 | 1000 | 73.9 | 35-130 |
| 2-FLUOROBIPHENYL | 239 | 333.3 | 71.7 | 45-130 |
| 2-FLUOROPHENOL | 738 | 1000 | 73.8 | 25-130 |
| NITROBENZENE-D5 | 212 | 333.3 | 63.6 | 40-130 |
| PHENOL-D5 | 824 | 1000 | 82.4 | 25-120 |
| TERPHENYL-D14 | 305 | 333.3 | 91.5 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVD016SB SVD016SL SVD016SC
LAB FILE ID: RDH118 RDH119 RDH151
DATE EXTRACTED: 04/09/1215:41 04/09/1215:41 04/09/1215:41 DATE COLLECTED: NA
DATE ANALYZED: 04/10/1214:52 04/10/1215:10 04/11/1215:50 DATE RECEIVED: 04/09/12
PREP. BATCH: SVD016S SVD016S SVD016S
CALIB. REF: RCH007 RCH007 RCH007

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 415 | 62 | 667 | 418 | 63 | 1 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 415 | 62 | 667 | 416 | 62 | 0 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 409 | 61 | 667 | 413 | 62 | 1 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 412 | 62 | 667 | 413 | 62 | 0 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 477 | 72 | 667 | 504 | 76 | 6 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 526 | 79 | 667 | 554 | 83 | 5 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 505 | 76 | 667 | 484 | 73 | 4 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 448 | 67 | 667 | 442 | 66 | 1 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 352 | 53 | 667 | 517 | 78 | 38 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 527 | 79 | 667 | 625 | 94 | 17 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 497 | 75 | 667 | 559 | 84 | 12 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 456 | 68 | 667 | 455 | 68 | 0 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 502 | 75 | 667 | 516 | 77 | 3 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 575 | 86 | 667 | 590 | 88 | 3 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 464 | 70 | 667 | 457 | 68 | 2 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 405 | 61 | 667 | 450 | 67 | 10 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 499 | 75 | 667 | 578 | 87 | 15 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 386 | 58 | 667 | 680 | 102 | 55* | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 444 | 67 | 667 | 532 | 80 | 18 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 449 | 67 | 667 | 587 | 88 | 27 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 605 | 91 | 667 | 658 | 99 | 8 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 445 | 67 | 667 | 466 | 70 | 5 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 444 | 67 | 667 | 450 | 68 | 1 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 534 | 80 | 667 | 541 | 81 | 1 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 483 | 72 | 667 | 494 | 74 | 2 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 533 | 80 | 667 | 636 | 95 | 18 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 395 | 59 | 667 | 450 | 68 | 13 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 549 | 82 | 667 | 553 | 83 | 1 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 548 | 82 | 667 | 551 | 83 | 1 | 30-130 | 50 |
| Anthracene | ND | 667 | 480 | 72 | 667 | 537 | 81 | 11 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 716 | 107 | 667 | 637 | 96 | 12 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 593 | 89 | 667 | 610 | 91 | 3 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 617 | 93 | 667 | 657 | 99 | 6 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 663 | 99 | 667 | 644 | 97 | 3 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 549 | 82 | 667 | 671 | 101 | 20 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 535 | 80 | 667 | 507 | 76 | 5 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 546 | 82 | 667 | 504 | 76 | 8 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 506 | 76 | 667 | 527 | 79 | 4 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 532 | 80 | 667 | 558 | 84 | 5 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 514 | 77 | 667 | 556 | 83 | 8 | 40-150 | 50 |
| Chrysene | ND | 667 | 653 | 98 | 667 | 651 | 98 | 0 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 538 | 81 | 667 | 622 | 93 | 14 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 494 | 74 | 667 | 551 | 83 | 11 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 696 | 104 | 667 | 686 | 103 | 1 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 525 | 79 | 667 | 533 | 80 | 1 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 504 | 76 | 667 | 512 | 77 | 2 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 499 | 75 | 667 | 515 | 77 | 3 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 621 | 93 | 667 | 649 | 97 | 5 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 549 | 82 | 667 | 561 | 84 | 2 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 522 | 78 | 667 | 551 | 83 | 5 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 427 | 64 | 667 | 429 | 64 | 0 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 367 | 55 | 667 | 380 | 57 | 3 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 404 | 61 | 667 | 396 | 59 | 2 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 649 | 97 | 667 | 695 | 104 | 7 | 30-140 | 50 |
| Isophorone | ND | 667 | 503 | 76 | 667 | 451 | 68 | 11 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 429 | 64 | 667 | 374 | 56 | 14 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 399 | 60 | 667 | 439 | 66 | 10 | 30-140 | 50 |
| Naphthalene | ND | 667 | 516 | 77 | 667 | 517 | 78 | 0 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 470 | 70 | 667 | 453 | 68 | 4 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 529 | 79 | 667 | 612 | 92 | 15 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 499 | 75 | 667 | 558 | 84 | 11 | 30-130 | 50 |
| Phenol | ND | 667 | 500 | 75 | 667 | 478 | 72 | 4 | 30-130 | 50 |
| Pyrene | ND | 667 | 583 | 87 | 667 | 585 | 88 | 0 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 469 | 70 | 667 | 487 | 73 | 4 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 533 | 80 | 667 | 532 | 80 | 0 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 419 | 63 | 667 | 419 | 63 | 0 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 488 | 73 | 667 | 496 | 74 | 2 | 20-150 | 50 |
| Aniline | ND | 667 | 375 | 56 | 667 | 346 | 52 | 8 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1400 | 52 | 2670 | 1690 | 63 | 29 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 765 | 29 | 2670 | 861 | 32 | 12 | 10-130 | 50 |
| Carbazole | ND | 667 | 499 | 75 | 667 | 569 | 85 | 13 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 603 | 90 | 667 | 540 | 81 | 11 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 811 | 81 | 1000 | 848 | 85 | 35-130 |
| 2-Fluorobiphenyl | 333 | 216 | 65 | 333 | 214 | 64 | 45-130 |
| 2-Fluorophenol | 1000 | 665 | 67 | 1000 | 654 | 65 | 25-130 |
| Nitrobenzene-d5 | 333 | 195 | 59 | 333 | 191 | 57 | 40-130 |
| Phenol-d5 | 1000 | 752 | 75 | 1000 | 717 | 72 | 25-120 |
| Terphenyl-d14 | 333 | 306 | 92 | 333 | 300 | 90 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: 4.5
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-040-NBZ-SB-2.5-3.5
LAB SAMP ID: C285-14 C285-14M C285-14S
LAB FILE ID: RDH137 RDH123 RDH199
DATE EXTRACTED: 04/09/1215:41 04/09/1215:41 04/09/1215:41 DATE COLLECTED: 03/28/12
DATE ANALYZED: 04/10/1220:48 04/10/1216:25 04/13/1211:40 DATE RECEIVED: 03/28/12
PREP. BATCH: SVD016S SVD016S SVD016S
CALIB. REF: RCH007 RCH007 RCH007

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 698 | 252 | 36 | 698 | 362 | 52 | 36 | 10-130 | 50 |
| 1,2-Dichlorobenzene | ND | 698 | 209 | 30 | 698 | 284 | 41 | 30 | 30-130 | 50 |
| 1,3-Dichlorobenzene | ND | 698 | 191 | 27* | 698 | 257 | 37 | 30 | 30-130 | 50 |
| 1,4-Dichlorobenzene | ND | 698 | 196 | 28 | 698 | 267 | 38 | 31 | 10-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 698 | 551 | 79 | 698 | 584 | 84 | 6 | 30-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 698 | 626 | 90 | 698 | 624 | 89 | 0 | 30-130 | 50 |
| 2,4-Dichlorophenol | ND | 698 | 390 | 56 | 698 | 523 | 75 | 29 | 30-130 | 50 |
| 2,4-Dimethylphenol | ND | 698 | 372 | 53 | 698 | 481 | 69 | 26 | 30-130 | 50 |
| 2,4-Dinitrophenol | ND | 698 | 481 | 69 | 698 | 499 | 72 | 4 | 10-130 | 50 |
| 2,4-Dinitrotoluene | ND | 698 | 647 | 93 | 698 | 682 | 98 | 5 | 20-130 | 50 |
| 2,6-Dinitrotoluene | ND | 698 | 723 | 104 | 698 | 928 | 133* | 25 | 30-130 | 50 |
| 2-Chloronaphthalene | ND | 698 | 353 | 51 | 698 | 482 | 69 | 31 | 30-130 | 50 |
| 2-Chlorophenol | ND | 698 | 311 | 45 | 698 | 447 | 64 | 36 | 20-130 | 50 |
| 2-Methylnaphthalene | ND | 698 | 345 | 49 | 698 | 523 | 75 | 41 | 30-130 | 50 |
| 2-Methylphenol | ND | 698 | 322 | 46 | 698 | 466 | 67 | 36 | 30-130 | 50 |
| 2-Nitroaniline | ND | 698 | 495 | 71 | 698 | 566 | 81 | 13 | 30-130 | 50 |
| 2-Nitrophenol | ND | 698 | 284 | 41 | 698 | 479 | 69 | 51* | 30-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 698 | 564 | 81 | 698 | 529 | 76 | 6 | 30-130 | 50 |
| 3-Nitroaniline | ND | 698 | 605 | 87 | 698 | 572 | 82 | 6 | 30-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 698 | 687 | 98 | 698 | 645 | 92 | 6 | 30-130 | 50 |
| 4-Bromophenyl-phenylether | ND | 698 | 673 | 96 | 698 | 656 | 94 | 3 | 30-130 | 50 |
| 4-Chloro-3-Methylphenol | ND | 698 | 516 | 74 | 698 | 544 | 78 | 5 | 20-130 | 50 |
| 4-Chloroaniline | ND | 698 | 331 | 47 | 698 | 461 | 66 | 33 | 30-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 698 | 586 | 84 | 698 | 593 | 85 | 1 | 30-130 | 50 |
| 4-Methylphenol | ND | 698 | 317 | 45 | 698 | 462 | 66 | 37 | 20-130 | 50 |
| 4-Nitroaniline | ND | 698 | 643 | 92 | 698 | 634 | 91 | 1 | 40-130 | 50 |
| 4-Nitrophenol | ND | 698 | 507 | 73 | 698 | 518 | 74 | 2 | 10-130 | 50 |
| Acenaphthene | ND | 698 | 505 | 72 | 698 | 644 | 92 | 24 | 20-130 | 50 |
| Acenaphthylene | ND | 698 | 488 | 70 | 698 | 602 | 86 | 21 | 20-130 | 50 |
| Anthracene | ND | 698 | 742 | 106 | 698 | 568 | 81 | 27 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 698 | 647 | 93 | 698 | 639 | 91 | 1 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 698 | 693 | 99 | 698 | 597 | 85 | 15 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 698 | 674 | 97 | 698 | 655 | 94 | 3 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 698 | 671 | 96 | 698 | 643 | 92 | 4 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 698 | 734 | 105 | 698 | 666 | 95 | 10 | 30-130 | 50 |
| bis(2-Chloroethoxy)methane | ND | 698 | 355 | 51 | 698 | 518 | 74 | 37 | 30-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 698 | 335 | 48 | 698 | 437 | 63 | 27 | 30-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 698 | 297 | 43 | 698 | 443 | 64 | 39 | 20-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 698 | 814 | 117 | 698 | 1090 | 155* | 29 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 698 | 549 | 79 | 698 | 674 | 97 | 20 | 30-130 | 50 |
| Chrysene | ND | 698 | 644 | 92 | 698 | 661 | 95 | 3 | 30-130 | 50 |
| Di-n-butylphthalate | ND | 698 | 457 | 65 | 698 | 604 | 86 | 28 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 698 | 559 | 80 | 698 | 640 | 92 | 14 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 698 | 647 | 93 | 698 | 677 | 97 | 5 | 30-130 | 50 |
| Dibenzofuran | ND | 698 | 525 | 75 | 698 | 582 | 83 | 10 | 30-130 | 50 |
| Diethylphthalate | ND | 698 | 566 | 81 | 698 | 582 | 83 | 3 | 30-130 | 50 |
| Dimethylphthalate | ND | 698 | 532 | 76 | 698 | 588 | 84 | 10 | 30-130 | 50 |
| Fluoranthene | ND | 698 | 772 | 111 | 698 | 634 | 91 | 20 | 30-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 698 | 598 | 86 | 698 | 622 | 89 | 4 | 20-130 | 50 |
| Hexachlorobenzene | ND | 698 | 806 | 115 | 698 | 602 | 86 | 29 | 10-160 | 50 |
| Hexachlorobutadiene | ND | 698 | 242 | 35 | 698 | 358 | 51 | 39 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 698 | 240 | 34 | 698 | 312 | 45 | 26 | 10-130 | 50 |
| Hexachloroethane | ND | 698 | 115J | 16* | 698 | 228 | 33 | 66* | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 698 | 685 | 98 | 698 | 662 | 95 | 3 | 20-130 | 50 |
| Isophorone | ND | 698 | 356 | 51 | 698 | 499 | 72 | 33 | 30-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 698 | 325 | 47 | 698 | 400 | 57 | 21 | 20-130 | 50 |
| n-Nitrosodiphenylamine | ND | 698 | 410 | 59 | 698 | 449 | 64 | 9 | 20-140 | 50 |
| Naphthalene | ND | 698 | 327 | 47 | 698 | 472 | 68 | 36 | 30-130 | 50 |
| Nitrobenzene | ND | 698 | 332 | 48 | 698 | 432 | 62 | 26 | 30-130 | 50 |
| Pentachlorophenol | ND | 698 | 869 | 124 | 698 | 638 | 91 | 31 | 10-130 | 50 |
| Phenanthrene | ND | 698 | 870 | 125 | 698 | 597 | 86 | 37 | 20-130 | 50 |
| Phenol | ND | 698 | 360 | 52 | 698 | 491 | 70 | 31 | 20-130 | 50 |
| Pyrene | ND | 698 | 536 | 77 | 698 | 604 | 87 | 12 | 10-160 | 50 |
| Benzyl Alcohol | ND | 698 | 335 | 48 | 698 | 481 | 69 | 36 | 30-130 | 50 |
| 1-Methylnaphthalene | ND | 698 | 371 | 53 | 698 | 536 | 77 | 36 | 20-130 | 50 |
| 1,2-Diphenylhydrazine | ND | 698 | 620 | 89 | 698 | 531 | 76 | 16 | 20-150 | 50 |
| 3,5-Dimethylphenol | ND | 698 | 352 | 50 | 698 | 525 | 75 | 39 | 20-130 | 50 |
| Aniline | ND | 698 | 251J | 36 | 698 | 315J | 45 | 23 | 10-150 | 50 |
| Benzidine | ND | 2790 | 667J | 24 | 2790 | 443J | 16 | 40 | 10-150 | 50 |
| Benzoic Acid | ND | 2790 | 870 | 31 | 2790 | 855 | 31 | 2 | 10-130 | 50 |
| Carbazole | ND | 698 | 781 | 112 | 698 | 596 | 85 | 27 | 30-130 | 50 |
| N-Nitrosodimethylamine | ND | 698 | 421 | 60 | 698 | 509 | 73 | 19 | 20-130 | 50 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1050 | 1320 | 126 | 1050 | 944 | 90 | 35-130 |
| 2-Fluorobiphenyl | 349 | 164 | 47 | 349 | 235 | 67 | 45-130 |
| 2-Fluorophenol | 1050 | 461 | 44 | 1050 | 614 | 59 | 25-130 |
| Nitrobenzene-d5 | 349 | 135 | 39* | 349 | 194 | 56 | 40-130 |
| Phenol-d5 | 1050 | 536 | 51 | 1050 | 738 | 71 | 25-120 |
| Terphenyl-d14 | 349 | 295 | 85 | 349 | 323 | 93 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-040-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 17:40 |
| Lab Samp ID: C285-01 | Dilution Factor: 1 |
| Lab File ID: RDH127 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 11.1 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.96 |
| ACENAPHTHYLENE | ND | 1.9 | 0.96 |
| ANTHRACENE | 1.2J | 1.9 | 0.96 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)PYRENE | ND | 1.9 | 0.96 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(G,H,I)PERYLENE | 1.6J | 1.9 | 0.96 |
| CHRYSENE | ND | 1.9 | 0.96 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.96 |
| FLUORANTHENE | ND | 1.9 | 0.96 |
| FLUORENE | ND | 1.9 | 0.96 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.96 |
| NAPHTHALENE | ND | 1.9 | 0.96 |
| PHENANTHRENE | 1.5J | 1.9 | 0.96 |
| PYRENE | ND | 1.9 | 0.96 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 48 | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | 66 | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.96 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 206 | 374.9 | 54.9 | 40-130 |
| 2-FLUOROBIPHENYL | 219 | 374.9 | 58.5 | 45-130 |
| TERPHENYL-D14 | 389 | 374.9 | 104 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-094-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 17:59 |
| Lab Samp ID: C285-02 | Dilution Factor: 1 |
| Lab File ID: RDH128 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 13.2 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 0.98 |
| ACENAPHTHYLENE | ND | 2.0 | 0.98 |
| ANTHRACENE | ND | 2.0 | 0.98 |
| BENZO(A)ANTHRACENE | 2.5 | 2.0 | 0.98 |
| BENZO(A)PYRENE | ND | 2.0 | 0.98 |
| BENZO(B)FLUORANTHENE | ND | 2.0 | 0.98 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 0.98 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 0.98 |
| CHRYSENE | 1.1J | 2.0 | 0.98 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 0.98 |
| FLUORANTHENE | ND | 2.0 | 0.98 |
| FLUORENE | ND | 2.0 | 0.98 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 0.98 |
| NAPHTHALENE | ND | 2.0 | 0.98 |
| PHENANTHRENE | ND | 2.0 | 0.98 |
| PYRENE | 1.1J | 2.0 | 0.98 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 0.98 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 0.98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 23 | 19 | 9.7 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.7 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.7 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.7 |
| DIETHYLPHTHALATE | ND | 19 | 9.7 |
| DIMETHYLPHTHALATE | ND | 19 | 9.7 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 0.98 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 239 | 384.0 | 62.2 | 40-130 |
| 2-FLUOROBIPHENYL | 248 | 384.0 | 64.5 | 45-130 |
| TERPHENYL-D14 | 446 | 384.0 | 116 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-096-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 18:17 |
| Lab Samp ID: C285-03 | Dilution Factor: 1 |
| Lab File ID: RDH129 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 13.7 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 0.98 |
| ACENAPHTHYLENE | ND | 2.0 | 0.98 |
| ANTHRACENE | ND | 2.0 | 0.98 |
| BENZO(A)ANTHRACENE | 2.5 | 2.0 | 0.98 |
| BENZO(A)PYRENE | ND | 2.0 | 0.98 |
| BENZO(B)FLUORANTHENE | ND | 2.0 | 0.98 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 0.98 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 0.98 |
| CHRYSENE | 1.5J | 2.0 | 0.98 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 0.98 |
| FLUORANTHENE | ND | 2.0 | 0.98 |
| FLUORENE | ND | 2.0 | 0.98 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 0.98 |
| NAPHTHALENE | ND | 2.0 | 0.98 |
| PHENANTHRENE | ND | 2.0 | 0.98 |
| PYRENE | 1.5J | 2.0 | 0.98 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 0.98 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 0.98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 36 | 19 | 9.7 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.7 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.7 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.7 |
| DIETHYLPHTHALATE | ND | 19 | 9.7 |
| DIMETHYLPHTHALATE | ND | 19 | 9.7 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 0.98 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 248 | 386.2 | 64.3 | 40-130 |
| 2-FLUOROBIPHENYL | 264 | 386.2 | 68.3 | 45-130 |
| TERPHENYL-D14 | 433 | 386.2 | 112 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-135-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 18:36 |
| Lab Samp ID: C285-04 | Dilution Factor: 1 |
| Lab File ID: RDH130 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 12.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.97 |
| ACENAPHTHYLENE | ND | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)PYRENE | ND | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.97 |
| CHRYSENE | ND | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | ND | 1.9 | 0.97 |
| FLUORENE | ND | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.97 |
| NAPHTHALENE | ND | 1.9 | 0.97 |
| PHENANTHRENE | ND | 1.9 | 0.97 |
| PYRENE | ND | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 22 | 19 | 9.6 |
| BUTYLBENZYLPHTHALATE | 44 | 19 | 9.6 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.6 |
| DIETHYLPHTHALATE | ND | 19 | 9.6 |
| DIMETHYLPHTHALATE | ND | 19 | 9.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 212 | 382.2 | 55.4 | 40-130 |
| 2-FLUOROBIPHENYL | 219 | 382.2 | 57.3 | 45-130 |
| TERPHENYL-D14 | 353 | 382.2 | 92.4 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-136-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 18:55 |
| Lab Samp ID: C285-05 | Dilution Factor: 1 |
| Lab File ID: RDH131 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 9.7 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.94 |
| ACENAPHTHYLENE | ND | 1.9 | 0.94 |
| ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)PYRENE | ND | 1.9 | 0.94 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.94 |
| CHRYSENE | ND | 1.9 | 0.94 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.94 |
| FLUORANTHENE | ND | 1.9 | 0.94 |
| FLUORENE | ND | 1.9 | 0.94 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.94 |
| NAPHTHALENE | ND | 1.9 | 0.94 |
| PHENANTHRENE | ND | 1.9 | 0.94 |
| PYRENE | ND | 1.9 | 0.94 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 20 | 18 | 9.3 |
| BUTYLBENZYLPHTHALATE | 26 | 18 | 9.3 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.3 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.3 |
| DIETHYLPHTHALATE | ND | 18 | 9.3 |
| DIMETHYLPHTHALATE | ND | 18 | 9.3 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.94 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 252 | 369.1 | 68.3 | 40-130 |
| 2-FLUOROBIPHENYL | 260 | 369.1 | 70.5 | 45-130 |
| TERPHENYL-D14 | 363 | 369.1 | 98.4 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-139-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 19:14 |
| Lab Samp ID: C285-06 | Dilution Factor: 1 |
| Lab File ID: RDH132 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 16.3 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | 1.1J | 2.0 | 1.0 |
| ACENAPHTHYLENE | 1.2J | 2.0 | 1.0 |
| ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)PYRENE | ND | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | 1.2J | 2.0 | 1.0 |
| CHRYSENE | ND | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 1.0 |
| FLUORANTHENE | ND | 2.0 | 1.0 |
| FLUORENE | 1.1J | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 1.0 |
| NAPHTHALENE | 1.3J | 2.0 | 1.0 |
| PHENANTHRENE | ND | 2.0 | 1.0 |
| PYRENE | 1.2J | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | 1.3J | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | 1.2J | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 31 | 20 | 10 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 228 | 398.2 | 57.2 | 40-130 |
| 2-FLUOROBIPHENYL | 245 | 398.2 | 61.5 | 45-130 |
| TERPHENYL-D14 | 356 | 398.2 | 89.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-141-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 19:33 |
| Lab Samp ID: C285-07 | Dilution Factor: 1 |
| Lab File ID: RDH133 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 10.9 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)PYRENE | ND | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | 2.3 | 1.9 | 0.95 |
| CHRYSENE | ND | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | ND | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.95 |
| NAPHTHALENE | ND | 1.9 | 0.95 |
| PHENANTHRENE | ND | 1.9 | 0.95 |
| PYRENE | 2.2 | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 37 | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 248 | 374.1 | 66.4 | 40-130 |
| 2-FLUOROBIPHENYL | 243 | 374.1 | 65.0 | 45-130 |
| TERPHENYL-D14 | 346 | 374.1 | 92.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-143-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 19:52 |
| Lab Samp ID: C285-08 | Dilution Factor: 1 |
| Lab File ID: RDH134 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 7.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | ND | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | ND | 1.8 | 0.92 |
| PYRENE | ND | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 25 | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | 38 | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 214 | 361.5 | 59.3 | 40-130 |
| 2-FLUOROBIPHENYL | 215 | 361.5 | 59.5 | 45-130 |
| TERPHENYL-D14 | 330 | 361.5 | 91.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-036-NBZ-SB-4.0-5.0 | Date Analyzed: 04/10/12 20:11 |
| Lab Samp ID: C285-10 | Dilution Factor: 1 |
| Lab File ID: RDH135 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 11.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.96 |
| ACENAPHTHYLENE | ND | 1.9 | 0.96 |
| ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)PYRENE | ND | 1.9 | 0.96 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.96 |
| CHRYSENE | ND | 1.9 | 0.96 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.96 |
| FLUORANTHENE | ND | 1.9 | 0.96 |
| FLUORENE | ND | 1.9 | 0.96 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.96 |
| NAPHTHALENE | ND | 1.9 | 0.96 |
| PHENANTHRENE | ND | 1.9 | 0.96 |
| PYRENE | ND | 1.9 | 0.96 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 16J | 19 | 9.5 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.5 |
| DIETHYLPHTHALATE | ND | 19 | 9.5 |
| DIMETHYLPHTHALATE | ND | 19 | 9.5 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.96 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 212 | 377.9 | 56.2 | 40-130 |
| 2-FLUOROBIPHENYL | 219 | 377.9 | 58.1 | 45-130 |
| TERPHENYL-D14 | 333 | 377.9 | 88.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-037-NBZ-SB-3.0-4.0 | Date Analyzed: 04/10/12 20:30 |
| Lab Samp ID: C285-12 | Dilution Factor: 1 |
| Lab File ID: RDH136 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 10.2 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)PYRENE | ND | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.95 |
| CHRYSENE | ND | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | ND | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.95 |
| NAPHTHALENE | ND | 1.9 | 0.95 |
| PHENANTHRENE | ND | 1.9 | 0.95 |
| PYRENE | ND | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 17J | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 242 | 371.2 | 65.2 | 40-130 |
| 2-FLUOROBIPHENYL | 240 | 371.2 | 64.6 | 45-130 |
| TERPHENYL-D14 | 403 | 371.2 | 109 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-040-NBZ-SB-2.5-3.5 | Date Analyzed: 04/10/12 20:48 |
| Lab Samp ID: C285-14 | Dilution Factor: 1 |
| Lab File ID: RDH137 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 4.5 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.89 |
| ACENAPHTHYLENE | ND | 1.8 | 0.89 |
| ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)PYRENE | ND | 1.8 | 0.89 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.89 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.89 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.89 |
| CHRYSENE | ND | 1.8 | 0.89 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.89 |
| FLUORANTHENE | ND | 1.8 | 0.89 |
| FLUORENE | ND | 1.8 | 0.89 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.89 |
| NAPHTHALENE | ND | 1.8 | 0.89 |
| PHENANTHRENE | ND | 1.8 | 0.89 |
| PYRENE | ND | 1.8 | 0.89 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 250 | 17 | 8.8 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.8 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.8 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.8 |
| DIETHYLPHTHALATE | ND | 17 | 8.8 |
| DIMETHYLPHTHALATE | 50 | 17 | 8.8 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.89 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 215 | 349.0 | 61.5 | 40-130 |
| 2-FLUOROBIPHENYL | 229 | 349.0 | 65.6 | 45-130 |
| TERPHENYL-D14 | 342 | 349.0 | 97.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: SL-036-NBZ-SB-7.5-8.5 | Date Analyzed: 04/10/12 21:07 |
| Lab Samp ID: C285-16 | Dilution Factor: 1 |
| Lab File ID: RDH138 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 23.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.2 | 1.1 |
| ACENAPHTHYLENE | ND | 2.2 | 1.1 |
| ANTHRACENE | ND | 2.2 | 1.1 |
| BENZO(A)ANTHRACENE | ND | 2.2 | 1.1 |
| BENZO(A)PYRENE | ND | 2.2 | 1.1 |
| BENZO(B)FLUORANTHENE | ND | 2.2 | 1.1 |
| BENZO(K)FLUORANTHENE | ND | 2.2 | 1.1 |
| BENZO(G,H,I)PERYLENE | ND | 2.2 | 1.1 |
| CHRYSENE | ND | 2.2 | 1.1 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.2 | 1.1 |
| FLUORANTHENE | ND | 2.2 | 1.1 |
| FLUORENE | ND | 2.2 | 1.1 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.2 | 1.1 |
| NAPHTHALENE | ND | 2.2 | 1.1 |
| PHENANTHRENE | ND | 2.2 | 1.1 |
| PYRENE | ND | 2.2 | 1.1 |
| 2-METHYLNAPHTHALENE | ND | 2.2 | 1.1 |
| 1-METHYLNAPHTHALENE | ND | 2.2 | 1.1 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 32 | 22 | 11 |
| BUTYLBENZYLPHTHALATE | ND | 22 | 11 |
| DI-N-BUTYLPHTHALATE | ND | 22 | 11 |
| DI-N-OCTYLPHTHALATE | ND | 22 | 11 |
| DIETHYLPHTHALATE | ND | 22 | 11 |
| DIMETHYLPHTHALATE | ND | 22 | 11 |
| N-NITROSODIMETHYLAMINE | ND | 2.2 | 1.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 198 | 436.3 | 45.5 | 40-130 |
| 2-FLUOROBIPHENYL | 205 | 436.3 | 47.0 | 45-130 |
| TERPHENYL-D14 | 367 | 436.3 | 84.0 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: DUP-03-NBZ-QC-032812 | Date Analyzed: 04/10/12 21:26 |
| Lab Samp ID: C285-17 | Dilution Factor: 1 |
| Lab File ID: RDH139 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : 5.9 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.90 |
| ACENAPHTHYLENE | ND | 1.8 | 0.90 |
| ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)PYRENE | ND | 1.8 | 0.90 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(G,H,I)PERYLENE | 1.3J | 1.8 | 0.90 |
| CHRYSENE | ND | 1.8 | 0.90 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.90 |
| FLUORANTHENE | ND | 1.8 | 0.90 |
| FLUORENE | ND | 1.8 | 0.90 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.90 |
| NAPHTHALENE | ND | 1.8 | 0.90 |
| PHENANTHRENE | ND | 1.8 | 0.90 |
| PYRENE | ND | 1.8 | 0.90 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 65 | 18 | 8.9 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 8.9 |
| DIETHYLPHTHALATE | ND | 18 | 8.9 |
| DIMETHYLPHTHALATE | 26 | 18 | 8.9 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.90 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 214 | 354.2 | 60.4 | 40-130 |
| 2-FLUOROBIPHENYL | 222 | 354.2 | 62.8 | 45-130 |
| TERPHENYL-D14 | 316 | 354.2 | 89.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12C285 | Date Extracted: 04/09/12 15:41 |
| Sample ID: MBLK1S | Date Analyzed: 04/11/12 15:31 |
| Lab Samp ID: SVD016SQ | Dilution Factor: 1 |
| Lab File ID: RDH150 | Matrix : SOIL |
| Ext Btch ID: SVD016S | % Moisture : NA |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 254 | 333.3 | 76.2 | 40-130 |
| 2-FLUOROBIPHENYL | 277 | 333.3 | 83.2 | 45-130 |
| TERPHENYL-D14 | 330 | 333.3 | 99.1 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVD016SQ | SVD016SX | SVD016SY | | |
| LAB FILE ID: | RDH150 | RDH152 | RDH153 | | |
| DATE EXTRACTED: | 04/09/1215:41 | 04/09/1215:41 | 04/09/1215:41 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1215:31 | 04/11/1216:09 | 04/11/1216:28 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | SVD016S | SVD016S | SVD016S | | |
| CALIB. REF: | RCH007 | RCH007 | RCH007 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 267 | 80 | 333 | 274 | 82 | 3 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 287 | 86 | 333 | 293 | 88 | 2 | 20-130 | 50 |
| Anthracene | ND | 333 | 254 | 76 | 333 | 256 | 77 | 1 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 289 | 87 | 333 | 326 | 98 | 12 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 307 | 92 | 333 | 309 | 93 | 0 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 329 | 99 | 333 | 327 | 98 | 1 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 333 | 100 | 333 | 334 | 100 | 0 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 364 | 109 | 333 | 368 | 110 | 1 | 30-140 | 50 |
| Chrysene | ND | 333 | 282 | 85 | 333 | 318 | 95 | 12 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 349 | 105 | 333 | 355 | 106 | 2 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 298 | 89 | 333 | 318 | 95 | 7 | 30-130 | 50 |
| Fluorene | ND | 333 | 275 | 83 | 333 | 280 | 84 | 2 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 349 | 105 | 333 | 355 | 106 | 2 | 20-160 | 50 |
| Naphthalene | ND | 333 | 239 | 72 | 333 | 247 | 74 | 3 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 252 | 76 | 333 | 251 | 75 | 0 | 20-130 | 50 |
| Pyrene | ND | 333 | 280 | 84 | 333 | 304 | 91 | 8 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 246 | 74 | 333 | 254 | 76 | 3 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 254 | 76 | 333 | 262 | 79 | 3 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 245 | 73 | 333 | 272 | 82 | 11 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 237 | 71 | 333 | 265 | 80 | 11 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 246 | 74 | 333 | 256 | 77 | 4 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 243 | 73 | 333 | 241 | 72 | 1 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 256 | 77 | 333 | 251 | 75 | 2 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 263 | 79 | 333 | 264 | 79 | 0 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 253 | 76 | 333 | 259 | 78 | 2 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 199 | 60 | 333 | 218 | 65 | 40-130 |
| 2-Fluorobiphenyl | 333 | 221 | 66 | 333 | 242 | 72 | 45-130 |
| Terphenyl-d14 | 333 | 286 | 86 | 333 | 327 | 98 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: 4.5

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-040-NBZ-SB-2.5-3.5 | | | | |
| LAB SAMP ID: | C285-14 | C285-14M | C285-14S | | |
| LAB FILE ID: | RDH137 | RDH154 | RDH155 | | |
| DATE EXTRACTED: | 04/09/1215:41 | 04/09/1215:41 | 04/09/1215:41 | DATE COLLECTED: | 03/28/12 |
| DATE ANALYZED: | 04/10/1220:48 | 04/11/1216:47 | 04/11/1217:05 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | SVD016S | SVD016S | SVD016S | | |
| CALIB. REF: | RCH007 | RCH007 | RCH007 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 349 | 295 | 84 | 349 | 294 | 84 | 0 | 10-130 | 50 |
| Acenaphthylene | ND | 349 | 314 | 90 | 349 | 315 | 90 | 0 | 20-130 | 50 |
| Anthracene | ND | 349 | 300 | 86 | 349 | 284 | 81 | 5 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 349 | 338 | 97 | 349 | 295 | 84 | 14 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 349 | 342 | 98 | 349 | 325 | 93 | 5 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 349 | 374 | 107 | 349 | 338 | 97 | 10 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 349 | 350 | 100 | 349 | 346 | 99 | 1 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 349 | 387 | 111 | 349 | 370 | 106 | 4 | 30-140 | 50 |
| Chrysene | ND | 349 | 333 | 95 | 349 | 294 | 84 | 13 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 349 | 379 | 109 | 349 | 366 | 105 | 4 | 30-130 | 50 |
| Fluoranthene | ND | 349 | 360 | 103 | 349 | 328 | 94 | 9 | 30-130 | 50 |
| Fluorene | ND | 349 | 316 | 90 | 349 | 304 | 87 | 4 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 349 | 377 | 108 | 349 | 363 | 104 | 4 | 20-160 | 50 |
| Naphthalene | ND | 349 | 191 | 55 | 349 | 212 | 61 | 10 | 10-130 | 50 |
| Phenanthrene | ND | 349 | 293 | 84 | 349 | 282 | 81 | 4 | 20-130 | 50 |
| Pyrene | ND | 349 | 348 | 100 | 349 | 320 | 92 | 9 | 10-160 | 50 |
| 2-Methylnaphthalene | ND | 349 | 238 | 68 | 349 | 251 | 72 | 5 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 349 | 250 | 71 | 349 | 262 | 75 | 5 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | 247 | 349 | 818 | 164* | 349 | 930 | 196* | 13 | 20-150 | 50 |
| Butylbenzylphthalate | ND | 349 | 312 | 89 | 349 | 280 | 80 | 11 | 20-150 | 50 |
| Di-n-butylphthalate | ND | 349 | 298 | 85 | 349 | 264 | 76 | 12 | 20-150 | 50 |
| Di-n-octylphthalate | ND | 349 | 289 | 83 | 349 | 276 | 79 | 5 | 10-150 | 50 |
| Diethylphthalate | ND | 349 | 287 | 82 | 349 | 271 | 78 | 6 | 20-150 | 50 |
| Dimethylphthalate | 49.8 | 349 | 297 | 71 | 349 | 291 | 69 | 2 | 20-150 | 50 |
| N-Nitrosodimethylamine | ND | 349 | 216 | 62 | 349 | 236 | 68 | 9 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 349 | 181 | 52 | 349 | 208 | 59 | 40-130 |
| 2-Fluorobiphenyl | 349 | 229 | 66 | 349 | 249 | 71 | 45-130 |
| Terphenyl-d14 | 349 | 314 | 90 | 349 | 306 | 88 | 45-135 |

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 03/29/12 22:37 |
| Sample ID: TB-032812 | Date Analyzed: 03/29/12 22:37 |
| Lab Samp ID: C285-18 | Dilution Factor: 1 |
| Lab File ID: EC29012A | Matrix : WATER |
| Ext Btch ID: VA39C14 | % Moisture : NA |
| Calib. Ref.: EC29002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 60 | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 35.4 | 40.00 | 88.5 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C285 | Date Extracted: 03/29/12 16:20 |
| Sample ID: MBLK1W | Date Analyzed: 03/29/12 16:20 |
| Lab Samp ID: VA39C14B | Dilution Factor: 1 |
| Lab File ID: EC29003A | Matrix : WATER |
| Ext Btch ID: VA39C14 | % Moisture : NA |
| Calib. Ref.: EC29002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 35.7 | 40.00 | 89.3 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 5030B/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VA39C14B | VA39C14L | VA39C14C | | |
| LAB FILE ID: | EC29003A | EC29004A | EC29005A | | |
| DATE EXTRACTED: | 03/29/1216:20 | 03/29/1217:02 | 03/29/1217:44 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/29/1216:20 | 03/29/1217:02 | 03/29/1217:44 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | VA39C14 | VA39C14 | VA39C14 | | |
| CALIB. REF: | EC29002A | EC29002A | EC29002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 500 | 456 | 91 | 500 | 489 | 98 | 7 | 60-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 40.0 | 39.1 | 98 | 40.0 | 41.3 | 103 | 60-130 |

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 03/31/12 10:17 |
| Sample ID: SL-036-NBZ-SB-4.5 | Date Analyzed: 03/31/12 10:17 |
| Lab Samp ID: C285-09 | Dilution Factor: 0.93 |
| Lab File ID: EC29063A | Matrix : SOIL |
| Ext Btch ID: GMC028S | % Moisture : 12.3 |
| Calib. Ref.: EC29058A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.53 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.74 | 2.121 | 82.2 | 60-130 |

RL : Reporting Limit

Methanol Extraction: 03/29/12 14:08

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 03/31/12 10:59 |
| Sample ID: SL-037-NBZ-SB-3.5 | Date Analyzed: 03/31/12 10:59 |
| Lab Samp ID: C285-11 | Dilution Factor: 1.01 |
| Lab File ID: EC29064A | Matrix : SOIL |
| Ext Btch ID: GMC028S | % Moisture : 9.5 |
| Calib. Ref.: EC29058A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.56 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.90 | 2.232 | 85.3 | 60-130 |

RL : Reporting Limit

Methanol Extraction: 03/29/12 14:08

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 03/31/12 11:41 |
| Sample ID: SL-040-NBZ-SB-3.0 | Date Analyzed: 03/31/12 11:41 |
| Lab Samp ID: C285-13 | Dilution Factor: 1.04 |
| Lab File ID: EC29065A | Matrix : SOIL |
| Ext Btch ID: GMC028S | % Moisture : 5.0 |
| Calib. Ref.: EC29058A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.55 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.87 | 2.189 | 85.5 | 60-130 |

RL : Reporting Limit

Methanol Extraction: 03/29/12 14:08

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 03/31/12 13:47 |
| Sample ID: SL-036-NBZ-SB-8.0 | Date Analyzed: 03/31/12 13:47 |
| Lab Samp ID: C285-15 | Dilution Factor: 0.92 |
| Lab File ID: EC29068A | Matrix : SOIL |
| Ext Btch ID: GMC028S | % Moisture : 15.4 |
| Calib. Ref.: EC29058A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 1.6 | 1.1 | 0.54 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.73 | 2.175 | 79.7 | 60-130 |

RL : Reporting Limit

Methanol Extraction: 03/29/12 14:08

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 03/31/12 14:29 |
| Sample ID: DUP-03-NBZ-QC-032812 | Date Analyzed: 03/31/12 14:29 |
| Lab Samp ID: C285-17 | Dilution Factor: 0.98 |
| Lab File ID: EC29069A | Matrix : SOIL |
| Ext Btch ID: GMC028S | % Moisture : 5.9 |
| Calib. Ref.: EC29058A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.75 | 2.083 | 84.2 | 60-130 |

RL : Reporting Limit

Methanol Extraction: 03/29/12 14:08

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/31/12 |
| Batch No. : 12C285 | Date Extracted: 03/31/12 07:29 |
| Sample ID: MBLK1S | Date Analyzed: 03/31/12 07:29 |
| Lab Samp ID: GMC028SB | Dilution Factor: 1 |
| Lab File ID: EC29059A | Matrix : SOIL |
| Ext Btch ID: GMC028S | % Moisture : NA |
| Calib. Ref.: EC29058A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.78 | 2.000 | 89.1 | 60-130 |

RL : Reporting Limit

Methanol Extraction: 03/29/12 14:08

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 5035/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | GMC028SB | GMC028SL | GMC028SC | | |
| LAB FILE ID: | EC29059A | EC29060A | EC29061A | | |
| DATE EXTRACTED: | 03/31/1207:29 | 03/31/1208:11 | 03/31/1208:53 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/31/1207:29 | 03/31/1208:11 | 03/31/1208:53 | DATE RECEIVED: | 03/31/12 |
| PREP. BATCH: | GMC028S | GMC028S | GMC028S | | |
| CALIB. REF: | EC29058A | EC29058A | EC29058A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 25.0 | 22.5 | 90 | 25.0 | 24.3 | 97 | 8 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 2.00 | 2.05 | 103 | 2.00 | 2.10 | 105 | 60-130 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 5035/8015B GRO

MATRIX: SOIL % MOISTURE: 5.0

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1.04 | 1.06 | 1.05 | | |
| SAMPLE ID: | SL-040-NBZ-SB-3.0 | | | | |
| LAB SAMP ID: | C285-13 | C285-13M | C285-13S | | |
| LAB FILE ID: | EC29065A | EC29066A | EC29067A | | |
| DATE EXTRACTED: | 03/31/1211:41 | 03/31/1212:23 | 03/31/1213:05 | DATE COLLECTED: | 03/28/12 |
| DATE ANALYZED: | 03/31/1211:41 | 03/31/1212:23 | 03/31/1213:05 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | GMC028S | GMC028S | GMC028S | | |
| CALIB. REF: | EC29058A | EC29058A | EC29058A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 27.9 | 24.2 | 87 | 27.6 | 24.2 | 88 | 1 | 50-130 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 2.23 | 2.22 | 99 | 2.21 | 2.18 | 99 | 60-130 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/03/12 10:30 |
| Sample ID: SL-040-NBZ-SS-0.0-0.5 | Date Analyzed: 04/04/12 00:20 |
| Lab Samp ID: C285-01 | Dilution Factor: 1 |
| Lab File ID: LD03026A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : 11.1 |
| Calib. Ref.: LD03015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.96J | 1.1 | 0.56 |
| EFH(C12-C14) | ND | 1.1 | 0.56 |
| EFH(C15-C20) | 2.4 | 1.1 | 0.56 |
| EFH(C21-C30) | 6.8 | 1.1 | 0.56 |
| EFH(C30-C40) | 12 | 1.1 | 0.56 |
| TOTAL EFH(C8-C40) | 22 | 1.1 | 0.56 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.38 | 11.25 | 65.6 | 50-150 |
| HEXACOSANE | 2.47 | 2.812 | 87.7 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/03/12 10:30 |
| Sample ID: SL-036-NBZ-SB-4.0-5.0 | Date Analyzed: 04/03/12 22:55 |
| Lab Samp ID: C285-10 | Dilution Factor: 1 |
| Lab File ID: LD03021A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : 11.8 |
| Calib. Ref.: LD03015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.80J | 1.1 | 0.57 |
| EFH(C12-C14) | ND | 1.1 | 0.57 |
| EFH(C15-C20) | ND | 1.1 | 0.57 |
| EFH(C21-C30) | 0.68J | 1.1 | 0.57 |
| EFH(C30-C40) | 1.1J | 1.1 | 0.57 |
| TOTAL EFH(C8-C40) | 2.6 | 1.1 | 0.57 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.94 | 11.34 | 70.0 | 50-150 |
| HEXACOSANE | 2.46 | 2.834 | 86.8 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/03/12 10:30 |
| Sample ID: SL-037-NBZ-SB-3.0-4.0 | Date Analyzed: 04/03/12 23:12 |
| Lab Samp ID: C285-12 | Dilution Factor: 1 |
| Lab File ID: LD03022A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : 10.2 |
| Calib. Ref.: LD03015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.95J | 1.1 | 0.56 |
| EFH(C12-C14) | ND | 1.1 | 0.56 |
| EFH(C15-C20) | ND | 1.1 | 0.56 |
| EFH(C21-C30) | 1.9 | 1.1 | 0.56 |
| EFH(C30-C40) | 2.6 | 1.1 | 0.56 |
| TOTAL EFH(C8-C40) | 5.5 | 1.1 | 0.56 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.38 | 11.14 | 66.2 | 50-150 |
| HEXACOSANE | 2.65 | 2.784 | 95.2 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/03/12 10:30 |
| Sample ID: SL-040-NBZ-SB-2.5-3.5 | Date Analyzed: 04/04/12 02:36 |
| Lab Samp ID: C285-14 | Dilution Factor: 1 |
| Lab File ID: LD03034A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : 4.5 |
| Calib. Ref.: LD03027A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.53J | 1.0 | 0.52 |
| EFH(C12-C14) | 0.85J | 1.0 | 0.52 |
| EFH(C15-C20) | 38 | 1.0 | 0.52 |
| EFH(C21-C30) | 41 | 1.0 | 0.52 |
| EFH(C30-C40) | 12 | 1.0 | 0.52 |
| TOTAL EFH(C8-C40) | 92 | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.01 | 10.47 | 57.4 | 50-150 |
| HEXACOSANE | 2.74 | 2.618 | 105 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/03/12 10:30 |
| Sample ID: SL-036-NBZ-SB-7.5-8.5 | Date Analyzed: 04/03/12 23:29 |
| Lab Samp ID: C285-16 | Dilution Factor: 1 |
| Lab File ID: LD03023A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : 23.6 |
| Calib. Ref.: LD03015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.3 | 0.65 |
| EFH(C12-C14) | ND | 1.3 | 0.65 |
| EFH(C15-C20) | ND | 1.3 | 0.65 |
| EFH(C21-C30) | ND | 1.3 | 0.65 |
| EFH(C30-C40) | 0.76J | 1.3 | 0.65 |
| TOTAL EFH(C8-C40) | 0.76J | 1.3 | 0.65 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 8.03 | 13.09 | 61.3 | 50-150 |
| HEXACOSANE | 3.22 | 3.272 | 98.3 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/03/12 10:30 |
| Sample ID: DUP-03-NBZ-QC-032812 | Date Analyzed: 04/04/12 03:27 |
| Lab Samp ID: C285-17 | Dilution Factor: 1 |
| Lab File ID: LD03037A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : 5.9 |
| Calib. Ref.: LD03027A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.55J | 1.1 | 0.53 |
| EFH(C12-C14) | 0.90J | 1.1 | 0.53 |
| EFH(C15-C20) | 37 | 1.1 | 0.53 |
| EFH(C21-C30) | 43 | 1.1 | 0.53 |
| EFH(C30-C40) | 8.3 | 1.1 | 0.53 |
| TOTAL EFH(C8-C40) | 90 | 1.1 | 0.53 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.56 | 10.63 | 61.7 | 50-150 |
| HEXACOSANE | 2.78 | 2.657 | 104 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12C285 | Date Extracted: 04/03/12 10:30 |
| Sample ID: MBLK1S | Date Analyzed: 04/03/12 21:47 |
| Lab Samp ID: DSD002SB | Dilution Factor: 1 |
| Lab File ID: LD03017A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : NA |
| Calib. Ref.: LD03015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.38 | 10.00 | 73.8 | 50-150 |
| HEXACOSANE | 2.16 | 2.500 | 86.4 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 3550B/8015B EFH

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSD002SB | DSD002SL | DSD002SC | | |
| LAB FILE ID: | LD03017A | LD03018A | LD03019A | | |
| DATE EXTRACTED: | 04/03/1210:30 | 04/03/1210:30 | 04/03/1210:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1221:47 | 04/03/1222:04 | 04/03/1222:21 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | DSD002S | DSD002S | DSD002S | | |
| CALIB. REF: | LD03015A | LD03015A | LD03015A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 52.3 | 105 | 50.0 | 48.8 | 98 | 7 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 7.95 | 79 | 10.0 | 7.68 | 77 | 50-150 |
| Hexacosane | 2.50 | 2.27 | 91 | 2.50 | 2.15 | 86 | 50-150 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 4.5 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-040-NBZ-SB-2.5-3.5 | | | | |
| LAB SAMP ID: | C285-14 | C285-14M | C285-14S | | |
| LAB FILE ID: | LD03034A | LD03035A | LD03036A | | |
| DATE EXTRACTED: | 04/03/1210:30 | 04/03/1210:30 | 04/03/1210:30 | DATE COLLECTED: | 03/28/12 |
| DATE ANALYZED: | 04/04/1202:36 | 04/04/1202:53 | 04/04/1203:10 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | DSD002S | DSD002S | DSD002S | | |
| CALIB. REF: | LD03027A | LD03027A | LD03027A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | 92.4 | 52.4 | 187 | 181* | 52.4 | 146 | 102 | 25 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.5 | 7.18 | 69 | 10.5 | 7.89 | 75 | 50-150 |
| Hexacosane | 2.62 | 3.27 | 125 | 2.62 | 2.97 | 113 | 50-150 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 03/29/12 11:40 |
| Sample ID: SL-040-NBZ-SS-0.0-0.5 | Date Analyzed: 03/30/12 12:47 |
| Lab Samp ID: C285-01 | Dilution Factor: 1 |
| Lab File ID: BC30018A | Matrix : SOIL |
| Ext Btch ID: MEC008S | % Moisture : 11.1 |
| Calib. Ref.: BC30006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 560 | 280 |
| ISOPROPANOL | ND | 560 | 280 |
| METHANOL | ND | 560 | 280 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 03/29/12 11:40 |
| Sample ID: SL-036-NBZ-SB-4.0-5.0 | Date Analyzed: 03/30/12 13:04 |
| Lab Samp ID: C285-10 | Dilution Factor: 1 |
| Lab File ID: BC30019A | Matrix : SOIL |
| Ext Btch ID: MEC008S | % Moisture : 11.8 |
| Calib. Ref.: BC30006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 570 | 280 |
| ISOPROPANOL | ND | 570 | 280 |
| METHANOL | ND | 570 | 280 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 03/29/12 11:40 |
| Sample ID: SL-037-NBZ-SB-3.0-4.0 | Date Analyzed: 03/30/12 14:55 |
| Lab Samp ID: C285-12 | Dilution Factor: 1 |
| Lab File ID: BC30027A | Matrix : SOIL |
| Ext Btch ID: MEC008S | % Moisture : 10.2 |
| Calib. Ref.: BC30022A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 560 | 280 |
| ISOPROPANOL | ND | 560 | 280 |
| METHANOL | ND | 560 | 280 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 03/29/12 11:40 |
| Sample ID: SL-040-NBZ-SB-2.5-3.5 | Date Analyzed: 03/30/12 13:22 |
| Lab Samp ID: C285-14 | Dilution Factor: 1 |
| Lab File ID: BC30021A | Matrix : SOIL |
| Ext Btch ID: MEC008S | % Moisture : 4.5 |
| Calib. Ref.: BC30006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 03/29/12 11:40 |
| Sample ID: SL-036-NBZ-SB-7.5-8.5 | Date Analyzed: 03/30/12 14:27 |
| Lab Samp ID: C285-16 | Dilution Factor: 1 |
| Lab File ID: BC30025A | Matrix : SOIL |
| Ext Btch ID: MEC008S | % Moisture : 23.6 |
| Calib. Ref.: BC30022A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 650 | 330 |
| ISOPROPANOL | ND | 650 | 330 |
| METHANOL | ND | 650 | 330 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 03/29/12 11:40 |
| Sample ID: DUP-03-NBZ-QC-032812 | Date Analyzed: 03/30/12 14:42 |
| Lab Samp ID: C285-17 | Dilution Factor: 1 |
| Lab File ID: BC30026A | Matrix : SOIL |
| Ext Btch ID: MEC008S | % Moisture : 5.9 |
| Calib. Ref.: BC30022A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 530 | 270 |
| ISOPROPANOL | ND | 530 | 270 |
| METHANOL | ND | 530 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C285 | Date Extracted: 03/29/12 11:40 |
| Sample ID: MBLK1S | Date Analyzed: 03/30/12 08:49 |
| Lab Samp ID: MEC008SB | Dilution Factor: 1 |
| Lab File ID: BC30007A | Matrix : SOIL |
| Ext Btch ID: MEC008S | % Moisture : NA |
| Calib. Ref.: BC30006A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 500 | 250 |
| ISOPROPANOL | ND | 500 | 250 |
| METHANOL | ND | 500 | 250 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | MEC008SB | MEC008SL | MEC008SC | | |
| LAB FILE ID: | BC30007A | BC30008A | BC30009A | | |
| DATE EXTRACTED: | 03/29/1211:40 | 03/29/1211:40 | 03/29/1211:40 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1208:49 | 03/30/1209:18 | 03/30/1209:45 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | MEC008S | MEC008S | MEC008S | | |
| CALIB. REF: | BC30006A | BC30006A | BC30006A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 9020 | 90 | 10000 | 8200 | 82 | 10 | 50-150 | 50 |
| Isopropanol | ND | 10000 | 9470 | 95 | 10000 | 9970 | 100 | 5 | 50-150 | 50 |
| Methanol | ND | 10000 | 11400 | 114 | 10000 | 11400 | 114 | 0 | 50-150 | 50 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 8015B

MATRIX: SOIL % MOISTURE: 4.5
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-040-NBZ-SB-2.5-3.5
LAB SAMP ID: C285-14 C285-14M C285-14S
LAB FILE ID: BC30021A BC30023A BC30024A
DATE EXTRACTED: 03/29/1211:40 03/29/1211:40 03/29/1211:40 DATE COLLECTED: 03/28/12
DATE ANALYZED: 03/30/1213:22 03/30/1213:52 03/30/1214:11 DATE RECEIVED: 03/28/12
PREP. BATCH: MEC008S MEC008S MEC008S
CALIB. REF: BC30006A BC30022A BC30022A

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10500 | 10200 | 98 | 10500 | 8320 | 80 | 21 | 30-150 | 50 |
| Isopropanol | ND | 10500 | 10300 | 98 | 10500 | 10500 | 100 | 2 | 50-150 | 50 |
| Methanol | ND | 10500 | 10200 | 97 | 10500 | 11700 | 111 | 13 | 50-140 | 50 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/28/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/28/12 |
| Batch No. | : 12C285 | Date Extracted | : 03/29/12 11:40 |
| Sample ID | : SL-040-NBZ-SS-0.0-0.5 | Date Analyzed | : 03/30/12 12:16 |
| Lab Samp ID | : C285-01 | Dilution Factor | : 1 |
| Lab File ID | : TC30015A | Matrix | : SOIL |
| Ext Btch ID | : PEC008S | % Moisture | : 11.1 |
| Calib. Ref. | : TC30013A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 17 | 8.4 |
| ETHYLENE GLYCOL | ND | 11 | 5.6 |
| PROPYLENE GLYCOL | ND | 11 | 5.6 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 03/29/12 11:40 |
| Sample ID: SL-036-NBZ-SB-4.0-5.0 | Date Analyzed: 03/30/12 12:29 |
| Lab Samp ID: C285-10 | Dilution Factor: 1 |
| Lab File ID: TC30016A | Matrix : SOIL |
| Ext Btch ID: PEC008S | % Moisture : 11.8 |
| Calib. Ref.: TC30013A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 17 | 8.5 |
| ETHYLENE GLYCOL | ND | 11 | 5.7 |
| PROPYLENE GLYCOL | ND | 11 | 5.7 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/28/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/28/12 |
| Batch No. | : 12C285 | Date Extracted | : 03/29/12 11:40 |
| Sample ID | : SL-037-NBZ-SB-3.0-4.0 | Date Analyzed | : 03/30/12 14:57 |
| Lab Samp ID | : C285-12 | Dilution Factor | : 1 |
| Lab File ID | : TC30023A | Matrix | : SOIL |
| Ext Btch ID | : PEC008S | % Moisture | : 10.2 |
| Calib. Ref. | : TC30022A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 17 | 8.4 |
| ETHYLENE GLYCOL | ND | 11 | 5.6 |
| PROPYLENE GLYCOL | ND | 11 | 5.6 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/28/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/28/12 |
| Batch No. | : 12C285 | Date Extracted | : 03/29/12 11:40 |
| Sample ID | : SL-040-NBZ-SB-2.5-3.5 | Date Analyzed | : 03/30/12 13:18 |
| Lab Samp ID | : C285-14 | Dilution Factor | : 1 |
| Lab File ID | : TC30019A | Matrix | : SOIL |
| Ext Btch ID | : PEC008S | % Moisture | : 4.5 |
| Calib. Ref. | : TC30013A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.9 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 03/29/12 11:40 |
| Sample ID: SL-036-NBZ-SB-7.5-8.5 | Date Analyzed: 03/30/12 12:42 |
| Lab Samp ID: C285-16 | Dilution Factor: 1 |
| Lab File ID: TC30017A | Matrix : SOIL |
| Ext Btch ID: PEC008S | % Moisture : 23.6 |
| Calib. Ref.: TC30013A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 20 | 9.8 |
| ETHYLENE GLYCOL | ND | 13 | 6.5 |
| PROPYLENE GLYCOL | ND | 13 | 6.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 03/29/12 11:40 |
| Sample ID: DUP-03-NBZ-QC-032812 | Date Analyzed: 03/30/12 13:01 |
| Lab Samp ID: C285-17 | Dilution Factor: 1 |
| Lab File ID: TC30018A | Matrix : SOIL |
| Ext Btch ID: PEC008S | % Moisture : 5.9 |
| Calib. Ref.: TC30013A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.0 |
| ETHYLENE GLYCOL | ND | 11 | 5.3 |
| PROPYLENE GLYCOL | ND | 11 | 5.3 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/29/12 |
| Batch No. | : 12C285 | Date Extracted | : 03/29/12 11:40 |
| Sample ID | : MBLK1S | Date Analyzed | : 03/30/12 10:54 |
| Lab Samp ID | : PEC008SB | Dilution Factor | : 1 |
| Lab File ID | : TC30010A | Matrix | : SOIL |
| Ext Btch ID | : PEC008S | % Moisture | : NA |
| Calib. Ref. | : TC30004A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.5 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 5.0 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PEC008SB | PEC008SL | PEC008SC | | |
| LAB FILE ID: | TC30010A | TC30011A | TC30012A | | |
| DATE EXTRACTED: | 03/29/1211:40 | 03/29/1211:40 | 03/29/1211:40 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1210:54 | 03/30/1211:05 | 03/30/1211:17 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | PEC008S | PEC008S | PEC008S | | |
| CALIB. REF: | TC30004A | TC30004A | TC30004A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 46.7 | 93 | 50.0 | 45.9 | 92 | 2 | 50-150 | 50 |
| Ethylene Glycol | ND | 50.0 | 50.5 | 101 | 50.0 | 51.4 | 103 | 2 | 50-150 | 50 |
| Propylene Glycol | ND | 25.0 | 26.1 | 104 | 25.0 | 26.1 | 104 | 0 | 50-150 | 50 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 4.5 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-040-NBZ-SB-2.5-3.5 | | | | |
| LAB SAMP ID: | C285-14 | C285-14M | C285-14S | | |
| LAB FILE ID: | TC30019A | TC30020A | TC30024A | | |
| DATE EXTRACTED: | 03/29/1211:40 | 03/29/1211:40 | 03/29/1211:40 | DATE COLLECTED: | 03/28/12 |
| DATE ANALYZED: | 03/30/1213:18 | 03/30/1213:31 | 03/30/1215:09 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | PEC008S | PEC008S | PEC008S | | |
| CALIB. REF: | TC30013A | TC30013A | TC30022A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 52.4 | 43.9 | 84 | 52.4 | 41.0 | 78 | 7 | 50-150 | 50 |
| Ethylene Glycol | ND | 52.4 | 56.8 | 108 | 52.4 | 57.5 | 110 | 1 | 50-150 | 50 |
| Propylene Glycol | ND | 26.2 | 28.7 | 110 | 26.2 | 29.1 | 111 | 1 | 50-150 | 50 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/06/12 16:33 |
| Sample ID: SL-040-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 20:59 |
| Lab Samp ID: C285-01I | Dilution Factor: 20 |
| Lab File ID: LD19026A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : 11.1 |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 3.8 | 1.9 \| 1.9 |
| GAMMA-BHC (LINDANE) | (ND) \| 140 | 3.8 | 1.9 \| 1.9 |
| BETA-BHC | (ND) \| ND | 380 | 380 \| 380 |
| HEPTACHLOR | 18 \| (ND) | 3.8 | 1.9 \| 1.9 |
| DELTA-BHC | (ND) \| ND | 3.8 | 1.9 \| 1.9 |
| ALDRIN | 860 \| (ND) | 3.8 | 1.9 \| 1.9 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 3.8 | 1.9 \| 1.9 |
| ENDOSULFAN I | (ND) \| 990 | 3.8 | 1.9 \| 1.9 |
| 4,4'-DDE | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| DIELDRIN | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| ENDRIN | 900 \| (ND) | 7.6 | 3.8 \| 3.8 |
| 4,4'-DDD | 210 \| (ND) | 7.6 | 3.8 \| 3.8 |
| ENDOSULFAN II | 1700 \| (ND) | 7.6 | 3.8 \| 3.8 |
| 4,4'-DDT | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| ENDRIN ALDEHYDE | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| ENDOSULFAN SULFATE | (ND) \| 9.2 | 7.6 | 3.8 \| 3.8 |
| ENDRIN KETONE | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| METHOXYCHLOR | (ND) \| ND | 38 | 19 \| 19 |
| MIREX | 5.1J \| (ND) | 7.6 | 3.8 \| 3.8 |
| TOXAPHENE | (ND) \| ND | 150 | 74 \| 74 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 76 | 38 \| 38 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (5.020) \| 930.4 | 5.999 | (83.7) \| 15500* | 50-130 |
| DECACHLOROBIPHENYL | (5.725) \| 7.637 | 5.999 | (95.9) \| 127* | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/06/12 16:33 |
| Sample ID: SL-094-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 18:29 |
| Lab Samp ID: C285-02 | Dilution Factor: 1 |
| Lab File ID: LD17017A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : 13.2 |
| Calib. Ref.: LD17005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| BETA-BHC | (ND) \| 0.57 | 0.20 | 0.098 \| 0.098 |
| HEPTACHLOR | 0.49 \| (ND) | 0.20 | 0.098 \| 0.098 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| ALDRIN | 0.35 \| (ND) | 0.20 | 0.098 \| 0.098 |
| HEPTACHLOR EPOXIDE | 0.14J \| (ND) | 0.20 | 0.098 \| 0.098 |
| ENDOSULFAN I | (ND) \| 0.13J | 0.20 | 0.098 \| 0.098 |
| 4,4'-DDE | 0.34J \| (ND) | 0.39 | 0.20 \| 0.20 |
| DIELDRIN | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDRIN | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN II | 0.77 \| (ND) | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDT | 0.43 \| (ND) | 0.39 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| ND | 2.0 | 0.98 \| 0.98 |
| MIREX | 0.25J \| (ND) | 0.39 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.374 \| (7.152) | 6.144 | 87.5 \| (116) | 50-130 |
| DECACHLOROBIPHENYL | 5.799 \| (6.212) | 6.144 | 94.4 \| (101) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/06/12 16:33 |
| Sample ID: SL-096-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 18:51 |
| Lab Samp ID: C285-03 | Dilution Factor: 1 |
| Lab File ID: LD17018A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : 13.7 |
| Calib. Ref.: LD17005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.86 \| (ND) | 0.20 | 0.098 \| 0.098 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.60 | 0.20 | 0.098 \| 0.098 |
| BETA-BHC | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| HEPTACHLOR | 0.11J \| (ND) | 0.20 | 0.098 \| 0.098 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| ALDRIN | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| HEPTACHLOR EPOXIDE | 0.24 \| (ND) | 0.20 | 0.098 \| 0.098 |
| ENDOSULFAN I | (ND) \| 0.20 | 0.20 | 0.098 \| 0.098 |
| 4,4'-DDE | 1.2 \| (0.92) | 0.39 | 0.20 \| 0.20 |
| DIELDRIN | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDRIN | 1.4 \| (ND) | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN II | 0.47 \| (ND) | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDT | 1.1 \| (1.6) | 0.39 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| METHOXYCHLOR | 2.1 \| (ND) | 2.0 | 0.98 \| 0.98 |
| MIREX | 2.5 \| (ND) | 0.39 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (5.768) \| 8.076 | 6.180 | (93.3) \| 131* | 50-130 |
| DECACHLOROBIPHENYL | (5.608) \| 5.434 | 6.180 | (90.7) \| 87.9 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/06/12 16:33 |
| Sample ID: SL-135-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 19:14 |
| Lab Samp ID: C285-04 | Dilution Factor: 1 |
| Lab File ID: LD17019A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : 12.8 |
| Calib. Ref.: LD17005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR | 0.49 \| (ND) | 0.19 | 0.097 \| 0.097 |
| DELTA-BHC | (ND) \| 0.61 | 0.19 | 0.097 \| 0.097 |
| ALDRIN | 0.27 \| (ND) | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR EPOXIDE | 0.75 \| (ND) | 0.19 | 0.097 \| 0.097 |
| ENDOSULFAN I | (ND) \| 0.10J | 0.19 | 0.097 \| 0.097 |
| 4,4'-DDE | 1.2 \| (1.4) | 0.39 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDRIN | 0.21J \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.84 \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDT | 1.8 \| (2.2) | 0.39 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| 0.31J | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | 4.0 \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| METHOXYCHLOR | 1.6J \| (ND) | 1.9 | 0.97 \| 0.97 |
| MIREX | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.746 \| (7.283) | 6.116 | 94.0 \| (119) | 50-130 |
| DECACHLOROBIPHENYL | 5.293 \| (5.604) | 6.116 | 86.5 \| (91.6) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/06/12 16:33 |
| Sample ID: SL-136-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 19:36 |
| Lab Samp ID: C285-05 | Dilution Factor: 1 |
| Lab File ID: LD17020A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : 9.7 |
| Calib. Ref.: LD17005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.66 | 0.19 | 0.094 \| 0.094 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| HEPTACHLOR | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| DELTA-BHC | (ND) \| 2.8 | 0.19 | 0.094 \| 0.094 |
| ALDRIN | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| HEPTACHLOR EPOXIDE | 1.1 \| (ND) | 0.19 | 0.094 \| 0.094 |
| ENDOSULFAN I | (ND) \| 0.19J | 0.19 | 0.094 \| 0.094 |
| 4,4'-DDE | 1.9 \| (2.7) | 0.38 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDRIN | 0.27J \| (ND) | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDD | 0.24J \| (ND) | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN II | 2.4 \| (ND) | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDT | 0.89 \| (1.5) | 0.38 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | 1.7 \| (ND) | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | 5.7 \| (ND) | 0.38 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| METHOXYCHLOR | (14) \| ND | 1.9 | 0.94 \| 0.94 |
| MIREX | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.3 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.8 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.205 \| (6.843) | 5.906 | 88.1 \| (116) | 50-130 |
| DECACHLOROBIPHENYL | 4.478 \| (5.894) | 5.906 | 75.8 \| (99.8) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/06/12 16:33 |
| Sample ID: SL-139-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 19:58 |
| Lab Samp ID: C285-06 | Dilution Factor: 1 |
| Lab File ID: LD17021A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : 16.3 |
| Calib. Ref.: LD17005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.18J | 0.20 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR | 0.50 \| (ND) | 0.20 | 0.10 \| 0.10 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| ALDRIN | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | 0.48 \| (ND) | 0.20 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| 0.14J | 0.20 | 0.10 \| 0.10 |
| 4,4'-DDE | 3.8 \| (3.0) | 0.41 | 0.20 \| 0.20 |
| DIELDRIN | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDRIN | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDOSULFAN II | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| 4,4'-DDT | 2.4 \| (3.2) | 0.41 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| 0.45 | 0.41 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| 1.1J | 2.0 | 1.0 \| 1.0 |
| MIREX | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.9 | 3.9 \| 3.9 |
| CHLORDANE (TECHNICAL) | (ND) \| 2.8J | 4.1 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.957 \| (7.938) | 6.372 | 93.5 \| (125) | 50-130 |
| DECACHLOROBIPHENYL | (5.857) \| 5.781 | 6.372 | (91.9) \| 90.7 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/06/12 16:33 |
| Sample ID: SL-141-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 20:20 |
| Lab Samp ID: C285-07 | Dilution Factor: 1 |
| Lab File ID: LD17022A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : 10.9 |
| Calib. Ref.: LD17005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.15J | 0.19 | 0.095 \| 0.095 |
| GAMMA-BHC (LINDANE) | (ND) \| 1.1 | 0.19 | 0.095 \| 0.095 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| HEPTACHLOR | (ND) \| 0.18J | 0.19 | 0.095 \| 0.095 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| ALDRIN | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| HEPTACHLOR EPOXIDE | 0.28 \| (ND) | 0.19 | 0.095 \| 0.095 |
| ENDOSULFAN I | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| 4,4'-DDE | 1.3 \| (1.2) | 0.38 | 0.19 \| 0.19 |
| DIELDRIN | 0.40 \| (ND) | 0.38 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.31J \| (ND) | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDT | 2.3 \| (3.3) | 0.38 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| 0.21J | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | 1.0 \| (ND) | 0.38 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| METHOXYCHLOR | 2.6 \| (ND) | 1.9 | 0.95 \| 0.95 |
| MIREX | (ND) \| 0.21J | 0.38 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.4 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.8 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.466 \| (7.165) | 5.985 | 91.3 \| (120) | 50-130 |
| DECACHLOROBIPHENYL | 5.117 \| (5.122) | 5.985 | 85.5 \| (85.6) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/06/12 16:33 |
| Sample ID: SL-143-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 20:42 |
| Lab Samp ID: C285-08 | Dilution Factor: 1 |
| Lab File ID: LD17023A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : 7.8 |
| Calib. Ref.: LD17005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.45 | 0.18 | 0.092 \| 0.092 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.27 | 0.18 | 0.092 \| 0.092 |
| BETA-BHC | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR | 0.50 \| (ND) | 0.18 | 0.092 \| 0.092 |
| DELTA-BHC | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| ALDRIN | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| ENDOSULFAN I | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| 4,4'-DDE | 0.28J \| (ND) | 0.37 | 0.18 \| 0.18 |
| DIELDRIN | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDRIN | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDD | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN II | 0.37J \| (ND) | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDT | (ND) \| 2.1 | 0.37 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDRIN KETONE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| METHOXYCHLOR | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| MIREX | 0.20J \| (ND) | 0.37 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 7.2 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.308 \| (6.943) | 5.784 | 91.8 \| (120) | 50-130 |
| DECACHLOROBIPHENYL | 5.204 \| (5.821) | 5.784 | 90.0 \| (101) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/06/12 |
| Batch No. : 12C285 | Date Extracted: 04/06/12 16:33 |
| Sample ID: MBLK1S | Date Analyzed: 04/17/12 15:55 |
| Lab Samp ID: CPD013SB | Dilution Factor: 1 |
| Lab File ID: LD17010A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : NA |
| Calib. Ref.: LD17005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| BETA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| HEPTACHLOR | 0.16J \| (ND) | 0.17 | 0.085 \| 0.085 |
| DELTA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| ALDRIN | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| ENDOSULFAN I | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| 4,4'-DDE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| DIELDRIN | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| 4,4'-DDD | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDOSULFAN II | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| 4,4'-DDT | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN KETONE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| METHOXYCHLOR | (ND) \| ND | 1.7 | 0.85 \| 0.85 |
| MIREX | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| TOXAPHENE | (ND) \| ND | 6.6 | 3.3 \| 3.3 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.4 | 1.7 \| 1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.497 \| (5.783) | 5.333 | 103 \| (108) | 50-130 |
| DECACHLOROBIPHENYL | 5.667 \| (6.066) | 5.333 | 106 \| (114) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPD013SB CPD013SL CPD013SC
LAB FILE ID: LD17010A LD17011A LD17012A
DATE EXTRACTED: 04/06/1216:33 04/06/1216:33 04/06/1216:33 DATE COLLECTED: NA
DATE ANALYZED: 04/17/1215:55 04/17/1216:17 04/17/1216:39 DATE RECEIVED: 04/06/12
PREP. BATCH: CPD013S CPD013S CPD013S
CALIB. REF: LD17005A LD17005A LD17005A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND) \| ND | 2.67 | 2.63 \| (3.05) | 99 \| (114) | 2.67 | 2.73 \| (2.93) | 102 \| (110) | 4 \| (4) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND) \| ND | 2.67 | 2.72 \| (2.97) | 102 \| (111) | 2.67 | 2.62 \| (2.95) | 98 \| (110) | 4 \| (1) | 40-130 | 50 |
| beta-BHC | (ND) \| ND | 2.67 | (3.01) \| 2.56 | (113) \| 96 | 2.67 | (2.76) \| 2.71 | (103) \| 101 | (9) \| 6 | 50-140 | 50 |
| Heptachlor | 0.16J \| (ND) | 2.67 | (2.99) \| 2.80 | (112) \| 105 | 2.67 | (2.93) \| 2.81 | (110) \| 105 | (2) \| 0 | 30-130 | 50 |
| delta-BHC | (ND) \| ND | 2.67 | (3.11) \| 3.04 | (116) \| 114 | 2.67 | (3.03) \| 2.98 | (113) \| 112 | (3) \| 2 | 30-150 | 50 |
| Aldrin | (ND) \| ND | 2.67 | 2.62 \| (2.85) | 98 \| (107) | 2.67 | 2.61 \| (2.80) | 98 \| (105) | 0 \| (2) | 30-130 | 50 |
| Heptachlor Epoxide | (ND) \| ND | 2.67 | (2.79) \| 2.79 | (104) \| 104 | 2.67 | (2.76) \| 2.70 | (103) \| 101 | (1) \| 3 | 60-140 | 50 |
| Endosulfan I | (ND) \| ND | 2.67 | 2.45 \| (2.80) | 92 \| (105) | 2.67 | 2.38 \| (2.70) | 89 \| (101) | 3 \| (4) | 50-150 | 50 |
| 4,4'-DDE | (ND) \| ND | 2.67 | (2.94) \| 2.89 | (110) \| 108 | 2.67 | (2.89) \| 2.84 | (108) \| 106 | (2) \| 2 | 50-150 | 50 |
| Dieldrin | (ND) \| ND | 2.67 | (3.00) \| 2.75 | (112) \| 103 | 2.67 | (2.96) \| 2.70 | (111) \| 101 | (1) \| 2 | 60-130 | 50 |
| Endrin | (ND) \| ND | 2.67 | (2.89) \| 2.88 | (108) \| 108 | 2.67 | (2.84) \| 2.83 | (106) \| 106 | (2) \| 2 | 50-140 | 50 |
| 4,4'-DDD | (ND) \| ND | 2.67 | (2.88) \| 2.79 | (108) \| 104 | 2.67 | (2.81) \| 2.74 | (105) \| 103 | (2) \| 2 | 50-160 | 50 |
| Endosulfan II | (ND) \| ND | 2.67 | (2.97) \| 2.97 | (111) \| 111 | 2.67 | (2.94) \| 2.93 | (110) \| 110 | (1) \| 1 | 60-150 | 50 |
| 4,4'-DDT | (ND) \| ND | 2.67 | (3.49) \| 3.06 | (131) \| 115 | 2.67 | (3.44) \| 3.01 | (129) \| 113 | (1) \| 2 | 60-140 | 50 |
| Endrin aldehyde | (ND) \| ND | 2.67 | 2.84 \| (2.86) | 106 \| (107) | 2.67 | (2.95) \| 2.81 | (110) \| 105 | (4) \| 2 | 50-160 | 50 |
| Endosulfan Sulfate | (ND) \| ND | 2.67 | 3.04 \| (3.13) | 114 \| (117) | 2.67 | 3.01 \| (3.10) | 113 \| (116) | 1 \| (1) | 70-140 | 50 |
| Endrin Ketone | (ND) \| ND | 2.67 | 3.00 \| (3.01) | 112 \| (113) | 2.67 | 2.96 \| (3.02) | 111 \| (113) | 1 \| (0) | 70-160 | 50 |
| Methoxychlor | (ND) \| ND | 26.7 | 29.0 \| (30.2) | 109 \| (113) | 26.7 | 29.2 \| (30.3) | 109 \| (113) | 1 \| (0) | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 5.406 \| (5.612) | 101 \| (105) | 5.333 | 5.177 \| (5.404) | 97.1 \| (101) | 50-130 |
| Decachlorobiphenyl | 5.333 | 5.461 \| (5.654) | 102 \| (106) | 5.333 | 5.435 \| (5.918) | 102 \| (111) | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/07/12 15:15 |
| Sample ID: SL-040-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 16:55 |
| Lab Samp ID: C285-01T | Dilution Factor: 20 |
| Lab File ID: KD17010A | Matrix : SOIL |
| Ext Btch ID: CPD017S | % Moisture : 11.1 |
| Calib. Ref.: KD17002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 38 | 19\|19 |
| AROCLOR 1221 | (ND)\|ND | 38 | 19\|19 |
| AROCLOR 1232 | (ND)\|ND | 38 | 19\|19 |
| AROCLOR 1242 | (ND)\|ND | 38 | 19\|19 |
| AROCLOR 1248 | (ND)\|ND | 38 | 19\|19 |
| AROCLOR 1254 | (ND)\|ND | 38 | 19\|19 |
| AROCLOR 1260 | (ND)\|ND | 38 | 19\|19 |
| AROCLOR 1262 | (ND)\|ND | 38 | 19\|19 |
| AROCLOR 1268 | (ND)\|ND | 38 | 19\|19 |
| AROCLOR 5432 | (ND)\|ND | 74 | 38\|38 |
| AROCLOR 5442 | (ND)\|ND | 74 | 38\|38 |
| AROCLOR 5460 | (ND)\|ND | 74 | 38\|38 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 5.245\|(6.691) | 5.999 | 87.4\|(112) | 45-120 |
| TETRACHLORO-M-XYLENE | (700.1)\|ND | 5.999 | (11700*)\|0.000000* | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/07/12 15:15 |
| Sample ID: SL-094-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 20:43 |
| Lab Samp ID: C285-02 | Dilution Factor: 1 |
| Lab File ID: KD17040A | Matrix : SOIL |
| Ext Btch ID: CPD017S | % Moisture : 13.2 |
| Calib. Ref.: KD17034A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.520)\|4.679 | 6.144 | (106)\|76.1 | 45-120 |
| TETRACHLORO-M-XYLENE | (8.151)\|7.671 | 6.144 | (133)\|125 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/07/12 15:15 |
| Sample ID: SL-096-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 21:37 |
| Lab Samp ID: C285-03 | Dilution Factor: 1 |
| Lab File ID: KD17041A | Matrix : SOIL |
| Ext Btch ID: CPD017S | % Moisture : 13.7 |
| Calib. Ref.: KD17034A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5460 | (3.1J)\|2.4J | 3.8 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.852)\|4.973 | 6.180 | (111)\|80.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (8.449)\|6.310 | 6.180 | (137)\|102 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/07/12 15:15 |
| Sample ID: SL-135-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 22:31 |
| Lab Samp ID: C285-04 | Dilution Factor: 1 |
| Lab File ID: KD17042A | Matrix : SOIL |
| Ext Btch ID: CPD017S | % Moisture : 12.8 |
| Calib. Ref.: KD17034A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.262)\|5.193 | 6.116 | (119)\|84.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (9.189)\|7.106 | 6.116 | (150)\|116 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/07/12 15:15 |
| Sample ID: SL-136-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 23:25 |
| Lab Samp ID: C285-05 | Dilution Factor: 1 |
| Lab File ID: KD17043A | Matrix : SOIL |
| Ext Btch ID: CPD017S | % Moisture : 9.7 |
| Calib. Ref.: KD17034A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.663)\|4.788 | 5.906 | (113)\|81.1 | 45-120 |
| TETRACHLORO-M-XYLENE | (8.097)\|5.986 | 5.906 | (137)\|101 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/28/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/28/12 |
| Batch No. | : 12C285 | Date Extracted | : 04/07/12 15:15 |
| Sample ID | : SL-139-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/19/12 00:19 |
| Lab Samp ID | : C285-06 | Dilution Factor | : 1 |
| Lab File ID | : KD17044A | Matrix | : SOIL |
| Ext Btch ID | : CPD017S | % Moisture | : 16.3 |
| Calib. Ref. | : KD17034A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5460 | (3.9J)\|3.1J | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.912)\|5.028 | 6.372 | (108)\|78.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (8.372)\|6.483 | 6.372 | (131)\|102 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/07/12 15:15 |
| Sample ID: SL-141-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 01:13 |
| Lab Samp ID: C285-07 | Dilution Factor: 1 |
| Lab File ID: KD17045A | Matrix : SOIL |
| Ext Btch ID: CPD017S | % Moisture : 10.9 |
| Calib. Ref.: KD17034A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (4.0)\|3.0J | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.965)\|4.265 | 5.985 | (99.7)\|71.3 | 45-120 |
| TETRACHLORO-M-XYLENE | 8.390\|(8.435) | 5.985 | 140\|(141) | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/07/12 15:15 |
| Sample ID: SL-143-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 02:07 |
| Lab Samp ID: C285-08 | Dilution Factor: 1 |
| Lab File ID: KD17046A | Matrix : SOIL |
| Ext Btch ID: CPD017S | % Moisture : 7.8 |
| Calib. Ref.: KD17034A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.160)\|4.474 | 5.784 | (106)\|77.3 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.478)\|5.674 | 5.784 | (129)\|98.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/07/12 15:15 |
| Sample ID: SL-036-NBZ-SB-4.0-5.0 | Date Analyzed: 04/15/12 02:11 |
| Lab Samp ID: C285-10 | Dilution Factor: 1 |
| Lab File ID: KD12064A | Matrix : SOIL |
| Ext Btch ID: CPD017S | % Moisture : 11.8 |
| Calib. Ref.: KD12057A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.224)\|4.760 | 6.046 | (103)\|78.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.254)\|5.753 | 6.046 | (103)\|95.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/28/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/28/12 |
| Batch No. | : 12C285 | Date Extracted | : 04/07/12 15:15 |
| Sample ID | : SL-037-NBZ-SB-3.0-4.0 | Date Analyzed | : 04/15/12 03:05 |
| Lab Samp ID | : C285-12 | Dilution Factor | : 1 |
| Lab File ID | : KD12065A | Matrix | : SOIL |
| Ext Btch ID | : CPD017S | % Moisture | : 10.2 |
| Calib. Ref. | : KD12057A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.121)\|4.660 | 5.939 | (103)\|78.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (9.427)\|12.46 | 5.939 | (159)\|210* | 10-160 |

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Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/07/12 15:15 |
| Sample ID: SL-040-NBZ-SB-2.5-3.5 | Date Analyzed: 04/27/12 13:07 |
| Lab Samp ID: C285-14I | Dilution Factor: 1000 |
| Lab File ID: KD27005A | Matrix : SOIL |
| Ext Btch ID: CPD017S | % Moisture : 4.5 |
| Calib. Ref.: KD27002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1800 | 890\|890 |
| AROCLOR 1221 | (ND)\|ND | 1800 | 890\|890 |
| AROCLOR 1232 | (ND)\|ND | 1800 | 890\|890 |
| AROCLOR 1242 | (ND)\|ND | 1800 | 890\|890 |
| AROCLOR 1248 | (ND)\|ND | 1800 | 890\|890 |
| AROCLOR 1254 | (ND)\|ND | 1800 | 890\|890 |
| AROCLOR 1260 | (ND)\|ND | 1800 | 890\|890 |
| AROCLOR 1262 | (ND)\|ND | 1800 | 890\|890 |
| AROCLOR 1268 | (ND)\|ND | 1800 | 890\|890 |
| AROCLOR 5432 | (ND)\|ND | 3500 | 1800\|1800 |
| AROCLOR 5442 | (ND)\|ND | 3500 | 1800\|1800 |
| AROCLOR 5460 | (ND)\|ND | 3500 | 1800\|1800 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (ND)\|ND | 5.585 | (DO)\|DO | 45-120 |
| TETRACHLORO-M-XYLENE | (ND)\|ND | 5.585 | (DO)\|DO | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/07/12 15:15 |
| Sample ID: SL-036-NBZ-SB-7.5-8.5 | Date Analyzed: 04/27/12 13:59 |
| Lab Samp ID: C285-16I | Dilution Factor: 10 |
| Lab File ID: KD27006A | Matrix : SOIL |
| Ext Btch ID: CPD017S | % Moisture : 23.6 |
| Calib. Ref.: KD27002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 22 | 11\|11 |
| AROCLOR 1221 | (ND)\|ND | 22 | 11\|11 |
| AROCLOR 1232 | (ND)\|ND | 22 | 11\|11 |
| AROCLOR 1242 | (ND)\|ND | 22 | 11\|11 |
| AROCLOR 1248 | (ND)\|ND | 22 | 11\|11 |
| AROCLOR 1254 | (ND)\|ND | 22 | 11\|11 |
| AROCLOR 1260 | (ND)\|ND | 22 | 11\|11 |
| AROCLOR 1262 | (ND)\|ND | 22 | 11\|11 |
| AROCLOR 1268 | (ND)\|ND | 22 | 11\|11 |
| AROCLOR 5432 | (ND)\|ND | 43 | 22\|22 |
| AROCLOR 5442 | (ND)\|ND | 43 | 22\|22 |
| AROCLOR 5460 | (ND)\|ND | 43 | 22\|22 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 6.379\|(6.822) | 6.981 | 91.4\|(97.7) | 45-120 |
| TETRACHLORO-M-XYLENE | (ND)\|ND | 6.981 | (DO)\|DO | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/07/12 15:15 |
| Sample ID: DUP-03-NBZ-QC-032812 | Date Analyzed: 04/17/12 21:25 |
| Lab Samp ID: C285-17T | Dilution Factor: 100 |
| Lab File ID: KD17015A | Matrix : SOIL |
| Ext Btch ID: CPD017S | % Moisture : 5.9 |
| Calib. Ref.: KD17002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 180 | 90\|90 |
| AROCLOR 1221 | (ND)\|ND | 180 | 90\|90 |
| AROCLOR 1232 | (ND)\|ND | 180 | 90\|90 |
| AROCLOR 1242 | (ND)\|ND | 180 | 90\|90 |
| AROCLOR 1248 | (ND)\|ND | 180 | 90\|90 |
| AROCLOR 1254 | (ND)\|ND | 180 | 90\|90 |
| AROCLOR 1260 | (ND)\|ND | 180 | 90\|90 |
| AROCLOR 1262 | (ND)\|ND | 180 | 90\|90 |
| AROCLOR 1268 | (ND)\|ND | 180 | 90\|90 |
| AROCLOR 5432 | (ND)\|ND | 350 | 180\|180 |
| AROCLOR 5442 | (ND)\|ND | 350 | 180\|180 |
| AROCLOR 5460 | (ND)\|ND | 350 | 180\|180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (ND)\|ND | 5.668 | (DO)\|DO | 45-120 |
| TETRACHLORO-M-XYLENE | (ND)\|ND | 5.668 | (DO)\|DO | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/07/12 |
| Batch No. | : 12C285 | Date Extracted | : 04/07/12 15:15 |
| Sample ID | : MBLK1S | Date Analyzed | : 04/18/12 18:00 |
| Lab Samp ID | : 60D017SB | Dilution Factor | : 1 |
| Lab File ID | : KD17037A | Matrix | : SOIL |
| Ext Btch ID | : CPD017S | % Moisture | : NA |
| Calib. Ref. | : KD17034A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 6.800\|(4.900) | 5.333 | 128*\|(91.9) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.081)\|5.674 | 5.333 | (133)\|106 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60D017SB | 60D017SX | 60D017SY | | |
| LAB FILE ID: | KD17037A | KD17038A | KD17039A | | |
| DATE EXTRACTED: | 04/07/1215:15 | 04/07/1215:15 | 04/07/1215:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/18/1218:00 | 04/18/1218:54 | 04/18/1219:48 | DATE RECEIVED: | 04/07/12 |
| PREP. BATCH: | CPD017S | CPD017S | CPD017S | | |
| CALIB. REF: | KD17034A | KD17034A | KD17034A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (65.7)\|64.1 | (99)\|96 | 66.7 | (63.6)\|58.7 | (95)\|88 | (3)\|9 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (75.5)\|60.4 | (113)\|91 | 66.7 | (73.3)\|58.3 | (110)\|87 | (3)\|4 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | (67.6)\|63.5 | (101)\|95 | 66.7 | (67.2)\|62.7 | (101)\|94 | (1)\|1 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | (5.692)\|4.205 | (107)\|78.9 | 5.333 | (5.594)\|4.132 | (105)\|77.5 | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (6.433)\|5.405 | (121)\|101 | 5.333 | (6.047)\|5.027 | (113)\|94.3 | 10-160 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 4.5

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1000 | 100 | 100 | | |
| SAMPLE ID: | SL-040-NBZ-SB-2.5-3.5 | | | | |
| LAB SAMP ID: | C285-14I | C285-14M | C285-14S | | |
| LAB FILE ID: | KD27005A | KD17012A | KD17013A | | |
| DATE EXTRACTED: | 04/07/1215:15 | 04/07/1215:15 | 04/07/1215:15 | DATE COLLECTED: | 03/28/12 |
| DATE ANALYZED: | 04/27/1213:07 | 04/17/1218:43 | 04/17/1219:37 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | CPD017S | CPD017S | CPD017S | | |
| CALIB. REF: | KD27002A | KD17002A | KD17002A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 69.8 | (ND)\|ND | (DO)\|DO | 69.8 | (ND)\|ND | (DO)\|DO | (0)\|0 | 20-160 | 50 |
| Aroclor 1260 | (ND)\|ND | 69.8 | (ND)\|ND | (DO)\|DO | 69.8 | (ND)\|ND | (DO)\|DO | (0)\|0 | 20-160 | 50 |
| Aroclor 5460 | (ND)\|ND | 69.8 | (ND)\|ND | (DO)\|DO | 69.8 | (ND)\|ND | (DO)\|DO | (0)\|0 | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.585 | (ND)\|ND | (DO)\|DO | 5.585 | (ND)\|ND | (DO)\|DO | 45-120 |
| Tetrachloro-m-xylene | 5.585 | (ND)\|ND | (DO)\|DO | 5.585 | (ND)\|ND | (DO)\|DO | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/07/12 11:15 |
| Sample ID: SL-040-NBZ-SS-0.0-0.5DL | Date Analyzed: 04/10/12 22:28 |
| Lab Samp ID: C285-01I | Dilution Factor: 5 |
| Lab File ID: WD09093A | Matrix : SOIL |
| Ext Btch ID: HED004S | % Moisture : 11.1 |
| Calib. Ref.: WD09091A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 20 | 10\|10 |
| 2,4-DB | (ND)\|ND | 9.6 | 4.8\|4.8 |
| 2,4,5-T | (ND)\|ND | 0.96 | 0.48\|0.48 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.96 | 0.48\|0.48 |
| DALAPON | (ND)\|ND | 51 | 25\|25 |
| DICAMBA | (ND)\|ND | 6.7 | 3.4\|3.4 |
| DICHLOROPROP | (ND)\|ND | 13 | 6.7\|6.7 |
| DINOSEB | (ND)\|140 | 9.6 | 4.8\|4.8 |
| MCPA | (ND)\|ND | 1400 | 700\|700 |
| MCPP | (ND)\|ND | 1400 | 700\|700 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | 175.7\|(208.5) | 168.7 | 104\|(124) | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/07/12 11:15 |
| Sample ID: SL-094-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 05:34 |
| Lab Samp ID: C285-02 | Dilution Factor: 1 |
| Lab File ID: WD09052A | Matrix : SOIL |
| Ext Btch ID: HED004S | % Moisture : 13.2 |
| Calib. Ref.: WD09050A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 0.98\|0.98 |
| 2,4,5-T | (ND)\|1.0 | 0.20 | 0.098\|0.098 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.098\|0.098 |
| DALAPON | (ND)\|9.8J | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.69\|0.69 |
| DICHLOROPROP | 1.6J\|(ND) | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 0.98\|0.98 |
| MCPA | 3000\|(ND) | 290 | 140\|140 |
| MCPP | (ND)\|ND | 290 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (161.7)\|129.3 | 172.8 | (93.6)\|74.8 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/07/12 11:15 |
| Sample ID: SL-096-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 05:58 |
| Lab Samp ID: C285-03 | Dilution Factor: 1 |
| Lab File ID: WD09053A | Matrix : SOIL |
| Ext Btch ID: HED004S | % Moisture : 13.7 |
| Calib. Ref.: WD09050A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | 2.1\|(ND) | 2.0 | 0.98\|0.98 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.098\|0.098 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.098\|0.098 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.70\|0.70 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 0.98\|0.98 |
| MCPA | (ND)\|ND | 290 | 140\|140 |
| MCPP | (ND)\|ND | 290 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (69.13)\|52.42 | 173.8 | (39.8)\|30.2 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/07/12 11:15 |
| Sample ID: SL-135-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 06:22 |
| Lab Samp ID: C285-04 | Dilution Factor: 1 |
| Lab File ID: WD09054A | Matrix : SOIL |
| Ext Btch ID: HED004S | % Moisture : 12.8 |
| Calib. Ref.: WD09050A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| 2,4,5-T | 0.21\|(ND) | 0.19 | 0.097\|0.097 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.097\|0.097 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.69\|0.69 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| MCPA | 2300\|(ND) | 290 | 140\|140 |
| MCPP | (ND)\|ND | 290 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (147.3)\|117.7 | 172.0 | (85.7)\|68.4 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/07/12 11:15 |
| Sample ID: SL-136-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 06:45 |
| Lab Samp ID: C285-05 | Dilution Factor: 1 |
| Lab File ID: WD09055A | Matrix : SOIL |
| Ext Btch ID: HED004S | % Moisture : 9.7 |
| Calib. Ref.: WD09050A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.94\|0.94 |
| 2,4,5-T | 0.65\|(ND) | 0.19 | 0.094\|0.094 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.094\|0.094 |
| DALAPON | (ND)\|ND | 10 | 5.0\|5.0 |
| DICAMBA | (ND)\|ND | 1.3 | 0.66\|0.66 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.94\|0.94 |
| MCPA | 2800\|(ND) | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (136.1)\|104.9 | 166.1 | (81.9)\|63.1 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/07/12 11:15 |
| Sample ID: SL-139-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 07:09 |
| Lab Samp ID: C285-06 | Dilution Factor: 1 |
| Lab File ID: WD09056A | Matrix : SOIL |
| Ext Btch ID: HED004S | % Moisture : 16.3 |
| Calib. Ref.: WD09050A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.3 | 2.2\|2.2 |
| 2,4-DB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.4\|5.4 |
| DICAMBA | (ND)\|ND | 1.4 | 0.72\|0.72 |
| DICHLOROPROP | (ND)\|ND | 2.9 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| MCPA | (ND)\|ND | 300 | 150\|150 |
| MCPP | (ND)\|ND | 300 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (82.15)\|65.69 | 179.2 | (45.8)\|36.7 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/07/12 11:15 |
| Sample ID: SL-141-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 07:32 |
| Lab Samp ID: C285-07 | Dilution Factor: 1 |
| Lab File ID: WD09057A | Matrix : SOIL |
| Ext Btch ID: HED004S | % Moisture : 10.9 |
| Calib. Ref.: WD09050A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.95\|0.95 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.095\|0.095 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.095\|0.095 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.3 | 0.67\|0.67 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.95\|0.95 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (66.39)\|52.67 | 168.4 | (39.4)\|31.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/07/12 11:15 |
| Sample ID: SL-143-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 07:55 |
| Lab Samp ID: C285-08 | Dilution Factor: 1 |
| Lab File ID: WD09058A | Matrix : SOIL |
| Ext Btch ID: HED004S | % Moisture : 7.8 |
| Calib. Ref.: WD09050A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.8 | 0.92\|0.92 |
| 2,4,5-T | (ND)\|ND | 0.18 | 0.092\|0.092 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.18 | 0.092\|0.092 |
| DALAPON | (ND)\|ND | 9.8 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.65\|0.65 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.8 | 0.92\|0.92 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (71.85)\|57.40 | 162.7 | (44.2)\|35.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/07/12 |
| Batch No. : 12C285 | Date Extracted: 04/07/12 11:15 |
| Sample ID: MBLK1S | Date Analyzed: 04/09/12 19:22 |
| Lab Samp ID: HED004SB | Dilution Factor: 1 |
| Lab File ID: WD09026A | Matrix : SOIL |
| Ext Btch ID: HED004S | % Moisture : NA |
| Calib. Ref.: WD09020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (153.5)\|134.2 | 150.0 | (102)\|89.5 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HED004SB | HED004SL | HED004SC | | |
| LAB FILE ID: | WD09026A | WD09025A | WD09024A | | |
| DATE EXTRACTED: | 04/07/1211:15 | 04/07/1211:15 | 04/07/1211:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/09/1219:22 | 04/09/1218:59 | 04/09/1218:35 | DATE RECEIVED: | 04/07/12 |
| PREP. BATCH: | HED004S | HED004S | HED004S | | |
| CALIB. REF: | WD09020A | WD09020A | WD09020A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | (9.11)\|6.01 | (61)\|40 | 15.0 | (11.8)\|9.71 | (79)\|65 | (26)\|47 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 4.85\|(11.8) | 32\|(79) | 15.0 | 8.34\|(11.4) | 56\|(76) | 53*\|(3) | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | 9.55\|(10.8) | 64\|(72) | 15.0 | 11.5\|(11.9) | 77\|(79) | 19\|(10) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 15.0 | 17.1\|(18.9) | 114\|(126) | 15.0 | (16.0)\|14.0 | (107)\|93 | (7)\|30 | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | (21.3)\|10.4 | (142)\|69 | 15.0 | (15.9)\|11.8 | (106)\|79 | (29)\|13 | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (10.1)\|9.13 | (67)\|61 | 15.0 | (12.4)\|11.5 | (83)\|77 | (20)\|23 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | 11.8\|(13.3) | 79\|(89) | 15.0 | 13.9\|(16.1) | 93\|(107) | 16\|(19) | 60-160 | 50 |
| Dinoseb | (ND)\|ND | 15.0 | (12.0)\|10.8 | (80)\|72 | 15.0 | (11.5)\|10.0 | (77)\|67 | (4)\|8 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (741)\|347 | (99)\|46 | 750 | (858)\|504 | (114)\|67 | (15)\|37 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | (467)\|350 | (62)\|47 | 750 | (531)\|441 | (71)\|59 | (13)\|23 | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 | (112.5)\|93.82 | (75.0)\|62.5 | 150.0 | (134.8)\|117.1 | (89.9)\|78.1 | 10-150 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-040-NBZ-SS-0.0-0.5 | Date Analyzed: 04/04/12 03:03 |
| Lab Samp ID: C285-01 | Dilution Factor: 1 |
| Lab File ID: XD03021A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: XD03013A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1910 | 2000 | 95.4 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-036-NBZ-SB-4.0-5.0 | Date Analyzed: 04/04/12 03:37 |
| Lab Samp ID: C285-10 | Dilution Factor: .99 |
| Lab File ID: XD03022A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: XD03013A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1770 | 1980 | 89.5 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-037-NBZ-SB-3.0-4.0 | Date Analyzed: 04/04/12 04:11 |
| Lab Samp ID: C285-12 | Dilution Factor: .99 |
| Lab File ID: XD03023A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: XD03013A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1750 | 1980 | 88.3 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-040-NBZ-SB-2.5-3.5 | Date Analyzed: 04/04/12 05:19 |
| Lab Samp ID: C285-14 | Dilution Factor: 1 |
| Lab File ID: XD03025A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: XD03024A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1770 | 2000 | 88.4 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-036-NBZ-SB-7.5-8.5 | Date Analyzed: 04/04/12 07:01 |
| Lab Samp ID: C285-16 | Dilution Factor: 1 |
| Lab File ID: XD03028A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: XD03024A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1860 | 2000 | 93.0 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/02/12 19:23 |
| Sample ID: DUP-03-NBZ-QC-032812 | Date Analyzed: 04/04/12 07:35 |
| Lab Samp ID: C285-17 | Dilution Factor: 1 |
| Lab File ID: XD03029A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: XD03024A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1790 | 2000 | 89.7 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12C285 | Date Extracted: 04/02/12 19:23 |
| Sample ID: MBLK1S | Date Analyzed: 04/03/12 16:49 |
| Lab Samp ID: EXD001SB | Dilution Factor: 1 |
| Lab File ID: XD03003A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: XD03002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1840 | 2000 | 91.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 8330A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD001SB | EXD001SL | EXD001SC | | |
| LAB FILE ID: | XD03003A | XD03004A | XD03005A | | |
| DATE EXTRACTED: | 04/02/1219:23 | 04/02/1219:23 | 04/02/1219:23 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1216:49 | 04/03/1217:23 | 04/03/1217:57 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | EXD001S | EXD001S | EXD001S | | |
| CALIB. REF: | XD03002A | XD03002A | XD03002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 2120 | 106 | 2000 | 2130 | 106 | 0 | 70-130 | 50 |
| RDX | ND | 2000 | 2180 | 109 | 2000 | 2170 | 109 | 0 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2320 | 116 | 2000 | 2380 | 119 | 2 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2110 | 106 | 2000 | 2160 | 108 | 2 | 70-130 | 50 |
| Tetryl | ND | 2000 | 2460 | 123 | 2000 | 2500 | 125 | 1 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 1910 | 96 | 2000 | 1990 | 99 | 4 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 2130 | 106 | 2000 | 2170 | 108 | 2 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 2190 | 110 | 2000 | 2170 | 109 | 1 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 2110 | 106 | 2000 | 2080 | 104 | 2 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2150 | 107 | 2000 | 2210 | 110 | 3 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2250 | 113 | 2000 | 2240 | 112 | 1 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 2100 | 105 | 2000 | 2220 | 111 | 6 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 2080 | 104 | 2000 | 1940 | 97 | 7 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 2050 | 103 | 2000 | 2090 | 105 | 2 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1770 | 88 | 2000 | 1790 | 89 | 1 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2170 | 109 | 2000 | 2160 | 108 | 1 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1860 | 93 | 2000 | 1950 | 98 | 65-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 .99 1
SAMPLE ID: SL-040-NBZ-SB-2.5-3.5
LAB SAMP ID: C285-14 C285-14M C285-14S
LAB FILE ID: XD03025A XD03026A XD03027A
DATE EXTRACTED: 04/02/1219:23 04/02/1219:23 04/02/1219:23 DATE COLLECTED: 03/28/12
DATE ANALYZED: 04/04/1205:19 04/04/1205:53 04/04/1206:27 DATE RECEIVED: 03/28/12
PREP. BATCH: EXD001S EXD001S EXD001S
CALIB. REF: XD03024A XD03024A XD03024A

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 1980 | 2090 | 106 | 2000 | 1980 | 99 | 7 | 70-130 | 50 |
| RDX | ND | 1980 | 2030 | 103 | 2000 | 2090 | 105 | 2 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 1980 | 2280 | 115 | 2000 | 2240 | 112 | 3 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 1980 | 2090 | 106 | 2000 | 2110 | 105 | 1 | 70-130 | 50 |
| Tetryl | ND | 1980 | 2350 | 118 | 2000 | 2420 | 121 | 3 | 60-130 | 50 |
| Nitrobenzene | ND | 1980 | 1380 | 70 | 2000 | 1410 | 71 | 1 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 1980 | 2040 | 103 | 2000 | 2050 | 103 | 0 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 1980 | 1930 | 98 | 2000 | 1960 | 98 | 0 | 70-140 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 1980 | 2030 | 102 | 2000 | 2000 | 100 | 2 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 1980 | 2030 | 102 | 2000 | 2150 | 108 | 6 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 1980 | 2190 | 111 | 2000 | 2260 | 113 | 2 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 1980 | 2280 | 115 | 2000 | 2080 | 104 | 10 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 1980 | 2010 | 102 | 2000 | 1930 | 97 | 5 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 1980 | 2150 | 109 | 2000 | 1950 | 97 | 12 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 1980 | 618 | 31 | 2000 | 599 | 30 | 3 | 20-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 1980 | 936 | 47 | 2000 | 1030 | 51 | 8 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 1980 | 1850 | 94 | 2000 | 1840 | 92 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/28/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/28/12 |
| Batch No. | : 12C285 | Date Extracted | : 04/02/12 19:23 |
| Sample ID | : SL-040-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/03/12 20:04 |
| Lab Samp ID | : C285-01 | Dilution Factor | : 1 |
| Lab File ID | : PD03028A | Matrix | : SOIL |
| Ext Btch ID | : EXD001S | % Moisture | : NA |
| Calib. Ref. | : PD03020A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2450 | 2000 | 123 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-036-NBZ-SB-4.0-5.0 | Date Analyzed: 04/03/12 20:18 |
| Lab Samp ID: C285-10 | Dilution Factor: .99 |
| Lab File ID: PD03029A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: PD03020A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2290 | 1980 | 116 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-037-NBZ-SB-3.0-4.0 | Date Analyzed: 04/03/12 20:32 |
| Lab Samp ID: C285-12 | Dilution Factor: .99 |
| Lab File ID: PD03030A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: PD03020A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2280 | 1980 | 115 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/28/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/28/12 |
| Batch No. | : 12C285 | Date Extracted | : 04/02/12 19:23 |
| Sample ID | : SL-040-NBZ-SB-2.5-3.5 | Date Analyzed | : 04/03/12 20:59 |
| Lab Samp ID | : C285-14 | Dilution Factor | : 1 |
| Lab File ID | : PD03032A | Matrix | : SOIL |
| Ext Btch ID | : EXD001S | % Moisture | : NA |
| Calib. Ref. | : PD03031A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2350 | 2000 | 118 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/02/12 19:23 |
| Sample ID: SL-036-NBZ-SB-7.5-8.5 | Date Analyzed: 04/03/12 21:48 |
| Lab Samp ID: C285-16 | Dilution Factor: 1 |
| Lab File ID: PD03035A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: PD03031A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2370 | 2000 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| Batch No. : 12C285 | Date Extracted: 04/02/12 19:23 |
| Sample ID: DUP-03-NBZ-QC-032812 | Date Analyzed: 04/03/12 22:02 |
| Lab Samp ID: C285-17 | Dilution Factor: 1 |
| Lab File ID: PD03036A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: PD03031A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2610 | 2000 | 130 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12C285 | Date Extracted: 04/02/12 19:23 |
| Sample ID: MBLK1S | Date Analyzed: 04/03/12 15:57 |
| Lab Samp ID: EXD001SB | Dilution Factor: 1 |
| Lab File ID: PD03010A | Matrix : SOIL |
| Ext Btch ID: EXD001S | % Moisture : NA |
| Calib. Ref.: PD03009A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2380 | 2000 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD001SB | EXD001SX | EXD001SY | | |
| LAB FILE ID: | PD03010A | PD03011A | PD03012A | | |
| DATE EXTRACTED: | 04/02/1219:23 | 04/02/1219:23 | 04/02/1219:23 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1215:57 | 04/03/1216:11 | 04/03/1216:25 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | EXD001S | EXD001S | EXD001S | | |
| CALIB. REF: | PD03009A | PD03009A | PD03009A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7550 | 101 | 7500 | 7410 | 99 | 2 | 50-150 | 50 |
| PETN | ND | 7500 | 7800 | 104 | 7500 | 7920 | 106 | 1 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2420 | 121 | 2000 | 2420 | 121 | 65-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: Method 8332

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-040-NBZ-SB-2.5-3.5 | | | | |
| LAB SAMP ID: | C285-14 | C285-14M | C285-14S | | |
| LAB FILE ID: | PD03032A | PD03033A | PD03034A | | |
| DATE EXTRACTED: | 04/02/1219:23 | 04/02/1219:23 | 04/02/1219:23 | DATE COLLECTED: | 03/28/12 |
| DATE ANALYZED: | 04/03/1220:59 | 04/03/1221:13 | 04/03/1221:34 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | EXD001S | EXD001S | EXD001S | | |
| CALIB. REF: | PD03031A | PD03031A | PD03031A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7860 | 105 | 7500 | 7230 | 96 | 8 | 50-150 | 50 |
| PETN | ND | 7500 | 8010 | 107 | 7500 | 7950 | 106 | 1 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2470 | 123 | 2000 | 2450 | 123 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| SDG NO. : 12C285 | Date Extracted: 04/06/12 10:42 |
| Sample ID: SL-040-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 15:28 |
| Lab Samp ID: C285-01 | Dilution Factor: 0.971 |
| Lab File ID: 98D06038 | Matrix : SOIL |
| Ext Btch ID: IMD014S | % Moisture : 11.1 |
| Calib. Ref.: 98D06028 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 8830 | 26.2 | 13.1 |
| Antimony | 0.146J | 0.218 | 0.109 |
| Arsenic | 3.99 | 0.437 | 0.218 |
| Barium | 63.7 | 0.437 | 0.218 |
| Beryllium | 0.406 | 0.109 | 0.0546 |
| Boron | ND | 5.46 | 2.73 |
| Cadmium | 0.140 | 0.109 | 0.0546 |
| Calcium | 2320 | 21.8 | 10.9 |
| Chromium | 11.6 | 0.437 | 0.218 |
| Cobalt | 4.14 | 0.109 | 0.0546 |
| Copper | 5.37 | 0.437 | 0.218 |
| Iron | 17600 | 21.8 | 10.9 |
| Lead | 5.63 | 0.218 | 0.109 |
| Magnesium | 3650 | 10.9 | 5.46 |
| Manganese | 223 | 0.546 | 0.273 |
| Molybdenum | 0.345 | 0.109 | 0.0546 |
| Nickel | 6.45 | 0.437 | 0.218 |
| Potassium | 3190 | 65.5 | 32.8 |
| Selenium | ND | 0.437 | 0.218 |
| Silver | ND | 0.109 | 0.0546 |
| Sodium | ND | 109 | 54.6 |
| Strontium | 12.5 | 0.546 | 0.273 |
| Thallium | 0.227 | 0.109 | 0.0546 |
| Tin | ND | 10.9 | 5.46 |
| Titanium | 848 | 1.09 | 0.546 |
| Vanadium | 25.4 | 0.109 | 0.0546 |
| Zinc | 50.7 | 3.28 | 1.64 |
| Lithium | 19.6 | 2.18 | 1.09 |
| Phosphorus | 309 | 13.1 | 6.55 |
| Zirconium | ND | 5.46 | 2.73 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/28/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/28/12 |
| SDG NO. | : 12C285 | Date Extracted | : 04/06/12 10:42 |
| Sample ID | : SL-094-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 15:46 |
| Lab Samp ID | : C285-02 | Dilution Factor | : 0.971 |
| Lab File ID | : 98D06042 | Matrix | : SOIL |
| Ext Btch ID | : IMD014S | % Moisture | : 13.2 |
| Calib. Ref. | : 98D06040 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10900 | 26.8 | 13.4 |
| Antimony | 0.193J | 0.224 | 0.112 |
| Arsenic | 3.50 | 0.447 | 0.224 |
| Barium | 116 | 0.447 | 0.224 |
| Beryllium | 0.542 | 0.112 | 0.0559 |
| Boron | ND | 5.59 | 2.80 |
| Cadmium | 0.280 | 0.112 | 0.0559 |
| Calcium | 2000 | 22.4 | 11.2 |
| Chromium | 14.9 | 0.447 | 0.224 |
| Cobalt | 5.01 | 0.112 | 0.0559 |
| Copper | 7.14 | 0.447 | 0.224 |
| Iron | 17600 | 22.4 | 11.2 |
| Lead | 8.45 | 0.224 | 0.112 |
| Magnesium | 3650 | 11.2 | 5.59 |
| Manganese | 350 | 0.559 | 0.280 |
| Molybdenum | 0.564 | 0.112 | 0.0559 |
| Nickel | 10.6 | 0.447 | 0.224 |
| Potassium | 3780 | 67.1 | 33.6 |
| Selenium | ND | 0.447 | 0.224 |
| Silver | ND | 0.112 | 0.0559 |
| Sodium | 58.2J | 112 | 55.9 |
| Strontium | 22.0 | 0.559 | 0.280 |
| Thallium | 0.244 | 0.112 | 0.0559 |
| Tin | ND | 11.2 | 5.59 |
| Titanium | 875 | 1.12 | 0.559 |
| Vanadium | 29.3 | 0.112 | 0.0559 |
| Zinc | 48.5 | 3.36 | 1.68 |
| Lithium | 19.4 | 2.24 | 1.12 |
| Phosphorus | 273 | 13.4 | 6.71 |
| Zirconium | ND | 5.59 | 2.80 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/28/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/28/12 |
| SDG NO. | : 12C285 | Date Extracted | : 04/06/12 10:42 |
| Sample ID | : SL-096-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 15:51 |
| Lab Samp ID | : C285-03 | Dilution Factor | : 0.995 |
| Lab File ID | : 98D06043 | Matrix | : SOIL |
| Ext Btch ID | : IMD014S | % Moisture | : 13.7 |
| Calib. Ref. | : 98D06040 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9330 | 27.7 | 13.8 |
| Antimony | 0.221J | 0.231 | 0.115 |
| Arsenic | 3.86 | 0.461 | 0.231 |
| Barium | 78.4 | 0.461 | 0.231 |
| Beryllium | 0.426 | 0.115 | 0.0576 |
| Boron | ND | 5.76 | 2.88 |
| Cadmium | 0.166 | 0.115 | 0.0576 |
| Calcium | 2760 | 23.1 | 11.5 |
| Chromium | 15.5 | 0.461 | 0.231 |
| Cobalt | 5.16 | 0.115 | 0.0576 |
| Copper | 8.03 | 0.461 | 0.231 |
| Iron | 18500 | 23.1 | 11.5 |
| Lead | 10.7 | 0.231 | 0.115 |
| Magnesium | 4230 | 11.5 | 5.76 |
| Manganese | 256 | 0.576 | 0.288 |
| Molybdenum | 0.407 | 0.115 | 0.0576 |
| Nickel | 10.1 | 0.461 | 0.231 |
| Potassium | 2820 | 69.2 | 34.6 |
| Selenium | ND | 0.461 | 0.231 |
| Silver | ND | 0.115 | 0.0576 |
| Sodium | ND | 115 | 57.6 |
| Strontium | 14.5 | 0.576 | 0.288 |
| Thallium | 0.204 | 0.115 | 0.0576 |
| Tin | ND | 11.5 | 5.76 |
| Titanium | 825 | 1.15 | 0.576 |
| Vanadium | 29.6 | 0.115 | 0.0576 |
| Zinc | 52.0 | 3.46 | 1.73 |
| Lithium | 21.1 | 2.31 | 1.15 |
| Phosphorus | 302 | 13.8 | 6.92 |
| Zirconium | ND | 5.76 | 2.88 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| SDG NO. : 12C285 | Date Extracted: 04/06/12 10:42 |
| Sample ID: SL-135-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 15:56 |
| Lab Samp ID: C285-04 | Dilution Factor: 1.00 |
| Lab File ID: 98D06044 | Matrix : SOIL |
| Ext Btch ID: IMD014S | % Moisture : 12.8 |
| Calib. Ref.: 98D06040 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 13400 | 27.5 | 13.8 |
| Antimony | 0.293 | 0.229 | 0.115 |
| Arsenic | 5.92 | 0.459 | 0.229 |
| Barium | 120 | 0.459 | 0.229 |
| Beryllium | 0.645 | 0.115 | 0.0573 |
| Boron | ND | 5.73 | 2.87 |
| Cadmium | 0.218 | 0.115 | 0.0573 |
| Calcium | 3460 | 22.9 | 11.5 |
| Chromium | 23.8 | 0.459 | 0.229 |
| Cobalt | 6.66 | 0.115 | 0.0573 |
| Copper | 13.3 | 0.459 | 0.229 |
| Iron | 23800 | 22.9 | 11.5 |
| Lead | 11.2 | 0.229 | 0.115 |
| Magnesium | 5640 | 11.5 | 5.73 |
| Manganese | 326 | 0.573 | 0.287 |
| Molybdenum | 0.627 | 0.115 | 0.0573 |
| Nickel | 16.4 | 0.459 | 0.229 |
| Potassium | 3360 | 68.8 | 34.4 |
| Selenium | 0.280J | 0.459 | 0.229 |
| Silver | 0.0666J | 0.115 | 0.0573 |
| Sodium | 72.5J | 115 | 57.3 |
| Strontium | 23.3 | 0.573 | 0.287 |
| Thallium | 0.284 | 0.115 | 0.0573 |
| Tin | ND | 11.5 | 5.73 |
| Titanium | 1110 | 1.15 | 0.573 |
| Vanadium | 44.3 | 0.115 | 0.0573 |
| Zinc | 67.9 | 3.44 | 1.72 |
| Lithium | 28.9 | 2.29 | 1.15 |
| Phosphorus | 368 | 13.8 | 6.88 |
| Zirconium | ND | 5.73 | 2.87 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/28/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/28/12 |
| SDG NO. | : 12C285 | Date Extracted | : 04/06/12 10:42 |
| Sample ID | : SL-136-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 16:00 |
| Lab Samp ID | : C285-05 | Dilution Factor | : 0.962 |
| Lab File ID | : 98D06045 | Matrix | : SOIL |
| Ext Btch ID | : IMD014S | % Moisture | : 9.7 |
| Calib. Ref. | : 98D06040 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 8090 | 25.6 | 12.8 |
| Antimony | ND | 0.213 | 0.107 |
| Arsenic | 2.09 | 0.426 | 0.213 |
| Barium | 58.0 | 0.426 | 0.213 |
| Beryllium | 0.320 | 0.107 | 0.0533 |
| Boron | ND | 5.33 | 2.66 |
| Cadmium | 0.0848J | 0.107 | 0.0533 |
| Calcium | 1450 | 21.3 | 10.7 |
| Chromium | 6.29 | 0.426 | 0.213 |
| Cobalt | 2.58 | 0.107 | 0.0533 |
| Copper | 3.08 | 0.426 | 0.213 |
| Iron | 14800 | 21.3 | 10.7 |
| Lead | 8.56 | 0.213 | 0.107 |
| Magnesium | 2750 | 10.7 | 5.33 |
| Manganese | 171 | 0.533 | 0.266 |
| Molybdenum | 0.273 | 0.107 | 0.0533 |
| Nickel | 4.03 | 0.426 | 0.213 |
| Potassium | 3030 | 63.9 | 32.0 |
| Selenium | ND | 0.426 | 0.213 |
| Silver | ND | 0.107 | 0.0533 |
| Sodium | 62.1J | 107 | 53.3 |
| Strontium | 11.1 | 0.533 | 0.266 |
| Thallium | 0.212 | 0.107 | 0.0533 |
| Tin | ND | 10.7 | 5.33 |
| Titanium | 923 | 1.07 | 0.533 |
| Vanadium | 16.8 | 0.107 | 0.0533 |
| Zinc | 50.5 | 3.20 | 1.60 |
| Lithium | 19.4 | 2.13 | 1.07 |
| Phosphorus | 168 | 12.8 | 6.39 |
| Zirconium | ND | 5.33 | 2.66 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| SDG NO. : 12C285 | Date Extracted: 04/06/12 10:42 |
| Sample ID: SL-139-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 16:05 |
| Lab Samp ID: C285-06 | Dilution Factor: 0.985 |
| Lab File ID: 98D06046 | Matrix : SOIL |
| Ext Btch ID: IMD014S | % Moisture : 16.3 |
| Calib. Ref.: 98D06040 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9870 | 28.2 | 14.1 |
| Antimony | 0.205J | 0.235 | 0.118 |
| Arsenic | 2.78 | 0.471 | 0.235 |
| Barium | 119 | 0.471 | 0.235 |
| Beryllium | 0.389 | 0.118 | 0.0588 |
| Boron | ND | 5.88 | 2.94 |
| Cadmium | 0.266 | 0.118 | 0.0588 |
| Calcium | 3290 | 23.5 | 11.8 |
| Chromium | 15.2 | 0.471 | 0.235 |
| Cobalt | 4.59 | 0.118 | 0.0588 |
| Copper | 8.66 | 0.471 | 0.235 |
| Iron | 17600 | 23.5 | 11.8 |
| Lead | 15.2 | 0.235 | 0.118 |
| Magnesium | 4040 | 11.8 | 5.88 |
| Manganese | 371 | 0.588 | 0.294 |
| Molybdenum | 0.454 | 0.118 | 0.0588 |
| Nickel | 10.3 | 0.471 | 0.235 |
| Potassium | 3670 | 70.6 | 35.3 |
| Selenium | ND | 0.471 | 0.235 |
| Silver | ND | 0.118 | 0.0588 |
| Sodium | ND | 118 | 58.8 |
| Strontium | 19.8 | 0.588 | 0.294 |
| Thallium | 0.203 | 0.118 | 0.0588 |
| Tin | ND | 11.8 | 5.88 |
| Titanium | 886 | 1.18 | 0.588 |
| Vanadium | 29.5 | 0.118 | 0.0588 |
| Zinc | 66.4 | 3.53 | 1.77 |
| Lithium | 19.3 | 2.35 | 1.18 |
| Phosphorus | 594 | 14.1 | 7.06 |
| Zirconium | ND | 5.88 | 2.94 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| SDG NO. : 12C285 | Date Extracted: 04/06/12 10:42 |
| Sample ID: SL-141-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 16:09 |
| Lab Samp ID: C285-07 | Dilution Factor: 0.990 |
| Lab File ID: 98D06047 | Matrix : SOIL |
| Ext Btch ID: IMD014S | % Moisture : 10.9 |
| Calib. Ref.: 98D06040 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11400 | 26.7 | 13.3 |
| Antimony | 0.130J | 0.222 | 0.111 |
| Arsenic | 3.42 | 0.444 | 0.222 |
| Barium | 77.6 | 0.444 | 0.222 |
| Beryllium | 0.471 | 0.111 | 0.0556 |
| Boron | ND | 5.56 | 2.78 |
| Cadmium | 0.0938J | 0.111 | 0.0556 |
| Calcium | 1990 | 22.2 | 11.1 |
| Chromium | 16.9 | 0.444 | 0.222 |
| Cobalt | 4.79 | 0.111 | 0.0556 |
| Copper | 6.61 | 0.444 | 0.222 |
| Iron | 18300 | 22.2 | 11.1 |
| Lead | 7.62 | 0.222 | 0.111 |
| Magnesium | 4540 | 11.1 | 5.56 |
| Manganese | 234 | 0.556 | 0.278 |
| Molybdenum | 0.366 | 0.111 | 0.0556 |
| Nickel | 10.5 | 0.444 | 0.222 |
| Potassium | 2000 | 66.7 | 33.3 |
| Selenium | ND | 0.444 | 0.222 |
| Silver | ND | 0.111 | 0.0556 |
| Sodium | 72.0J | 111 | 55.6 |
| Strontium | 12.8 | 0.556 | 0.278 |
| Thallium | 0.202 | 0.111 | 0.0556 |
| Tin | ND | 11.1 | 5.56 |
| Titanium | 883 | 1.11 | 0.556 |
| Vanadium | 30.3 | 0.111 | 0.0556 |
| Zinc | 45.9 | 3.33 | 1.67 |
| Lithium | 23.3 | 2.22 | 1.11 |
| Phosphorus | 286 | 13.3 | 6.67 |
| Zirconium | ND | 5.56 | 2.78 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| SDG NO. : 12C285 | Date Extracted: 04/06/12 10:42 |
| Sample ID: SL-143-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 16:46 |
| Lab Samp ID: C285-08 | Dilution Factor: 0.962 |
| Lab File ID: 98D06055 | Matrix : SOIL |
| Ext Btch ID: IMD014S | % Moisture : 7.8 |
| Calib. Ref.: 98D06052 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10600 | 25.0 | 12.5 |
| Antimony | 0.171J | 0.209 | 0.104 |
| Arsenic | 3.72 | 0.417 | 0.209 |
| Barium | 87.3 | 0.417 | 0.209 |
| Beryllium | 0.415 | 0.104 | 0.0522 |
| Boron | ND | 5.22 | 2.61 |
| Cadmium | 0.162 | 0.104 | 0.0522 |
| Calcium | 2230 | 20.9 | 10.4 |
| Chromium | 17.8 | 0.417 | 0.209 |
| Cobalt | 6.05 | 0.104 | 0.0522 |
| Copper | 34.4 | 0.417 | 0.209 |
| Iron | 20700 | 20.9 | 10.4 |
| Lead | 5.09 | 0.209 | 0.104 |
| Magnesium | 6170 | 10.4 | 5.22 |
| Manganese | 260 | 0.522 | 0.261 |
| Molybdenum | 0.275 | 0.104 | 0.0522 |
| Nickel | 10.0 | 0.417 | 0.209 |
| Potassium | 3320 | 62.6 | 31.3 |
| Selenium | ND | 0.417 | 0.209 |
| Silver | ND | 0.104 | 0.0522 |
| Sodium | 53.4J | 104 | 52.2 |
| Strontium | 10.5 | 0.522 | 0.261 |
| Thallium | 0.228 | 0.104 | 0.0522 |
| Tin | ND | 10.4 | 5.22 |
| Titanium | 1240 | 1.04 | 0.522 |
| Vanadium | 36.3 | 0.104 | 0.0522 |
| Zinc | 54.9 | 3.13 | 1.57 |
| Lithium | 26.7 | 2.09 | 1.04 |
| Phosphorus | 455 | 12.5 | 6.26 |
| Zirconium | ND | 5.22 | 2.61 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/28/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/28/12 |
| SDG NO. | : 12C285 | Date Extracted | : 04/06/12 10:42 |
| Sample ID | : SL-036-NBZ-SB-4.0-5.0 | Date Analyzed | : 04/11/12 16:51 |
| Lab Samp ID | : C285-10 | Dilution Factor | : 0.985 |
| Lab File ID | : 98D06056 | Matrix | : SOIL |
| Ext Btch ID | : IMD014S | % Moisture | : 11.8 |
| Calib. Ref. | : 98D06052 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11400 | 26.8 | 13.4 |
| Antimony | ND | 0.223 | 0.112 |
| Arsenic | 2.87 | 0.447 | 0.223 |
| Barium | 40.3 | 0.447 | 0.223 |
| Beryllium | 0.377 | 0.112 | 0.0558 |
| Boron | ND | 5.58 | 2.79 |
| Cadmium | 0.0667J | 0.112 | 0.0558 |
| Calcium | 2310 | 22.3 | 11.2 |
| Chromium | 13.8 | 0.447 | 0.223 |
| Cobalt | 2.24 | 0.112 | 0.0558 |
| Copper | 1.81 | 0.447 | 0.223 |
| Iron | 21100 | 22.3 | 11.2 |
| Lead | 4.02 | 0.223 | 0.112 |
| Magnesium | 3230 | 11.2 | 5.58 |
| Manganese | 81.4 | 0.558 | 0.279 |
| Molybdenum | 0.478 | 0.112 | 0.0558 |
| Nickel | 6.02 | 0.447 | 0.223 |
| Potassium | 725 | 67.0 | 33.5 |
| Selenium | ND | 0.447 | 0.223 |
| Silver | ND | 0.112 | 0.0558 |
| Sodium | 208 | 112 | 55.8 |
| Strontium | 18.1 | 0.558 | 0.279 |
| Thallium | 0.152 | 0.112 | 0.0558 |
| Tin | ND | 11.2 | 5.58 |
| Titanium | 783 | 1.12 | 0.558 |
| Vanadium | 27.4 | 0.112 | 0.0558 |
| Zinc | 30.4 | 3.35 | 1.68 |
| Lithium | 17.8 | 2.23 | 1.12 |
| Phosphorus | 50.1 | 13.4 | 6.70 |
| Zirconium | ND | 5.58 | 2.79 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/28/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/28/12 |
| SDG NO. | : 12C285 | Date Extracted | : 04/06/12 10:42 |
| Sample ID | : SL-037-NBZ-SB-3.0-4.0 | Date Analyzed | : 04/11/12 16:55 |
| Lab Samp ID | : C285-12 | Dilution Factor | : 0.971 |
| Lab File ID | : 98D06057 | Matrix | : SOIL |
| Ext Btch ID | : IMD014S | % Moisture | : 10.2 |
| Calib. Ref. | : 98D06052 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12900 | 26.0 | 13.0 |
| Antimony | ND | 0.216 | 0.108 |
| Arsenic | 2.17 | 0.433 | 0.216 |
| Barium | 38.1 | 0.433 | 0.216 |
| Beryllium | 0.486 | 0.108 | 0.0541 |
| Boron | 2.85J | 5.41 | 2.70 |
| Cadmium | ND | 0.108 | 0.0541 |
| Calcium | 1410 | 21.6 | 10.8 |
| Chromium | 14.8 | 0.433 | 0.216 |
| Cobalt | 2.78 | 0.108 | 0.0541 |
| Copper | 1.91 | 0.433 | 0.216 |
| Iron | 17600 | 21.6 | 10.8 |
| Lead | 3.96 | 0.216 | 0.108 |
| Magnesium | 3380 | 10.8 | 5.41 |
| Manganese | 75.0 | 0.541 | 0.270 |
| Molybdenum | 0.194 | 0.108 | 0.0541 |
| Nickel | 5.86 | 0.433 | 0.216 |
| Potassium | 943 | 64.9 | 32.4 |
| Selenium | ND | 0.433 | 0.216 |
| Silver | 0.0589J | 0.108 | 0.0541 |
| Sodium | 618 | 108 | 54.1 |
| Strontium | 13.1 | 0.541 | 0.270 |
| Thallium | 0.199 | 0.108 | 0.0541 |
| Tin | ND | 10.8 | 5.41 |
| Titanium | 715 | 1.08 | 0.541 |
| Vanadium | 23.3 | 0.108 | 0.0541 |
| Zinc | 26.2 | 3.24 | 1.62 |
| Lithium | 18.4 | 2.16 | 1.08 |
| Phosphorus | 44.3 | 13.0 | 6.49 |
| Zirconium | ND | 5.41 | 2.70 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| SDG NO. : 12C285 | Date Extracted: 04/06/12 10:42 |
| Sample ID: SL-040-NBZ-SB-2.5-3.5 | Date Analyzed: 04/11/12 15:19 |
| Lab Samp ID: C285-14 | Dilution Factor: 0.990 |
| Lab File ID: 98D06036 | Matrix : SOIL |
| Ext Btch ID: IMD014S | % Moisture : 4.5 |
| Calib. Ref.: 98D06028 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9610 | 24.9 | 12.4 |
| Antimony | 0.193J | 0.207 | 0.104 |
| Arsenic | 4.03 | 0.415 | 0.207 |
| Barium | 60.3 | 0.415 | 0.207 |
| Beryllium | 0.454 | 0.104 | 0.0518 |
| Boron | 2.71J | 5.18 | 2.59 |
| Cadmium | 0.178 | 0.104 | 0.0518 |
| Calcium | 2560 | 20.7 | 10.4 |
| Chromium | 13.2 | 0.415 | 0.207 |
| Cobalt | 4.74 | 0.104 | 0.0518 |
| Copper | 5.47 | 0.415 | 0.207 |
| Iron | 18000 | 20.7 | 10.4 |
| Lead | 8.02 | 0.207 | 0.104 |
| Magnesium | 3870 | 10.4 | 5.18 |
| Manganese | 252 | 0.518 | 0.259 |
| Molybdenum | 0.464 | 0.104 | 0.0518 |
| Nickel | 7.63 | 0.415 | 0.207 |
| Potassium | 2830 | 62.2 | 31.1 |
| Selenium | ND | 0.415 | 0.207 |
| Silver | ND | 0.104 | 0.0518 |
| Sodium | 68.4J | 104 | 51.8 |
| Strontium | 12.1 | 0.518 | 0.259 |
| Thallium | 0.247 | 0.104 | 0.0518 |
| Tin | ND | 10.4 | 5.18 |
| Titanium | 882 | 1.04 | 0.518 |
| Vanadium | 27.6 | 0.104 | 0.0518 |
| Zinc | 59.4 | 3.11 | 1.55 |
| Lithium | 22.6 | 2.07 | 1.04 |
| Phosphorus | 289 | 12.4 | 6.22 |
| Zirconium | ND | 5.18 | 2.59 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| SDG NO. : 12C285 | Date Extracted: 04/06/12 10:42 |
| Sample ID: SL-036-NBZ-SB-7.5-8.5 | Date Analyzed: 04/11/12 17:00 |
| Lab Samp ID: C285-16 | Dilution Factor: 0.976 |
| Lab File ID: 98D06058 | Matrix : SOIL |
| Ext Btch ID: IMD014S | % Moisture : 23.6 |
| Calib. Ref.: 98D06052 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12400 | 30.7 | 15.3 |
| Antimony | ND | 0.255 | 0.128 |
| Arsenic | 1.71 | 0.511 | 0.255 |
| Barium | 59.6 | 0.511 | 0.255 |
| Beryllium | 0.434 | 0.128 | 0.0639 |
| Boron | ND | 6.39 | 3.19 |
| Cadmium | 0.0731J | 0.128 | 0.0639 |
| Calcium | 2060 | 25.5 | 12.8 |
| Chromium | 14.3 | 0.511 | 0.255 |
| Cobalt | 2.65 | 0.128 | 0.0639 |
| Copper | 4.25 | 0.511 | 0.255 |
| Iron | 21600 | 25.5 | 12.8 |
| Lead | 3.62 | 0.255 | 0.128 |
| Magnesium | 3700 | 12.8 | 6.39 |
| Manganese | 111 | 0.639 | 0.319 |
| Molybdenum | 0.486 | 0.128 | 0.0639 |
| Nickel | 7.28 | 0.511 | 0.255 |
| Potassium | 1890 | 76.6 | 38.3 |
| Selenium | ND | 0.511 | 0.255 |
| Silver | 0.0648J | 0.128 | 0.0639 |
| Sodium | 170 | 128 | 63.9 |
| Strontium | 15.8 | 0.639 | 0.319 |
| Thallium | 0.271 | 0.128 | 0.0639 |
| Tin | ND | 12.8 | 6.39 |
| Titanium | 1050 | 1.28 | 0.639 |
| Vanadium | 29.7 | 0.128 | 0.0639 |
| Zinc | 48.0 | 3.83 | 1.92 |
| Lithium | 22.9 | 2.55 | 1.28 |
| Phosphorus | 157 | 15.3 | 7.66 |
| Zirconium | ND | 6.39 | 3.19 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/28/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/28/12 |
| SDG NO. : 12C285 | Date Extracted: 04/06/12 10:42 |
| Sample ID: DUP-03-NBZ-QC-032812 | Date Analyzed: 04/11/12 17:04 |
| Lab Samp ID: C285-17 | Dilution Factor: 0.976 |
| Lab File ID: 98D06059 | Matrix : SOIL |
| Ext Btch ID: IMD014S | % Moisture : 5.9 |
| Calib. Ref.: 98D06052 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 8650 | 24.9 | 12.4 |
| Antimony | 0.213 | 0.207 | 0.104 |
| Arsenic | 3.93 | 0.415 | 0.207 |
| Barium | 63.5 | 0.415 | 0.207 |
| Beryllium | 0.395 | 0.104 | 0.0519 |
| Boron | ND | 5.19 | 2.59 |
| Cadmium | 0.202 | 0.104 | 0.0519 |
| Calcium | 2860 | 20.7 | 10.4 |
| Chromium | 13.1 | 0.415 | 0.207 |
| Cobalt | 4.16 | 0.104 | 0.0519 |
| Copper | 5.56 | 0.415 | 0.207 |
| Iron | 17400 | 20.7 | 10.4 |
| Lead | 7.45 | 0.207 | 0.104 |
| Magnesium | 3710 | 10.4 | 5.19 |
| Manganese | 225 | 0.519 | 0.259 |
| Molybdenum | 0.424 | 0.104 | 0.0519 |
| Nickel | 7.47 | 0.415 | 0.207 |
| Potassium | 2550 | 62.2 | 31.1 |
| Selenium | 0.508 | 0.415 | 0.207 |
| Silver | 0.0639J | 0.104 | 0.0519 |
| Sodium | 61.2J | 104 | 51.9 |
| Strontium | 13.1 | 0.519 | 0.259 |
| Thallium | 0.222 | 0.104 | 0.0519 |
| Tin | ND | 10.4 | 5.19 |
| Titanium | 776 | 1.04 | 0.519 |
| Vanadium | 26.9 | 0.104 | 0.0519 |
| Zinc | 55.4 | 3.11 | 1.56 |
| Lithium | 19.3 | 2.07 | 1.04 |
| Phosphorus | 284 | 12.4 | 6.22 |
| Zirconium | ND | 5.19 | 2.59 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/06/12 |
| SDG NO. : 12C285 | Date Extracted: 04/06/12 10:42 |
| Sample ID: MBLK1S | Date Analyzed: 04/11/12 14:52 |
| Lab Samp ID: IMD014SB | Dilution Factor: 1 |
| Lab File ID: 98D06030 | Matrix : SOIL |
| Ext Btch ID: IMD014S | % Moisture : NA |
| Calib. Ref.: 98D06028 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C285
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IMD014SB | IMD014SL | IMD014SC | | |
| LAB FILE ID: | 98D06030 | 98D06031 | 98D06032 | | |
| DATIME EXTRCTD: | 04/06/1210:42 | 04/06/1210:42 | 04/06/1210:42 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/11/1214:52 | 04/11/1214:56 | 04/11/1215:01 | DATE RECEIVED: | 04/06/12 |
| PREP. BATCH: | NA | NA | NA | | |
| CALIB. REF: | 98D06028 | 98D06028 | 98D06028 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2460 | 98 | 2500 | 2480 | 99 | 1 | 80-120 | 20 |
| Antimony | ND | 25.0 | 26.0 | 104 | 25.0 | 25.6 | 102 | 2 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 24.6 | 98 | 25.0 | 24.7 | 99 | 1 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.5 | 102 | 25.0 | 25.3 | 101 | 1 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 25.0 | 100 | 25.0 | 25.6 | 102 | 2 | 80-120 | 20 |
| Boron | ND | 25.0 | 25.6 | 103 | 25.0 | 26.1 | 104 | 2 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 24.9 | 99 | 25.0 | 25.0 | 100 | 1 | 80-120 | 20 |
| Calcium | ND | 2500 | 2590 | 104 | 2500 | 2660 | 107 | 3 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.7 | 99 | 25.0 | 24.8 | 99 | 0 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 24.9 | 100 | 25.0 | 24.9 | 100 | 0 | 80-120 | 20 |
| Copper | ND | 25.0 | 24.9 | 100 | 25.0 | 24.6 | 98 | 1 | 80-120 | 20 |
| Iron | ND | 2500 | 2590 | 103 | 2500 | 2650 | 106 | 2 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.8 | 103 | 25.0 | 25.9 | 104 | 1 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2440 | 98 | 2500 | 2450 | 98 | 0 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.0 | 100 | 25.0 | 25.6 | 103 | 3 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 25.1 | 100 | 25.0 | 24.9 | 99 | 1 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.5 | 98 | 25.0 | 24.6 | 98 | 1 | 80-120 | 20 |
| Potassium | ND | 2500 | 2600 | 104 | 2500 | 2550 | 102 | 2 | 80-120 | 20 |
| Selenium | ND | 25.0 | 24.7 | 99 | 25.0 | 25.0 | 100 | 1 | 80-120 | 20 |
| Silver | ND | 25.0 | 25.0 | 100 | 25.0 | 24.7 | 99 | 2 | 80-120 | 20 |
| Sodium | ND | 2500 | 2450 | 98 | 2500 | 2480 | 99 | 1 | 80-120 | 20 |
| Strontium | ND | 25.0 | 25.8 | 103 | 25.0 | 26.1 | 104 | 1 | 80-120 | 20 |
| Thallium | ND | 25.0 | 25.5 | 102 | 25.0 | 27.0 | 108 | 6 | 80-120 | 20 |
| Tin | ND | 25.0 | 27.8 | 111 | 25.0 | 27.4 | 109 | 2 | 80-120 | 20 |
| Titanium | ND | 25.0 | 25.1 | 100 | 25.0 | 25.6 | 103 | 2 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 25.0 | 100 | 25.0 | 25.2 | 101 | 1 | 80-120 | 20 |
| Zinc | ND | 25.0 | 24.2 | 97 | 25.0 | 24.0 | 96 | 1 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.5 | 102 | 25.0 | 25.6 | 102 | 0 | 80-120 | 20 |
| Phosphorus | ND | 250 | 240 | 96 | 250 | 241 | 96 | 0 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 25.0 | 100 | 25.0 | 25.5 | 102 | 2 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C285
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 4.5

| | | | | | |
|---|---|---|---|---|---|
| DILTN FACTR: | 0.990 | 0.962 | 0.966 | | |
| SAMPLE ID: | SL-040-NBZ-SB-2.5-3.5 | | | | |
| CONTROL NO.: | C285-14 | C285-14M | C285-14S | | |
| LAB FILE ID: | 98D06036 | 98D06033 | 98D06034 | | |
| DATIME EXTRCTD: | 04/06/1210:42 | 04/06/1210:42 | 04/06/1210:42 | DATE COLLECTED: | 03/28/12 |
| DATIME ANALYZD: | 04/11/1215:19 | 04/11/1215:05 | 04/11/1215:10 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | NA | NA | NA | | |
| CALIB. REF: | 98D06028 | 98D06028 | 98D06028 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 9610 | 2520 | 11200 | 61* | 2530 | 11500 | 76 | 3 | 75-125 | 20 |
| Antimony | 0.193J | 25.2 | 19.9 | 78 | 25.3 | 20.1 | 79 | 1 | 75-125 | 20 |
| Arsenic | 4.03 | 25.2 | 27.9 | 95 | 25.3 | 27.2 | 92 | 2 | 75-125 | 20 |
| Barium | 60.3 | 25.2 | 86.2 | 103 | 25.3 | 85.1 | 98 | 1 | 75-125 | 20 |
| Beryllium | 0.454 | 25.2 | 26.6 | 104 | 25.3 | 25.6 | 99 | 4 | 75-125 | 20 |
| Boron | 2.71J | 25.2 | 27.8 | 100 | 25.3 | 27.4 | 98 | 2 | 75-125 | 20 |
| Cadmium | 0.178 | 25.2 | 25.1 | 99 | 25.3 | 24.7 | 97 | 2 | 75-125 | 20 |
| Calcium | 2560 | 2520 | 5160 | 103 | 2530 | 4960 | 95 | 4 | 75-125 | 20 |
| Chromium | 13.2 | 25.2 | 36.1 | 91 | 25.3 | 35.5 | 88 | 2 | 75-125 | 20 |
| Cobalt | 4.74 | 25.2 | 27.7 | 91 | 25.3 | 27.0 | 88 | 2 | 75-125 | 20 |
| Copper | 5.47 | 25.2 | 28.0 | 89 | 25.3 | 27.5 | 87 | 2 | 75-125 | 20 |
| Iron | 18000 | 2520 | 19800 | 69* | 2530 | 19900 | 77 | 1 | 75-125 | 20 |
| Lead | 8.02 | 25.2 | 34.3 | 104 | 25.3 | 32.8 | 98 | 5 | 75-125 | 20 |
| Magnesium | 3870 | 2520 | 5960 | 83 | 2530 | 5930 | 81 | 1 | 75-125 | 20 |
| Manganese | 252 | 25.2 | 256 | 15* | 25.3 | 258 | 24* | 1 | 75-125 | 20 |
| Molybdenum | 0.464 | 25.2 | 25.7 | 100 | 25.3 | 25.4 | 99 | 1 | 75-125 | 20 |
| Nickel | 7.63 | 25.2 | 30.1 | 89 | 25.3 | 29.7 | 87 | 1 | 75-125 | 20 |
| Potassium | 2830 | 2520 | 5200 | 94 | 2530 | 5180 | 93 | 0 | 75-125 | 20 |
| Selenium | ND | 25.2 | 24.1 | 96 | 25.3 | 23.7 | 94 | 2 | 75-125 | 20 |
| Silver | ND | 25.2 | 25.1 | 100 | 25.3 | 24.7 | 98 | 2 | 75-125 | 20 |
| Sodium | 68.4J | 2520 | 2400 | 92 | 2530 | 2350 | 90 | 2 | 75-125 | 20 |
| Strontium | 12.1 | 25.2 | 37.9 | 103 | 25.3 | 36.5 | 96 | 4 | 75-125 | 20 |
| Thallium | 0.247 | 25.2 | 26.2 | 103 | 25.3 | 25.6 | 100 | 2 | 75-125 | 20 |
| Tin | ND | 25.2 | 28.5 | 113 | 25.3 | 28.2 | 111 | 1 | 75-125 | 20 |
| Titanium | 882 | 25.2 | 836 | -183* | 25.3 | 858 | -95* | 3 | 75-125 | 20 |
| Vanadium | 27.6 | 25.2 | 50.9 | 93 | 25.3 | 50.3 | 90 | 1 | 75-125 | 20 |
| Zinc | 59.4 | 25.2 | 82.2 | 91 | 25.3 | 81.1 | 86 | 1 | 75-125 | 20 |
| Lithium | 22.6 | 25.2 | 48.3 | 102 | 25.3 | 47.4 | 98 | 2 | 75-125 | 20 |
| Phosphorus | 289 | 252 | 534 | 97 | 253 | 547 | 102 | 2 | 75-125 | 20 |
| Zirconium | ND | 25.2 | 15.8 | 63* | 25.3 | 15.9 | 63* | 0 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C285
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 4.5
DILTN FACTR: 0.990 0.990
SAMPLE ID: SL-040-NBZ-SB-2.5-3.5
CONTROL NO.: C285-14 C285-14A
LAB FILE ID: 98D06036 98D06035
DATIME EXTRCTD: 04/06/1210:42 04/06/1210:42 DATE COLLECTED: 03/28/12
DATIME ANALYZD: 04/11/1215:19 04/11/1215:14 DATE RECEIVED: 03/28/12
PREP. BATCH: IMD014S IMD014S
CALIB. REF: 98D06028 98D06028

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 9610 | 2590 | 11800 | 86 | 75-125 |
| Antimony | 0.193J | 25.9 | 26.1 | 100 | 75-125 |
| Arsenic | 4.03 | 25.9 | 27.6 | 91 | 75-125 |
| Barium | 60.3 | 25.9 | 86.2 | 100 | 75-125 |
| Beryllium | 0.454 | 25.9 | 25.6 | 97 | 75-125 |
| Boron | 2.71J | 25.9 | 28.4 | 99 | 75-125 |
| Cadmium | 0.178 | 25.9 | 24.9 | 95 | 75-125 |
| Calcium | 2560 | 2590 | 5060 | 96 | 75-125 |
| Chromium | 13.2 | 25.9 | 36.0 | 88 | 75-125 |
| Cobalt | 4.74 | 25.9 | 27.7 | 89 | 75-125 |
| Copper | 5.47 | 25.9 | 27.9 | 86 | 75-125 |
| Iron | 18000 | 2590 | 20000 | 77 | 75-125 |
| Lead | 8.02 | 25.9 | 33.0 | 96 | 75-125 |
| Magnesium | 3870 | 2590 | 6110 | 86 | 75-125 |
| Manganese | 252 | 25.9 | 270 | 70* | 75-125 |
| Molybdenum | 0.464 | 25.9 | 25.7 | 97 | 75-125 |
| Nickel | 7.63 | 25.9 | 30.1 | 87 | 75-125 |
| Potassium | 2830 | 2590 | 5290 | 95 | 75-125 |
| Selenium | ND | 25.9 | 24.0 | 93 | 75-125 |
| Silver | ND | 25.9 | 24.6 | 95 | 75-125 |
| Sodium | 68.4J | 2590 | 2340 | 88 | 75-125 |
| Strontium | 12.1 | 25.9 | 38.0 | 100 | 75-125 |
| Thallium | 0.247 | 25.9 | 26.0 | 99 | 75-125 |
| Tin | ND | 25.9 | 28.4 | 109 | 75-125 |
| Titanium | 882 | 25.9 | 899 | 66* | 75-125 |
| Vanadium | 27.6 | 25.9 | 51.2 | 91 | 75-125 |
| Zinc | 59.4 | 51.8 | 105 | 89 | 75-125 |
| Lithium | 22.6 | 25.9 | 47.5 | 96 | 75-125 |
| Phosphorus | 289 | 259 | 555 | 103 | 75-125 |
| Zirconium | ND | 25.9 | 24.5 | 95 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 4.5
DILUTION FACTOR: 0.990 4.95
SAMPLE ID: SL-040-NBZ-SB- SL-040-NBZ-SB-
EMAX SAMP ID: C285-14 C285-14J
LAB FILE ID: 98D06036 98D06037
DATE EXTRACTED: 04/06/1210:42 04/06/1210:42 DATE COLLECTED: 03/28/12
DATE ANALYZED: 04/11/1215:19 04/11/1215:23 DATE RECEIVED: 03/28/12
PREP. BATCH: IMD014S IMD014S
CALIB. REF: 98D06028 98D06028

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 9610 | 10100 | 5 | 10 |
| Antimony | 0.193J | ND | NA | 10 |
| Arsenic | 4.03 | 4.28 | 6 | 10 |
| Barium | 60.3 | 60.0 | 0 | 10 |
| Beryllium | 0.454 | 0.480J | NA | 10 |
| Boron | 2.71J | ND | NA | 10 |
| Cadmium | 0.178 | ND | NA | 10 |
| Calcium | 2560 | 2800 | 9 | 10 |
| Chromium | 13.2 | 13.9 | 6 | 10 |
| Cobalt | 4.74 | 5.09 | 7 | 10 |
| Copper | 5.47 | 5.97 | 9 | 10 |
| Iron | 18000 | 19300 | 7 | 10 |
| Lead | 8.02 | 8.11 | 1 | 10 |
| Magnesium | 3870 | 4120 | 6 | 10 |
| Manganese | 252 | 269 | 7 | 10 |
| Molybdenum | 0.464 | 0.498J | NA | 10 |
| Nickel | 7.63 | 8.22 | 8 | 10 |
| Potassium | 2830 | 2880 | 2 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | 68.4J | ND | NA | 10 |
| Strontium | 12.1 | 12.0 | 1 | 10 |
| Thallium | 0.247 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 882 | 886 | 1 | 10 |
| Vanadium | 27.6 | 29.0 | 5 | 10 |
| Zinc | 59.4 | 61.8 | 4 | 10 |
| Lithium | 22.6 | 21.1 | 7 | 10 |
| Phosphorus | 289 | 312 | 8 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C285
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD003SB | ND | 1 | NA | 0.100 | 0.0500 | 04/03/1212:16 | 04/02/1217:45 | M47D001065 | M47D001056 | HGD003S | NA | 04/02/12 |
| LCS1S | HGD003SL | 0.890 | 1 | NA | 0.100 | 0.0500 | 04/03/1212:18 | 04/02/1217:45 | M47D001066 | M47D001056 | HGD003S | NA | 04/02/12 |
| LCD1S | HGD003SC | 0.887 | 1 | NA | 0.100 | 0.0500 | 04/03/1212:20 | 04/02/1217:45 | M47D001067 | M47D001056 | HGD003S | NA | 04/02/12 |
| SL-040-NBZ-SB-2.5-3.5AS | C285-14A | 0.933 | 0.997 | 4.5 | 0.104 | 0.0522 | 04/03/1212:27 | 04/02/1217:45 | M47D001070 | M47D001068 | HGD003S | 03/28/12 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5 | C285-14 | ND | 0.997 | 4.5 | 0.104 | 0.0522 | 04/03/1212:29 | 04/02/1217:45 | M47D001071 | M47D001068 | HGD003S | 03/28/12 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5DL | C285-14J | ND | 4.98 | 4.5 | 0.521 | 0.261 | 04/03/1212:31 | 04/02/1217:45 | M47D001072 | M47D001068 | HGD003S | 03/28/12 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5MS | C285-14M | 0.967 | 0.998 | 4.5 | 0.105 | 0.0523 | 04/03/1212:33 | 04/02/1217:45 | M47D001073 | M47D001068 | HGD003S | 03/28/12 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5MSD | C285-14S | 0.954 | 1.01 | 4.5 | 0.106 | 0.0529 | 04/03/1212:36 | 04/02/1217:45 | M47D001074 | M47D001068 | HGD003S | 03/28/12 | 03/28/12 |
| SL-040-NBZ-SS-0.0-0.5 | C285-01 | ND | 0.998 | 11.1 | 0.112 | 0.0561 | 04/03/1212:38 | 04/02/1217:45 | M47D001075 | M47D001068 | HGD003S | 03/28/12 | 03/28/12 |
| SL-094-NBZ-SS-0.0-0.5 | C285-02 | ND | 0.990 | 13.2 | 0.114 | 0.0570 | 04/03/1212:40 | 04/02/1217:45 | M47D001076 | M47D001068 | HGD003S | 03/28/12 | 03/28/12 |
| SL-096-NBZ-SS-0.0-0.5 | C285-03 | ND | 0.985 | 13.7 | 0.114 | 0.0571 | 04/03/1212:42 | 04/02/1217:45 | M47D001077 | M47D001068 | HGD003S | 03/28/12 | 03/28/12 |
| SL-135-NBZ-SS-0.0-0.5 | C285-04 | ND | 0.997 | 12.8 | 0.114 | 0.0572 | 04/03/1212:44 | 04/02/1217:45 | M47D001078 | M47D001068 | HGD003S | 03/28/12 | 03/28/12 |
| SL-136-NBZ-SS-0.0-0.5 | C285-05 | ND | 0.998 | 9.7 | 0.111 | 0.0553 | 04/03/1212:46 | 04/02/1217:45 | M47D001079 | M47D001068 | HGD003S | 03/28/12 | 03/28/12 |
| SL-139-NBZ-SS-0.0-0.5 | C285-06 | ND | 0.990 | 16.3 | 0.118 | 0.0591 | 04/03/1212:52 | 04/02/1217:45 | M47D001082 | M47D001080 | HGD003S | 03/28/12 | 03/28/12 |
| SL-141-NBZ-SS-0.0-0.5 | C285-07 | ND | 1.01 | 10.9 | 0.113 | 0.0567 | 04/03/1212:55 | 04/02/1217:45 | M47D001083 | M47D001080 | HGD003S | 03/28/12 | 03/28/12 |
| SL-143-NBZ-SS-0.0-0.5 | C285-08 | ND | 0.990 | 7.8 | 0.107 | 0.0537 | 04/03/1212:58 | 04/02/1217:45 | M47D001084 | M47D001080 | HGD003S | 03/28/12 | 03/28/12 |
| SL-036-NBZ-SB-4.0-5.0 | C285-10 | ND | 0.998 | 11.8 | 0.113 | 0.0566 | 04/03/1213:00 | 04/02/1217:45 | M47D001085 | M47D001080 | HGD003S | 03/28/12 | 03/28/12 |
| SL-037-NBZ-SB-3.0-4.0 | C285-12 | ND | 0.997 | 10.2 | 0.111 | 0.0555 | 04/03/1213:02 | 04/02/1217:45 | M47D001086 | M47D001080 | HGD003S | 03/28/12 | 03/28/12 |
| SL-036-NBZ-SB-7.5-8.5 | C285-16 | ND | 0.988 | 23.6 | 0.129 | 0.0647 | 04/03/1213:04 | 04/02/1217:45 | M47D001087 | M47D001080 | HGD003S | 03/28/12 | 03/28/12 |
| DUP-03-NBZ-QC-032812 | C285-17 | ND | 1.00 | 5.9 | 0.106 | 0.0531 | 04/03/1213:06 | 04/02/1217:45 | M47D001088 | M47D001080 | HGD003S | 03/28/12 | 03/28/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C285
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGD003SB | HGD003SL | HGD003SC | | |
| LAB FILE ID: | M47D001065 | M47D001066 | M47D001067 | | |
| DATIME EXTRCTD: | 04/02/1217:45 | 04/02/1217:45 | 04/02/1217:45 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/03/1212:16 | 04/03/1212:18 | 04/03/1212:20 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | HGD003S | HGD003S | HGD003S | | |
| CALIB. REF: | M47D001056 | M47D001056 | M47D001056 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .89 | 107 | .833 | .887 | 106 | 0 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C285
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 4.5

| | | | | | |
|---|---|---|---|---|---|
| DILTN FACTR: | 0.997 | 0.998 | 1.01 | | |
| SAMPLE ID: | SL-040-NBZ-SB-2.5-3.5 | | | | |
| CONTROL NO.: | C285-14 | C285-14M | C285-14S | | |
| LAB FILE ID: | M47D001071 | M47D001073 | M47D001074 | | |
| DATIME EXTRCTD: | 04/02/1217:45 | 04/02/1217:45 | 04/02/1217:45 | DATE COLLECTED: | 03/28/12 |
| DATIME ANALYZD: | 04/03/1212:29 | 04/03/1212:33 | 04/03/1212:36 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | HGD003S | HGD003S | HGD003S | | |
| CALIB. REF: | M47D001068 | M47D001068 | M47D001068 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .871 | .967 | 111 | .881 | .954 | 108 | 3 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C285
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 4.5 |
| DILTN FACTR: | 0.997 | 0.997 | | |
| SAMPLE ID: | SL-040-NBZ-SB-2.5-3.5 | | | |
| CONTROL NO.: | C285-14 | C285-14A | | |
| LAB FILE ID: | M47D001071 | M47D001070 | | |
| DATIME EXTRCTD: | 04/02/1217:45 | 04/02/1217:45 | DATE COLLECTED: | 03/28/12 |
| DATIME ANALYZD: | 04/03/1212:29 | 04/03/1212:27 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | HGD003S | HGD003S | | |
| CALIB. REF: | M47D001068 | M47D001068 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .87 | .933 | 107 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 4.5 |
| DILUTION FACTOR: | 0.997 | 4.98 | | |
| SAMPLE ID: | SL-040-NBZ-SB-2.5-3 | SL-040-NBZ-SB-2.5-3 | | |
| EMAX SAMP ID: | C285-14 | C285-14J | | |
| LAB FILE ID: | M47D001071 | M47D001072 | | |
| DATE EXTRACTED: | 04/02/1217:45 | 04/02/1217:45 | DATE COLLECTED: | 03/28/12 |
| DATE ANALYZED: | 04/03/1212:29 | 04/03/1212:31 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | HGD003S | HGD003S | | |
| CALIB. REF: | M47D001068 | M47D001068 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C285
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD001SB | ND | 1 | NA | 1.00 | 0.500 | 04/03/1210:35 | 04/02/1214:13 | AD03-03 | AD03-01 | ICD001S | NA | 04/02/12 |
| LCS1S | ICD001SL | 5.81 | 1 | NA | 1.00 | 0.500 | 04/03/1210:51 | 04/02/1214:13 | AD03-04 | AD03-01 | ICD001S | NA | 04/02/12 |
| LCD1S | ICD001SC | 5.81 | 1 | NA | 1.00 | 0.500 | 04/03/1211:07 | 04/02/1214:13 | AD03-05 | AD03-01 | ICD001S | NA | 04/02/12 |
| SL-040-NBZ-SS-0.0-0.5 | C285-01 | ND | 1 | 11.1 | 1.12 | 0.562 | 04/03/1211:23 | 04/02/1214:13 | AD03-06 | AD03-01 | ICD001S | 03/28/1208:51 | 03/28/12 |
| SL-094-NBZ-SS-0.0-0.5 | C285-02 | ND | 1 | 13.2 | 1.15 | 0.576 | 04/03/1211:39 | 04/02/1214:13 | AD03-07 | AD03-01 | ICD001S | 03/28/1214:20 | 03/28/12 |
| SL-096-NBZ-SS-0.0-0.5 | C285-03 | ND | 1 | 13.7 | 1.16 | 0.579 | 04/03/1211:55 | 04/02/1214:13 | AD03-08 | AD03-01 | ICD001S | 03/28/1209:45 | 03/28/12 |
| SL-135-NBZ-SS-0.0-0.5 | C285-04 | ND | 1 | 12.8 | 1.15 | 0.573 | 04/03/1212:11 | 04/02/1214:13 | AD03-09 | AD03-01 | ICD001S | 03/28/1210:50 | 03/28/12 |
| SL-136-NBZ-SS-0.0-0.5 | C285-05 | ND | 1 | 9.7 | 1.11 | 0.554 | 04/03/1212:28 | 04/02/1214:13 | AD03-10 | AD03-01 | ICD001S | 03/28/1213:45 | 03/28/12 |
| SL-139-NBZ-SS-0.0-0.5 | C285-06 | 0.635J | 1 | 16.3 | 1.19 | 0.597 | 04/03/1212:44 | 04/02/1214:13 | AD03-11 | AD03-01 | ICD001S | 03/28/1215:15 | 03/28/12 |
| SL-141-NBZ-SS-0.0-0.5 | C285-07 | ND | 1 | 10.9 | 1.12 | 0.561 | 04/03/1213:00 | 04/02/1214:13 | AD03-12 | AD03-01 | ICD001S | 03/28/1209:15 | 03/28/12 |
| SL-143-NBZ-SS-0.0-0.5 | C285-08 | ND | 1 | 7.8 | 1.08 | 0.542 | 04/03/1213:48 | 04/02/1214:13 | AD03-15 | AD03-13 | ICD001S | 03/28/1214:50 | 03/28/12 |
| SL-036-NBZ-SB-4.0-5.0 | C285-10 | 6.18 | 1 | 11.8 | 1.13 | 0.567 | 04/03/1214:05 | 04/02/1214:13 | AD03-16 | AD03-13 | ICD001S | 03/28/1211:03 | 03/28/12 |
| SL-037-NBZ-SB-3.0-4.0 | C285-12 | 10.1 | 1 | 10.2 | 1.11 | 0.557 | 04/03/1214:21 | 04/02/1214:13 | AD03-17 | AD03-13 | ICD001S | 03/28/1215:12 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5 | C285-14 | 1.52 | 1 | 4.5 | 1.05 | 0.524 | 04/03/1214:37 | 04/02/1214:13 | AD03-18 | AD03-13 | ICD001S | 03/28/1210:00 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5MS | C285-14M | 7.73 | 1 | 4.5 | 1.05 | 0.524 | 04/03/1214:53 | 04/02/1214:13 | AD03-19 | AD03-13 | ICD001S | 03/28/1210:00 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5MSD | C285-14S | 7.71 | 1 | 4.5 | 1.05 | 0.524 | 04/03/1215:09 | 04/02/1214:13 | AD03-20 | AD03-13 | ICD001S | 03/28/1210:00 | 03/28/12 |
| SL-036-NBZ-SB-7.5-8.5 | C285-16 | 2.65 | 1 | 23.6 | 1.31 | 0.654 | 04/03/1215:25 | 04/02/1214:13 | AD03-21 | AD03-13 | ICD001S | 03/28/1212:30 | 03/28/12 |
| DUP-03-NBZ-QC-032812 | C285-17 | 1.32 | 1 | 5.9 | 1.06 | 0.531 | 04/03/1215:42 | 04/02/1214:13 | AD03-22 | AD03-13 | ICD001S | 03/28/1210:10 | 03/28/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD001SB | ICD001SL | ICD001SC | | |
| LAB FILE ID: | AD03-03 | AD03-04 | AD03-05 | | |
| DATE EXTRACTED: | 04/02/1214:13 | 04/02/1214:13 | 04/02/1214:13 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1210:35 | 04/03/1210:51 | 04/03/1211:07 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | ICD001S | ICD001S | ICD001S | | |
| CALIB. REF: | AD03-01 | AD03-01 | AD03-01 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 5.81 | 97 | 6.00 | 5.81 | 97 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: 300.0

MATRIX: SOIL % MOISTURE: 4.5

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-040-NBZ-SB-2.5-3.5 | | | | |
| LAB SAMP ID: | C285-14 | C285-14M | C285-14S | | |
| LAB FILE ID: | AD03-18 | AD03-19 | AD03-20 | | |
| DATE EXTRACTED: | 04/02/1214:13 | 04/02/1214:13 | 04/02/1214:13 | DATE COLLECTED: | 03/28/12 10:00 |
| DATE ANALYZED: | 04/03/1214:37 | 04/03/1214:53 | 04/03/1215:09 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | ICD001S | ICD001S | ICD001S | | |
| CALIB. REF: | AD03-13 | AD03-13 | AD03-13 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | 1.52 | 6.28 | 7.73 | 99 | 6.28 | 7.71 | 99 | 0 | 80-120 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C285
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD001SB | ND | 1 | NA | 1.50 | 0.750 | 04/03/1210:35 | 04/02/1214:13 | AD03-03 | AD03-01 | ICD001S | NA | 04/02/12 |
| LCS1S | ICD001SL | 25.4 | 1 | NA | 1.50 | 0.750 | 04/03/1210:51 | 04/02/1214:13 | AD03-04 | AD03-01 | ICD001S | NA | 04/02/12 |
| LCD1S | ICD001SC | 25.4 | 1 | NA | 1.50 | 0.750 | 04/03/1211:07 | 04/02/1214:13 | AD03-05 | AD03-01 | ICD001S | NA | 04/02/12 |
| SL-040-NBZ-SS-0.0-0.5 | C285-01 | 4.40 | 1 | 11.1 | 1.69 | 0.844 | 04/03/1211:23 | 04/02/1214:13 | AD03-06 | AD03-01 | ICD001S | 03/28/1208:51 | 03/28/12 |
| SL-036-NBZ-SB-4.0-5.0 | C285-10 | ND | 1 | 11.8 | 1.70 | 0.850 | 04/03/1214:05 | 04/02/1214:13 | AD03-16 | AD03-13 | ICD001S | 03/28/1211:03 | 03/28/12 |
| SL-037-NBZ-SB-3.0-4.0 | C285-12 | ND | 1 | 10.2 | 1.67 | 0.835 | 04/03/1214:21 | 04/02/1214:13 | AD03-17 | AD03-13 | ICD001S | 03/28/1215:12 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5 | C285-14 | 4.81 | 1 | 4.5 | 1.57 | 0.785 | 04/03/1214:37 | 04/02/1214:13 | AD03-18 | AD03-13 | ICD001S | 03/28/1210:00 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5MS | C285-14M | 32.0 | 1 | 4.5 | 1.57 | 0.785 | 04/03/1214:53 | 04/02/1214:13 | AD03-19 | AD03-13 | ICD001S | 03/28/1210:00 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5MSD | C285-14S | 32.0 | 1 | 4.5 | 1.57 | 0.785 | 04/03/1215:09 | 04/02/1214:13 | AD03-20 | AD03-13 | ICD001S | 03/28/1210:00 | 03/28/12 |
| SL-036-NBZ-SB-7.5-8.5 | C285-16 | ND | 1 | 23.6 | 1.96 | 0.982 | 04/03/1215:25 | 04/02/1214:13 | AD03-21 | AD03-13 | ICD001S | 03/28/1212:30 | 03/28/12 |
| DUP-03-NBZ-QC-032812 | C285-17 | 4.53 | 1 | 5.9 | 1.59 | 0.797 | 04/03/1215:42 | 04/02/1214:13 | AD03-22 | AD03-13 | ICD001S | 03/28/1210:10 | 03/28/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD001SB | ICD001SL | ICD001SC | | |
| LAB FILE ID: | AD03-03 | AD03-04 | AD03-05 | | |
| DATE EXTRACTED: | 04/02/1214:13 | 04/02/1214:13 | 04/02/1214:13 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1210:35 | 04/03/1210:51 | 04/03/1211:07 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | ICD001S | ICD001S | ICD001S | | |
| CALIB. REF: | AD03-01 | AD03-01 | AD03-01 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 25.4 | 96 | 26.6 | 25.4 | 95 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 4.5 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-040-NBZ-SB-2.5-3.5 | | | | |
| LAB SAMP ID: | C285-14 | C285-14M | C285-14S | | |
| LAB FILE ID: | AD03-18 | AD03-19 | AD03-20 | | |
| DATE EXTRACTED: | 04/02/1214:13 | 04/02/1214:13 | 04/02/1214:13 | DATE COLLECTED: | 03/28/12 10:00 |
| DATE ANALYZED: | 04/03/1214:37 | 04/03/1214:53 | 04/03/1215:09 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | ICD001S | ICD001S | ICD001S | | |
| CALIB. REF: | AD03-13 | AD03-13 | AD03-13 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | 4.81 | 27.9 | 32.0 | 98 | 27.9 | 32.0 | 98 | 0 | 80-120 | 20 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C285
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD003SB | ND | 1 | NA | 1.00 | 0.500 | 04/04/1222:27 | 04/03/1218:44 | ID05017 | ID05015 | HCD003S | NA | 04/03/12 |
| MBLK1S | HCD003SQ | ND | 1 | NA | 1.00 | 0.500 | 04/04/1222:38 | 04/03/1218:44 | ID05018 | ID05015 | HCD003S | NA | 04/03/12 |
| LCS1S | CSD003SL | 8.92 | 1 | NA | 1.00 | 0.500 | 04/04/1222:48 | 04/03/1218:44 | ID05019 | ID05015 | HCD003S | NA | 04/03/12 |
| LCS1S | CSD003SX | 9.16 | 1 | NA | 1.00 | 0.500 | 04/04/1222:59 | 04/03/1218:44 | ID05020 | ID05015 | HCD003S | NA | 04/03/12 |
| LCS2S | CID003SL | 345 | 20 | NA | 20.0 | 10.0 | 04/04/1223:09 | 04/03/1218:44 | ID05021 | ID05015 | HCD003S | NA | 04/03/12 |
| LCS2S | CID003SX | 323 | 20 | NA | 20.0 | 10.0 | 04/04/1223:19 | 04/03/1218:44 | ID05022 | ID05015 | HCD003S | NA | 04/03/12 |
| SL-040-NBZ-SS-0.0-0.5 | C285-01 | ND | 1 | 11.1 | 1.12 | 0.562 | 04/04/1223:30 | 04/03/1218:44 | ID05023 | ID05015 | HCD003S | 03/28/1208:51 | 03/28/12 |
| SL-040-NBZ-SS-0.0-0.5 | C285-01R | ND | 1 | 11.1 | 1.12 | 0.562 | 04/04/1223:40 | 04/03/1218:44 | ID05024 | ID05015 | HCD003S | 03/28/1208:51 | 03/28/12 |
| SL-094-NBZ-SS-0.0-0.5 | C285-02 | ND | 1 | 13.2 | 1.15 | 0.576 | 04/04/1223:51 | 04/03/1218:44 | ID05025 | ID05015 | HCD003S | 03/28/1214:20 | 03/28/12 |
| SL-094-NBZ-SS-0.0-0.5 | C285-02R | ND | 1 | 13.2 | 1.15 | 0.576 | 04/05/1200:01 | 04/03/1218:44 | ID05026 | ID05015 | HCD003S | 03/28/1214:20 | 03/28/12 |
| SL-096-NBZ-SS-0.0-0.5 | C285-03 | ND | 1 | 13.7 | 1.16 | 0.579 | 04/05/1200:43 | 04/03/1218:44 | ID05029 | ID05027 | HCD003S | 03/28/1209:45 | 03/28/12 |
| SL-096-NBZ-SS-0.0-0.5 | C285-03R | ND | 1 | 13.7 | 1.16 | 0.579 | 04/05/1200:53 | 04/03/1218:44 | ID05030 | ID05027 | HCD003S | 03/28/1209:45 | 03/28/12 |
| SL-135-NBZ-SS-0.0-0.5 | C285-04 | ND | 1 | 12.8 | 1.15 | 0.573 | 04/05/1201:03 | 04/03/1218:44 | ID05031 | ID05027 | HCD003S | 03/28/1210:50 | 03/28/12 |
| SL-135-NBZ-SS-0.0-0.5 | C285-04R | ND | 1 | 12.8 | 1.15 | 0.573 | 04/05/1201:14 | 04/03/1218:44 | ID05032 | ID05027 | HCD003S | 03/28/1210:50 | 03/28/12 |
| SL-136-NBZ-SS-0.0-0.5 | C285-05 | ND | 1 | 9.7 | 1.11 | 0.554 | 04/05/1201:24 | 04/03/1218:44 | ID05033 | ID05027 | HCD003S | 03/28/1213:45 | 03/28/12 |
| SL-136-NBZ-SS-0.0-0.5 | C285-05R | ND | 1 | 9.7 | 1.11 | 0.554 | 04/05/1201:35 | 04/03/1218:44 | ID05034 | ID05027 | HCD003S | 03/28/1213:45 | 03/28/12 |
| SL-139-NBZ-SS-0.0-0.5 | C285-06 | ND | 1 | 16.3 | 1.19 | 0.597 | 04/05/1201:45 | 04/03/1218:44 | ID05035 | ID05027 | HCD003S | 03/28/1215:15 | 03/28/12 |
| SL-139-NBZ-SS-0.0-0.5 | C285-06R | ND | 1 | 16.3 | 1.19 | 0.597 | 04/05/1201:55 | 04/03/1218:44 | ID05036 | ID05027 | HCD003S | 03/28/1215:15 | 03/28/12 |
| SL-141-NBZ-SS-0.0-0.5 | C285-07 | ND | 1 | 10.9 | 1.12 | 0.561 | 04/05/1202:06 | 04/03/1218:44 | ID05037 | ID05027 | HCD003S | 03/28/1209:15 | 03/28/12 |
| SL-141-NBZ-SS-0.0-0.5 | C285-07R | ND | 1 | 10.9 | 1.12 | 0.561 | 04/05/1202:16 | 04/03/1218:44 | ID05038 | ID05027 | HCD003S | 03/28/1209:15 | 03/28/12 |
| SL-143-NBZ-SS-0.0-0.5 | C285-08 | ND | 1 | 7.8 | 1.08 | 0.542 | 04/05/1202:58 | 04/03/1218:44 | ID05041 | ID05039 | HCD003S | 03/28/1214:50 | 03/28/12 |
| SL-143-NBZ-SS-0.0-0.5 | C285-08R | ND | 1 | 7.8 | 1.08 | 0.542 | 04/05/1203:08 | 04/03/1218:44 | ID05042 | ID05039 | HCD003S | 03/28/1214:50 | 03/28/12 |
| SL-036-NBZ-SB-4.0-5.0 | C285-10 | ND | 1 | 11.8 | 1.13 | 0.567 | 04/05/1203:19 | 04/03/1218:44 | ID05043 | ID05039 | HCD003S | 03/28/1211:03 | 03/28/12 |
| SL-036-NBZ-SB-4.0-5.0 | C285-10R | ND | 1 | 11.8 | 1.13 | 0.567 | 04/05/1203:29 | 04/03/1218:44 | ID05044 | ID05039 | HCD003S | 03/28/1211:03 | 03/28/12 |
| SL-037-NBZ-SB-3.0-4.0 | C285-12 | ND | 1 | 10.2 | 1.11 | 0.557 | 04/05/1203:39 | 04/03/1218:44 | ID05045 | ID05039 | HCD003S | 03/28/1215:12 | 03/28/12 |
| SL-037-NBZ-SB-3.0-4.0 | C285-12R | ND | 1 | 10.2 | 1.11 | 0.557 | 04/05/1203:50 | 04/03/1218:44 | ID05046 | ID05039 | HCD003S | 03/28/1215:12 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5 | C285-14 | ND | 1 | 4.5 | 1.05 | 0.524 | 04/05/1204:00 | 04/03/1218:44 | ID05047 | ID05039 | HCD003S | 03/28/1210:00 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5 | C285-14R | ND | 1 | 4.5 | 1.05 | 0.524 | 04/05/1204:11 | 04/03/1218:44 | ID05048 | ID05039 | HCD003S | 03/28/1210:00 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5MS | C285-14M | 8.98 | 1 | 4.5 | 1.05 | 0.524 | 04/05/1204:21 | 04/03/1218:44 | ID05049 | ID05039 | HCD003S | 03/28/1210:00 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5MS | C285-14M1 | 9.50 | 1 | 4.5 | 1.05 | 0.524 | 04/05/1204:31 | 04/03/1218:44 | ID05050 | ID05039 | HCD003S | 03/28/1210:00 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5MS | C285-14G | 302 | 20 | 4.5 | 20.9 | 10.5 | 04/05/1205:34 | 04/03/1218:44 | ID05055 | ID05051 | HCD003S | 03/28/1210:00 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5MS | C285-14G1 | 304 | 20 | 4.5 | 20.9 | 10.5 | 04/05/1205:44 | 04/03/1218:44 | ID05056 | ID05051 | HCD003S | 03/28/1210:00 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5MSD | C285-14H | 362 | 20 | 4.5 | 20.9 | 10.5 | 04/05/1205:55 | 04/03/1218:44 | ID05057 | ID05051 | HCD003S | 03/28/1210:00 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5MSD | C285-14H1 | 359 | 20 | 4.5 | 20.9 | 10.5 | 04/05/1206:05 | 04/03/1218:44 | ID05058 | ID05051 | HCD003S | 03/28/1210:00 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5MSD | C285-14S | 9.17 | 1 | 4.5 | 1.05 | 0.524 | 04/05/1212:38 | 04/03/1218:44 | ID05067 | ID05061 | HCD003S | 03/28/1210:00 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5MSD | C285-14S1 | 9.20 | 1 | 4.5 | 1.05 | 0.524 | 04/05/1212:48 | 04/03/1218:44 | ID05068 | ID05061 | HCD003S | 03/28/1210:00 | 03/28/12 |
| SL-036-NBZ-SB-7.5-8.5 | C285-16 | ND | 1 | 23.6 | 1.31 | 0.654 | 04/05/1211:56 | 04/03/1218:44 | ID05063 | ID05061 | HCD003S | 03/28/1212:30 | 03/28/12 |
| SL-036-NBZ-SB-7.5-8.5 | C285-16R | ND | 1 | 23.6 | 1.31 | 0.654 | 04/05/1212:06 | 04/03/1218:44 | ID05064 | ID05061 | HCD003S | 03/28/1212:30 | 03/28/12 |
| DUP-03-NBZ-QC-032812 | C285-17 | ND | 1 | 5.9 | 1.06 | 0.531 | 04/05/1212:17 | 04/03/1218:44 | ID05065 | ID05061 | HCD003S | 03/28/1210:10 | 03/28/12 |
| DUP-03-NBZ-QC-032812 | C285-17R | ND | 1 | 5.9 | 1.06 | 0.531 | 04/05/1212:27 | 04/03/1218:44 | ID05066 | ID05061 | HCD003S | 03/28/1210:10 | 03/28/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD003SQ CID003SX
LAB FILE ID: ID05018 ID05022
DATE EXTRACTED: 04/03/1218:44 04/03/1218:44 DATE COLLECTED: NA
DATE ANALYZED: 04/04/1222:38 04/04/1223:19 DATE RECEIVED: 04/03/12
PREP. BATCH: HCD003S HCD003S
CALIB. REF: ID05015 ID05015

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 364 | 323 | 89 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD003SB CID003SL
LAB FILE ID: ID05017 ID05021
DATE EXTRACTED: 04/03/1218:44 04/03/1218:44 DATE COLLECTED: NA
DATE ANALYZED: 04/04/1222:27 04/04/1223:09 DATE RECEIVED: 04/03/12
PREP. BATCH: HCD003S HCD003S
CALIB. REF: ID05015 ID05015

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 364 | 345 | 95 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD003SQ | CSD003SX | | |
| LAB FILE ID: | ID05018 | ID05020 | | |
| DATE EXTRACTED: | 04/03/1218:44 | 04/03/1218:44 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/04/1222:38 | 04/04/1222:59 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | HCD003S | HCD003S | | |
| CALIB. REF: | ID05015 | ID05015 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 9.16 | 92 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD003SB | CSD003SL | | |
| LAB FILE ID: | ID05017 | ID05019 | | |
| DATE EXTRACTED: | 04/03/1218:44 | 04/03/1218:44 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/04/1222:27 | 04/04/1222:48 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | HCD003S | HCD003S | | |
| CALIB. REF: | ID05015 | ID05015 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 8.92 | 89 | 80-120 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: 7199

MATRIX: SOIL % MOISTURE: 4.5

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 20 | 20 | | |
| SAMPLE ID: | SL-040-NBZ-SB-2.5-3.5 | | | | |
| LAB SAMP ID: | C285-14 | C285-14G | C285-14H | | |
| LAB FILE ID: | ID05047 | ID05055 | ID05057 | | |
| DATE EXTRACTED: | 04/03/1218:44 | 04/03/1218:44 | 04/03/1218:44 | DATE COLLECTED: | 03/28/12 10:00 |
| DATE ANALYZED: | 04/05/1204:00 | 04/05/1205:34 | 04/05/1205:55 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | HCD003S | HCD003S | HCD003S | | |
| CALIB. REF: | ID05039 | ID05051 | ID05051 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 352 | 302 | 86 | 410 | 362 | 88 | 18 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: 7199

MATRIX: SOIL % MOISTURE: 4.5

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-040-NBZ-SB-2.5-3.5 | | | | |
| LAB SAMP ID: | C285-14R | C285-14M1 | C285-14S1 | | |
| LAB FILE ID: | ID05048 | ID05050 | ID05068 | | |
| DATE EXTRACTED: | 04/03/1218:44 | 04/03/1218:44 | 04/03/1218:44 | DATE COLLECTED: | 03/28/12 10:00 |
| DATE ANALYZED: | 04/05/1204:11 | 04/05/1204:31 | 04/05/1212:48 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | HCD003S | HCD003S | HCD003S | | |
| CALIB. REF: | ID05039 | ID05039 | ID05061 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.5 | 9.50 | 91 | 10.5 | 9.20 | 88 | 3 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: 7199

MATRIX: SOIL % MOISTURE: 4.5
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-040-NBZ-SB-2.5-3.5
LAB SAMP ID: C285-14 C285-14M C285-14S
LAB FILE ID: ID05047 ID05049 ID05067
DATE EXTRACTED: 04/03/1218:44 04/03/1218:44 04/03/1218:44 DATE COLLECTED: 03/28/12 10:00
DATE ANALYZED: 04/05/1204:00 04/05/1204:21 04/05/1212:38 DATE RECEIVED: 03/28/12
PREP. BATCH: HCD003S HCD003S HCD003S
CALIB. REF: ID05039 ID05039 ID05061

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.5 | 8.98 | 86 | 10.5 | 9.17 | 88 | 2 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: 7199

MATRIX: SOIL % MOISTURE: 4.5

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 20 | 20 | | |
| SAMPLE ID: | SL-040-NBZ-SB-2.5-3.5 | | | | |
| LAB SAMP ID: | C285-14R | C285-14G1 | C285-14H1 | | |
| LAB FILE ID: | ID05048 | ID05056 | ID05058 | | |
| DATE EXTRACTED: | 04/03/1218:44 | 04/03/1218:44 | 04/03/1218:44 | DATE COLLECTED: | 03/28/12 10:00 |
| DATE ANALYZED: | 04/05/1204:11 | 04/05/1205:44 | 04/05/1206:05 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | HCD003S | HCD003S | HCD003S | | |
| CALIB. REF: | ID05039 | ID05051 | ID05051 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 352 | 304 | 86 | 410 | 359 | 88 | 17 | 75-125 | 20 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C285

Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CND001SB | ND | 1 | NA | 0.500 | 0.250 | 04/03/1218:04 | 04/03/1211:00 | CND00110 | CND00108 | CND001S | NA | 04/03/12 |
| LCS1S | CND001SL | 2.49 | 1 | NA | 0.500 | 0.250 | 04/03/1218:04 | 04/03/1211:00 | CND00111 | CND00108 | CND001S | NA | 04/03/12 |
| LCD1S | CND001SC | 2.39 | 1 | NA | 0.500 | 0.250 | 04/03/1218:04 | 04/03/1211:00 | CND00112 | CND00108 | CND001S | NA | 04/03/12 |
| SL-040-NBZ-SS-0.0-0.5 | C285-01 | ND | 1 | 11.1 | 0.562 | 0.281 | 04/03/1218:05 | 04/03/1211:00 | CND00113 | CND00108 | CND001S | 03/28/1208:51 | 03/28/12 |
| SL-036-NBZ-SB-4.0-5.0 | C285-10 | ND | 1 | 11.8 | 0.567 | 0.283 | 04/03/1218:05 | 04/03/1211:00 | CND00114 | CND00108 | CND001S | 03/28/1211:03 | 03/28/12 |
| SL-037-NBZ-SB-3.0-4.0 | C285-12 | ND | 1 | 10.2 | 0.557 | 0.278 | 04/03/1218:06 | 04/03/1211:00 | CND00115 | CND00108 | CND001S | 03/28/1215:12 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5 | C285-14 | ND | 1 | 4.5 | 0.524 | 0.262 | 04/03/1218:07 | 04/03/1211:00 | CND00116 | CND00108 | CND001S | 03/28/1210:00 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5MS | C285-14M | 2.56 | 1 | 4.5 | 0.524 | 0.262 | 04/03/1218:07 | 04/03/1211:00 | CND00117 | CND00108 | CND001S | 03/28/1210:00 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5MSD | C285-14S | 2.64 | 1 | 4.5 | 0.524 | 0.262 | 04/03/1218:08 | 04/03/1211:00 | CND00118 | CND00108 | CND001S | 03/28/1210:00 | 03/28/12 |
| SL-036-NBZ-SB-7.5-8.5 | C285-16 | ND | 1 | 23.6 | 0.654 | 0.327 | 04/03/1218:08 | 04/03/1211:00 | CND00119 | CND00108 | CND001S | 03/28/1212:30 | 03/28/12 |
| DUP-03-NBZ-QC-032812 | C285-17 | ND | 1 | 5.9 | 0.531 | 0.266 | 04/03/1218:09 | 04/03/1211:00 | CND00122 | CND00120 | CND001S | 03/28/1210:10 | 03/28/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C285
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CND001SL/C

DATE RECEIVED: 04/03/12
DATE EXTRACTED: 04/03/1211:00
DATE ANALYZED: 04/03/1218:04/18:04

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.49 | 100 | 2.50 | 2.39 | 95 | 4 | 85-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: 4.5

BATCH NO.: 12C285
SAMPLE ID: SL-040-NBZ-SB-2.5-3.5MS/MSD
CONTROL NO.: C285-14M/S

DATE RECEIVED: 03/28/12
DATE EXTRACTED: 04/03/1211:00
DATE ANALYZED: 04/03/1218:07/18:08

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.58 | 2.56 | 99 | 2.58 | 2.64 | 102 | 3 | 75-125 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C285
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD005SB | ND | 1 | NA | 20.0 | 10.0 | 04/05/1217:02 | 04/02/1216:00 | JD06002 | JD06001 | PCD005S | NA | 04/02/12 |
| LCS1S | PCD005SL | 269 | 1 | NA | 20.0 | 10.0 | 04/05/1217:50 | 04/02/1216:00 | JD06004 | JD06001 | PCD005S | NA | 04/02/12 |
| LCD1S | PCD005SC | 272 | 1 | NA | 20.0 | 10.0 | 04/05/1218:11 | 04/02/1216:00 | JD06005 | JD06001 | PCD005S | NA | 04/02/12 |
| SL-040-NBZ-SS-0.0-0.5 | C285-01 | ND | 1 | 11.1 | 22.5 | 11.2 | 04/05/1218:32 | 04/02/1216:00 | JD06006 | JD06001 | PCD005S | 03/28/1208:51 | 03/28/12 |
| SL-094-NBZ-SS-0.0-0.5 | C285-02 | ND | 1 | 13.2 | 23.0 | 11.5 | 04/05/1218:53 | 04/02/1216:00 | JD06007 | JD06001 | PCD005S | 03/28/1214:20 | 03/28/12 |
| SL-096-NBZ-SS-0.0-0.5 | C285-03 | ND | 1 | 13.7 | 23.2 | 11.6 | 04/05/1219:14 | 04/02/1216:00 | JD06008 | JD06001 | PCD005S | 03/28/1209:45 | 03/28/12 |
| SL-135-NBZ-SS-0.0-0.5 | C285-04 | ND | 1 | 12.8 | 22.9 | 11.5 | 04/05/1219:35 | 04/02/1216:00 | JD06009 | JD06001 | PCD005S | 03/28/1210:50 | 03/28/12 |
| SL-136-NBZ-SS-0.0-0.5 | C285-05 | ND | 1 | 9.7 | 22.1 | 11.1 | 04/05/1219:56 | 04/02/1216:00 | JD06010 | JD06001 | PCD005S | 03/28/1213:45 | 03/28/12 |
| SL-141-NBZ-SS-0.0-0.5 | C285-07 | ND | 1 | 10.9 | 22.4 | 11.2 | 04/05/1221:20 | 04/02/1216:00 | JD06014 | JD06012 | PCD005S | 03/28/1209:15 | 03/28/12 |
| SL-143-NBZ-SS-0.0-0.5 | C285-08 | ND | 1 | 7.8 | 21.7 | 10.8 | 04/05/1221:41 | 04/02/1216:00 | JD06015 | JD06012 | PCD005S | 03/28/1214:50 | 03/28/12 |
| SL-036-NBZ-SB-4.0-5.0 | C285-10 | ND | 1 | 11.8 | 22.7 | 11.3 | 04/05/1222:03 | 04/02/1216:00 | JD06016 | JD06012 | PCD005S | 03/28/1211:03 | 03/28/12 |
| SL-037-NBZ-SB-3.0-4.0 | C285-12 | ND | 1 | 10.2 | 22.3 | 11.1 | 04/05/1222:24 | 04/02/1216:00 | JD06017 | JD06012 | PCD005S | 03/28/1215:12 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5 | C285-14 | ND | 1 | 4.5 | 20.9 | 10.5 | 04/05/1222:45 | 04/02/1216:00 | JD06018 | JD06012 | PCD005S | 03/28/1210:00 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5MS | C285-14M | 269 | 1 | 4.5 | 20.9 | 10.5 | 04/05/1223:06 | 04/02/1216:00 | JD06019 | JD06012 | PCD005S | 03/28/1210:00 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5MSD | C285-14S | 266 | 1 | 4.5 | 20.9 | 10.5 | 04/05/1223:27 | 04/02/1216:00 | JD06020 | JD06012 | PCD005S | 03/28/1210:00 | 03/28/12 |
| SL-036-NBZ-SB-7.5-8.5 | C285-16 | ND | 1 | 23.6 | 26.2 | 13.1 | 04/06/1200:30 | 04/02/1216:00 | JD06023 | JD06022 | PCD005S | 03/28/1212:30 | 03/28/12 |
| DUP-03-NBZ-QC-032812 | C285-17 | ND | 1 | 5.9 | 21.3 | 10.6 | 04/06/1200:51 | 04/02/1216:00 | JD06024 | JD06022 | PCD005S | 03/28/1210:10 | 03/28/12 |
| SL-139-NBZ-SS-0.0-0.5 | C285-06 | ND | 2 | 16.3 | 47.8 | 23.9 | 04/06/1212:38 | 04/02/1216:00 | JD06055 | JD06054 | PCD005S | 03/28/1215:15 | 03/28/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD005SB | PCD005SL | PCD005SC | | |
| LAB FILE ID: | JD06002 | JD06004 | JD06005 | | |
| DATE EXTRACTED: | 04/02/1216:00 | 04/02/1216:00 | 04/02/1216:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/05/1217:02 | 04/05/1217:50 | 04/05/1218:11 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | PCD005S | PCD005S | PCD005S | | |
| CALIB. REF: | JD06001 | JD06001 | JD06001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 269 | 108 | 250 | 272 | 109 | 1 | 85-115 | 15 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C285
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 4.5 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-040-NBZ-SB-2.5-3.5 | | | | |
| LAB SAMP ID: | C285-14 | C285-14M | C285-14S | | |
| LAB FILE ID: | JD06018 | JD06019 | JD06020 | | |
| DATE EXTRACTED: | 04/02/1216:00 | 04/02/1216:00 | 04/02/1216:00 | DATE COLLECTED: | 03/28/12 10:00 |
| DATE ANALYZED: | 04/05/1222:45 | 04/05/1223:06 | 04/05/1223:27 | DATE RECEIVED: | 03/28/12 |
| PREP. BATCH: | PCD005S | PCD005S | PCD005S | | |
| CALIB. REF: | JD06012 | JD06012 | JD06012 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 262 | 269 | 103 | 262 | 266 | 102 | 1 | 80-120 | 20 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C285
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-040-NBZ-SS-0.0-0.5 | C285-01 | 7.72 | 1 | NA | NA | NA | 03/29/1217:36 | 03/29/1217:36 | 12PHD02601 | 12PHD02612S | 12PHD02612 | 03/28/1208:51 | 03/28/12 |
| SL-094-NBZ-SS-0.0-0.5 | C285-02 | 6.49 | 1 | NA | NA | NA | 03/29/1217:39 | 03/29/1217:36 | 12PHD02602 | 12PHD02612S | 12PHD02612 | 03/28/1214:20 | 03/28/12 |
| SL-096-NBZ-SS-0.0-0.5 | C285-03 | 6.66 | 1 | NA | NA | NA | 03/29/1217:41 | 03/29/1217:36 | 12PHD02603 | 12PHD02612S | 12PHD02612 | 03/28/1209:45 | 03/28/12 |
| SL-135-NBZ-SS-0.0-0.5 | C285-04 | 6.56 | 1 | NA | NA | NA | 03/29/1217:42 | 03/29/1217:36 | 12PHD02604 | 12PHD02612S | 12PHD02612 | 03/28/1210:50 | 03/28/12 |
| SL-136-NBZ-SS-0.0-0.5 | C285-05 | 6.28 | 1 | NA | NA | NA | 03/29/1217:44 | 03/29/1217:36 | 12PHD02605 | 12PHD02612S | 12PHD02612 | 03/28/1213:45 | 03/28/12 |
| SL-139-NBZ-SS-0.0-0.5 | C285-06 | 6.75 | 1 | NA | NA | NA | 03/29/1217:46 | 03/29/1217:36 | 12PHD02606 | 12PHD02612S | 12PHD02612 | 03/28/1215:15 | 03/28/12 |
| SL-141-NBZ-SS-0.0-0.5 | C285-07 | 6.27 | 1 | NA | NA | NA | 03/29/1217:47 | 03/29/1217:36 | 12PHD02607 | 12PHD02612S | 12PHD02612 | 03/28/1209:15 | 03/28/12 |
| SL-143-NBZ-SS-0.0-0.5 | C285-08 | 6.35 | 1 | NA | NA | NA | 03/29/1217:48 | 03/29/1217:36 | 12PHD02608 | 12PHD02612S | 12PHD02612 | 03/28/1214:50 | 03/28/12 |
| SL-036-NBZ-SB-4.0-5.0 | C285-10 | 7.91 | 1 | NA | NA | NA | 03/29/1217:50 | 03/29/1217:36 | 12PHD02609 | 12PHD02612S | 12PHD02612 | 03/28/1211:03 | 03/28/12 |
| SL-037-NBZ-SB-3.0-4.0 | C285-12 | 6.24 | 1 | NA | NA | NA | 03/29/1218:03 | 03/29/1217:36 | 12PHD02610 | 12PHD02612S | 12PHD02612 | 03/28/1215:12 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5 | C285-14 | 7.64 | 1 | NA | NA | NA | 03/29/1218:06 | 03/29/1217:36 | 12PHD02611 | 12PHD02612S | 12PHD02612 | 03/28/1210:00 | 03/28/12 |
| SL-040-NBZ-SB-2.5-3.5DUP | C285-14D | 7.66 | 1 | NA | NA | NA | 03/29/1218:07 | 03/29/1217:36 | 12PHD02612 | 12PHD02612S | 12PHD02612 | 03/28/1210:00 | 03/28/12 |
| SL-036-NBZ-SB-7.5-8.5 | C285-16 | 7.35 | 1 | NA | NA | NA | 03/29/1218:10 | 03/29/1217:36 | 12PHD02613 | 12PHD02612S | 12PHD02612 | 03/28/1212:30 | 03/28/12 |
| DUP-03-NBZ-QC-032812 | C285-17 | 8.15 | 1 | NA | NA | NA | 03/29/1218:12 | 03/29/1217:36 | 12PHD02614 | 12PHD02612S | 12PHD02612 | 03/28/1210:10 | 03/28/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C285 DATE RECEIVED: 03/28/12
SAMPLE ID: SL-040-NBZ-SB-2.5-3.5DUP DATE EXTRACTED: 03/29/12 17:36
CONTROL NO.: C285-14D DATE ANALYZED: 03/29/12 18:07

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | QC LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 7.64 | 7.66 | 0.02 | 0.1 |

# SAMPLE DELIVERY GROUP

# 12C305

**NBZ – Data Package Amendment**
**SDG 12C273, SDG 12C305, SDG DX163, SDG DX166**
**6-17-13**

During the database check, an inconsistency in sample identification was discovered that needed to be corrected. They are listed below:

- Sample SL-130-NBZ-SS-0.0-0.5 had duplicate results.
- One set of results belongs to SL-131-NBZ-SS-0.0-0.5.
- All data packages were reviewed by field personnel and the validator to determine which sample results went with which sample.
- The appropriate method results were moved to sample SL-131-NBZ-SS-0.0-05.

All changes have been documented and verified by the field personnel and data group.

Pam Hartman
Catherine Love
Cherie Zakowski

SL-130

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/10/12 17:03 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/13/12 09:30 |
| Lab Samp ID: C273-12R | Dilution Factor: 1 |
| Lab File ID: RDH192 | Matrix : SOIL |
| Ext Btch ID: SVD020S | % Moisture : 16.1 |
| Calib. Ref.: RCH007 | Instrument ID : T-0E7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 400 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 400 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 400 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 400 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 400 | 200 |
| BENZIDINE | ND | 990 | 500 |
| BENZOIC ACID | ND | 790 | 400 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1070 | 1192 | 89.8 | 35-130 |
| 2-FLUOROBIPHENYL | 283 | 397.3 | 71.3 | 45-130 |
| 2-FLUOROPHENOL | 860 | 1192 | 72.2 | 25-130 |
| NITROBENZENE-D5 | 271 | 397.3 | 68.3 | 40-130 |
| PHENOL-D5 | 978 | 1192 | 82.1 | 25-120 |
| TERPHENYL-D14 | 368 | 397.3 | 92.8 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

SL-130

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/10/12 17:03 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/13/12 09:30 |
| Lab Samp ID: C273-12R | Dilution Factor: 1 |
| Lab File ID: RDH192 | Matrix : SOIL |
| Ext Btch ID: SVD020S | % Moisture : 16.1 |
| Calib. Ref.: RCH007 | Instrument ID : T-QE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 1.0 |
| ACENAPHTHYLENE | ND | 2.0 | 1.0 |
| ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)PYRENE | 1.3J | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | 2.1 | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | 2.1 | 2.0 | 1.0 |
| CHRYSENE | ND | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 1.0 |
| FLUORANTHENE | 2.2 | 2.0 | 1.0 |
| FLUORENE | ND | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 1.0 |
| NAPHTHALENE | ND | 2.0 | 1.0 |
| PHENANTHRENE | 1.1J | 2.0 | 1.0 |
| PYRENE | 2.4 | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 30 | 20 | 10 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 297 | 397.3 | 74.8 | 40-130 |
| 2-FLUOROBIPHENYL | 306 | 397.3 | 77.1 | 45-130 |
| TERPHENYL-D14 | 346 | 397.3 | 87.0 | 45-135 |

SL-130

METHOD 3550B/8081A
PESTICIDES

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 03/27/12 |
| Batch No. | : 12C273 | Date Extracted: | 04/05/12 14:56 |
| Sample ID: | SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: | 04/11/12 15:32 |
| Lab Samp ID: | C273-12 | Dilution Factor: | 1 |
| Lab File ID: | LD11018A | Matrix : | SOIL |
| Ext Btch ID: | CPD010S | % Moisture : | 16.1 |
| Calib. Ref.: | LD11005A | Instrument ID : | GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.30 | 0.20 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.18J | 0.20 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| 0.50 | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR | 0.98 \| (ND) | 0.20 | 0.10 \| 0.10 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| ALDRIN | 0.31 \| (ND) | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| 4,4'-DDE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| DIELDRIN | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDRIN | 0.78 \| (ND) | 0.41 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDOSULFAN II | 3.4 \| (ND) | 0.41 | 0.20 \| 0.20 |
| 4,4'-DDT | 0.43 \| (0.32J) | 0.41 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| 6.8 | 0.41 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| ND | 2.0 | 1.0 \| 1.0 |
| MIREX | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.9 | 3.9 \| 3.9 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.1 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.482 \| (5.973) | 6.356 | 70.5 \| (94.0) | 50-130 |
| DECACHLOROBIPHENYL | (4.747) \| 4.480 | 6.356 | (74.7) \| 70.5 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SL-130

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 03/27/12 |
| Batch No. | : 12C273 | Date Extracted: | 04/06/12 16:33 |
| Sample ID: | SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: | 04/18/12 10:03 |
| Lab Samp ID: | C273-12 | Dilution Factor: | 1 |
| Lab File ID: | KD17029A | Matrix : | SOIL |
| Ext Btch ID: | CPD013S | % Moisture : | 16.1 |
| Calib. Ref.: | KD17017A | Instrument ID : | GCT071 |

| PARAMETERS | RESULTS (ug/kg) | | RL (ug/kg) | MDL (ug/kg) | |
|---|---|---|---|---|---|
| AROCLOR 1016 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1221 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1232 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1242 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1248 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1254 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1260 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1262 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 1268 | (ND) | ND | 2.0 | 1.0 | 1.0 |
| AROCLOR 5432 | (ND) | ND | 3.9 | 2.0 | 2.0 |
| AROCLOR 5442 | (ND) | ND | 3.9 | 2.0 | 2.0 |
| AROCLOR 5460 | (ND) | ND | 3.9 | 2.0 | 2.0 |

| SURROGATE PARAMETERS | RESULTS | | SPK_AMT | % RECOVERY | | QC LIMIT |
|---|---|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.378) | 5.194 | 6.356 | (116) | 81.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (8.131) | 5.788 | 6.356 | (128) | 91.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

SL-130

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/27/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/27/12 |
| Batch No. : 12C273 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 22:07 |
| Lab Samp ID: C273-12 | Dilution Factor: 1 |
| Lab File ID: WD09033A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 16.1 |
| Calib. Ref.: WD09020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 4.3 | 2.1 \| 2.1 |
| 2,4-DB | (ND) \| ND | 2.0 | 1.0 \| 1.0 |
| 2,4,5-T | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| 2,4,5-TP(SILVEX) | 0.84 \| (ND) | 0.20 | 0.10 \| 0.10 |
| DALAPON | (ND) \| ND | 11 | 5.4 \| 5.4 |
| DICAMBA | (ND) \| ND | 1.4 | 0.72 \| 0.72 |
| DICHLOROPROP | (ND) \| ND | 2.9 | 1.4 \| 1.4 |
| DINOSEB | (ND) \| ND | 2.0 | 1.0 \| 1.0 |
| MCPA | 1200 \| (ND) | 300 | 150 \| 150 |
| MCPP | (ND) \| 230J | 300 | 150 \| 150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (83.86) \| 70.20 | 178.8 | (46.9) \| 39.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

SL-130

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 03/27/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 03/27/12 |
| SDG NO. | : 12C273 | Date Extracted: | 04/05/12 11:54 |
| Sample ID: | SL-130-N8Z-SS-0.0-0.5 | Date Analyzed: | 04/11/12 00:14 |
| Lab Samp ID: | C273-12 | Dilution Factor: | 1.00 |
| Lab File ID: | 98D05060 | Matrix : | SOIL |
| Ext Btch ID: | IMD009S | % Moisture : | 16.1 |
| Calib. Ref.: | 98D05053 | Instrument ID : | T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11300 | 28.6 | 14.3 |
| Antimony | 0.138J | 0.238 | 0.119 |
| Arsenic | 3.31 | 0.477 | 0.238 |
| Barium | 71.8 | 0.477 | 0.238 |
| Beryllium | 0.344 | 0.119 | 0.0596 |
| Boron | ND | 5.96 | 2.98 |
| Cadmium | 0.201 | 0.119 | 0.0596 |
| Calcium | 2770 | 23.8 | 11.9 |
| Chromium | 17.5 | 0.477 | 0.238 |
| Cobalt | 5.17 | 0.119 | 0.0596 |
| Copper | 6.90 | 0.477 | 0.238 |
| Iron | 19700 | 23.8 | 11.9 |
| Lead | 8.48 | 0.238 | 0.119 |
| Magnesium | 6810 | 11.9 | 5.96 |
| Manganese | 274 | 0.596 | 0.298 |
| Molybdenum | 0.267 | 0.119 | 0.0596 |
| Nickel | 10.7 | 0.477 | 0.238 |
| Potassium | 2990 | 71.5 | 35.8 |
| Selenium | ND | 0.477 | 0.238 |
| Silver | ND | 0.119 | 0.0596 |
| Sodium | ND | 119 | 59.6 |
| Strontium | 9.36 | 0.596 | 0.298 |
| Thallium | 0.214 | 0.119 | 0.0596 |
| Tin | ND | 11.9 | 5.96 |
| Titanium | 1020 | 1.19 | 0.596 |
| Vanadium | 35.3 | 0.119 | 0.0596 |
| Zinc | 54.9 | 3.58 | 1.79 |
| Lithium | 26.7 | 2.38 | 1.19 |
| Phosphorus | 429 | 14.3 | 7.15 |
| Zirconium | ND | 5.96 | 2.98 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD001SB | ND | 1 | NA | 0.100 | 0.0500 | 04/03/1210:18 | 04/02/1217:30 | M47D001010 | M47D001008 | HGD001S | NA | 04/02/12 |
| LCS1S | HGD001SL | 0.863 | 1 | NA | 0.100 | 0.0500 | 04/03/1210:20 | 04/02/1217:30 | M47D001011 | M47D001008 | HGD001S | NA | 04/02/12 |
| LCD1S | HGD001SC | 0.858 | 1 | NA | 0.100 | 0.0500 | 04/03/1210:23 | 04/02/1217:30 | M47D001012 | M47D001008 | HGD001S | NA | 04/02/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | ND | 0.997 | 12.3 | 0.114 | 0.0568 | 04/03/1211:00 | 04/02/1217:30 | M47D001030 | M47D001020 | HGD001S | 03/27/12 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | ND | 1.00 | 17.1 | 0.121 | 0.0603 | 04/03/1211:03 | 04/02/1217:30 | M47D001031 | M47D001020 | HGD001S | 03/27/12 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | ND | 1.00 | 11.5 | 0.113 | 0.0565 | 04/03/1211:09 | 04/02/1217:30 | M47D001034 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | ND | 0.993 | 11.9 | 0.113 | 0.0564 | 04/03/1211:11 | 04/02/1217:30 | M47D001035 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | ND | 1.01 | 13.8 | 0.117 | 0.0586 | 04/03/1211:13 | 04/02/1217:30 | M47D001036 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09 | ND | 0.987 | 12.8 | 0.113 | 0.0566 | 04/03/1211:15 | 04/02/1217:30 | M47D001037 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | ND | 0.997 | 11.1 | 0.112 | 0.0561 | 04/03/1211:17 | 04/02/1217:30 | M47D001038 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | ND | 1.01 | 20.0 | 0.126 | 0.0631 | 04/03/1211:20 | 04/02/1217:30 | M47D001039 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | ND | 0.992 | 16.1 | 0.118 | 0.0591 | 04/03/1211:22 | 04/02/1217:30 | M47D001040 | M47D001032 | HGD001S | 03/27/12 | 03/27/12 |

2105

SL-130

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCS1S | ICC009SL | 5.89 | 1 | NA | 1.00 | 0.500 | 03/31/1200:14 | 03/29/1217:10 | AC39-142 | AC39-138 | ICC009S | NA | 03/29/12 |
| LCD1S | ICC009SC | 5.86 | 1 | NA | 1.00 | 0.500 | 03/31/1200:30 | 03/29/1217:10 | AC39-143 | AC39-138 | ICC009S | NA | 03/29/12 |
| MBLK1S | ICC009SB | ND | 1 | NA | 1.00 | 0.500 | 03/31/1200:46 | 03/29/1217:10 | AC39-144 | AC39-138 | ICC009S | NA | 03/29/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | 1.40 | 1 | 12.3 | 1.14 | 0.570 | 03/31/1201:35 | 03/29/1217:10 | AC39-147 | AC39-145 | ICC009S | 03/27/1214:35 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | 0.860J | 1 | 17.1 | 1.21 | 0.603 | 03/31/1201:51 | 03/29/1217:10 | AC39-148 | AC39-145 | ICC009S | 03/27/1211:10 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | ND | 1 | 11.5 | 1.13 | 0.565 | 03/31/1202:07 | 03/29/1217:10 | AC39-149 | AC39-145 | ICC009S | 03/27/1209:40 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | ND | 1 | 11.9 | 1.14 | 0.568 | 03/31/1202:23 | 03/29/1217:10 | AC39-150 | AC39-145 | ICC009S | 03/27/1210:17 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | ND | 1 | 13.8 | 1.16 | 0.580 | 03/31/1202:39 | 03/29/1217:10 | AC39-151 | AC39-145 | ICC009S | 03/27/1213:55 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09 | 1.61 | 1 | 12.8 | 1.15 | 0.573 | 03/31/1202:55 | 03/29/1217:10 | AC39-152 | AC39-145 | ICC009S | 03/27/1214:55 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | ND | 1 | 11.1 | 1.12 | 0.562 | 03/31/1203:12 | 03/29/1217:10 | AC39-153 | AC39-145 | ICC009S | 03/27/1210:50 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | ND | 1 | 20.0 | 1.25 | 0.625 | 03/31/1203:28 | 03/29/1217:10 | AC39-154 | AC39-145 | ICC009S | 03/27/1214:35 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | ND | 1 | 16.1 | 1.19 | 0.596 | 03/31/1203:44 | 03/29/1217:10 | AC39-155 | AC39-145 | ICC009S | 03/27/1210:20 | 03/27/12 |

Page 2 of 2

SL-130

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD004SB | ND | 1 | NA | 20.0 | 10.0 | 04/05/1204:49 | 04/02/1215:30 | JD05029 | JD05028 | PCD004S | NA | 04/02/12 |
| LCS1S | PCD004SL | 272 | 1 | NA | 20.0 | 10.0 | 04/05/1205:31 | 04/02/1215:30 | JD05031 | JD05028 | PCD004S | NA | 04/02/12 |
| LCD1S | PCD004SC | 271 | 1 | NA | 20.0 | 10.0 | 04/05/1205:52 | 04/02/1215:30 | JD05032 | JD05028 | PCD004S | NA | 04/02/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | ND | 1 | 12.3 | 22.8 | 11.4 | 04/05/1206:13 | 04/02/1215:30 | JD05033 | JD05028 | PCD004S | 03/27/1214:35 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | ND | 1 | 17.1 | 24.1 | 12.1 | 04/05/1206:34 | 04/02/1215:30 | JD05034 | JD05028 | PCD004S | 03/27/1211:10 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | ND | 1 | 11.5 | 22.6 | 11.3 | 04/05/1206:55 | 04/02/1215:30 | JD05035 | JD05028 | PCD004S | 03/27/1209:40 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | ND | 1 | 11.9 | 22.7 | 11.4 | 04/05/1207:16 | 04/02/1215:30 | JD05036 | JD05028 | PCD004S | 03/27/1210:17 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | ND | 1 | 13.8 | 23.2 | 11.6 | 04/05/1207:37 | 04/02/1215:30 | JD05037 | JD05028 | PCD004S | 03/27/1213:55 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | ND | 1 | 11.1 | 22.5 | 11.2 | 04/05/1209:01 | 04/02/1215:30 | JD05041 | JD05039 | PCD004S | 03/27/1210:50 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | ND | 1 | 20.0 | 25.0 | 12.5 | 04/05/1209:22 | 04/02/1215:30 | JD05042 | JD05039 | PCD004S | 03/27/1214:35 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | ND | 1 | 16.1 | 23.8 | 11.9 | 04/05/1209:43 | 04/02/1215:30 | JD05043 | JD05039 | PCD004S | 03/27/1210:20 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09W | ND | 1 | 12.8 | 22.9 | 11.5 | 04/05/1214:13 | 04/02/1215:30 | JD05053 | JD05052 | PCD004S | 03/27/1214:55 | 03/27/12 |

C1222

SL-130

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | 7.32 | 1 | NA | NA | NA | 03/29/1218:20 | 03/29/1218:20 | 12PHC027S01 | 12PHC027S | 12PHC027S | 03/27/1214:35 | 03/27/12 |
| SL-039-NBZ-SB-2.0-3.0DUP | C273-04D | 7.29 | 1 | NA | NA | NA | 03/29/1218:20 | 03/29/1218:20 | 12PHC027S02 | 12PHC027S | 12PHC027S | 03/27/1214:35 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | 7.48 | 1 | NA | NA | NA | 03/29/1218:23 | 03/29/1218:20 | 12PHC027S03 | 12PHC027S | 12PHC027S | 03/27/1211:10 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | 6.66 | 1 | NA | NA | NA | 03/29/1218:25 | 03/29/1218:20 | 12PHC027S04 | 12PHC027S | 12PHC027S | 03/27/1209:40 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | 6.57 | 1 | NA | NA | NA | 03/29/1218:27 | 03/29/1218:20 | 12PHC027S05 | 12PHC027S | 12PHC027S | 03/27/1210:17 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | 6.27 | 1 | NA | NA | NA | 03/29/1218:28 | 03/29/1218:20 | 12PHC027S06 | 12PHC027S | 12PHC027S | 03/27/1213:55 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09 | 7.56 | 1 | NA | NA | NA | 03/29/1218:32 | 03/29/1218:20 | 12PHC027S07 | 12PHC027S | 12PHC027S | 03/27/1214:55 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | 6.42 | 1 | NA | NA | NA | 03/29/1218:34 | 03/29/1218:20 | 12PHC027S08 | 12PHC027S | 12PHC027S | 03/27/1210:50 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | 7.54 | 1 | NA | NA | NA | 03/29/1218:36 | 03/29/1218:20 | 12PHC027S09 | 12PHC027S | 12PHC027S | 03/27/1214:35 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | 6.47 | 1 | NA | NA | NA | 03/29/1218:38 | 03/29/1218:20 | 12PHC027S10 | 12PHC027S | 12PHC027S | 03/27/1210:20 | 03/27/12 |

12H27

SL-130

METHOD 6850
PERCHLORATE BY LC/MS

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : SOIL
Instrument ID : GO

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PLC003SB | ND | 1 | NA | 5.00 | 2.50 | 03/30/1208:01 | 03/29/1216:32 | NC30004 | NC30003 | PLC003S | NA | 03/29/12 |
| LCS1S | PLC003SL | 22.6 | 1 | NA | 5.00 | 2.50 | 03/30/1208:15 | 03/29/1216:32 | NC30005 | NC30003 | PLC003S | NA | 03/29/12 |
| LCD1S | PLC003SC | 22.9 | 1 | NA | 5.00 | 2.50 | 03/30/1208:29 | 03/29/1216:32 | NC30006 | NC30003 | PLC003S | NA | 03/29/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | ND | 1 | 11.9 | 5.68 | 2.84 | 03/30/1209:40 | 03/29/1216:32 | NC30011 | NC30003 | PLC003S | 03/27/1210:17 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | ND | 1 | 13.8 | 5.80 | 2.90 | 03/30/1209:54 | 03/29/1216:32 | NC30012 | NC30003 | PLC003S | 03/27/1213:55 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09 | ND | 1 | 12.8 | 5.73 | 2.87 | 03/30/1210:09 | 03/29/1216:32 | NC30013 | NC30003 | PLC003S | 03/27/1214:55 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | ND | 1 | 11.1 | 5.62 | 2.81 | 03/30/1210:37 | 03/29/1216:32 | NC30015 | NC30014 | PLC003S | 03/27/1210:50 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | ND | 1 | 20.0 | 6.25 | 3.12 | 03/30/1210:51 | 03/29/1216:32 | NC30016 | NC30014 | PLC003S | 03/27/1214:35 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | ND | 1 | 16.1 | 5.96 | 2.98 | 03/30/1211:05 | 03/29/1216:32 | NC30017 | NC30014 | PLC003S | 03/27/1210:20 | 03/27/12 |

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SL-130

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C273

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD001SB | ND | 1 | NA | 1.00 | 0.500 | 04/02/1218:11 | 04/02/1214:09 | ID02003 | ID02001 | HCD001S | NA | 04/02/12 |
| MBLK1S | HCD001SQ | ND | 1 | NA | 1.00 | 0.500 | 04/02/1218:21 | 04/02/1214:09 | ID02004 | ID02001 | HCD001S | NA | 04/02/12 |
| LCS1S | CSD001SL | 10.0 | 1 | NA | 1.00 | 0.500 | 04/02/1218:31 | 04/02/1214:09 | ID02005 | ID02001 | HCD001S | NA | 04/02/12 |
| LCS1S | CSD001SX | 10.0 | 1 | NA | 1.00 | 0.500 | 04/02/1218:42 | 04/02/1214:09 | ID02006 | ID02001 | HCD001S | NA | 04/02/12 |
| LCS2S | CID001SL | 206 | 10 | NA | 10.0 | 5.00 | 04/02/1219:03 | 04/02/1214:09 | ID02007 | ID02001 | HCD001S | NA | 04/02/12 |
| LCS2S | CID001SX | 213 | 10 | NA | 10.0 | 5.00 | 04/02/1219:13 | 04/02/1214:09 | ID02008 | ID02001 | HCD001S | NA | 04/02/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04 | ND | 1 | 12.3 | 1.14 | 0.570 | 04/02/1220:57 | 04/02/1214:09 | ID02017 | ID02013 | HCD001S | 03/27/1214:35 | 03/27/12 |
| SL-039-NBZ-SB-2.0-3.0 | C273-04R | ND | 1 | 12.3 | 1.14 | 0.570 | 04/02/1221:07 | 04/02/1214:09 | ID02018 | ID02013 | HCD001S | 03/27/1214:35 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05 | ND | 1 | 17.1 | 1.21 | 0.603 | 04/02/1221:18 | 04/02/1214:09 | ID02019 | ID02013 | HCD001S | 03/27/1211:10 | 03/27/12 |
| SL-038-NBZ-SS-0.0-0.5 | C273-05R | ND | 1 | 17.1 | 1.21 | 0.603 | 04/02/1221:28 | 04/02/1214:09 | ID02020 | ID02013 | HCD001S | 03/27/1211:10 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06 | ND | 1 | 11.5 | 1.13 | 0.565 | 04/02/1221:39 | 04/02/1214:09 | ID02021 | ID02013 | HCD001S | 03/27/1209:40 | 03/27/12 |
| SL-078-NBZ-SS-0.0-0.5 | C273-06R | ND | 1 | 11.5 | 1.13 | 0.565 | 04/02/1221:49 | 04/02/1214:09 | ID02022 | ID02013 | HCD001S | 03/27/1209:40 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07 | ND | 1 | 11.9 | 1.14 | 0.568 | 04/02/1221:59 | 04/02/1214:09 | ID02023 | ID02013 | HCD001S | 03/27/1210:17 | 03/27/12 |
| SL-095-NBZ-SS-0.0-0.5 | C273-07R | ND | 1 | 11.9 | 1.14 | 0.568 | 04/02/1222:10 | 04/02/1214:09 | ID02024 | ID02013 | HCD001S | 03/27/1210:17 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08 | ND | 1 | 13.8 | 1.16 | 0.580 | 04/02/1222:51 | 04/02/1214:09 | ID02027 | ID02025 | HCD001S | 03/27/1213:55 | 03/27/12 |
| SL-102-NBZ-SS-0.0-0.5 | C273-08R | ND | 1 | 13.8 | 1.16 | 0.580 | 04/02/1223:02 | 04/02/1214:09 | ID02028 | ID02025 | HCD001S | 03/27/1213:55 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09 | ND | 1 | 12.8 | 1.15 | 0.573 | 04/02/1223:12 | 04/02/1214:09 | ID02029 | ID02025 | HCD001S | 03/27/1214:55 | 03/27/12 |
| SL-109-NBZ-SS-0.0-0.5 | C273-09R | ND | 1 | 12.8 | 1.15 | 0.573 | 04/02/1223:23 | 04/02/1214:09 | ID02030 | ID02025 | HCD001S | 03/27/1214:55 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10 | ND | 1 | 11.1 | 1.12 | 0.562 | 04/02/1223:33 | 04/02/1214:09 | ID02031 | ID02025 | HCD001S | 03/27/1210:50 | 03/27/12 |
| SL-119-NBZ-SS-0.0-0.5 | C273-10R | ND | 1 | 11.1 | 1.12 | 0.562 | 04/02/1223:43 | 04/02/1214:09 | ID02032 | ID02025 | HCD001S | 03/27/1210:50 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11 | ND | 1 | 20.0 | 1.25 | 0.625 | 04/02/1223:54 | 04/02/1214:09 | ID02033 | ID02025 | HCD001S | 03/27/1214:35 | 03/27/12 |
| SL-129-NBZ-SS-0.0-0.5 | C273-11R | ND | 1 | 20.0 | 1.25 | 0.625 | 04/03/1200:04 | 04/02/1214:09 | ID02034 | ID02025 | HCD001S | 03/27/1214:35 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12 | ND | 1 | 16.1 | 1.19 | 0.596 | 04/03/1200:15 | 04/02/1214:09 | ID02035 | ID02025 | HCD001S | 03/27/1210:20 | 03/27/12 |
| SL-130-NBZ-SS-0.0-0.5 | C273-12R | ND | 1 | 16.1 | 1.19 | 0.596 | 04/03/1200:25 | 04/02/1214:09 | ID02036 | ID02025 | HCD001S | 03/27/1210:20 | 03/27/12 |

C273

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

131 CZ 6/17/13



Sample Description: SL-130-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-NBZ-SS

LLI Sample # SW 6600778
LLI Group # 1299284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2012 10:35

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6607 SDG#: DX166-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 7.1 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

131 cz 6/17/13



Sample Description: SL-130-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-NBZ-SS

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Collected: 03/29/2012 10:35

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6607 SDG#: DX166-07

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0628 | JQ | 0.0242 | 1.05 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.185 | JB | 0.0268 | 5.25 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.111 | JB | 0.0215 | 5.25 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.155 | JB | 0.0228 | 5.25 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.132 | JB | 0.0213 | 5.25 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 0.886 | JB | 0.0157 | 5.25 | 1 |
| 11031 | OCDD | 3268-87-9 | 4.85 | JB | 0.0183 | 10.5 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.102 | J | 0.0321 | 1.05 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.306 | JB | 0.0206 | 5.25 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.424 | JB | 0.0200 | 5.25 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.206 | JB | 0.0181 | 5.25 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.162 | JB | 0.0161 | 5.25 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.100 | JB | 0.0193 | 5.25 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.136 | JB | 0.0180 | 5.25 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.320 | JB | 0.0104 | 5.25 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0836 | JB | 0.0153 | 5.25 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.527 | JB | 0.0168 | 10.5 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 81 | 25 - 164 |
| 13C12-12378-PeCDD | 78 | 25 - 181 |
| 13C12-123478-HxCDD | 76 | 32 - 141 |
| 13C12-123678-HxCDD | 77 | 28 - 130 |
| 13C12-123789-HxCDD | 76 | 28 - 130 |
| 13C12-1234678-HpCDD | 74 | 23 - 140 |
| 13C12-OCDD | 67 | 17 - 157 |
| 13C12-2378-TCDF | 67 | 24 - 169 |
| 13C12-12378-PeCDF | 75 | 24 - 185 |
| 13C12-23478-PeCDF | 73 | 21 - 178 |
| 13C12-123478-HxCDF | 73 | 26 - 152 |
| 13C12-123678-HxCDF | 79 | 26 - 123 |
| 13C12-234678-HxCDF | 74 | 28 - 136 |
| 13C12-123789-HxCDF | 75 | 29 - 147 |
| 13C12-1234678-HpCDF | 86 | 28 - 143 |
| 13C12-1234789-HpCDF | 66 | 26 - 138 |
| 13C12-OCDF | 60 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com



131 CR 6/7/13

Sample Description: SL-130-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-NBZ-SS

LLI Sample # SW 6600778
LLI Group # 1299284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 03/29/2012 10:35

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6607 SDG#: DX166-07

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| S | *Saturation of detection signal* | | | | | |

*=This limit was used in the evaluation of the final result

SL-131

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# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

131 cr 6/17/13



**Sample Description:** SL-~~130~~-131-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-NBZ-SS

LLI Sample # SW 6600778
LLI Group # 1299284
Account # 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 03/29/2012 10:35

Submitted: 03/31/2012 09:35
Reported: 04/20/2012 13:25

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6607 SDG#: DX166-07

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12103002 | 04/14/2012 08:08 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12103002 | 04/12/2012 14:10 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12102162401A | 04/11/2012 11:50 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

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131 C3 6/6/13

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/29/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/29/12 |
| Batch No. | : 12C3051 | Date Extracted | : 04/10/12 14:11 |
| Sample ID | : SL-131-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/17/12 03:46 |
| Lab Samp ID | : C305-09 | Dilution Factor | : 1 |
| Lab File ID | : RDH253 | Matrix | : SOIL |
| Ext Btch ID | : SVD019S | % Moisture | : 7.6 |
| Calib. Ref. | : RCH007 | Instrument ID | : T-QE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 450 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 869 | 1082 | 80.3 | 35-130 |
| 2-FLUOROBIPHENYL | 228 | 360.7 | 63.1 | 45-130 |
| 2-FLUOROPHENOL | 791 | 1082 | 73.1 | 25-130 |
| NITROBENZENE-D5 | 235 | 360.7 | 65.1 | 40-130 |
| PHENOL-D5 | 881 | 1082 | 81.4 | 25-120 |
| TERPHENYL-D14 | 309 | 360.7 | 85.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

CZ 6/17/13

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SL-131

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-131-N8Z-SS-0.0-0.5 | Date Analyzed: 04/17/12 03:46 |
| Lab Samp ID: C305-09 | Dilution Factor: 1 |
| Lab File ID: RDH253 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 7.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-QE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | ND | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | ND | 1.8 | 0.92 |
| PYRENE | ND | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 18J | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | 14J | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 261 | 360.7 | 72.2 | 40-130 |
| 2-FLUOROBIPHENYL | 250 | 360.7 | 69.4 | 45-130 |
| TERPHENYL-D14 | 293 | 360.7 | 81.4 | 45-135 |

131 CZ 6/12/13

SC-131

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 10:30 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 22:56 |
| Lab Samp ID: C305-09 | Dilution Factor: 1 |
| Lab File ID: LD17029A | Matrix : SOIL |
| Ext Btch ID: CPD021S | % Moisture : 7.6 |
| Calib. Ref.: LD17005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | | RL (ug/kg) | MDL (ug/kg) | |
|---|---|---|---|---|---|
| ALPHA-BHC | (ND) | ND | 0.18 | 0.092 | 0.092 |
| GAMMA-BHC (LINDANE) | (ND) | 0.17J | 0.18 | 0.092 | 0.092 |
| BETA-BHC | (ND) | ND | 0.18 | 0.092 | 0.092 |
| HEPTACHLOR | 0.46 | (ND) | 0.18 | 0.092 | 0.092 |
| DELTA-BHC | (ND) | 3.8 | 0.18 | 0.092 | 0.092 |
| ALDRIN | (ND) | ND | 0.18 | 0.092 | 0.092 |
| HEPTACHLOR EPOXIDE | 1.3 | (ND) | 0.18 | 0.092 | 0.092 |
| ENDOSULFAN I | (ND) | 0.75 | 0.18 | 0.092 | 0.092 |
| 4,4'-DDE | 0.22J | (0.63) | 0.37 | 0.18 | 0.18 |
| DIELDRIN | (ND) | ND | 0.37 | 0.18 | 0.18 |
| ENDRIN | 0.97 | (ND) | 0.37 | 0.18 | 0.18 |
| 4,4'-DDD | 0.21J | (ND) | 0.37 | 0.18 | 0.18 |
| ENDOSULFAN II | 1.2 | (ND) | 0.37 | 0.18 | 0.18 |
| 4,4'-DDT | (ND) | 0.40 | 0.37 | 0.18 | 0.18 |
| ENDRIN ALDEHYDE | (ND) | ND | 0.37 | 0.18 | 0.18 |
| ENDOSULFAN SULFATE | (ND) | 0.72 | 0.37 | 0.18 | 0.18 |
| ENDRIN KETONE | (ND) | ND | 0.37 | 0.18 | 0.18 |
| METHOXYCHLOR | 1.8J | (ND) | 1.8 | 0.92 | 0.92 |
| MIREX | 0.74 | (ND) | 0.37 | 0.18 | 0.18 |
| TOXAPHENE | (ND) | ND | 7.1 | 3.6 | 3.6 |
| CHLORDANE (TECHNICAL) | (ND) | ND | 3.7 | 1.8 | 1.8 |

| SURROGATE PARAMETERS | RESULTS | | SPK_AMT | % RECOVERY | | QC LIMIT |
|---|---|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.004 | (7.182) | 5.772 | 86.7 | (124) | 50-130 |
| DECACHLOROBIPHENYL | 4.539 | (5.419) | 5.772 | 78.7 | (93.9) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

SL-131

131 cz 6/17/13

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 13:15 |
| Sample ID: SL-131-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 22:01 |
| Lab Samp ID: C305-09 | Dilution Factor: 1 |
| Lab File ID: KD12086A | Matrix : SOIL |
| Ext Btch ID: CPD022S | % Moisture : 7.6 |
| Calib. Ref.: KD12074A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1221 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1232 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1242 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1248 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1254 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1260 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1262 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 1268 | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| AROCLOR 5432 | (ND) \| ND | 3.6 | 1.8 \| 1.8 |
| AROCLOR 5442 | (ND) \| ND | 3.6 | 1.8 \| 1.8 |
| AROCLOR 5460 | (ND) \| ND | 3.6 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.456) \| 4.688 | 5.772 | (112) \| 81.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.269) \| 5.029 | 5.772 | (126) \| 87.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

131 CZ 6/7/13

SL-131

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 02:50 |
| Lab Samp ID: C305-09 | Dilution Factor: 1 |
| Lab File ID: WD09045A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 7.6 |
| Calib. Ref.: WD09037A | Instrument ID : GCTO16 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| 2,4-DB | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| 2,4,5-T | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| 2,4,5-TP(SILVEX) | 0.53 \| (ND) | 0.18 | 0.092 \| 0.092 |
| DALAPON | (ND) \| ND | 9.7 | 4.9 \| 4.9 |
| DICAMBA | (ND) \| ND | 1.3 | 0.65 \| 0.65 |
| DICHLOROPROP | (ND) \| ND | 2.6 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| MCPA | (ND) \| ND | 270 | 140 \| 140 |
| MCPP | (ND) \| ND | 270 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (56.29) \| 43.83 | 162.3 | (34.7) \| 27.0 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

131 07 6/7/13

SL-131

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 03/29/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 03/29/12 |
| SDG NO. | : 12C305 | Date Extracted: | 04/18/12 10:17 |
| Sample ID: | SL-131-NBZ-SS-0.0-0.5 | Date Analyzed: | 04/19/12 14:53 |
| Lab Samp ID: | C305-09R | Dilution Factor: | 1.00 |
| Lab File ID: | 98D11027 | Matrix : | SOIL |
| Ext Btch ID: | IMD027S | % Moisture : | 7.6 |
| Calib. Ref.: | 98D11017 | Instrument ID : | T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9740 | 26.0 | 13.0 |
| Antimony | 0.190J | 0.216 | 0.108 |
| Arsenic | 3.05 | 0.433 | 0.216 |
| Barium | 71.6 | 0.433 | 0.216 |
| Beryllium | 0.372 | 0.108 | 0.0541 |
| Boron | ND | 5.41 | 2.71 |
| Cadmium | 0.166 | 0.108 | 0.0541 |
| Calcium | 2440 | 21.6 | 10.8 |
| Chromium | 17.5 | 0.433 | 0.216 |
| Cobalt | 5.48 | 0.108 | 0.0541 |
| Copper | 7.14 | 0.433 | 0.216 |
| Iron | 20500 | 21.6 | 10.8 |
| Lead | 4.32 | 0.216 | 0.108 |
| Magnesium | 6150 | 10.8 | 5.41 |
| Manganese | 293 | 0.541 | 0.271 |
| Molybdenum | 0.354 | 0.108 | 0.0541 |
| Nickel | 10.3 | 0.433 | 0.216 |
| Potassium | 3140 | 64.9 | 32.5 |
| Selenium | ND | 0.433 | 0.216 |
| Silver | ND | 0.108 | 0.0541 |
| Sodium | ND | 108 | 54.1 |
| Strontium | 6.88 | 0.541 | 0.271 |
| Thallium | 0.225 | 0.108 | 0.0541 |
| Tin | ND | 10.8 | 5.41 |
| Titanium | 1010 | 1.08 | 0.541 |
| Vanadium | 37.4 | 0.108 | 0.0541 |
| Zinc | 50.1 | 3.25 | 1.62 |
| Lithium | 25.8 | 2.16 | 1.08 |
| Phosphorus | 384 | 13.0 | 6.49 |
| Zirconium | ND | 5.41 | 2.71 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD006SB | ND | 1 | NA | 0.100 | 0.0500 | 04/04/1215:25 | 04/04/1213:00 | M47D003010 | M47D003008 | HGD006S | NA | 04/04/12 |
| LCS1S | HGD006SL | 0.847 | 1 | NA | 0.100 | 0.0500 | 04/04/1215:27 | 04/04/1213:00 | M47D003011 | M47D003008 | HGD006S | NA | 04/04/12 |
| LCD1S | HGD006SC | 0.845 | 1 | NA | 0.100 | 0.0500 | 04/04/1215:29 | 04/04/1213:00 | M47D003012 | M47D003008 | HGD006S | NA | 04/04/12 |
| SL-092-NBZ-SS-0.0-0.5AS | C305-05A | 0.989 | 1.00 | 14.6 | 0.117 | 0.0585 | 04/04/1215:31 | 04/04/1213:00 | M47D003013 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | ND | 1.00 | 14.6 | 0.117 | 0.0585 | 04/04/1215:33 | 04/04/1213:00 | M47D003014 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5DL | C305-05J | ND | 5.02 | 14.6 | 0.588 | 0.294 | 04/04/1215:35 | 04/04/1213:00 | M47D003015 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M | 1.05 | 1.01 | 14.6 | 0.118 | 0.0591 | 04/04/1215:37 | 04/04/1213:00 | M47D003016 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S | 1.03 | 1.00 | 14.6 | 0.117 | 0.0585 | 04/04/1215:39 | 04/04/1213:00 | M47D003017 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5AS | C305-08A | 0.911 | 1.00 | 8.9 | 0.110 | 0.0549 | 04/04/1215:41 | 04/04/1213:00 | M47D003018 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | ND | 1.00 | 8.9 | 0.110 | 0.0549 | 04/04/1215:44 | 04/04/1213:00 | M47D003019 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5DL | C305-08J | ND | 5.02 | 8.9 | 0.551 | 0.276 | 04/04/1215:50 | 04/04/1213:00 | M47D003022 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M | 0.951 | 1.00 | 8.9 | 0.110 | 0.0549 | 04/04/1215:52 | 04/04/1213:00 | M47D003023 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S | 0.936 | 0.988 | 8.9 | 0.108 | 0.0542 | 04/04/1215:54 | 04/04/1213:00 | M47D003024 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-044-NBZ-SS-0.0-0.5DL | C305-03T | 24.3 | 50.1 | 3.5 | 5.19 | 2.60 | 04/04/1216:42 | 04/04/1213:00 | M47D003046 | M47D003044 | HGD006S | 03/29/12 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | ND | 0.992 | 17.7 | 0.121 | 0.0603 | 04/04/1215:58 | 04/04/1213:00 | M47D003026 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | ND | 1.00 | 12.5 | 0.114 | 0.0571 | 04/04/1216:00 | 04/04/1213:00 | M47D003027 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | ND | 1.01 | 12.8 | 0.116 | 0.0579 | 04/04/1216:03 | 04/04/1213:00 | M47D003028 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-100-NBZ-SS-0.0-0.5 | C305-09 | ND | 0.990 | 7.6 | 0.107 | 0.0536 | 04/04/1216:05 | 04/04/1213:00 | M47D003029 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | ND | 0.987 | 13.9 | 0.115 | 0.0573 | 04/04/1216:07 | 04/04/1213:00 | M47D003030 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-091-NBZ-SS-4.0-5.0 | C305-12 | ND | 1.00 | 18.6 | 0.123 | 0.0614 | 04/04/1216:09 | 04/04/1213:00 | M47D003031 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | ND | 0.998 | 15.9 | 0.119 | 0.0593 | 04/04/1216:15 | 04/04/1213:00 | M47D003034 | M47D003032 | HGD006S | 03/29/12 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | ND | 0.988 | 8.7 | 0.108 | 0.0541 | 04/04/1216:17 | 04/04/1213:00 | M47D003035 | M47D003032 | HGD006S | 03/29/12 | 03/29/12 |

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CT 6/12/13

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SL-131

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305

Matrix : SOIL
Instrument ID : DO

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD002SB | ND | 1 | NA | 1.00 | 0.500 | 04/03/1216:30 | 04/02/1216:09 | AD03-25 | AD03-23 | ICD002S | NA | 04/02/12 |
| LCS1S | ICD002SL | 5.78 | 1 | NA | 1.00 | 0.500 | 04/03/1216:46 | 04/02/1216:09 | AD03-26 | AD03-23 | ICD002S | NA | 04/02/12 |
| LCD1S | ICD002SC | 5.79 | 1 | NA | 1.00 | 0.500 | 04/03/1217:02 | 04/02/1216:09 | AD03-27 | AD03-23 | ICD002S | NA | 04/02/12 |
| SL-044-NBZ-SS-0.0-0.5 | C305-03 | 0.769J | 1 | NA | 1.00 | 0.500 | 04/03/1217:18 | 04/02/1216:09 | AD03-28 | AD03-23 | ICD002S | 03/29/1213:11 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | 0.529J | 1 | NA | 1.00 | 0.500 | 04/03/1217:35 | 04/02/1216:09 | AD03-29 | AD03-23 | ICD002S | 03/29/1209:09 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1217:51 | 04/02/1216:09 | AD03-30 | AD03-23 | ICD002S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M | 6.25 | 1 | NA | 1.00 | 0.500 | 04/03/1218:07 | 04/02/1216:09 | AD03-31 | AD03-23 | ICD002S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S | 6.26 | 1 | NA | 1.00 | 0.500 | 04/03/1218:23 | 04/02/1216:09 | AD03-32 | AD03-23 | ICD002S | 03/29/1211:43 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1218:39 | 04/02/1216:09 | AD03-33 | AD03-23 | ICD002S | 03/29/1210:05 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1219:44 | 04/02/1216:09 | AD03-37 | AD03-35 | ICD002S | 03/29/1209:25 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1220:00 | 04/02/1216:09 | AD03-38 | AD03-35 | ICD002S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M | 6.25 | 1 | NA | 1.00 | 0.500 | 04/03/1220:16 | 04/02/1216:09 | AD03-39 | AD03-35 | ICD002S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S | 6.20 | 1 | NA | 1.00 | 0.500 | 04/03/1220:32 | 04/02/1216:09 | AD03-40 | AD03-35 | ICD002S | 03/29/1215:10 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1220:49 | 04/02/1216:09 | AD03-41 | AD03-35 | ICD002S | 03/29/1210:35 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | 0.570J | 1 | NA | 1.00 | 0.500 | 04/03/1221:05 | 04/02/1216:09 | AD03-42 | AD03-35 | ICD002S | 03/29/1213:55 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12 | 4.50 | 1 | NA | 1.00 | 0.500 | 04/03/1221:21 | 04/02/1216:09 | AD03-43 | AD03-35 | ICD002S | 03/29/1210:20 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1221:37 | 04/02/1216:09 | AD03-44 | AD03-35 | ICD002S | 03/29/1212:09 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1221:53 | 04/02/1216:09 | AD03-45 | AD03-35 | ICD002S | 03/29/1215:10 | 03/29/12 |

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cz
4/7/13

SL-131

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD006SB | ND | 1 | NA | 20.0 | 10.0 | 04/06/1202:15 | 04/02/1216:00 | JD06028 | JD06027 | PCD006S | NA | 04/02/12 |
| LCS1S | PCD006SL | 272 | 1 | NA | 20.0 | 10.0 | 04/06/1202:57 | 04/02/1216:00 | JD06030 | JD06027 | PCD006S | NA | 04/02/12 |
| LCD1S | PCD006SC | 276 | 1 | NA | 20.0 | 10.0 | 04/06/1203:18 | 04/02/1216:00 | JD06031 | JD06027 | PCD006S | NA | 04/02/12 |
| SL-044-NBZ-SS-0.0-0.5 | C305-03 | 32.1 | 1 | 3.5 | 20.7 | 10.4 | 04/06/1203:39 | 04/02/1216:00 | JD06032 | JD06027 | PCD006S | 03/29/1213:11 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | ND | 1 | 17.7 | 24.3 | 12.2 | 04/06/1204:00 | 04/02/1216:00 | JD06033 | JD06027 | PCD006S | 03/29/1209:09 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | ND | 1 | 14.6 | 23.4 | 11.7 | 04/06/1204:21 | 04/02/1216:00 | JD06034 | JD06027 | PCD006S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M | 316 | 1 | 14.6 | 23.4 | 11.7 | 04/06/1204:42 | 04/02/1216:00 | JD06035 | JD06027 | PCD006S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S | 317 | 1 | 14.6 | 23.4 | 11.7 | 04/06/1205:03 | 04/02/1216:00 | JD06036 | JD06027 | PCD006S | 03/29/1211:43 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | ND | 1 | 12.5 | 22.9 | 11.4 | 04/06/1206:06 | 04/02/1216:00 | JD06039 | JD06038 | PCD006S | 03/29/1210:05 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | ND | 1 | 12.8 | 22.9 | 11.5 | 04/06/1206:27 | 04/02/1216:00 | JD06040 | JD06038 | PCD006S | 03/29/1209:25 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | ND | 1 | 8.9 | 22.0 | 11.0 | 04/06/1206:48 | 04/02/1216:00 | JD06041 | JD06038 | PCD006S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M | 290 | 1 | 8.9 | 22.0 | 11.0 | 04/06/1207:09 | 04/02/1216:00 | JD06042 | JD06038 | PCD006S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S | 292 | 1 | 8.9 | 22.0 | 11.0 | 04/06/1207:30 | 04/02/1216:00 | JD06043 | JD06038 | PCD006S | 03/29/1215:10 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09 | ND | 1 | 7.6 | 21.6 | 10.8 | 04/06/1207:51 | 04/02/1216:00 | JD06044 | JD06038 | PCD006S | 03/29/1210:35 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | ND | 1 | 13.9 | 23.2 | 11.6 | 04/06/1208:12 | 04/02/1216:00 | JD06045 | JD06038 | PCD006S | 03/29/1213:55 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12 | ND | 1 | 18.6 | 24.6 | 12.3 | 04/06/1208:34 | 04/02/1216:00 | JD06046 | JD06038 | PCD006S | 03/29/1210:20 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | ND | 1 | 15.9 | 23.8 | 11.9 | 04/06/1209:37 | 04/02/1216:00 | JD06049 | JD06048 | PCD006S | 03/29/1212:09 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | ND | 1 | 8.7 | 21.9 | 11.0 | 04/06/1209:58 | 04/02/1216:00 | JD06050 | JD06048 | PCD006S | 03/29/1215:10 | 03/29/12 |

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cz 6/17/13

SL-131

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD004SB | ND | 1 | NA | 1.00 | 0.500 | 04/05/1222:20 | 04/04/1214:52 | ID06010 | ID06008 | HCD004S | NA | 04/04/12 |
| MBLK1S | HCD004SQ | ND | 1 | NA | 1.00 | 0.500 | 04/05/1222:30 | 04/04/1214:52 | ID06011 | ID06008 | HCD004S | NA | 04/04/12 |
| LCS1S | CSD004SL | 10.2 | 1 | NA | 1.00 | 0.500 | 04/05/1222:41 | 04/04/1214:52 | ID06012 | ID06008 | HCD004S | NA | 04/04/12 |
| LCS1S | CSD004SX | 11.1 | 1 | NA | 1.00 | 0.500 | 04/05/1222:51 | 04/04/1214:52 | ID06013 | ID06008 | HCD004S | NA | 04/04/12 |
| LCS2S | CID004SL | 302 | 20 | NA | 20.0 | 10.0 | 04/05/1223:02 | 04/04/1214:52 | ID06014 | ID06008 | HCD004S | NA | 04/04/12 |
| LCS2S | CID004SX | 293 | 20 | NA | 20.0 | 10.0 | 04/05/1223:12 | 04/04/1214:52 | ID06015 | ID06008 | HCD004S | NA | 04/04/12 |
| SL-044-NBZ-SS-0.0-0.5 | C305-03 | ND | 1 | 3.5 | 1.04 | 0.518 | 04/05/1223:22 | 04/04/1214:52 | ID06016 | ID06008 | HCD004S | 03/29/1213:11 | 03/29/12 |
| SL-044-NBZ-SS-0.0-0.5 | C305-03R | ND | 1 | 3.5 | 1.04 | 0.518 | 04/05/1223:33 | 04/04/1214:52 | ID06017 | ID06008 | HCD004S | 03/29/1213:11 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | ND | 1 | 17.7 | 1.22 | 0.608 | 04/05/1223:43 | 04/04/1214:52 | ID06018 | ID06008 | HCD004S | 03/29/1209:09 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04R | ND | 1 | 17.7 | 1.22 | 0.608 | 04/05/1223:54 | 04/04/1214:52 | ID06019 | ID06008 | HCD004S | 03/29/1209:09 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | ND | 1 | 14.6 | 1.17 | 0.585 | 04/06/1200:25 | 04/04/1214:52 | ID06022 | ID06020 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05R | ND | 1 | 14.6 | 1.17 | 0.585 | 04/06/1200:35 | 04/04/1214:52 | ID06023 | ID06020 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05H | 197 | 20 | 14.6 | 23.4 | 11.7 | 04/06/1201:48 | 04/04/1214:52 | ID06030 | ID06020 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05H1 | 167 | 20 | 14.6 | 23.4 | 11.7 | 04/06/1201:59 | 04/04/1214:52 | ID06031 | ID06020 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | ND | 1 | 8.9 | 1.10 | 0.549 | 04/06/1202:30 | 04/04/1214:52 | ID06034 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08R | ND | 1 | 8.9 | 1.10 | 0.549 | 04/06/1202:40 | 04/04/1214:52 | ID06035 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08G | 202 | 20 | 8.9 | 22.0 | 11.0 | 04/06/1203:32 | 04/04/1214:52 | ID06040 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08G1 | 194 | 20 | 8.9 | 22.0 | 11.0 | 04/06/1203:43 | 04/04/1214:52 | ID06041 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08H | 193 | 20 | 8.9 | 22.0 | 11.0 | 04/06/1203:53 | 04/04/1214:52 | ID06042 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08H1 | 177 | 20 | 8.9 | 22.0 | 11.0 | 04/06/1204:03 | 04/04/1214:52 | ID06043 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | ND | 1 | 12.5 | 1.14 | 0.571 | 04/06/1204:35 | 04/04/1214:52 | ID06046 | ID06044 | HCD004S | 03/29/1210:05 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06R | ND | 1 | 12.5 | 1.14 | 0.571 | 04/06/1204:45 | 04/04/1214:52 | ID06047 | ID06044 | HCD004S | 03/29/1210:05 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09 | ND | 1 | 7.6 | 1.08 | 0.541 | 04/06/1205:16 | 04/04/1214:52 | ID06050 | ID06044 | HCD004S | 03/29/1210:35 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09R | ND | 1 | 7.6 | 1.08 | 0.541 | 04/06/1205:27 | 04/04/1214:52 | ID06051 | ID06044 | HCD004S | 03/29/1210:35 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | ND | 1 | 13.9 | 1.16 | 0.581 | 04/06/1205:37 | 04/04/1214:52 | ID06052 | ID06044 | HCD004S | 03/29/1213:55 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10R | ND | 1 | 13.9 | 1.16 | 0.581 | 04/06/1205:47 | 04/04/1214:52 | ID06053 | ID06044 | HCD004S | 03/29/1213:55 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12 | ND | 1 | 18.6 | 1.23 | 0.614 | 04/06/1205:58 | 04/04/1214:52 | ID06054 | ID06044 | HCD004S | 03/29/1210:20 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12R | ND | 1 | 18.6 | 1.23 | 0.614 | 04/06/1206:08 | 04/04/1214:52 | ID06055 | ID06044 | HCD004S | 03/29/1210:20 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | ND | 1 | 15.9 | 1.19 | 0.595 | 04/06/1206:39 | 04/04/1214:52 | ID06058 | ID06056 | HCD004S | 03/29/1212:09 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13R | ND | 1 | 15.9 | 1.19 | 0.595 | 04/06/1206:50 | 04/04/1214:52 | ID06059 | ID06056 | HCD004S | 03/29/1212:09 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | ND | 1 | 8.7 | 1.10 | 0.548 | 04/06/1207:00 | 04/04/1214:52 | ID06060 | ID06056 | HCD004S | 03/29/1215:10 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14R | ND | 1 | 8.7 | 1.10 | 0.548 | 04/06/1207:11 | 04/04/1214:52 | ID06061 | ID06056 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M | 12.3 | 1 | 14.6 | 1.17 | 0.585 | 04/06/1210:53 | 04/04/1214:52 | ID06072 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M1 | 10.5 | 1 | 14.6 | 1.17 | 0.585 | 04/06/1211:03 | 04/04/1214:52 | ID06073 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S | 12.1 | 1 | 14.6 | 1.17 | 0.585 | 04/06/1211:14 | 04/04/1214:52 | ID06074 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S1 | 12.5 | 1 | 14.6 | 1.17 | 0.585 | 04/06/1211:24 | 04/04/1214:52 | ID06075 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05G | 178 | 20 | 14.6 | 23.4 | 11.7 | 04/06/1211:34 | 04/04/1214:52 | ID06076 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05G1 | 192 | 20 | 14.6 | 23.4 | 11.7 | 04/06/1211:45 | 04/04/1214:52 | ID06077 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M | 10.0 | 1 | 8.9 | 1.10 | 0.549 | 04/06/1211:55 | 04/04/1214:52 | ID06078 | ID06070 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M1 | 11.4 | 1 | 8.9 | 1.10 | 0.549 | 04/06/1212:06 | 04/04/1214:52 | ID06079 | ID06070 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S | 11.6 | 1 | 8.9 | 1.10 | 0.549 | 04/06/1212:16 | 04/04/1214:52 | ID06080 | ID06070 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S1 | 10.6 | 1 | 8.9 | 1.10 | 0.549 | 04/06/1212:26 | 04/04/1214:52 | ID06081 | ID06070 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | ND | 1 | 12.8 | 1.15 | 0.573 | 04/06/1213:23 | 04/04/1214:52 | ID06084 | ID06082 | HCD004S | 03/29/1209:25 | 03/29/12 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305

Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-044-NBZ-SS-0.0-0.5 | C305-03 | 7.47 | 1 | NA | NA | NA | 03/30/1219:15 | 03/30/1219:15 | 12PHC030S01 | PHC030S | PHC030S | 03/29/1213:11 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | 7.54 | 1 | NA | NA | NA | 03/30/1219:17 | 03/30/1219:15 | 12PHC030S02 | PHC030S | PHC030S | 03/29/1209:09 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | 7.38 | 1 | NA | NA | NA | 03/30/1219:19 | 03/30/1219:15 | 12PHC030S03 | PHC030S | PHC030S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5DUP | C305-05D | 7.42 | 1 | NA | NA | NA | 03/30/1219:20 | 03/30/1219:15 | 12PHC030S04 | PHD030S | PHC030S | 03/29/1211:43 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | 6.80 | 1 | NA | NA | NA | 03/30/1219:21 | 03/30/1219:15 | 12PHC030S05 | PH3030S | PHC030S | 03/29/1210:05 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | 7.00 | 1 | NA | NA | NA | 03/30/1219:22 | 03/30/1219:15 | 12PHC030S06 | PHC030S | PHC030S | 03/29/1209:25 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | 6.83 | 1 | NA | NA | NA | 03/30/1219:23 | 03/30/1219:15 | 12PHC030S07 | PHC030S | PHC030S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5DUP | C305-08D | 6.81 | 1 | NA | NA | NA | 03/30/1219:25 | 03/30/1219:15 | 12PHC030S08 | PHC030S | PHC030S | 03/29/1215:10 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09 | 6.49 | 1 | NA | NA | NA | 03/30/1219:25 | 03/30/1219:15 | 12PHC030S09 | PHC030S | PHC030S | 03/29/1210:35 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | 7.34 | 1 | NA | NA | NA | 03/30/1219:27 | 03/30/1219:15 | 12PHC030S10 | PHC030S | PHC030S | 03/29/1213:55 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12 | 7.43 | 1 | NA | NA | NA | 03/30/1219:29 | 03/30/1219:15 | 12PHC030S11 | PHC030S | PHC030S | 03/29/1210:20 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | 7.24 | 1 | NA | NA | NA | 03/30/1219:33 | 03/30/1219:15 | 12PHC030S12 | PHC030S | PHC030S | 03/29/1212:09 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | 6.91 | 1 | NA | NA | NA | 03/30/1219:34 | 03/30/1219:15 | 12PHC030S13 | PHC030S | PHC030S | 03/29/1215:10 | 03/29/12 |

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CR 4/17/13

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**NBZ – Data Package Amendment**
**SDG 12C305, SDG DE304, SDG DX165**
**6-17-13**

During the database check, an inconsistency in sample identification was discovered that needed to be corrected. They are listed below:

- The Method 7471A mercury result was removed from sample SL-091-NBZ-SS-4.0-5.0 and added to sample SL-091-NBZ-SB-4.0-5.0.
- Sample SL-091-NBZ-SS-4.0-5.0 was removed.

All changes have been documented and verified by the field personnel and data group.

Pam Hartman
Catherine Love
Cherie Zakowski

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD006SB | ND | 1 | NA | 0.100 | 0.0500 | 04/04/1215:25 | 04/04/1213:00 | M47D003010 | M47D003008 | HGD006S | NA | 04/04/12 |
| LCS1S | HGD006SL | 0.847 | 1 | NA | 0.100 | 0.0500 | 04/04/1215:27 | 04/04/1213:00 | M47D003011 | M47D003008 | HGD006S | NA | 04/04/12 |
| LCD1S | HGD006SC | 0.845 | 1 | NA | 0.100 | 0.0500 | 04/04/1215:29 | 04/04/1213:00 | M47D003012 | M47D003008 | HGD006S | NA | 04/04/12 |
| SL-092-NBZ-SS-0.0-0.5AS | C305-05A | 0.989 | 1.00 | 14.6 | 0.117 | 0.0585 | 04/04/1215:31 | 04/04/1213:00 | M47D003013 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | ND | 1.00 | 14.6 | 0.117 | 0.0585 | 04/04/1215:33 | 04/04/1213:00 | M47D003014 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5DL | C305-05J | ND | 5.02 | 14.6 | 0.588 | 0.294 | 04/04/1215:35 | 04/04/1213:00 | M47D003015 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M | 1.05 | 1.01 | 14.6 | 0.118 | 0.0591 | 04/04/1215:37 | 04/04/1213:00 | M47D003016 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S | 1.03 | 1.00 | 14.6 | 0.117 | 0.0585 | 04/04/1215:39 | 04/04/1213:00 | M47D003017 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5AS | C305-08A | 0.911 | 1.00 | 8.9 | 0.110 | 0.0549 | 04/04/1215:41 | 04/04/1213:00 | M47D003018 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | ND | 1.00 | 8.9 | 0.110 | 0.0549 | 04/04/1215:44 | 04/04/1213:00 | M47D003019 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5DL | C305-08J | ND | 5.02 | 8.9 | 0.551 | 0.276 | 04/04/1215:50 | 04/04/1213:00 | M47D003022 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M | 0.951 | 1.00 | 8.9 | 0.110 | 0.0549 | 04/04/1215:52 | 04/04/1213:00 | M47D003023 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S | 0.936 | 0.988 | 8.9 | 0.108 | 0.0542 | 04/04/1215:54 | 04/04/1213:00 | M47D003024 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-044-NBZ-SS-0.0-0.5DL | C305-03T | 24.3 | 50.1 | 3.5 | 5.19 | 2.60 | 04/04/1216:42 | 04/04/1213:00 | M47D003046 | M47D003044 | HGD006S | 03/29/12 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | ND | 0.992 | 17.7 | 0.121 | 0.0603 | 04/04/1215:58 | 04/04/1213:00 | M47D003026 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | ND | 1.00 | 12.5 | 0.114 | 0.0571 | 04/04/1216:00 | 04/04/1213:00 | M47D003027 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | ND | 1.01 | 12.8 | 0.116 | 0.0579 | 04/04/1216:03 | 04/04/1213:00 | M47D003028 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09 | ND | 0.990 | 7.6 | 0.107 | 0.0536 | 04/04/1216:05 | 04/04/1213:00 | M47D003029 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | ND | 0.987 | 13.9 | 0.115 | 0.0573 | 04/04/1216:07 | 04/04/1213:00 | M47D003030 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-091-NBZ-SS-4.0-5.0 | C305-12 | ND | 1.00 | 18.6 | 0.123 | 0.0614 | 04/04/1216:09 | 04/04/1213:00 | M47D003031 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | ND | 0.998 | 15.9 | 0.119 | 0.0593 | 04/04/1216:15 | 04/04/1213:00 | M47D003034 | M47D003032 | HGD006S | 03/29/12 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | ND | 0.988 | 8.7 | 0.108 | 0.0541 | 04/04/1216:17 | 04/04/1213:00 | M47D003035 | M47D003032 | HGD006S | 03/29/12 | 03/29/12 |

SB
C2 6/17/13

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/03/12 23:24 |
| Sample ID: EB-NBZ-SB-032912 | Date Analyzed: 04/03/12 23:24 |
| Lab Samp ID: C305-01 | Dilution Factor: 1 |
| Lab File ID: RDV013 | Matrix : WATER |
| Ext Btch ID: VO01D01 | % Moisture : NA |
| Calib. Ref.: RBV366 | Instrument ID : T-O01 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,1-TRICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,2-TRICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROETHENE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| 1,2,3-TRICHLOROBENZENE | ND | 1.0 | 0.30 |
| 1,2,3-TRICHLOROPROPANE | ND | 2.0 | 0.50 |
| 1,2,4-TRICHLOROBENZENE | ND | 1.0 | 0.30 |
| 1,2,4-TRIMETHYLBENZENE | ND | 1.0 | 0.20 |
| 1,2-DIBROMO-3-CHLOROPROPANE | ND | 2.0 | 0.50 |
| 1,2-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 1,2-DICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,2-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 1,2-DIBROMOETHANE (EDB) | ND | 1.0 | 0.20 |
| 1,3,5-TRIMETHYLBENZENE | ND | 1.0 | 0.20 |
| 1,3-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 1,4-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 2,2-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 2-CHLOROTOLUENE | ND | 1.0 | 0.20 |
| 4-CHLOROTOLUENE | ND | 1.0 | 0.20 |
| BENZENE | ND | 1.0 | 0.20 |
| BROMOBENZENE | ND | 1.0 | 0.20 |
| BROMOCHLOROMETHANE | ND | 1.0 | 0.20 |
| BROMODICHLOROMETHANE | ND | 1.0 | 0.20 |
| BROMOFORM | ND | 1.0 | 0.30 |
| BROMOMETHANE | ND | 1.0 | 0.30 |
| CARBON TETRACHLORIDE | ND | 1.0 | 0.20 |
| CHLOROBENZENE | ND | 1.0 | 0.20 |
| CHLOROETHANE | ND | 1.0 | 0.30 |
| CHLOROFORM | ND | 1.0 | 0.20 |
| CHLOROMETHANE | ND | 1.0 | 0.30 |
| CIS-1,2-DICHLOROETHENE | ND | 1.0 | 0.20 |
| CIS-1,3-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| DIBROMOCHLOROMETHANE | ND | 1.0 | 0.20 |
| DIBROMOMETHANE | ND | 1.0 | 0.20 |
| DICHLORODIFLUOROMETHANE | ND | 1.0 | 0.30 |
| ETHYLBENZENE | ND | 1.0 | 0.20 |
| HEXACHLOROBUTADIENE | ND | 1.0 | 0.30 |
| ISOPROPYL BENZENE | ND | 1.0 | 0.20 |
| M,P-XYLENE | ND | 2.0 | 0.40 |
| METHYL TERT-BUTYL ETHER (MTBE) | ND | 1.0 | 0.20 |
| METHYLENE CHLORIDE | ND | 1.0 | 0.50 |
| N-BUTYLBENZENE | ND | 1.0 | 0.20 |
| N-PROPYLBENZENE | ND | 1.0 | 0.20 |
| O-XYLENE | ND | 1.0 | 0.20 |
| P-ISOPROPYLTOLUENE | ND | 1.0 | 0.20 |
| SEC-BUTYLBENZENE | ND | 1.0 | 0.20 |
| STYRENE | ND | 1.0 | 0.20 |
| TERT-BUTYLBENZENE | ND | 1.0 | 0.20 |
| TETRACHLOROETHENE | ND | 1.0 | 0.20 |
| TOLUENE | ND | 1.0 | 0.20 |
| TRANS-1,2-DICHLOROETHENE | ND | 1.0 | 0.20 |
| TRANS-1,3-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| TRICHLOROETHENE | ND | 1.0 | 0.20 |
| TRICHLOROFLUOROMETHANE | ND | 1.0 | 0.30 |
| VINYL CHLORIDE | ND | 1.0 | 0.20 |
| ACETONE | ND | 10 | 5.0 |
| 2-BUTANONE (MEK) | ND | 10 | 4.0 |
| 2-HEXANONE | ND | 10 | 4.0 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 10 | 4.0 |
| FREON113 | ND | 1.0 | 0.30 |
| 2-CHLOROETHYL VINYL ETHER | ND | 2.0 | 1.0 |
| 2-CHLORO-1,1,1-TRIFLUOROETHANE | ND | 1.0 | 0.20 |
| CHLOROTRIFLUOROETHYLENE | ND | 1.0 | 0.20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 11.2 | 10.00 | 112 | 80-120 |
| 4-BROMOFLUOROBENZENE | 10.4 | 10.00 | 104 | 86-115 |
| TOLUENE-D8 | 9.14 | 10.00 | 91.4 | 88-110 |
| DIBROMOFLUOROMETHANE | 9.90 | 10.00 | 99.0 | 86-118 |

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12C305 | Date Extracted: 04/03/12 20:32 |
| Sample ID: MBLK1W | Date Analyzed: 04/03/12 20:32 |
| Lab Samp ID: VO01D01B | Dilution Factor: 1 |
| Lab File ID: RDV007 | Matrix : WATER |
| Ext Btch ID: VO01D01 | % Moisture : NA |
| Calib. Ref.: RBV366 | Instrument ID : T-O01 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,1-TRICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,2-TRICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROETHENE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| 1,2,3-TRICHLOROBENZENE | ND | 1.0 | 0.30 |
| 1,2,3-TRICHLOROPROPANE | ND | 2.0 | 0.50 |
| 1,2,4-TRICHLOROBENZENE | ND | 1.0 | 0.30 |
| 1,2,4-TRIMETHYLBENZENE | ND | 1.0 | 0.20 |
| 1,2-DIBROMO-3-CHLOROPROPANE | ND | 2.0 | 0.50 |
| 1,2-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 1,2-DICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,2-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 1,2-DIBROMOETHANE (EDB) | ND | 1.0 | 0.20 |
| 1,3,5-TRIMETHYLBENZENE | ND | 1.0 | 0.20 |
| 1,3-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 1,4-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 2,2-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 2-CHLOROTOLUENE | ND | 1.0 | 0.20 |
| 4-CHLOROTOLUENE | ND | 1.0 | 0.20 |
| BENZENE | ND | 1.0 | 0.20 |
| BROMOBENZENE | ND | 1.0 | 0.20 |
| BROMOCHLOROMETHANE | ND | 1.0 | 0.20 |
| BROMODICHLOROMETHANE | ND | 1.0 | 0.20 |
| BROMOFORM | ND | 1.0 | 0.30 |
| BROMOMETHANE | ND | 1.0 | 0.30 |
| CARBON TETRACHLORIDE | ND | 1.0 | 0.20 |
| CHLOROBENZENE | ND | 1.0 | 0.20 |
| CHLOROETHANE | ND | 1.0 | 0.30 |
| CHLOROFORM | ND | 1.0 | 0.20 |
| CHLOROMETHANE | ND | 1.0 | 0.30 |
| CIS-1,2-DICHLOROETHENE | ND | 1.0 | 0.20 |
| CIS-1,3-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| DIBROMOCHLOROMETHANE | ND | 1.0 | 0.20 |
| DIBROMOMETHANE | ND | 1.0 | 0.20 |
| DICHLORODIFLUOROMETHANE | ND | 1.0 | 0.30 |
| ETHYLBENZENE | ND | 1.0 | 0.20 |
| HEXACHLOROBUTADIENE | ND | 1.0 | 0.30 |
| ISOPROPYL BENZENE | ND | 1.0 | 0.20 |
| M,P-XYLENE | ND | 2.0 | 0.40 |
| METHYL TERT-BUTYL ETHER (MTBE) | ND | 1.0 | 0.20 |
| METHYLENE CHLORIDE | ND | 1.0 | 0.50 |
| N-BUTYLBENZENE | ND | 1.0 | 0.20 |
| N-PROPYLBENZENE | ND | 1.0 | 0.20 |
| O-XYLENE | ND | 1.0 | 0.20 |
| P-ISOPROPYLTOLUENE | ND | 1.0 | 0.20 |
| SEC-BUTYLBENZENE | ND | 1.0 | 0.20 |
| STYRENE | ND | 1.0 | 0.20 |
| TERT-BUTYLBENZENE | ND | 1.0 | 0.20 |
| TETRACHLOROETHENE | ND | 1.0 | 0.20 |
| TOLUENE | ND | 1.0 | 0.20 |
| TRANS-1,2-DICHLOROETHENE | ND | 1.0 | 0.20 |
| TRANS-1,3-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| TRICHLOROETHENE | ND | 1.0 | 0.20 |
| TRICHLOROFLUOROMETHANE | ND | 1.0 | 0.30 |
| VINYL CHLORIDE | ND | 1.0 | 0.20 |
| ACETONE | ND | 10 | 5.0 |
| 2-BUTANONE (MEK) | ND | 10 | 4.0 |
| 2-HEXANONE | ND | 10 | 4.0 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 10 | 4.0 |
| FREON113 | ND | 1.0 | 0.30 |
| 2-CHLOROETHYL VINYL ETHER | ND | 2.0 | 1.0 |
| 2-CHLORO-1,1,1-TRIFLUOROETHANE | ND | 1.0 | 0.20 |
| CHLOROTRIFLUOROETHYLENE | ND | 1.0 | 0.20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 10.6 | 10.00 | 106 | 80-120 |
| 4-BROMOFLUOROBENZENE | 10.2 | 10.00 | 102 | 86-115 |
| TOLUENE-D8 | 9.04 | 10.00 | 90.4 | 88-110 |
| DIBROMOFLUOROMETHANE | 9.77 | 10.00 | 97.7 | 86-118 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VO01D01B | VO01D01L | VO01D01C | | |
| LAB FILE ID: | RDV007 | RDV004 | RDV005 | | |
| DATE EXTRACTED: | 04/03/1220:32 | 04/03/1219:07 | 04/03/1219:35 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1220:32 | 04/03/1219:07 | 04/03/1219:35 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | VO01D01 | VO01D01 | VO01D01 | | |
| CALIB. REF: | RBV366 | RBV366 | RBV366 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 10.0 | 9.77 | 98 | 10.0 | 9.74 | 97 | 0 | 70-130 | 30 |
| 1,1,1-Trichloroethane | ND | 10.0 | 9.73 | 97 | 10.0 | 10.0 | 100 | 3 | 70-130 | 30 |
| 1,1,2,2-Tetrachloroethane | ND | 10.0 | 10.2 | 102 | 10.0 | 9.85 | 98 | 3 | 70-130 | 30 |
| 1,1,2-Trichloroethane | ND | 10.0 | 10.2 | 102 | 10.0 | 10.0 | 100 | 2 | 70-130 | 30 |
| 1,1-Dichloroethane | ND | 10.0 | 10.3 | 103 | 10.0 | 10.5 | 105 | 2 | 70-130 | 30 |
| 1,1-Dichloroethene | ND | 10.0 | 10.2 | 102 | 10.0 | 10.0 | 100 | 2 | 60-130 | 30 |
| 1,1-Dichloropropene | ND | 10.0 | 9.56 | 96 | 10.0 | 9.47 | 95 | 1 | 70-140 | 30 |
| 1,2,3-Trichlorobenzene | ND | 10.0 | 11.4 | 114 | 10.0 | 11.8 | 118 | 3 | 60-130 | 30 |
| 1,2,3-Trichloropropane | ND | 10.0 | 10.3 | 103 | 10.0 | 9.87 | 99 | 4 | 70-140 | 30 |
| 1,2,4-Trichlorobenzene | ND | 10.0 | 11.3 | 113 | 10.0 | 11.6 | 116 | 3 | 60-140 | 30 |
| 1,2,4-Trimethylbenzene | ND | 10.0 | 9.80 | 98 | 10.0 | 9.84 | 98 | 0 | 70-130 | 30 |
| 1,2-Dibromo-3-chloropropane | ND | 10.0 | 10.2 | 102 | 10.0 | 10.0 | 100 | 2 | 60-130 | 30 |
| 1,2-Dichlorobenzene | ND | 10.0 | 9.89 | 99 | 10.0 | 9.87 | 99 | 0 | 70-130 | 30 |
| 1,2-Dichloroethane | ND | 10.0 | 10.9 | 109 | 10.0 | 10.6 | 106 | 3 | 70-130 | 30 |
| 1,2-Dichloropropane | ND | 10.0 | 10.2 | 102 | 10.0 | 9.93 | 99 | 2 | 70-130 | 30 |
| 1,2-Dibromoethane (EDB) | ND | 10.0 | 10.0 | 100 | 10.0 | 9.82 | 98 | 2 | 70-140 | 30 |
| 1,3,5-Trimethylbenzene | ND | 10.0 | 9.71 | 97 | 10.0 | 9.70 | 97 | 0 | 70-130 | 30 |
| 1,3-Dichlorobenzene | ND | 10.0 | 9.50 | 95 | 10.0 | 9.44 | 94 | 1 | 70-130 | 30 |
| 1,3-Dichloropropane | ND | 10.0 | 9.90 | 99 | 10.0 | 9.68 | 97 | 2 | 70-130 | 30 |
| 1,4-Dichlorobenzene | ND | 10.0 | 9.54 | 95 | 10.0 | 9.59 | 96 | 0 | 70-130 | 30 |
| 2,2-Dichloropropane | ND | 10.0 | 9.66 | 97 | 10.0 | 9.90 | 99 | 2 | 50-140 | 30 |
| 2-Chlorotoluene | ND | 10.0 | 9.42 | 94 | 10.0 | 9.34 | 93 | 1 | 70-130 | 30 |
| 4-Chlorotoluene | ND | 10.0 | 9.72 | 97 | 10.0 | 9.72 | 97 | 0 | 70-130 | 30 |
| Benzene | ND | 10.0 | 9.48 | 95 | 10.0 | 9.36 | 94 | 1 | 70-130 | 30 |
| Bromobenzene | ND | 10.0 | 9.27 | 93 | 10.0 | 9.13 | 91 | 2 | 70-130 | 30 |
| Bromochloromethane | ND | 10.0 | 10.9 | 109 | 10.0 | 11.0 | 110 | 1 | 70-130 | 30 |
| Bromodichloromethane | ND | 10.0 | 9.54 | 95 | 10.0 | 9.36 | 94 | 2 | 70-130 | 30 |
| Bromoform | ND | 10.0 | 9.93 | 99 | 10.0 | 9.63 | 96 | 3 | 60-140 | 30 |
| Bromomethane | ND | 10.0 | 10.1 | 101 | 10.0 | 8.61 | 86 | 16 | 50-140 | 30 |
| Carbon Tetrachloride | ND | 10.0 | 9.72 | 97 | 10.0 | 9.59 | 96 | 1 | 70-130 | 30 |
| Chlorobenzene | ND | 10.0 | 10.1 | 101 | 10.0 | 10.1 | 101 | 0 | 70-120 | 30 |
| Chloroethane | ND | 10.0 | 11.2 | 112 | 10.0 | 9.56 | 96 | 16 | 70-140 | 30 |
| Chloroform | ND | 10.0 | 10.1 | 101 | 10.0 | 10.2 | 102 | 1 | 70-130 | 30 |
| Chloromethane | ND | 10.0 | 9.17 | 92 | 10.0 | 8.09 | 81 | 13 | 60-130 | 30 |
| cis-1,2-Dichloroethene | ND | 10.0 | 9.08 | 91 | 10.0 | 9.14 | 91 | 1 | 70-130 | 30 |
| cis-1,3-Dichloropropene | ND | 10.0 | 9.86 | 99 | 10.0 | 9.61 | 96 | 3 | 70-130 | 30 |
| Dibromochloromethane | ND | 10.0 | 9.49 | 95 | 10.0 | 9.35 | 93 | 2 | 70-130 | 30 |
| Dibromomethane | ND | 10.0 | 10.3 | 103 | 10.0 | 10.0 | 100 | 2 | 70-140 | 30 |
| Dichlorodifluoromethane | ND | 10.0 | 8.77 | 88 | 10.0 | 7.47 | 75 | 16 | 50-140 | 30 |
| Ethylbenzene | ND | 10.0 | 10.1 | 101 | 10.0 | 9.87 | 99 | 2 | 70-130 | 30 |
| Hexachlorobutadiene | ND | 10.0 | 11.8 | 118 | 10.0 | 12.3 | 123 | 4 | 60-140 | 30 |
| Isopropyl Benzene | ND | 10.0 | 10.4 | 104 | 10.0 | 10.3 | 103 | 1 | 70-150 | 30 |
| m,p-Xylene | ND | 20.0 | 19.5 | 97 | 20.0 | 19.4 | 97 | 1 | 70-130 | 30 |
| Methyl tert-butyl Ether (MTBE) | ND | 10.0 | 10.2 | 102 | 10.0 | 10.1 | 101 | 1 | 70-140 | 30 |
| Methylene Chloride | ND | 10.0 | 10.7 | 107 | 10.0 | 10.6 | 106 | 1 | 70-130 | 30 |
| n-Butylbenzene | ND | 10.0 | 10.3 | 103 | 10.0 | 10.4 | 104 | 1 | 60-130 | 30 |
| n-Propylbenzene | ND | 10.0 | 9.50 | 95 | 10.0 | 9.43 | 94 | 1 | 70-140 | 30 |
| o-Xylene | ND | 10.0 | 9.70 | 97 | 10.0 | 9.66 | 97 | 0 | 70-130 | 30 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | ND | 10.0 | 10.5 | 105 | 10.0 | 10.5 | 105 | 0 | 70-140 | 30 |
| Sec-Butylbenzene | ND | 10.0 | 9.83 | 98 | 10.0 | 9.83 | 98 | 0 | 70-130 | 30 |
| Styrene | ND | 10.0 | 10.2 | 102 | 10.0 | 10.1 | 101 | 1 | 70-130 | 30 |
| Tert-Butylbenzene | ND | 10.0 | 9.14 | 91 | 10.0 | 9.12 | 91 | 0 | 70-130 | 30 |
| Tetrachloroethene | ND | 10.0 | 9.35 | 93 | 10.0 | 9.25 | 92 | 1 | 70-130 | 30 |
| Toluene | ND | 10.0 | 9.55 | 96 | 10.0 | 9.34 | 93 | 2 | 70-130 | 30 |
| Trans-1,2-Dichloroethene | ND | 10.0 | 9.80 | 98 | 10.0 | 9.87 | 99 | 1 | 70-130 | 30 |
| Trans-1,3-Dichloropropene | ND | 10.0 | 10.1 | 101 | 10.0 | 9.80 | 98 | 3 | 70-140 | 30 |
| Trichloroethene | ND | 10.0 | 9.40 | 94 | 10.0 | 9.35 | 93 | 1 | 70-130 | 30 |
| Trichlorofluoromethane | ND | 10.0 | 11.5 | 115 | 10.0 | 8.91 | 89 | 25 | 70-140 | 30 |
| Vinyl Chloride | ND | 10.0 | 10.7 | 107 | 10.0 | 8.99 | 90 | 17 | 60-150 | 30 |
| Acetone | ND | 50.0 | 52.2 | 104 | 50.0 | 52.5 | 105 | 0 | 50-150 | 30 |
| 2-Butanone (MEK) | ND | 50.0 | 55.3 | 111 | 50.0 | 53.5 | 107 | 3 | 60-140 | 30 |
| 2-Hexanone | ND | 50.0 | 56.2 | 112 | 50.0 | 53.6 | 107 | 5 | 70-140 | 30 |
| 4-Methyl-2-Pentanone (MIBK) | ND | 50.0 | 54.9 | 110 | 50.0 | 53.4 | 107 | 3 | 60-140 | 30 |
| Freon113 | ND | 10.0 | 10.8 | 108 | 10.0 | 11.0 | 110 | 1 | 70-140 | 30 |
| 2-Chloroethyl Vinyl Ether | ND | 10.0 | 9.10 | 91 | 10.0 | 8.86 | 89 | 3 | 30-160 | 30 |
| 2-Chloro-1,1,1-trifluoroethane | ND | 10.0 | 7.98 | 80 | 10.0 | 10.1 | 101 | 23 | 50-150 | 30 |
| Chlorotrifluoroethylene | ND | 10.0 | 7.96 | 80 | 10.0 | 10.8 | 108 | 30 | 50-150 | 30 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 10.0 | 10.2 | 102 | 10.0 | 10.2 | 102 | 80-120 |
| 4-Bromofluorobenzene | 10.0 | 9.72 | 97 | 10.0 | 9.55 | 96 | 86-115 |
| Toluene-d8 | 10.0 | 8.87 | 89 | 10.0 | 8.77 | 88 | 88-110 |
| Dibromofluoromethane | 10.0 | 9.59 | 96 | 10.0 | 9.75 | 97 | 86-118 |

METHOD 5030B/8260B SIM
VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/02/12 15:59 |
| Sample ID: EB-NBZ-SB-032912 | Date Analyzed: 04/02/12 15:59 |
| Lab Samp ID: C305-01 | Dilution Factor: 1 |
| Lab File ID: RDY010 | Matrix : WATER |
| Ext Btch ID: VOF5D01 | % Moisture : NA |
| Calib. Ref.: RKY092 | Instrument ID : TOF5 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,4-DIOXANE | ND | 4.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 3.05 | 5.000 | 60.9 | 50-150 |

METHOD 5030B/8260B SIM
VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12C305 | Date Extracted: 04/02/12 13:29 |
| Sample ID: MBLK1W | Date Analyzed: 04/02/12 13:29 |
| Lab Samp ID: VOF5D01B | Dilution Factor: 1 |
| Lab File ID: RDY006 | Matrix : WATER |
| Ext Btch ID: VOF5D01 | % Moisture : NA |
| Calib. Ref.: RKY092 | Instrument ID : TOF5 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,4-DIOXANE | ND | 4.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 4.61 | 5.000 | 92.1 | 50-150 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: 5030B/8260B SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VOF5D01B | VOF5D01L | VOF5D01C | | |
| LAB FILE ID: | RDY006 | RDY003 | RDY004 | | |
| DATE EXTRACTED: | 04/02/1213:29 | 04/02/1211:58 | 04/02/1212:29 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/02/1213:29 | 04/02/1211:58 | 04/02/1212:29 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | VOF5D01 | VOF5D01 | VOF5D01 | | |
| CALIB. REF: | RKY092 | RKY092 | RKY092 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ND | 50.0 | 53.0 | 106 | 50.0 | 52.0 | 104 | 2 | 50-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 5.00 | 4.47 | 89 | 5.00 | 4.31 | 86 | 50-150 |

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/02/12 12:00 |
| Sample ID: EB-NBZ-SB-032912 | Date Analyzed: 04/05/12 21:15 |
| Lab Samp ID: C305-01 | Dilution Factor: 1.08 |
| Lab File ID: RDJ109 | Matrix : WATER |
| Ext Btch ID: SVD004W | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 11 | 5.4 |
| 1,2-DICHLOROBENZENE | ND | 11 | 5.4 |
| 1,3-DICHLOROBENZENE | ND | 11 | 5.4 |
| 1,4-DICHLOROBENZENE | ND | 11 | 5.4 |
| 2,4,5-TRICHLOROPHENOL | ND | 11 | 5.4 |
| 2,4,6-TRICHLOROPHENOL | ND | 11 | 5.4 |
| 2,4-DICHLOROPHENOL | ND | 11 | 5.4 |
| 2,4-DIMETHYLPHENOL | ND | 11 | 5.4 |
| 2,4-DINITROPHENOL | ND | 22 | 5.4 |
| 2,4-DINITROTOLUENE | ND | 11 | 5.4 |
| 2,6-DINITROTOLUENE | ND | 11 | 5.4 |
| 2-CHLORONAPHTHALENE | ND | 11 | 5.4 |
| 2-CHLOROPHENOL | ND | 11 | 5.4 |
| 2-METHYLNAPHTHALENE | ND | 11 | 5.4 |
| 2-METHYLPHENOL | ND | 11 | 5.4 |
| 2-NITROANILINE | ND | 11 | 5.4 |
| 2-NITROPHENOL | ND | 11 | 5.4 |
| 3,3'-DICHLOROBENZIDINE | ND | 11 | 5.4 |
| 3-NITROANILINE | ND | 11 | 5.4 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 22 | 5.4 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 11 | 5.4 |
| 4-CHLORO-3-METHYLPHENOL | ND | 11 | 5.4 |
| 4-CHLOROANILINE | ND | 11 | 5.4 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 11 | 5.4 |
| 4-METHYLPHENOL (1) | ND | 11 | 5.4 |
| 4-NITROANILINE | ND | 11 | 5.4 |
| 4-NITROPHENOL | ND | 22 | 5.4 |
| ACENAPHTHENE | ND | 11 | 5.4 |
| ACENAPHTHYLENE | ND | 11 | 5.4 |
| ANTHRACENE | ND | 11 | 5.4 |
| BENZO(A)ANTHRACENE | ND | 11 | 5.4 |
| BENZO(A)PYRENE | ND | 11 | 5.4 |
| BENZO(B)FLUORANTHENE | ND | 11 | 5.4 |
| BENZO(K)FLUORANTHENE | ND | 11 | 5.4 |
| BENZO(G,H,I)PERYLENE | ND | 11 | 5.4 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 11 | 5.4 |
| BIS(2-CHLOROETHYL)ETHER | ND | 11 | 5.4 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 11 | 5.4 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 22 | 5.4 |
| BUTYLBENZYLPHTHALATE | ND | 11 | 5.4 |
| CHRYSENE | ND | 11 | 5.4 |
| DI-N-BUTYLPHTHALATE | ND | 11 | 5.4 |
| DI-N-OCTYLPHTHALATE | ND | 11 | 5.4 |
| DIBENZO(A,H)ANTHRACENE | ND | 11 | 5.4 |
| DIBENZOFURAN | ND | 11 | 5.4 |
| DIETHYLPHTHALATE | ND | 11 | 5.4 |
| DIMETHYLPHTHALATE | ND | 11 | 5.4 |
| FLUORANTHENE | ND | 11 | 5.4 |
| FLUORENE | ND | 11 | 5.4 |
| HEXACHLOROBENZENE | ND | 11 | 5.4 |
| HEXACHLOROBUTADIENE | ND | 11 | 5.4 |
| HEXACHLOROCYCLOPENTADIENE | ND | 22 | 5.4 |
| HEXACHLOROETHANE | ND | 11 | 5.4 |
| INDENO(1,2,3-CD)PYRENE | ND | 11 | 5.4 |
| ISOPHORONE | ND | 11 | 5.4 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 11 | 5.4 |
| N-NITROSODIPHENYLAMINE (2) | ND | 11 | 5.4 |
| NAPHTHALENE | ND | 11 | 5.4 |
| NITROBENZENE | ND | 11 | 5.4 |
| PENTACHLOROPHENOL | ND | 22 | 5.4 |
| PHENANTHRENE | ND | 11 | 5.4 |
| PHENOL | ND | 11 | 5.4 |
| PYRENE | ND | 11 | 5.4 |
| BENZYL ALCOHOL | ND | 11 | 5.4 |
| 1-METHYLNAPHTHALENE | ND | 11 | 5.4 |
| 1,2-DIPHENYLHYDRAZINE | ND | 11 | 5.4 |
| 3,5-DIMETHYLPHENOL | ND | 22 | 5.4 |
| ANILINE | ND | 22 | 11 |
| BENZIDINE | ND | 54 | 22 |
| BENZOIC ACID | ND | 43 | 22 |
| CARBAZOLE | ND | 11 | 5.4 |
| N-NITROSODIMETHYLAMINE | ND | 11 | 5.4 |
| TETRALIN | ND | 11 | 11 |
| 2-BUTOXYETHANOL | ND | 11 | 11 |
| 2-PHENOXYETHANOL | ND | 11 | 11 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 34.9 | 64.80 | 53.9 | 30-130 |
| 2-FLUOROBIPHENYL | 9.47 | 21.60 | 43.9* | 45-130 |
| 2-FLUOROPHENOL | 29.1 | 64.80 | 44.9 | 20-130 |
| NITROBENZENE-D5 | 10.5 | 21.60 | 48.6 | 40-130 |
| PHENOL-D5 | 33.2 | 64.80 | 51.3 | 20-120 |
| TERPHENYL-D14 | 17.9 | 21.60 | 82.8 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/02/12 12:00 |
| Sample ID: EB-NBZ-SS-032912 | Date Analyzed: 04/05/12 21:34 |
| Lab Samp ID: C305-02 | Dilution Factor: 1.01 |
| Lab File ID: RDJ110 | Matrix : WATER |
| Ext Btch ID: SVD004W | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 10 | 5.0 |
| 1,2-DICHLOROBENZENE | ND | 10 | 5.0 |
| 1,3-DICHLOROBENZENE | ND | 10 | 5.0 |
| 1,4-DICHLOROBENZENE | ND | 10 | 5.0 |
| 2,4,5-TRICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4,6-TRICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4-DICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4-DIMETHYLPHENOL | ND | 10 | 5.0 |
| 2,4-DINITROPHENOL | ND | 20 | 5.0 |
| 2,4-DINITROTOLUENE | ND | 10 | 5.0 |
| 2,6-DINITROTOLUENE | ND | 10 | 5.0 |
| 2-CHLORONAPHTHALENE | ND | 10 | 5.0 |
| 2-CHLOROPHENOL | ND | 10 | 5.0 |
| 2-METHYLNAPHTHALENE | ND | 10 | 5.0 |
| 2-METHYLPHENOL | ND | 10 | 5.0 |
| 2-NITROANILINE | ND | 10 | 5.0 |
| 2-NITROPHENOL | ND | 10 | 5.0 |
| 3,3'-DICHLOROBENZIDINE | ND | 10 | 5.0 |
| 3-NITROANILINE | ND | 10 | 5.0 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 20 | 5.0 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 10 | 5.0 |
| 4-CHLORO-3-METHYLPHENOL | ND | 10 | 5.0 |
| 4-CHLOROANILINE | ND | 10 | 5.0 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 10 | 5.0 |
| 4-METHYLPHENOL (1) | ND | 10 | 5.0 |
| 4-NITROANILINE | ND | 10 | 5.0 |
| 4-NITROPHENOL | ND | 20 | 5.0 |
| ACENAPHTHENE | ND | 10 | 5.0 |
| ACENAPHTHYLENE | ND | 10 | 5.0 |
| ANTHRACENE | ND | 10 | 5.0 |
| BENZO(A)ANTHRACENE | ND | 10 | 5.0 |
| BENZO(A)PYRENE | ND | 10 | 5.0 |
| BENZO(B)FLUORANTHENE | ND | 10 | 5.0 |
| BENZO(K)FLUORANTHENE | ND | 10 | 5.0 |
| BENZO(G,H,I)PERYLENE | ND | 10 | 5.0 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 10 | 5.0 |
| BIS(2-CHLOROETHYL)ETHER | ND | 10 | 5.0 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 10 | 5.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 20 | 5.0 |
| BUTYLBENZYLPHTHALATE | ND | 10 | 5.0 |
| CHRYSENE | ND | 10 | 5.0 |
| DI-N-BUTYLPHTHALATE | ND | 10 | 5.0 |
| DI-N-OCTYLPHTHALATE | ND | 10 | 5.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 10 | 5.0 |
| DIBENZOFURAN | ND | 10 | 5.0 |
| DIETHYLPHTHALATE | ND | 10 | 5.0 |
| DIMETHYLPHTHALATE | ND | 10 | 5.0 |
| FLUORANTHENE | ND | 10 | 5.0 |
| FLUORENE | ND | 10 | 5.0 |
| HEXACHLOROBENZENE | ND | 10 | 5.0 |
| HEXACHLOROBUTADIENE | ND | 10 | 5.0 |
| HEXACHLOROCYCLOPENTADIENE | ND | 20 | 5.0 |
| HEXACHLOROETHANE | ND | 10 | 5.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 10 | 5.0 |
| ISOPHORONE | ND | 10 | 5.0 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 10 | 5.0 |
| N-NITROSODIPHENYLAMINE (2) | ND | 10 | 5.0 |
| NAPHTHALENE | ND | 10 | 5.0 |
| NITROBENZENE | ND | 10 | 5.0 |
| PENTACHLOROPHENOL | ND | 20 | 5.0 |
| PHENANTHRENE | ND | 10 | 5.0 |
| PHENOL | ND | 10 | 5.0 |
| PYRENE | ND | 10 | 5.0 |
| BENZYL ALCOHOL | ND | 10 | 5.0 |
| 1-METHYLNAPHTHALENE | ND | 10 | 5.0 |
| 1,2-DIPHENYLHYDRAZINE | ND | 10 | 5.0 |
| 3,5-DIMETHYLPHENOL | ND | 20 | 5.0 |
| ANILINE | ND | 20 | 10 |
| BENZIDINE | ND | 50 | 20 |
| BENZOIC ACID | ND | 40 | 20 |
| CARBAZOLE | ND | 10 | 5.0 |
| N-NITROSODIMETHYLAMINE | ND | 10 | 5.0 |
| TETRALIN | ND | 10 | 10 |
| 2-BUTOXYETHANOL | ND | 10 | 10 |
| 2-PHENOXYETHANOL | ND | 10 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 41.8 | 60.60 | 69.0 | 30-130 |
| 2-FLUOROBIPHENYL | 11.5 | 20.20 | 57.1 | 45-130 |
| 2-FLUOROPHENOL | 33.4 | 60.60 | 55.2 | 20-130 |
| NITROBENZENE-D5 | 12.5 | 20.20 | 62.0 | 40-130 |
| PHENOL-D5 | 38.5 | 60.60 | 63.5 | 20-120 |
| TERPHENYL-D14 | 16.3 | 20.20 | 80.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12C305 | Date Extracted: 04/02/12 12:00 |
| Sample ID: MBLK1W | Date Analyzed: 04/05/12 19:04 |
| Lab Samp ID: SVD004WB | Dilution Factor: 1 |
| Lab File ID: RDJ102 | Matrix : WATER |
| Ext Btch ID: SVD004W | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 10 | 5.0 |
| 1,2-DICHLOROBENZENE | ND | 10 | 5.0 |
| 1,3-DICHLOROBENZENE | ND | 10 | 5.0 |
| 1,4-DICHLOROBENZENE | ND | 10 | 5.0 |
| 2,4,5-TRICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4,6-TRICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4-DICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4-DIMETHYLPHENOL | ND | 10 | 5.0 |
| 2,4-DINITROPHENOL | ND | 20 | 5.0 |
| 2,4-DINITROTOLUENE | ND | 10 | 5.0 |
| 2,6-DINITROTOLUENE | ND | 10 | 5.0 |
| 2-CHLORONAPHTHALENE | ND | 10 | 5.0 |
| 2-CHLOROPHENOL | ND | 10 | 5.0 |
| 2-METHYLNAPHTHALENE | ND | 10 | 5.0 |
| 2-METHYLPHENOL | ND | 10 | 5.0 |
| 2-NITROANILINE | ND | 10 | 5.0 |
| 2-NITROPHENOL | ND | 10 | 5.0 |
| 3,3'-DICHLOROBENZIDINE | ND | 10 | 5.0 |
| 3-NITROANILINE | ND | 10 | 5.0 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 20 | 5.0 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 10 | 5.0 |
| 4-CHLORO-3-METHYLPHENOL | ND | 10 | 5.0 |
| 4-CHLOROANILINE | ND | 10 | 5.0 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 10 | 5.0 |
| 4-METHYLPHENOL (1) | ND | 10 | 5.0 |
| 4-NITROANILINE | ND | 10 | 5.0 |
| 4-NITROPHENOL | ND | 20 | 5.0 |
| ACENAPHTHENE | ND | 10 | 5.0 |
| ACENAPHTHYLENE | ND | 10 | 5.0 |
| ANTHRACENE | ND | 10 | 5.0 |
| BENZO(A)ANTHRACENE | ND | 10 | 5.0 |
| BENZO(A)PYRENE | ND | 10 | 5.0 |
| BENZO(B)FLUORANTHENE | ND | 10 | 5.0 |
| BENZO(K)FLUORANTHENE | ND | 10 | 5.0 |
| BENZO(G,H,I)PERYLENE | ND | 10 | 5.0 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 10 | 5.0 |
| BIS(2-CHLOROETHYL)ETHER | ND | 10 | 5.0 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 10 | 5.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 20 | 5.0 |
| BUTYLBENZYLPHTHALATE | ND | 10 | 5.0 |
| CHRYSENE | ND | 10 | 5.0 |
| DI-N-BUTYLPHTHALATE | ND | 10 | 5.0 |
| DI-N-OCTYLPHTHALATE | ND | 10 | 5.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 10 | 5.0 |
| DIBENZOFURAN | ND | 10 | 5.0 |
| DIETHYLPHTHALATE | ND | 10 | 5.0 |
| DIMETHYLPHTHALATE | ND | 10 | 5.0 |
| FLUORANTHENE | ND | 10 | 5.0 |
| FLUORENE | ND | 10 | 5.0 |
| HEXACHLOROBENZENE | ND | 10 | 5.0 |
| HEXACHLOROBUTADIENE | ND | 10 | 5.0 |
| HEXACHLOROCYCLOPENTADIENE | ND | 20 | 5.0 |
| HEXACHLOROETHANE | ND | 10 | 5.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 10 | 5.0 |
| ISOPHORONE | ND | 10 | 5.0 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 10 | 5.0 |
| N-NITROSODIPHENYLAMINE (2) | ND | 10 | 5.0 |
| NAPHTHALENE | ND | 10 | 5.0 |
| NITROBENZENE | ND | 10 | 5.0 |
| PENTACHLOROPHENOL | ND | 20 | 5.0 |
| PHENANTHRENE | ND | 10 | 5.0 |
| PHENOL | ND | 10 | 5.0 |
| PYRENE | ND | 10 | 5.0 |
| BENZYL ALCOHOL | ND | 10 | 5.0 |
| 1-METHYLNAPHTHALENE | ND | 10 | 5.0 |
| 1,2-DIPHENYLHYDRAZINE | ND | 10 | 5.0 |
| 3,5-DIMETHYLPHENOL | ND | 20 | 5.0 |
| ANILINE | ND | 20 | 10 |
| BENZIDINE | ND | 50 | 20 |
| BENZOIC ACID | ND | 40 | 20 |
| CARBAZOLE | ND | 10 | 5.0 |
| N-NITROSODIMETHYLAMINE | ND | 10 | 5.0 |
| TETRALIN | ND | 10 | 10 |
| 2-BUTOXYETHANOL | ND | 10 | 10 |
| 2-PHENOXYETHANOL | ND | 10 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 33.6 | 60.00 | 56.0 | 30-130 |
| 2-FLUOROBIPHENYL | 9.68 | 20.00 | 48.4 | 45-130 |
| 2-FLUOROPHENOL | 29.7 | 60.00 | 49.4 | 20-130 |
| NITROBENZENE-D5 | 11.2 | 20.00 | 56.2 | 40-130 |
| PHENOL-D5 | 33.4 | 60.00 | 55.7 | 20-120 |
| TERPHENYL-D14 | 17.2 | 20.00 | 86.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 3520C/8270C

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: SVD004WB SVD004WL SVD004WC
LAB FILE ID: RDJ102 RDJ103 RDJ104
DATE EXTRACTED: 04/02/1212:00 04/02/1212:00 04/02/1212:00 DATE COLLECTED: NA
DATE ANALYZED: 04/05/1219:04 04/05/1219:22 04/05/1219:41 DATE RECEIVED: 04/02/12
PREP. BATCH: SVD004W SVD004W SVD004W
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 40.0 | 21.8 | 55 | 40.0 | 19.4 | 49 | 12 | 30-130 | 30 |
| 1,2-Dichlorobenzene | ND | 40.0 | 22.1 | 55 | 40.0 | 19.8 | 49 | 11 | 30-130 | 30 |
| 1,3-Dichlorobenzene | ND | 40.0 | 21.8 | 55 | 40.0 | 19.6 | 49 | 11 | 30-130 | 30 |
| 1,4-Dichlorobenzene | ND | 40.0 | 21.7 | 54 | 40.0 | 19.4 | 49 | 11 | 30-130 | 30 |
| 2,4,5-Trichlorophenol | ND | 40.0 | 25.5 | 64 | 40.0 | 25.5 | 64 | 0 | 30-130 | 30 |
| 2,4,6-Trichlorophenol | ND | 40.0 | 26.7 | 67 | 40.0 | 25.8 | 64 | 4 | 30-130 | 30 |
| 2,4-Dichlorophenol | ND | 40.0 | 25.4 | 63 | 40.0 | 22.8 | 57 | 11 | 40-130 | 30 |
| 2,4-Dimethylphenol | ND | 40.0 | 25.6 | 64 | 40.0 | 22.7 | 57 | 12 | 30-130 | 30 |
| 2,4-Dinitrophenol | ND | 40.0 | 18.8J | 47 | 40.0 | 16.9J | 42 | 11 | 30-130 | 30 |
| 2,4-Dinitrotoluene | ND | 40.0 | 31.2 | 78 | 40.0 | 31.3 | 78 | 1 | 40-130 | 30 |
| 2,6-Dinitrotoluene | ND | 40.0 | 29.2 | 73 | 40.0 | 29.7 | 74 | 2 | 40-130 | 30 |
| 2-Chloronaphthalene | ND | 40.0 | 24.2 | 60 | 40.0 | 23.1 | 58 | 4 | 40-130 | 30 |
| 2-Chlorophenol | ND | 40.0 | 24.8 | 62 | 40.0 | 22.2 | 56 | 11 | 30-130 | 30 |
| 2-Methylnaphthalene | ND | 40.0 | 32.8 | 82 | 40.0 | 28.8 | 72 | 13 | 40-130 | 30 |
| 2-Methylphenol | ND | 40.0 | 23.7 | 59 | 40.0 | 21.2 | 53 | 11 | 30-130 | 30 |
| 2-Nitroaniline | ND | 40.0 | 30.4 | 76 | 40.0 | 30.2 | 75 | 1 | 40-130 | 30 |
| 2-Nitrophenol | ND | 40.0 | 25.9 | 65 | 40.0 | 22.4 | 56 | 14 | 40-130 | 30 |
| 3,3'-Dichlorobenzidine | ND | 40.0 | 29.5 | 74 | 40.0 | 28.9 | 72 | 2 | 20-140 | 30 |
| 3-Nitroaniline | ND | 40.0 | 32.2 | 81 | 40.0 | 31.9 | 80 | 1 | 30-130 | 30 |
| 4,6-Dinitro-2-Methylphenol | ND | 40.0 | 19.2J | 48 | 40.0 | 18.3J | 46 | 5 | 40-130 | 30 |
| 4-Bromophenyl-phenylether | ND | 40.0 | 26.5 | 66 | 40.0 | 26.6 | 66 | 0 | 50-130 | 30 |
| 4-Chloro-3-Methylphenol | ND | 40.0 | 26.5 | 66 | 40.0 | 25.9 | 65 | 2 | 30-130 | 30 |
| 4-Chloroaniline | ND | 40.0 | 23.8 | 60 | 40.0 | 21.8 | 55 | 9 | 30-130 | 30 |
| 4-Chlorophenyl-phenylether | ND | 40.0 | 28.3 | 71 | 40.0 | 28.9 | 72 | 2 | 50-130 | 30 |
| 4-Methylphenol | ND | 40.0 | 23.9 | 60 | 40.0 | 22.3 | 56 | 7 | 30-130 | 30 |
| 4-Nitroaniline | ND | 40.0 | 32.9 | 82 | 40.0 | 32.6 | 81 | 1 | 30-130 | 30 |
| 4-Nitrophenol | ND | 40.0 | 34.7 | 87 | 40.0 | 32.7 | 82 | 6 | 30-130 | 30 |
| Acenaphthene | ND | 40.0 | 27.2 | 68 | 40.0 | 26.7 | 67 | 2 | 40-130 | 30 |
| Acenaphthylene | ND | 40.0 | 29.5 | 74 | 40.0 | 28.6 | 71 | 3 | 40-130 | 30 |
| Anthracene | ND | 40.0 | 30.3 | 76 | 40.0 | 29.5 | 74 | 3 | 50-130 | 30 |
| Benzo(a)anthracene | ND | 40.0 | 32.2 | 80 | 40.0 | 30.9 | 77 | 4 | 50-130 | 30 |
| Benzo(a)pyrene | ND | 40.0 | 32.0 | 80 | 40.0 | 30.4 | 76 | 5 | 50-130 | 30 |
| Benzo(b)fluoranthene | ND | 40.0 | 33.8 | 85 | 40.0 | 33.4 | 84 | 1 | 40-140 | 30 |
| Benzo(k)fluoranthene | ND | 40.0 | 33.9 | 85 | 40.0 | 31.3 | 78 | 8 | 40-130 | 30 |
| Benzo(g,h,i)perylene | ND | 40.0 | 34.3 | 86 | 40.0 | 32.5 | 81 | 6 | 40-130 | 30 |
| bis(2-Chloroethoxy)methane | ND | 40.0 | 28.2 | 71 | 40.0 | 25.6 | 64 | 10 | 40-130 | 30 |
| bis(2-Chloroethyl)ether | ND | 40.0 | 27.6 | 69 | 40.0 | 25.1 | 63 | 9 | 30-130 | 30 |
| bis(2-Chloroisopropyl)ether | ND | 40.0 | 27.5 | 69 | 40.0 | 24.5 | 61 | 11 | 20-130 | 30 |
| bis(2-Ethylhexyl)phthalate | ND | 40.0 | 35.0 | 88 | 40.0 | 33.9 | 85 | 3 | 20-140 | 30 |
| Butylbenzylphthalate | ND | 40.0 | 36.9 | 92 | 40.0 | 35.0 | 87 | 5 | 40-130 | 30 |
| Chrysene | ND | 40.0 | 33.1 | 83 | 40.0 | 31.0 | 78 | 6 | 40-130 | 30 |
| Di-n-butylphthalate | ND | 40.0 | 32.3 | 81 | 40.0 | 30.6 | 77 | 5 | 30-160 | 30 |
| Di-n-octylphthalate | ND | 40.0 | 42.4 | 106 | 40.0 | 40.9 | 102 | 4 | 20-150 | 30 |
| Dibenzo(a,h)anthracene | ND | 40.0 | 34.5 | 86 | 40.0 | 33.2 | 83 | 4 | 40-130 | 30 |
| Dibenzofuran | ND | 40.0 | 26.5 | 66 | 40.0 | 26.4 | 66 | 0 | 40-130 | 30 |
| Diethylphthalate | ND | 40.0 | 31.1 | 78 | 40.0 | 30.5 | 76 | 2 | 30-140 | 30 |
| Dimethylphthalate | ND | 40.0 | 28.4 | 71 | 40.0 | 28.6 | 72 | 1 | 30-130 | 30 |
| Fluoranthene | ND | 40.0 | 36.5 | 91 | 40.0 | 35.1 | 88 | 4 | 40-130 | 30 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 40.0 | 30.6 | 76 | 40.0 | 30.6 | 76 | 0 | 40-130 | 30 |
| Hexachlorobenzene | ND | 40.0 | 27.5 | 69 | 40.0 | 27.3 | 68 | 1 | 30-130 | 30 |
| Hexachlorobutadiene | ND | 40.0 | 22.9 | 57 | 40.0 | 19.8 | 49 | 15 | 10-130 | 30 |
| Hexachlorocyclopentadiene | ND | 40.0 | 9.91J | 25 | 40.0 | 8.08J | 20 | 20 | 10-130 | 30 |
| Hexachloroethane | ND | 40.0 | 21.4 | 54 | 40.0 | 19.2 | 48 | 11 | 20-130 | 30 |
| Indeno(1,2,3-cd)pyrene | ND | 40.0 | 34.8 | 87 | 40.0 | 32.8 | 82 | 6 | 50-130 | 30 |
| Isophorone | ND | 40.0 | 27.3 | 68 | 40.0 | 25.7 | 64 | 6 | 40-130 | 30 |
| n-Nitroso-di-n-propylamine | ND | 40.0 | 21.9 | 55 | 40.0 | 21.0 | 52 | 4 | 30-130 | 30 |
| n-Nitrosodiphenylamine | ND | 40.0 | 21.9 | 55 | 40.0 | 22.0 | 55 | 1 | 10-150 | 30 |
| Naphthalene | ND | 40.0 | 28.1 | 70 | 40.0 | 24.9 | 62 | 12 | 20-130 | 30 |
| Nitrobenzene | ND | 40.0 | 27.9 | 70 | 40.0 | 24.7 | 62 | 12 | 30-130 | 30 |
| Pentachlorophenol | ND | 40.0 | 30.7 | 77 | 40.0 | 29.7 | 74 | 3 | 30-130 | 30 |
| Phenanthrene | ND | 40.0 | 31.0 | 78 | 40.0 | 30.5 | 76 | 2 | 40-130 | 30 |
| Phenol | ND | 40.0 | 24.7 | 62 | 40.0 | 22.0 | 55 | 12 | 20-130 | 30 |
| Pyrene | ND | 40.0 | 33.6 | 84 | 40.0 | 32.6 | 82 | 3 | 40-130 | 30 |
| Benzyl Alcohol | ND | 40.0 | 25.3 | 63 | 40.0 | 23.7 | 59 | 6 | 30-130 | 30 |
| 1-Methylnaphthalene | ND | 40.0 | 28.4 | 71 | 40.0 | 26.0 | 65 | 9 | 40-130 | 30 |
| 1,2-Diphenylhydrazine | ND | 40.0 | 27.0 | 68 | 40.0 | 27.0 | 68 | 0 | 30-130 | 30 |
| 3,5-Dimethylphenol | ND | 40.0 | 22.7 | 57 | 40.0 | 21.2 | 53 | 7 | 20-150 | 30 |
| Aniline | ND | 40.0 | 21.0 | 53 | 40.0 | 19.7J | 49 | 7 | 10-130 | 30 |
| Benzidine | ND | 80.0 | ND | 0* | 80.0 | 8.54J | 11* | 200* | 20-130 | 30 |
| Benzoic Acid | ND | 80.0 | 46.0 | 58 | 80.0 | 30.8J | 38 | 40* | 10-130 | 30 |
| Carbazole | ND | 40.0 | 30.4 | 76 | 40.0 | 29.7 | 74 | 2 | 50-130 | 30 |
| N-Nitrosodimethylamine | ND | 40.0 | 28.2 | 71 | 40.0 | 25.1 | 63 | 12 | 30-150 | 30 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 60.0 | 40.0 | 67 | 60.0 | 40.8 | 68 | 30-130 |
| 2-Fluorobiphenyl | 20.0 | 9.87 | 49 | 20.0 | 9.65 | 48 | 45-130 |
| 2-Fluorophenol | 60.0 | 31.4 | 52 | 60.0 | 28.5 | 47 | 20-130 |
| Nitrobenzene-d5 | 20.0 | 11.7 | 58 | 20.0 | 10.9 | 54 | 40-130 |
| Phenol-d5 | 60.0 | 35.6 | 59 | 60.0 | 33.3 | 56 | 20-120 |
| Terphenyl-d14 | 20.0 | 15.0 | 75 | 20.0 | 15.0 | 75 | 45-135 |

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-044-NBZ-SS-0.0-0.5 | Date Analyzed: 04/13/12 18:08 |
| Lab Samp ID: C305-03 | Dilution Factor: 5 |
| Lab File ID: RDH220 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 3.5 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 870 | 440 |
| 1,2-DICHLOROBENZENE | ND | 870 | 440 |
| 1,3-DICHLOROBENZENE | ND | 870 | 440 |
| 1,4-DICHLOROBENZENE | ND | 870 | 440 |
| 2,4,5-TRICHLOROPHENOL | ND | 870 | 440 |
| 2,4,6-TRICHLOROPHENOL | ND | 870 | 440 |
| 2,4-DICHLOROPHENOL | ND | 870 | 440 |
| 2,4-DIMETHYLPHENOL | ND | 870 | 440 |
| 2,4-DINITROPHENOL | ND | 1700 | 870 |
| 2,4-DINITROTOLUENE | ND | 870 | 440 |
| 2,6-DINITROTOLUENE | ND | 870 | 440 |
| 2-CHLORONAPHTHALENE | ND | 870 | 440 |
| 2-CHLOROPHENOL | ND | 870 | 440 |
| 2-METHYLNAPHTHALENE | ND | 870 | 440 |
| 2-METHYLPHENOL | ND | 870 | 440 |
| 2-NITROANILINE | ND | 870 | 440 |
| 2-NITROPHENOL | ND | 870 | 440 |
| 3,3'-DICHLOROBENZIDINE | ND | 870 | 440 |
| 3-NITROANILINE | ND | 870 | 440 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 1700 | 870 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 870 | 440 |
| 4-CHLORO-3-METHYLPHENOL | ND | 870 | 440 |
| 4-CHLOROANILINE | ND | 870 | 440 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 870 | 440 |
| 4-METHYLPHENOL (1) | ND | 870 | 440 |
| 4-NITROANILINE | ND | 870 | 440 |
| 4-NITROPHENOL | ND | 1700 | 870 |
| ACENAPHTHENE | ND | 870 | 440 |
| ACENAPHTHYLENE | ND | 870 | 440 |
| ANTHRACENE | ND | 870 | 440 |
| BENZO(A)ANTHRACENE | ND | 870 | 440 |
| BENZO(A)PYRENE | ND | 870 | 440 |
| BENZO(B)FLUORANTHENE | ND | 870 | 440 |
| BENZO(K)FLUORANTHENE | ND | 870 | 440 |
| BENZO(G,H,I)PERYLENE | ND | 870 | 440 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 870 | 440 |
| BIS(2-CHLOROETHYL)ETHER | ND | 870 | 440 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 870 | 440 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 870 | 440 |
| BUTYLBENZYLPHTHALATE | ND | 870 | 440 |
| CHRYSENE | ND | 870 | 440 |
| DI-N-BUTYLPHTHALATE | ND | 870 | 440 |
| DI-N-OCTYLPHTHALATE | ND | 870 | 440 |
| DIBENZO(A,H)ANTHRACENE | ND | 870 | 440 |
| DIBENZOFURAN | ND | 870 | 440 |
| DIETHYLPHTHALATE | ND | 870 | 440 |
| DIMETHYLPHTHALATE | ND | 870 | 440 |
| FLUORANTHENE | ND | 870 | 440 |
| FLUORENE | ND | 870 | 440 |
| HEXACHLOROBENZENE | ND | 870 | 440 |
| HEXACHLOROBUTADIENE | ND | 870 | 440 |
| HEXACHLOROCYCLOPENTADIENE | ND | 870 | 440 |
| HEXACHLOROETHANE | ND | 870 | 440 |
| INDENO(1,2,3-CD)PYRENE | ND | 870 | 440 |
| ISOPHORONE | ND | 870 | 440 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 870 | 440 |
| N-NITROSODIPHENYLAMINE (2) | ND | 870 | 440 |
| NAPHTHALENE | ND | 870 | 440 |
| NITROBENZENE | ND | 870 | 440 |
| PENTACHLOROPHENOL | ND | 1700 | 870 |
| PHENANTHRENE | ND | 870 | 440 |
| PHENOL | ND | 870 | 440 |
| PYRENE | ND | 870 | 440 |
| BENZYL ALCOHOL | ND | 870 | 440 |
| 1-METHYLNAPHTHALENE | ND | 870 | 440 |
| 1,2-DIPHENYLHYDRAZINE | ND | 870 | 440 |
| 3,5-DIMETHYLPHENOL | ND | 870 | 440 |
| ANILINE | ND | 1700 | 870 |
| BENZIDINE | ND | 4300 | 2200 |
| BENZOIC ACID | ND | 3500 | 1700 |
| CARBAZOLE | ND | 870 | 440 |
| N-NITROSODIMETHYLAMINE | ND | 870 | 440 |
| TETRALIN | ND | 870 | 870 |
| 2-BUTOXYETHANOL | ND | 870 | 870 |
| 2-PHENOXYETHANOL | ND | 870 | 870 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 781 | 1036 | 75.4 | 35-130 |
| 2-FLUOROBIPHENYL | 250 | 345.4 | 72.3 | 45-130 |
| 2-FLUOROPHENOL | 759 | 1036 | 73.2 | 25-130 |
| NITROBENZENE-D5 | 244 | 345.4 | 70.8 | 40-130 |
| PHENOL-D5 | 827 | 1036 | 79.8 | 25-120 |
| TERPHENYL-D14 | 294 | 345.4 | 85.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-091-NBZ-SS-0.0-0.5 | Date Analyzed: 04/13/12 18:26 |
| Lab Samp ID: C305-04 | Dilution Factor: 1 |
| Lab File ID: RDH221 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 17.7 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 400 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 400 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 400 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 400 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 400 | 200 |
| BENZIDINE | ND | 1000 | 510 |
| BENZOIC ACID | ND | 810 | 410 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1100 | 1215 | 90.9 | 35-130 |
| 2-FLUOROBIPHENYL | 277 | 405.0 | 68.4 | 45-130 |
| 2-FLUOROPHENOL | 872 | 1215 | 71.8 | 25-130 |
| NITROBENZENE-D5 | 278 | 405.0 | 68.6 | 40-130 |
| PHENOL-D5 | 995 | 1215 | 81.9 | 25-120 |
| TERPHENYL-D14 | 363 | 405.0 | 89.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-092-NBZ-SS-0.0-0.5 | Date Analyzed: 04/13/12 18:45 |
| Lab Samp ID: C305-05 | Dilution Factor: 1 |
| Lab File ID: RDH222 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 14.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 98 |
| 1,2-DICHLOROBENZENE | ND | 200 | 98 |
| 1,3-DICHLOROBENZENE | ND | 200 | 98 |
| 1,4-DICHLOROBENZENE | ND | 200 | 98 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 98 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 98 |
| 2,4-DICHLOROPHENOL | ND | 200 | 98 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 98 |
| 2,4-DINITROPHENOL | ND | 390 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 98 |
| 2,6-DINITROTOLUENE | ND | 200 | 98 |
| 2-CHLORONAPHTHALENE | ND | 200 | 98 |
| 2-CHLOROPHENOL | ND | 200 | 98 |
| 2-METHYLNAPHTHALENE | ND | 200 | 98 |
| 2-METHYLPHENOL | ND | 200 | 98 |
| 2-NITROANILINE | ND | 200 | 98 |
| 2-NITROPHENOL | ND | 200 | 98 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 98 |
| 3-NITROANILINE | ND | 200 | 98 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 98 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 98 |
| 4-CHLOROANILINE | ND | 200 | 98 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 98 |
| 4-METHYLPHENOL (1) | ND | 200 | 98 |
| 4-NITROANILINE | ND | 200 | 98 |
| 4-NITROPHENOL | ND | 390 | 200 |
| ACENAPHTHENE | ND | 200 | 98 |
| ACENAPHTHYLENE | ND | 200 | 98 |
| ANTHRACENE | ND | 200 | 98 |
| BENZO(A)ANTHRACENE | ND | 200 | 98 |
| BENZO(A)PYRENE | ND | 200 | 98 |
| BENZO(B)FLUORANTHENE | ND | 200 | 98 |
| BENZO(K)FLUORANTHENE | ND | 200 | 98 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 98 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 98 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 98 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 98 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 98 |
| CHRYSENE | ND | 200 | 98 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 98 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 98 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 98 |
| DIBENZOFURAN | ND | 200 | 98 |
| DIETHYLPHTHALATE | ND | 200 | 98 |
| DIMETHYLPHTHALATE | ND | 200 | 98 |
| FLUORANTHENE | ND | 200 | 98 |
| FLUORENE | ND | 200 | 98 |
| HEXACHLOROBENZENE | ND | 200 | 98 |
| HEXACHLOROBUTADIENE | ND | 200 | 98 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 98 |
| HEXACHLOROETHANE | ND | 200 | 98 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 98 |
| ISOPHORONE | ND | 200 | 98 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 98 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 98 |
| NAPHTHALENE | ND | 200 | 98 |
| NITROBENZENE | ND | 200 | 98 |
| PENTACHLOROPHENOL | ND | 390 | 200 |
| PHENANTHRENE | ND | 200 | 98 |
| PHENOL | ND | 200 | 98 |
| PYRENE | ND | 200 | 98 |
| BENZYL ALCOHOL | ND | 200 | 98 |
| 1-METHYLNAPHTHALENE | ND | 200 | 98 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 98 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 98 |
| ANILINE | ND | 390 | 200 |
| BENZIDINE | ND | 970 | 490 |
| BENZOIC ACID | ND | 780 | 390 |
| CARBAZOLE | ND | 200 | 98 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 98 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 984 | 1171 | 84.0 | 35-130 |
| 2-FLUOROBIPHENYL | 253 | 390.3 | 64.9 | 45-130 |
| 2-FLUOROPHENOL | 824 | 1171 | 70.4 | 25-130 |
| NITROBENZENE-D5 | 257 | 390.3 | 65.9 | 40-130 |
| PHENOL-D5 | 940 | 1171 | 80.2 | 25-120 |
| TERPHENYL-D14 | 357 | 390.3 | 91.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-101-NBZ-SS-0.0-0.5 | Date Analyzed: 04/13/12 19:03 |
| Lab Samp ID: C305-06 | Dilution Factor: 1 |
| Lab File ID: RDH223 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 12.5 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 96 |
| 1,2-DICHLOROBENZENE | ND | 190 | 96 |
| 1,3-DICHLOROBENZENE | ND | 190 | 96 |
| 1,4-DICHLOROBENZENE | ND | 190 | 96 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 96 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 96 |
| 2,6-DINITROTOLUENE | ND | 190 | 96 |
| 2-CHLORONAPHTHALENE | ND | 190 | 96 |
| 2-CHLOROPHENOL | ND | 190 | 96 |
| 2-METHYLNAPHTHALENE | ND | 190 | 96 |
| 2-METHYLPHENOL | ND | 190 | 96 |
| 2-NITROANILINE | ND | 190 | 96 |
| 2-NITROPHENOL | ND | 190 | 96 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 96 |
| 3-NITROANILINE | ND | 190 | 96 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 96 |
| 4-CHLOROANILINE | ND | 190 | 96 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-METHYLPHENOL (1) | ND | 190 | 96 |
| 4-NITROANILINE | ND | 190 | 96 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 96 |
| ACENAPHTHYLENE | ND | 190 | 96 |
| ANTHRACENE | ND | 190 | 96 |
| BENZO(A)ANTHRACENE | ND | 190 | 96 |
| BENZO(A)PYRENE | ND | 190 | 96 |
| BENZO(B)FLUORANTHENE | ND | 190 | 96 |
| BENZO(K)FLUORANTHENE | ND | 190 | 96 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 96 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 96 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 96 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 96 |
| CHRYSENE | ND | 190 | 96 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 96 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 96 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 96 |
| DIBENZOFURAN | ND | 190 | 96 |
| DIETHYLPHTHALATE | ND | 190 | 96 |
| DIMETHYLPHTHALATE | ND | 190 | 96 |
| FLUORANTHENE | ND | 190 | 96 |
| FLUORENE | ND | 190 | 96 |
| HEXACHLOROBENZENE | ND | 190 | 96 |
| HEXACHLOROBUTADIENE | ND | 190 | 96 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 96 |
| HEXACHLOROETHANE | ND | 190 | 96 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 96 |
| ISOPHORONE | ND | 190 | 96 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 96 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 96 |
| NAPHTHALENE | ND | 190 | 96 |
| NITROBENZENE | ND | 190 | 96 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 96 |
| PHENOL | ND | 190 | 96 |
| PYRENE | ND | 190 | 96 |
| BENZYL ALCOHOL | ND | 190 | 96 |
| 1-METHYLNAPHTHALENE | ND | 190 | 96 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 96 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 96 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 950 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 96 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 96 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1060 | 1143 | 92.6 | 35-130 |
| 2-FLUOROBIPHENYL | 268 | 380.9 | 70.3 | 45-130 |
| 2-FLUOROPHENOL | 753 | 1143 | 65.9 | 25-130 |
| NITROBENZENE-D5 | 256 | 380.9 | 67.3 | 40-130 |
| PHENOL-D5 | 871 | 1143 | 76.2 | 25-120 |
| TERPHENYL-D14 | 343 | 380.9 | 89.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-103-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 03:08 |
| Lab Samp ID: C305-07 | Dilution Factor: 1 |
| Lab File ID: RDH251 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 12.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 96 |
| 1,2-DICHLOROBENZENE | ND | 190 | 96 |
| 1,3-DICHLOROBENZENE | ND | 190 | 96 |
| 1,4-DICHLOROBENZENE | ND | 190 | 96 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 96 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 96 |
| 2,6-DINITROTOLUENE | ND | 190 | 96 |
| 2-CHLORONAPHTHALENE | ND | 190 | 96 |
| 2-CHLOROPHENOL | ND | 190 | 96 |
| 2-METHYLNAPHTHALENE | ND | 190 | 96 |
| 2-METHYLPHENOL | ND | 190 | 96 |
| 2-NITROANILINE | ND | 190 | 96 |
| 2-NITROPHENOL | ND | 190 | 96 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 96 |
| 3-NITROANILINE | ND | 190 | 96 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 96 |
| 4-CHLOROANILINE | ND | 190 | 96 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-METHYLPHENOL (1) | ND | 190 | 96 |
| 4-NITROANILINE | ND | 190 | 96 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 96 |
| ACENAPHTHYLENE | ND | 190 | 96 |
| ANTHRACENE | ND | 190 | 96 |
| BENZO(A)ANTHRACENE | ND | 190 | 96 |
| BENZO(A)PYRENE | ND | 190 | 96 |
| BENZO(B)FLUORANTHENE | ND | 190 | 96 |
| BENZO(K)FLUORANTHENE | ND | 190 | 96 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 96 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 96 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 96 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 96 |
| CHRYSENE | ND | 190 | 96 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 96 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 96 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 96 |
| DIBENZOFURAN | ND | 190 | 96 |
| DIETHYLPHTHALATE | ND | 190 | 96 |
| DIMETHYLPHTHALATE | ND | 190 | 96 |
| FLUORANTHENE | ND | 190 | 96 |
| FLUORENE | ND | 190 | 96 |
| HEXACHLOROBENZENE | ND | 190 | 96 |
| HEXACHLOROBUTADIENE | ND | 190 | 96 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 96 |
| HEXACHLOROETHANE | ND | 190 | 96 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 96 |
| ISOPHORONE | ND | 190 | 96 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 96 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 96 |
| NAPHTHALENE | ND | 190 | 96 |
| NITROBENZENE | ND | 190 | 96 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 96 |
| PHENOL | ND | 190 | 96 |
| PYRENE | ND | 190 | 96 |
| BENZYL ALCOHOL | ND | 190 | 96 |
| 1-METHYLNAPHTHALENE | ND | 190 | 96 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 96 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 96 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 950 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 96 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 96 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 998 | 1147 | 87.0 | 35-130 |
| 2-FLUOROBIPHENYL | 288 | 382.2 | 75.4 | 45-130 |
| 2-FLUOROPHENOL | 942 | 1147 | 82.1 | 25-130 |
| NITROBENZENE-D5 | 292 | 382.2 | 76.5 | 40-130 |
| PHENOL-D5 | 1040 | 1147 | 91.0 | 25-120 |
| TERPHENYL-D14 | 358 | 382.2 | 93.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-118-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 03:27 |
| Lab Samp ID: C305-08 | Dilution Factor: 1 |
| Lab File ID: RDH252 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 8.9 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 370 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 814 | 1098 | 74.1 | 35-130 |
| 2-FLUOROBIPHENYL | 223 | 365.9 | 61.0 | 45-130 |
| 2-FLUOROPHENOL | 748 | 1098 | 68.1 | 25-130 |
| NITROBENZENE-D5 | 223 | 365.9 | 61.1 | 40-130 |
| PHENOL-D5 | 849 | 1098 | 77.3 | 25-120 |
| TERPHENYL-D14 | 292 | 365.9 | 79.8 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 03:46 |
| Lab Samp ID: C305-09 | Dilution Factor: 1 |
| Lab File ID: RDH253 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 7.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 450 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 869 | 1082 | 80.3 | 35-130 |
| 2-FLUOROBIPHENYL | 228 | 360.7 | 63.1 | 45-130 |
| 2-FLUOROPHENOL | 791 | 1082 | 73.1 | 25-130 |
| NITROBENZENE-D5 | 235 | 360.7 | 65.1 | 40-130 |
| PHENOL-D5 | 881 | 1082 | 81.4 | 25-120 |
| TERPHENYL-D14 | 309 | 360.7 | 85.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-197-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 04:05 |
| Lab Samp ID: C305-10 | Dilution Factor: 1 |
| Lab File ID: RDH254 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 13.9 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 98 |
| 1,2-DICHLOROBENZENE | ND | 190 | 98 |
| 1,3-DICHLOROBENZENE | ND | 190 | 98 |
| 1,4-DICHLOROBENZENE | ND | 190 | 98 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 98 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 98 |
| 2,4-DICHLOROPHENOL | ND | 190 | 98 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 98 |
| 2,4-DINITROPHENOL | ND | 390 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 98 |
| 2,6-DINITROTOLUENE | ND | 190 | 98 |
| 2-CHLORONAPHTHALENE | ND | 190 | 98 |
| 2-CHLOROPHENOL | ND | 190 | 98 |
| 2-METHYLNAPHTHALENE | ND | 190 | 98 |
| 2-METHYLPHENOL | ND | 190 | 98 |
| 2-NITROANILINE | ND | 190 | 98 |
| 2-NITROPHENOL | ND | 190 | 98 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 98 |
| 3-NITROANILINE | ND | 190 | 98 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 98 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 98 |
| 4-CHLOROANILINE | ND | 190 | 98 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 98 |
| 4-METHYLPHENOL (1) | ND | 190 | 98 |
| 4-NITROANILINE | ND | 190 | 98 |
| 4-NITROPHENOL | ND | 390 | 190 |
| ACENAPHTHENE | ND | 190 | 98 |
| ACENAPHTHYLENE | ND | 190 | 98 |
| ANTHRACENE | ND | 190 | 98 |
| BENZO(A)ANTHRACENE | ND | 190 | 98 |
| BENZO(A)PYRENE | ND | 190 | 98 |
| BENZO(B)FLUORANTHENE | ND | 190 | 98 |
| BENZO(K)FLUORANTHENE | ND | 190 | 98 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 98 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 98 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 98 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 98 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 98 |
| CHRYSENE | ND | 190 | 98 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 98 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 98 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 98 |
| DIBENZOFURAN | ND | 190 | 98 |
| DIETHYLPHTHALATE | ND | 190 | 98 |
| DIMETHYLPHTHALATE | ND | 190 | 98 |
| FLUORANTHENE | ND | 190 | 98 |
| FLUORENE | ND | 190 | 98 |
| HEXACHLOROBENZENE | ND | 190 | 98 |
| HEXACHLOROBUTADIENE | ND | 190 | 98 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 98 |
| HEXACHLOROETHANE | ND | 190 | 98 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 98 |
| ISOPHORONE | ND | 190 | 98 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 98 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 98 |
| NAPHTHALENE | ND | 190 | 98 |
| NITROBENZENE | ND | 190 | 98 |
| PENTACHLOROPHENOL | ND | 390 | 190 |
| PHENANTHRENE | ND | 190 | 98 |
| PHENOL | ND | 190 | 98 |
| PYRENE | ND | 190 | 98 |
| BENZYL ALCOHOL | ND | 190 | 98 |
| 1-METHYLNAPHTHALENE | ND | 190 | 98 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 98 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 98 |
| ANILINE | ND | 390 | 190 |
| BENZIDINE | ND | 960 | 490 |
| BENZOIC ACID | ND | 770 | 390 |
| CARBAZOLE | ND | 190 | 98 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 98 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 735 | 1161 | 63.2 | 35-130 |
| 2-FLUOROBIPHENYL | 202 | 387.1 | 52.2 | 45-130 |
| 2-FLUOROPHENOL | 654 | 1161 | 56.3 | 25-130 |
| NITROBENZENE-D5 | 195 | 387.1 | 50.4 | 40-130 |
| PHENOL-D5 | 744 | 1161 | 64.0 | 25-120 |
| TERPHENYL-D14 | 263 | 387.1 | 68.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-091-NBZ-SB-4.0-5.0 | Date Analyzed: 04/19/12 10:03 |
| Lab Samp ID: C305-12W | Dilution Factor: 1 |
| Lab File ID: RDH306 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 18.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 210 | 100 |
| 1,2-DICHLOROBENZENE | ND | 210 | 100 |
| 1,3-DICHLOROBENZENE | ND | 210 | 100 |
| 1,4-DICHLOROBENZENE | ND | 210 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 210 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 210 | 100 |
| 2,4-DICHLOROPHENOL | ND | 210 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 210 | 100 |
| 2,4-DINITROPHENOL | ND | 410 | 210 |
| 2,4-DINITROTOLUENE | ND | 210 | 100 |
| 2,6-DINITROTOLUENE | ND | 210 | 100 |
| 2-CHLORONAPHTHALENE | ND | 210 | 100 |
| 2-CHLOROPHENOL | ND | 210 | 100 |
| 2-METHYLNAPHTHALENE | ND | 210 | 100 |
| 2-METHYLPHENOL | ND | 210 | 100 |
| 2-NITROANILINE | ND | 210 | 100 |
| 2-NITROPHENOL | ND | 210 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 210 | 100 |
| 3-NITROANILINE | ND | 210 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 410 | 210 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 210 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 210 | 100 |
| 4-CHLOROANILINE | ND | 210 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 210 | 100 |
| 4-METHYLPHENOL (1) | ND | 210 | 100 |
| 4-NITROANILINE | ND | 210 | 100 |
| 4-NITROPHENOL | ND | 410 | 210 |
| ACENAPHTHENE | ND | 210 | 100 |
| ACENAPHTHYLENE | ND | 210 | 100 |
| ANTHRACENE | ND | 210 | 100 |
| BENZO(A)ANTHRACENE | ND | 210 | 100 |
| BENZO(A)PYRENE | ND | 210 | 100 |
| BENZO(B)FLUORANTHENE | ND | 210 | 100 |
| BENZO(K)FLUORANTHENE | ND | 210 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 210 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 210 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 210 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 210 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 210 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 210 | 100 |
| CHRYSENE | ND | 210 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 210 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 210 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 210 | 100 |
| DIBENZOFURAN | ND | 210 | 100 |
| DIETHYLPHTHALATE | ND | 210 | 100 |
| DIMETHYLPHTHALATE | ND | 210 | 100 |
| FLUORANTHENE | ND | 210 | 100 |
| FLUORENE | ND | 210 | 100 |
| HEXACHLOROBENZENE | ND | 210 | 100 |
| HEXACHLOROBUTADIENE | ND | 210 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 210 | 100 |
| HEXACHLOROETHANE | ND | 210 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 210 | 100 |
| ISOPHORONE | ND | 210 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 210 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 210 | 100 |
| NAPHTHALENE | ND | 210 | 100 |
| NITROBENZENE | ND | 210 | 100 |
| PENTACHLOROPHENOL | ND | 410 | 210 |
| PHENANTHRENE | ND | 210 | 100 |
| PHENOL | ND | 210 | 100 |
| PYRENE | ND | 210 | 100 |
| BENZYL ALCOHOL | ND | 210 | 100 |
| 1-METHYLNAPHTHALENE | ND | 210 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 210 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 210 | 100 |
| ANILINE | ND | 410 | 210 |
| BENZIDINE | ND | 1000 | 520 |
| BENZOIC ACID | ND | 820 | 410 |
| CARBAZOLE | ND | 210 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 210 | 100 |
| TETRALIN | ND | 210 | 210 |
| 2-BUTOXYETHANOL | ND | 210 | 210 |
| 2-PHENOXYETHANOL | ND | 210 | 210 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 706 | 1229 | 57.5 | 35-130 |
| 2-FLUOROBIPHENYL | 223 | 409.5 | 54.5 | 45-130 |
| 2-FLUOROPHENOL | 784 | 1229 | 63.8 | 25-130 |
| NITROBENZENE-D5 | 228 | 409.5 | 55.7 | 40-130 |
| PHENOL-D5 | 869 | 1229 | 70.8 | 25-120 |
| TERPHENYL-D14 | 302 | 409.5 | 73.8 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: DUP-05-NBZ-QC-032912 | Date Analyzed: 04/17/12 04:42 |
| Lab Samp ID: C305-13 | Dilution Factor: 1 |
| Lab File ID: RDH256 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 15.9 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 400 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 400 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 400 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 400 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 400 | 200 |
| BENZIDINE | ND | 990 | 500 |
| BENZOIC ACID | ND | 790 | 400 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 747 | 1189 | 62.8 | 35-130 |
| 2-FLUOROBIPHENYL | 206 | 396.3 | 51.9 | 45-130 |
| 2-FLUOROPHENOL | 720 | 1189 | 60.5 | 25-130 |
| NITROBENZENE-D5 | 214 | 396.3 | 54.1 | 40-130 |
| PHENOL-D5 | 787 | 1189 | 66.2 | 25-120 |
| TERPHENYL-D14 | 270 | 396.3 | 68.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: DUP-04-NBZ-QC-032912 | Date Analyzed: 04/17/12 05:01 |
| Lab Samp ID: C305-14 | Dilution Factor: 1 |
| Lab File ID: RDH257 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 8.7 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 370 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 898 | 1095 | 82.0 | 35-130 |
| 2-FLUOROBIPHENYL | 229 | 365.1 | 62.7 | 45-130 |
| 2-FLUOROPHENOL | 765 | 1095 | 69.9 | 25-130 |
| NITROBENZENE-D5 | 228 | 365.1 | 62.3 | 40-130 |
| PHENOL-D5 | 842 | 1095 | 76.9 | 25-120 |
| TERPHENYL-D14 | 331 | 365.1 | 90.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: MBLK1S | Date Analyzed: 04/13/12 09:49 |
| Lab Samp ID: SVD019SB | Dilution Factor: 1 |
| Lab File ID: RDH193 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : NA |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 883 | 1000 | 88.3 | 35-130 |
| 2-FLUOROBIPHENYL | 255 | 333.3 | 76.4 | 45-130 |
| 2-FLUOROPHENOL | 791 | 1000 | 79.1 | 25-130 |
| NITROBENZENE-D5 | 248 | 333.3 | 74.5 | 40-130 |
| PHENOL-D5 | 880 | 1000 | 88.0 | 25-120 |
| TERPHENYL-D14 | 365 | 333.3 | 110 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: 14.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-092-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C305-05 | C305-05M | C305-05S | | |
| LAB FILE ID: | RDH222 | RDH200 | RDH201 | | |
| DATE EXTRACTED: | 04/10/1214:11 | 04/10/1214:11 | 04/10/1214:11 | DATE COLLECTED: | 03/29/12 |
| DATE ANALYZED: | 04/13/1218:45 | 04/13/1211:58 | 04/13/1212:17 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | SVD019S | SVD019S | SVD019S | | |
| CALIB. REF: | RCH007 | RCH007 | RCH007 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 781 | 421 | 54 | 781 | 434 | 56 | 3 | 10-130 | 50 |
| 1,2-Dichlorobenzene | ND | 781 | 282 | 36 | 781 | 331 | 42 | 16 | 30-130 | 50 |
| 1,3-Dichlorobenzene | ND | 781 | 220 | 28* | 781 | 271 | 35 | 21 | 30-130 | 50 |
| 1,4-Dichlorobenzene | ND | 781 | 245 | 31 | 781 | 287 | 37 | 16 | 10-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 781 | 671 | 86 | 781 | 697 | 89 | 4 | 30-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 781 | 712 | 91 | 781 | 717 | 92 | 1 | 30-130 | 50 |
| 2,4-Dichlorophenol | ND | 781 | 630 | 81 | 781 | 625 | 80 | 1 | 30-130 | 50 |
| 2,4-Dimethylphenol | ND | 781 | 583 | 75 | 781 | 579 | 74 | 1 | 30-130 | 50 |
| 2,4-Dinitrophenol | ND | 781 | 626 | 80 | 781 | 608 | 78 | 3 | 10-130 | 50 |
| 2,4-Dinitrotoluene | ND | 781 | 790 | 101 | 781 | 798 | 102 | 1 | 20-130 | 50 |
| 2,6-Dinitrotoluene | ND | 781 | 771 | 99 | 781 | 783 | 100 | 2 | 30-130 | 50 |
| 2-Chloronaphthalene | ND | 781 | 566 | 72 | 781 | 567 | 73 | 0 | 30-130 | 50 |
| 2-Chlorophenol | ND | 781 | 595 | 76 | 781 | 600 | 77 | 1 | 20-130 | 50 |
| 2-Methylnaphthalene | ND | 781 | 712 | 91 | 781 | 652 | 84 | 9 | 30-130 | 50 |
| 2-Methylphenol | ND | 781 | 597 | 76 | 781 | 586 | 75 | 2 | 30-130 | 50 |
| 2-Nitroaniline | ND | 781 | 669 | 86 | 781 | 698 | 89 | 4 | 30-130 | 50 |
| 2-Nitrophenol | ND | 781 | 645 | 83 | 781 | 647 | 83 | 0 | 30-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 781 | 589 | 75 | 781 | 577 | 74 | 2 | 30-130 | 50 |
| 3-Nitroaniline | ND | 781 | 676 | 87 | 781 | 700 | 90 | 3 | 30-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 781 | 691 | 89 | 781 | 711 | 91 | 3 | 30-130 | 50 |
| 4-Bromophenyl-phenylether | ND | 781 | 754 | 97 | 781 | 792 | 101 | 5 | 30-130 | 50 |
| 4-Chloro-3-Methylphenol | ND | 781 | 659 | 84 | 781 | 669 | 86 | 1 | 20-130 | 50 |
| 4-Chloroaniline | ND | 781 | 609 | 78 | 781 | 605 | 78 | 1 | 30-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 781 | 702 | 90 | 781 | 710 | 91 | 1 | 30-130 | 50 |
| 4-Methylphenol | ND | 781 | 589 | 75 | 781 | 580 | 74 | 2 | 20-130 | 50 |
| 4-Nitroaniline | ND | 781 | 751 | 96 | 781 | 751 | 96 | 0 | 40-130 | 50 |
| 4-Nitrophenol | ND | 781 | 613 | 78 | 781 | 608 | 78 | 1 | 10-130 | 50 |
| Acenaphthene | ND | 781 | 716 | 92 | 781 | 723 | 93 | 1 | 20-130 | 50 |
| Acenaphthylene | ND | 781 | 714 | 91 | 781 | 717 | 92 | 0 | 20-130 | 50 |
| Anthracene | ND | 781 | 648 | 83 | 781 | 665 | 85 | 3 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 781 | 723 | 93 | 781 | 761 | 97 | 5 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 781 | 673 | 86 | 781 | 703 | 90 | 4 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 781 | 729 | 93 | 781 | 780 | 100 | 7 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 781 | 737 | 94 | 781 | 772 | 99 | 5 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 781 | 706 | 90 | 781 | 792 | 101 | 11 | 30-130 | 50 |
| bis(2-Chloroethoxy)methane | ND | 781 | 676 | 87 | 781 | 675 | 86 | 0 | 30-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 781 | 570 | 73 | 781 | 589 | 75 | 3 | 30-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 781 | 547 | 70 | 781 | 572 | 73 | 4 | 20-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 781 | 740 | 95 | 781 | 770 | 99 | 4 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 781 | 754 | 97 | 781 | 798 | 102 | 6 | 30-130 | 50 |
| Chrysene | ND | 781 | 746 | 96 | 781 | 781 | 100 | 5 | 30-130 | 50 |
| Di-n-butylphthalate | ND | 781 | 704 | 90 | 781 | 727 | 93 | 3 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 781 | 702 | 90 | 781 | 794 | 102 | 12 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 781 | 748 | 96 | 781 | 799 | 102 | 7 | 30-130 | 50 |
| Dibenzofuran | ND | 781 | 686 | 88 | 781 | 692 | 89 | 1 | 30-130 | 50 |
| Diethylphthalate | ND | 781 | 688 | 88 | 781 | 708 | 91 | 3 | 30-130 | 50 |
| Dimethylphthalate | ND | 781 | 690 | 88 | 781 | 709 | 91 | 3 | 30-130 | 50 |
| Fluoranthene | ND | 781 | 747 | 96 | 781 | 750 | 96 | 0 | 30-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 781 | 737 | 94 | 781 | 755 | 97 | 2 | 20-130 | 50 |
| Hexachlorobenzene | ND | 781 | 683 | 88 | 781 | 725 | 93 | 6 | 10-160 | 50 |
| Hexachlorobutadiene | ND | 781 | 374 | 48 | 781 | 403 | 52 | 7 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 781 | 305 | 39 | 781 | 308 | 39 | 1 | 10-130 | 50 |
| Hexachloroethane | ND | 781 | 182J | 23 | 781 | 248 | 32 | 31 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 781 | 710 | 91 | 781 | 765 | 98 | 8 | 20-130 | 50 |
| Isophorone | ND | 781 | 650 | 83 | 781 | 651 | 83 | 0 | 30-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 781 | 544 | 70 | 781 | 550 | 70 | 1 | 20-130 | 50 |
| n-Nitrosodiphenylamine | ND | 781 | 508 | 65 | 781 | 534 | 68 | 5 | 20-140 | 50 |
| Naphthalene | ND | 781 | 568 | 73 | 781 | 590 | 76 | 4 | 30-130 | 50 |
| Nitrobenzene | ND | 781 | 567 | 73 | 781 | 588 | 75 | 4 | 30-130 | 50 |
| Pentachlorophenol | ND | 781 | 775 | 99 | 781 | 802 | 103 | 4 | 10-130 | 50 |
| Phenanthrene | ND | 781 | 681 | 87 | 781 | 712 | 91 | 5 | 20-130 | 50 |
| Phenol | ND | 781 | 633 | 81 | 781 | 625 | 80 | 1 | 20-130 | 50 |
| Pyrene | ND | 781 | 656 | 84 | 781 | 696 | 89 | 6 | 10-160 | 50 |
| Benzyl Alcohol | ND | 781 | 654 | 84 | 781 | 649 | 83 | 1 | 30-130 | 50 |
| 1-Methylnaphthalene | ND | 781 | 664 | 85 | 781 | 670 | 86 | 1 | 20-130 | 50 |
| 1,2-Diphenylhydrazine | ND | 781 | 608 | 78 | 781 | 642 | 82 | 5 | 20-150 | 50 |
| 3,5-Dimethylphenol | ND | 781 | 660 | 85 | 781 | 576 | 74 | 14 | 20-130 | 50 |
| Aniline | ND | 781 | 419 | 54 | 781 | 411 | 53 | 2 | 10-150 | 50 |
| Benzidine | ND | 3120 | 249J | 8* | 3120 | 207J | 7* | 18 | 10-150 | 50 |
| Benzoic Acid | ND | 3120 | 2230 | 72 | 3120 | 1790 | 57 | 22 | 10-130 | 50 |
| Carbazole | ND | 781 | 685 | 88 | 781 | 703 | 90 | 3 | 30-130 | 50 |
| N-Nitrosodimethylamine | ND | 781 | 717 | 92 | 781 | 720 | 92 | 0 | 20-130 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1170 | 1100 | 94 | 1170 | 1150 | 99 | 35-130 |
| 2-Fluorobiphenyl | 390 | 273 | 70 | 390 | 275 | 70 | 45-130 |
| 2-Fluorophenol | 1170 | 847 | 72 | 1170 | 842 | 72 | 25-130 |
| Nitrobenzene-d5 | 390 | 273 | 70 | 390 | 273 | 70 | 40-130 |
| Phenol-d5 | 1170 | 973 | 83 | 1170 | 961 | 82 | 25-120 |
| Terphenyl-d14 | 390 | 342 | 88 | 390 | 369 | 95 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: 8.9

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-118-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C305-08 | C305-08M | C305-08S | | |
| LAB FILE ID: | RDH252 | RDH204 | RDH205 | | |
| DATE EXTRACTED: | 04/10/1214:11 | 04/10/1214:11 | 04/10/1214:11 | DATE COLLECTED: | 03/29/12 |
| DATE ANALYZED: | 04/17/1203:27 | 04/13/1213:12 | 04/13/1213:31 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | SVD019S | SVD019S | SVD019S | | |
| CALIB. REF: | RCH007 | RCH007 | RCH007 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 732 | 480 | 66 | 732 | 399 | 55 | 18 | 10-130 | 50 |
| 1,2-Dichlorobenzene | ND | 732 | 385 | 53 | 732 | 336 | 46 | 13 | 30-130 | 50 |
| 1,3-Dichlorobenzene | ND | 732 | 330 | 45 | 732 | 293 | 40 | 12 | 30-130 | 50 |
| 1,4-Dichlorobenzene | ND | 732 | 346 | 47 | 732 | 306 | 42 | 12 | 10-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 732 | 678 | 93 | 732 | 601 | 82 | 12 | 30-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 732 | 731 | 100 | 732 | 642 | 88 | 13 | 30-130 | 50 |
| 2,4-Dichlorophenol | ND | 732 | 639 | 87 | 732 | 544 | 74 | 16 | 30-130 | 50 |
| 2,4-Dimethylphenol | ND | 732 | 600 | 82 | 732 | 522 | 71 | 14 | 30-130 | 50 |
| 2,4-Dinitrophenol | ND | 732 | 626 | 85 | 732 | 663 | 91 | 6 | 10-130 | 50 |
| 2,4-Dinitrotoluene | ND | 732 | 753 | 103 | 732 | 743 | 102 | 1 | 20-130 | 50 |
| 2,6-Dinitrotoluene | ND | 732 | 750 | 102 | 732 | 696 | 95 | 7 | 30-130 | 50 |
| 2-Chloronaphthalene | ND | 732 | 590 | 81 | 732 | 493 | 67 | 18 | 30-130 | 50 |
| 2-Chlorophenol | ND | 732 | 609 | 83 | 732 | 517 | 71 | 16 | 20-130 | 50 |
| 2-Methylnaphthalene | ND | 732 | 746 | 102 | 732 | 569 | 78 | 27 | 30-130 | 50 |
| 2-Methylphenol | ND | 732 | 596 | 81 | 732 | 518 | 71 | 14 | 30-130 | 50 |
| 2-Nitroaniline | ND | 732 | 691 | 94 | 732 | 649 | 89 | 6 | 30-130 | 50 |
| 2-Nitrophenol | ND | 732 | 679 | 93 | 732 | 571 | 78 | 17 | 30-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 732 | 480 | 66 | 732 | 413 | 56 | 15 | 30-130 | 50 |
| 3-Nitroaniline | ND | 732 | 651 | 89 | 732 | 649 | 89 | 0 | 30-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 732 | 704 | 96 | 732 | 705 | 96 | 0 | 30-130 | 50 |
| 4-Bromophenyl-phenylether | ND | 732 | 760 | 104 | 732 | 667 | 91 | 13 | 30-130 | 50 |
| 4-Chloro-3-Methylphenol | ND | 732 | 641 | 88 | 732 | 606 | 83 | 6 | 20-130 | 50 |
| 4-Chloroaniline | ND | 732 | 565 | 77 | 732 | 507 | 69 | 11 | 30-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 732 | 691 | 94 | 732 | 622 | 85 | 10 | 30-130 | 50 |
| 4-Methylphenol | ND | 732 | 583 | 80 | 732 | 505 | 69 | 14 | 20-130 | 50 |
| 4-Nitroaniline | ND | 732 | 701 | 96 | 732 | 729 | 100 | 4 | 40-130 | 50 |
| 4-Nitrophenol | ND | 732 | 558 | 76 | 732 | 607 | 83 | 8 | 10-130 | 50 |
| Acenaphthene | ND | 732 | 725 | 99 | 732 | 632 | 86 | 14 | 20-130 | 50 |
| Acenaphthylene | ND | 732 | 715 | 98 | 732 | 623 | 85 | 14 | 20-130 | 50 |
| Anthracene | ND | 732 | 641 | 88 | 732 | 597 | 82 | 7 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 732 | 703 | 96 | 732 | 668 | 91 | 5 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 732 | 664 | 91 | 732 | 622 | 85 | 7 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 732 | 750 | 102 | 732 | 700 | 96 | 7 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 732 | 684 | 93 | 732 | 655 | 90 | 4 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 732 | 741 | 101 | 732 | 683 | 93 | 8 | 30-130 | 50 |
| bis(2-Chloroethoxy)methane | ND | 732 | 692 | 95 | 732 | 577 | 79 | 18 | 30-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 732 | 632 | 86 | 732 | 516 | 71 | 20 | 30-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 732 | 623 | 85 | 732 | 513 | 70 | 19 | 20-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 732 | 733 | 100 | 732 | 691 | 94 | 6 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 732 | 752 | 103 | 732 | 719 | 98 | 4 | 30-130 | 50 |
| Chrysene | ND | 732 | 733 | 100 | 732 | 693 | 95 | 6 | 30-130 | 50 |
| Di-n-butylphthalate | ND | 732 | 683 | 93 | 732 | 663 | 91 | 3 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 732 | 685 | 94 | 732 | 666 | 91 | 3 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 732 | 748 | 102 | 732 | 684 | 93 | 9 | 30-130 | 50 |
| Dibenzofuran | ND | 732 | 685 | 94 | 732 | 603 | 82 | 13 | 30-130 | 50 |
| Diethylphthalate | ND | 732 | 662 | 90 | 732 | 630 | 86 | 5 | 30-130 | 50 |
| Dimethylphthalate | ND | 732 | 681 | 93 | 732 | 610 | 83 | 11 | 30-130 | 50 |
| Fluoranthene | ND | 732 | 703 | 96 | 732 | 701 | 96 | 0 | 30-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 732 | 720 | 98 | 732 | 663 | 91 | 8 | 20-130 | 50 |
| Hexachlorobenzene | ND | 732 | 687 | 94 | 732 | 603 | 82 | 13 | 10-160 | 50 |
| Hexachlorobutadiene | ND | 732 | 458 | 63 | 732 | 387 | 53 | 17 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 732 | 356 | 49 | 732 | 286 | 39 | 22 | 10-130 | 50 |
| Hexachloroethane | ND | 732 | 272 | 37 | 732 | 276 | 38 | 2 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 732 | 713 | 97 | 732 | 653 | 89 | 9 | 20-130 | 50 |
| Isophorone | ND | 732 | 726 | 99 | 732 | 560 | 77 | 26 | 30-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 732 | 554 | 76 | 732 | 461 | 63 | 18 | 20-130 | 50 |
| n-Nitrosodiphenylamine | ND | 732 | 516 | 70 | 732 | 463 | 63 | 11 | 20-140 | 50 |
| Naphthalene | ND | 732 | 636 | 87 | 732 | 539 | 74 | 17 | 30-130 | 50 |
| Nitrobenzene | ND | 732 | 612 | 84 | 732 | 519 | 71 | 16 | 30-130 | 50 |
| Pentachlorophenol | ND | 732 | 782 | 107 | 732 | 771 | 105 | 1 | 10-130 | 50 |
| Phenanthrene | ND | 732 | 676 | 92 | 732 | 627 | 86 | 7 | 20-130 | 50 |
| Phenol | ND | 732 | 631 | 86 | 732 | 542 | 74 | 15 | 20-130 | 50 |
| Pyrene | ND | 732 | 659 | 90 | 732 | 646 | 88 | 2 | 10-160 | 50 |
| Benzyl Alcohol | ND | 732 | 648 | 89 | 732 | 556 | 76 | 15 | 30-130 | 50 |
| 1-Methylnaphthalene | ND | 732 | 684 | 93 | 732 | 584 | 80 | 16 | 20-130 | 50 |
| 1,2-Diphenylhydrazine | ND | 732 | 619 | 85 | 732 | 529 | 72 | 16 | 20-150 | 50 |
| 3,5-Dimethylphenol | ND | 732 | 679 | 93 | 732 | 599 | 82 | 13 | 20-130 | 50 |
| Aniline | ND | 732 | 385 | 53 | 732 | 337J | 46 | 13 | 10-150 | 50 |
| Benzidine | ND | 2930 | 109J | 4* | 2930 | 106J | 4* | 3 | 10-150 | 50 |
| Benzoic Acid | ND | 2930 | 2140 | 73 | 2930 | 1890 | 65 | 12 | 10-130 | 50 |
| Carbazole | ND | 732 | 664 | 91 | 732 | 651 | 89 | 2 | 30-130 | 50 |
| N-Nitrosodimethylamine | ND | 732 | 741 | 101 | 732 | 622 | 85 | 17 | 20-130 | 50 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1100 | 1130 | 103 | 1100 | 1010 | 92 | 35-130 |
| 2-Fluorobiphenyl | 366 | 285 | 78 | 366 | 229 | 63 | 45-130 |
| 2-Fluorophenol | 1100 | 864 | 79 | 1100 | 701 | 64 | 25-130 |
| Nitrobenzene-d5 | 366 | 278 | 76 | 366 | 228 | 62 | 40-130 |
| Phenol-d5 | 1100 | 978 | 89 | 1100 | 798 | 73 | 25-120 |
| Terphenyl-d14 | 366 | 340 | 93 | 366 | 308 | 84 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-044-NBZ-SS-0.0-0.5 | Date Analyzed: 04/13/12 18:08 |
| Lab Samp ID: C305-03 | Dilution Factor: 5 |
| Lab File ID: RDH220 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 3.5 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 8.8 | 4.4 |
| ACENAPHTHYLENE | ND | 8.8 | 4.4 |
| ANTHRACENE | 8.9 | 8.8 | 4.4 |
| BENZO(A)ANTHRACENE | 68 | 8.8 | 4.4 |
| BENZO(A)PYRENE | 78 | 8.8 | 4.4 |
| BENZO(B)FLUORANTHENE | 120 | 8.8 | 4.4 |
| BENZO(K)FLUORANTHENE | 26 | 8.8 | 4.4 |
| BENZO(G,H,I)PERYLENE | 99 | 8.8 | 4.4 |
| CHRYSENE | 82 | 8.8 | 4.4 |
| DIBENZO(A,H)ANTHRACENE | 19 | 8.8 | 4.4 |
| FLUORANTHENE | 120 | 8.8 | 4.4 |
| FLUORENE | ND | 8.8 | 4.4 |
| INDENO(1,2,3-CD)PYRENE | 48 | 8.8 | 4.4 |
| NAPHTHALENE | ND | 8.8 | 4.4 |
| PHENANTHRENE | 50 | 8.8 | 4.4 |
| PYRENE | 100 | 8.8 | 4.4 |
| 2-METHYLNAPHTHALENE | ND | 8.8 | 4.4 |
| 1-METHYLNAPHTHALENE | ND | 8.8 | 4.4 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 340 | 87 | 44 |
| BUTYLBENZYLPHTHALATE | ND | 87 | 44 |
| DI-N-BUTYLPHTHALATE | ND | 87 | 44 |
| DI-N-OCTYLPHTHALATE | ND | 87 | 44 |
| DIETHYLPHTHALATE | ND | 87 | 44 |
| DIMETHYLPHTHALATE | ND | 87 | 44 |
| N-NITROSODIMETHYLAMINE | ND | 8.8 | 4.4 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 261 | 345.4 | 75.4 | 40-130 |
| 2-FLUOROBIPHENYL | 252 | 345.4 | 73.0 | 45-130 |
| TERPHENYL-D14 | 298 | 345.4 | 86.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-091-NBZ-SS-0.0-0.5 | Date Analyzed: 04/13/12 18:26 |
| Lab Samp ID: C305-04 | Dilution Factor: 1 |
| Lab File ID: RDH221 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 17.7 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.1 | 1.0 |
| ACENAPHTHYLENE | ND | 2.1 | 1.0 |
| ANTHRACENE | ND | 2.1 | 1.0 |
| BENZO(A)ANTHRACENE | ND | 2.1 | 1.0 |
| BENZO(A)PYRENE | ND | 2.1 | 1.0 |
| BENZO(B)FLUORANTHENE | 1.0J | 2.1 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.1 | 1.0 |
| BENZO(G,H,I)PERYLENE | ND | 2.1 | 1.0 |
| CHRYSENE | ND | 2.1 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.1 | 1.0 |
| FLUORANTHENE | ND | 2.1 | 1.0 |
| FLUORENE | ND | 2.1 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.1 | 1.0 |
| NAPHTHALENE | ND | 2.1 | 1.0 |
| PHENANTHRENE | ND | 2.1 | 1.0 |
| PYRENE | 1.2J | 2.1 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.1 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.1 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 17J | 20 | 10 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.1 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 301 | 405.0 | 74.3 | 40-130 |
| 2-FLUOROBIPHENYL | 302 | 405.0 | 74.7 | 45-130 |
| TERPHENYL-D14 | 340 | 405.0 | 83.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-092-NBZ-SS-0.0-0.5 | Date Analyzed: 04/13/12 18:45 |
| Lab Samp ID: C305-05 | Dilution Factor: 1 |
| Lab File ID: RDH222 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 14.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 1.0 |
| ACENAPHTHYLENE | ND | 2.0 | 1.0 |
| ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)PYRENE | ND | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 1.0 |
| CHRYSENE | ND | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 1.0 |
| FLUORANTHENE | ND | 2.0 | 1.0 |
| FLUORENE | ND | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 1.0 |
| NAPHTHALENE | ND | 2.0 | 1.0 |
| PHENANTHRENE | ND | 2.0 | 1.0 |
| PYRENE | ND | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 16J | 20 | 9.8 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 9.8 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 9.8 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 9.8 |
| DIETHYLPHTHALATE | ND | 20 | 9.8 |
| DIMETHYLPHTHALATE | ND | 20 | 9.8 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 284 | 390.3 | 72.7 | 40-130 |
| 2-FLUOROBIPHENYL | 284 | 390.3 | 72.8 | 45-130 |
| TERPHENYL-D14 | 319 | 390.3 | 81.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-101-NBZ-SS-0.0-0.5 | Date Analyzed: 04/13/12 19:03 |
| Lab Samp ID: C305-06 | Dilution Factor: 1 |
| Lab File ID: RDH223 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 12.5 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | 1.5J | 1.9 | 0.97 |
| ACENAPHTHYLENE | 1.7J | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | 1.4J | 1.9 | 0.97 |
| BENZO(A)PYRENE | 1.1J | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | 2.1 | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | 2.4 | 1.9 | 0.97 |
| CHRYSENE | 1.8J | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | 2.5 | 1.9 | 0.97 |
| FLUORENE | 1.5J | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | 1.8J | 1.9 | 0.97 |
| NAPHTHALENE | 3.8 | 1.9 | 0.97 |
| PHENANTHRENE | 2.6 | 1.9 | 0.97 |
| PYRENE | 2.3 | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | 2.8 | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | 2.3 | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 28 | 19 | 9.6 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.6 |
| DIETHYLPHTHALATE | ND | 19 | 9.6 |
| DIMETHYLPHTHALATE | ND | 19 | 9.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 280 | 380.9 | 73.5 | 40-130 |
| 2-FLUOROBIPHENYL | 283 | 380.9 | 74.3 | 45-130 |
| TERPHENYL-D14 | 328 | 380.9 | 86.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-103-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 03:08 |
| Lab Samp ID: C305-07 | Dilution Factor: 1 |
| Lab File ID: RDH251 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 12.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.97 |
| ACENAPHTHYLENE | ND | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)PYRENE | ND | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | 1.1J | 1.9 | 0.97 |
| CHRYSENE | ND | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | 1.1J | 1.9 | 0.97 |
| FLUORENE | ND | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.97 |
| NAPHTHALENE | ND | 1.9 | 0.97 |
| PHENANTHRENE | ND | 1.9 | 0.97 |
| PYRENE | 1.1J | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 33 | 19 | 9.6 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.6 |
| DIETHYLPHTHALATE | ND | 19 | 9.6 |
| DIMETHYLPHTHALATE | ND | 19 | 9.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 326 | 382.2 | 85.2 | 40-130 |
| 2-FLUOROBIPHENYL | 308 | 382.2 | 80.5 | 45-130 |
| TERPHENYL-D14 | 331 | 382.2 | 86.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-118-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 03:27 |
| Lab Samp ID: C305-08 | Dilution Factor: 1 |
| Lab File ID: RDH252 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 8.9 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)PYRENE | ND | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.93 |
| CHRYSENE | ND | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | ND | 1.9 | 0.93 |
| FLUORENE | ND | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | ND | 1.9 | 0.93 |
| PYRENE | ND | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 22 | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 251 | 365.9 | 68.5 | 40-130 |
| 2-FLUOROBIPHENYL | 240 | 365.9 | 65.7 | 45-130 |
| TERPHENYL-D14 | 282 | 365.9 | 77.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 03:46 |
| Lab Samp ID: C305-09 | Dilution Factor: 1 |
| Lab File ID: RDH253 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 7.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | ND | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | ND | 1.8 | 0.92 |
| PYRENE | ND | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 18J | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | 14J | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 261 | 360.7 | 72.2 | 40-130 |
| 2-FLUOROBIPHENYL | 250 | 360.7 | 69.4 | 45-130 |
| TERPHENYL-D14 | 293 | 360.7 | 81.4 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-197-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 04:05 |
| Lab Samp ID: C305-10 | Dilution Factor: 1 |
| Lab File ID: RDH254 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 13.9 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 0.99 |
| ACENAPHTHYLENE | ND | 2.0 | 0.99 |
| ANTHRACENE | ND | 2.0 | 0.99 |
| BENZO(A)ANTHRACENE | 1.9J | 2.0 | 0.99 |
| BENZO(A)PYRENE | 1.2J | 2.0 | 0.99 |
| BENZO(B)FLUORANTHENE | 1.8J | 2.0 | 0.99 |
| BENZO(K)FLUORANTHENE | 2.4 | 2.0 | 0.99 |
| BENZO(G,H,I)PERYLENE | 1.6J | 2.0 | 0.99 |
| CHRYSENE | 1.5J | 2.0 | 0.99 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 0.99 |
| FLUORANTHENE | 2.3 | 2.0 | 0.99 |
| FLUORENE | ND | 2.0 | 0.99 |
| INDENO(1,2,3-CD)PYRENE | 1.1J | 2.0 | 0.99 |
| NAPHTHALENE | ND | 2.0 | 0.99 |
| PHENANTHRENE | 1.1J | 2.0 | 0.99 |
| PYRENE | 2.1 | 2.0 | 0.99 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 30 | 19 | 9.8 |
| BUTYLBENZYLPHTHALATE | 25 | 19 | 9.8 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.8 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.8 |
| DIETHYLPHTHALATE | ND | 19 | 9.8 |
| DIMETHYLPHTHALATE | ND | 19 | 9.8 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 0.99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 213 | 387.1 | 55.1 | 40-130 |
| 2-FLUOROBIPHENYL | 212 | 387.1 | 54.8 | 45-130 |
| TERPHENYL-D14 | 250 | 387.1 | 64.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: SL-091-NBZ-SB-4.0-5.0 | Date Analyzed: 04/19/12 10:03 |
| Lab Samp ID: C305-12W | Dilution Factor: 1 |
| Lab File ID: RDH306 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 18.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.1 | 1.0 |
| ACENAPHTHYLENE | ND | 2.1 | 1.0 |
| ANTHRACENE | ND | 2.1 | 1.0 |
| BENZO(A)ANTHRACENE | ND | 2.1 | 1.0 |
| BENZO(A)PYRENE | ND | 2.1 | 1.0 |
| BENZO(B)FLUORANTHENE | ND | 2.1 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.1 | 1.0 |
| BENZO(G,H,I)PERYLENE | ND | 2.1 | 1.0 |
| CHRYSENE | ND | 2.1 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.1 | 1.0 |
| FLUORANTHENE | ND | 2.1 | 1.0 |
| FLUORENE | ND | 2.1 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.1 | 1.0 |
| NAPHTHALENE | ND | 2.1 | 1.0 |
| PHENANTHRENE | ND | 2.1 | 1.0 |
| PYRENE | ND | 2.1 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.1 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.1 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 13J | 21 | 10 |
| BUTYLBENZYLPHTHALATE | ND | 21 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 21 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 21 | 10 |
| DIETHYLPHTHALATE | ND | 21 | 10 |
| DIMETHYLPHTHALATE | ND | 21 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.1 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 251 | 409.5 | 61.4 | 40-130 |
| 2-FLUOROBIPHENYL | 241 | 409.5 | 58.8 | 45-130 |
| TERPHENYL-D14 | 275 | 409.5 | 67.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: DUP-05-NBZ-QC-032912 | Date Analyzed: 04/17/12 04:42 |
| Lab Samp ID: C305-13 | Dilution Factor: 1 |
| Lab File ID: RDH256 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 15.9 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 1.0 |
| ACENAPHTHYLENE | ND | 2.0 | 1.0 |
| ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)PYRENE | ND | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 1.0 |
| CHRYSENE | ND | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 1.0 |
| FLUORANTHENE | ND | 2.0 | 1.0 |
| FLUORENE | ND | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 1.0 |
| NAPHTHALENE | ND | 2.0 | 1.0 |
| PHENANTHRENE | ND | 2.0 | 1.0 |
| PYRENE | ND | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 17J | 20 | 10 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 236 | 396.3 | 59.5 | 40-130 |
| 2-FLUOROBIPHENYL | 221 | 396.3 | 55.8 | 45-130 |
| TERPHENYL-D14 | 272 | 396.3 | 68.7 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: DUP-04-NBZ-QC-032912 | Date Analyzed: 04/17/12 05:01 |
| Lab Samp ID: C305-14 | Dilution Factor: 1 |
| Lab File ID: RDH257 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : 8.7 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)PYRENE | ND | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.93 |
| CHRYSENE | ND | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | 1.2J | 1.9 | 0.93 |
| FLUORENE | ND | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | ND | 1.9 | 0.93 |
| PYRENE | 1.2J | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 21 | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 255 | 365.1 | 69.8 | 40-130 |
| 2-FLUOROBIPHENYL | 242 | 365.1 | 66.4 | 45-130 |
| TERPHENYL-D14 | 323 | 365.1 | 88.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 14:11 |
| Sample ID: MBLK1S | Date Analyzed: 04/13/12 09:49 |
| Lab Samp ID: SVD019SB | Dilution Factor: 1 |
| Lab File ID: RDH193 | Matrix : SOIL |
| Ext Btch ID: SVD019S | % Moisture : NA |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 277 | 333.3 | 83.2 | 40-130 |
| 2-FLUOROBIPHENYL | 277 | 333.3 | 83.2 | 45-130 |
| TERPHENYL-D14 | 331 | 333.3 | 99.3 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVD019SB | SVD019SX | SVD019SY | | |
| LAB FILE ID: | RDH193 | RDH196 | RDH197 | | |
| DATE EXTRACTED: | 04/10/1214:11 | 04/10/1214:11 | 04/10/1214:11 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/13/1209:49 | 04/13/1210:44 | 04/13/1211:03 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | SVD019S | SVD019S | SVD019S | | |
| CALIB. REF: | RCH007 | RCH007 | RCH007 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 356 | 107 | 333 | 374 | 112 | 5 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 381 | 114 | 333 | 399 | 120 | 5 | 20-130 | 50 |
| Anthracene | ND | 333 | 302 | 91 | 333 | 320 | 96 | 6 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 316 | 95 | 333 | 334 | 100 | 6 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 342 | 103 | 333 | 364 | 109 | 6 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 373 | 112 | 333 | 392 | 118 | 5 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 365 | 110 | 333 | 395 | 119 | 8 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 398 | 120 | 333 | 429 | 129 | 7 | 30-140 | 50 |
| Chrysene | ND | 333 | 310 | 93 | 333 | 329 | 99 | 6 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 378 | 114 | 333 | 406 | 122 | 7 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 340 | 102 | 333 | 360 | 108 | 6 | 30-130 | 50 |
| Fluorene | ND | 333 | 365 | 109 | 333 | 380 | 114 | 4 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 381 | 114 | 333 | 409 | 123 | 7 | 20-160 | 50 |
| Naphthalene | ND | 333 | 324 | 97 | 333 | 334 | 100 | 3 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 301 | 90 | 333 | 316 | 95 | 5 | 20-130 | 50 |
| Pyrene | ND | 333 | 322 | 97 | 333 | 341 | 102 | 6 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 330 | 99 | 333 | 343 | 103 | 4 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 342 | 102 | 333 | 355 | 107 | 4 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 299 | 90 | 333 | 311 | 93 | 4 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 290 | 87 | 333 | 306 | 92 | 5 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 298 | 90 | 333 | 317 | 95 | 6 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 302 | 91 | 333 | 319 | 96 | 5 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 337 | 101 | 333 | 352 | 106 | 4 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 353 | 106 | 333 | 366 | 110 | 4 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 372 | 112 | 333 | 388 | 116 | 4 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 290 | 87 | 333 | 282 | 85 | 40-130 |
| 2-Fluorobiphenyl | 333 | 295 | 88 | 333 | 287 | 86 | 45-130 |
| Terphenyl-d14 | 333 | 316 | 95 | 333 | 311 | 93 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: 14.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-092-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C305-05 | C305-05M | C305-05S | | |
| LAB FILE ID: | RDH222 | RDH202 | RDH203 | | |
| DATE EXTRACTED: | 04/10/1214:11 | 04/10/1214:11 | 04/10/1214:11 | DATE COLLECTED: | 03/29/12 |
| DATE ANALYZED: | 04/13/1218:45 | 04/13/1212:35 | 04/13/1212:54 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | SVD019S | SVD019S | SVD019S | | |
| CALIB. REF: | RCH007 | RCH007 | RCH007 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 390 | 351 | 90 | 390 | 299 | 77 | 16 | 10-130 | 50 |
| Acenaphthylene | ND | 390 | 376 | 96 | 390 | 319 | 82 | 16 | 20-130 | 50 |
| Anthracene | ND | 390 | 301 | 77 | 390 | 271 | 69 | 10 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 390 | 341 | 87 | 390 | 289 | 74 | 17 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 390 | 340 | 87 | 390 | 306 | 79 | 10 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 390 | 380 | 97 | 390 | 348 | 89 | 9 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 390 | 373 | 96 | 390 | 339 | 87 | 10 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 390 | 401 | 103 | 390 | 373 | 96 | 7 | 30-140 | 50 |
| Chrysene | ND | 390 | 337 | 86 | 390 | 285 | 73 | 17 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 390 | 394 | 101 | 390 | 359 | 92 | 9 | 30-130 | 50 |
| Fluoranthene | ND | 390 | 355 | 91 | 390 | 316 | 81 | 12 | 30-130 | 50 |
| Fluorene | ND | 390 | 362 | 93 | 390 | 314 | 80 | 14 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 390 | 390 | 100 | 390 | 359 | 92 | 8 | 20-160 | 50 |
| Naphthalene | ND | 390 | 252 | 65 | 390 | 211 | 54 | 18 | 10-130 | 50 |
| Phenanthrene | ND | 390 | 307 | 79 | 390 | 279 | 71 | 10 | 20-130 | 50 |
| Pyrene | ND | 390 | 335 | 86 | 390 | 297 | 76 | 12 | 10-160 | 50 |
| 2-Methylnaphthalene | ND | 390 | 300 | 77 | 390 | 253 | 65 | 17 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 390 | 314 | 80 | 390 | 264 | 68 | 17 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | 15.8J | 390 | 354 | 87 | 390 | 292 | 71 | 19 | 20-150 | 50 |
| Butylbenzylphthalate | ND | 390 | 333 | 85 | 390 | 287 | 74 | 15 | 20-150 | 50 |
| Di-n-butylphthalate | ND | 390 | 319 | 82 | 390 | 287 | 73 | 11 | 20-150 | 50 |
| Di-n-octylphthalate | ND | 390 | 335 | 86 | 390 | 306 | 79 | 9 | 10-150 | 50 |
| Diethylphthalate | ND | 390 | 341 | 87 | 390 | 308 | 79 | 10 | 20-150 | 50 |
| Dimethylphthalate | ND | 390 | 357 | 92 | 390 | 313 | 80 | 13 | 20-150 | 50 |
| N-Nitrosodimethylamine | ND | 390 | 342 | 88 | 390 | 294 | 75 | 15 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 390 | 287 | 74 | 390 | 233 | 60 | 40-130 |
| 2-Fluorobiphenyl | 390 | 290 | 74 | 390 | 238 | 61 | 45-130 |
| Terphenyl-d14 | 390 | 341 | 87 | 390 | 293 | 75 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: 8.9

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-118-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C305-08 | C305-08M | C305-08S | | |
| LAB FILE ID: | RDH252 | RDH206 | RDH207 | | |
| DATE EXTRACTED: | 04/10/1214:11 | 04/10/1214:11 | 04/10/1214:11 | DATE COLLECTED: | 03/29/12 |
| DATE ANALYZED: | 04/17/1203:27 | 04/13/1213:49 | 04/13/1214:08 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | SVD019S | SVD019S | SVD019S | | |
| CALIB. REF: | RCH007 | RCH007 | RCH007 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 366 | 343 | 94 | 366 | 314 | 86 | 9 | 10-130 | 50 |
| Acenaphthylene | ND | 366 | 373 | 102 | 366 | 339 | 93 | 10 | 20-130 | 50 |
| Anthracene | ND | 366 | 309 | 84 | 366 | 287 | 78 | 7 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 366 | 322 | 88 | 366 | 326 | 89 | 1 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 366 | 345 | 94 | 366 | 323 | 88 | 7 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 366 | 378 | 103 | 366 | 351 | 96 | 7 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 366 | 375 | 103 | 366 | 351 | 96 | 7 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 366 | 407 | 111 | 366 | 373 | 102 | 9 | 30-140 | 50 |
| Chrysene | ND | 366 | 313 | 86 | 366 | 317 | 87 | 1 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 366 | 401 | 110 | 366 | 368 | 101 | 9 | 30-130 | 50 |
| Fluoranthene | ND | 366 | 350 | 96 | 366 | 343 | 94 | 2 | 30-130 | 50 |
| Fluorene | ND | 366 | 352 | 96 | 366 | 323 | 88 | 8 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 366 | 397 | 108 | 366 | 364 | 100 | 9 | 20-160 | 50 |
| Naphthalene | ND | 366 | 253 | 69 | 366 | 248 | 68 | 2 | 10-130 | 50 |
| Phenanthrene | ND | 366 | 310 | 85 | 366 | 286 | 78 | 8 | 20-130 | 50 |
| Pyrene | ND | 366 | 326 | 89 | 366 | 322 | 88 | 1 | 10-160 | 50 |
| 2-Methylnaphthalene | ND | 366 | 297 | 81 | 366 | 277 | 76 | 7 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 366 | 310 | 85 | 366 | 289 | 79 | 7 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | 22.4 | 366 | 332 | 85 | 366 | 338 | 86 | 2 | 20-150 | 50 |
| Butylbenzylphthalate | ND | 366 | 335 | 91 | 366 | 339 | 93 | 1 | 20-150 | 50 |
| Di-n-butylphthalate | ND | 366 | 329 | 90 | 366 | 315 | 86 | 4 | 20-150 | 50 |
| Di-n-octylphthalate | ND | 366 | 343 | 94 | 366 | 330 | 90 | 4 | 10-150 | 50 |
| Diethylphthalate | ND | 366 | 328 | 90 | 366 | 305 | 83 | 7 | 20-150 | 50 |
| Dimethylphthalate | ND | 366 | 349 | 95 | 366 | 319 | 87 | 9 | 20-150 | 50 |
| N-Nitrosodimethylamine | ND | 366 | 327 | 89 | 366 | 313 | 85 | 5 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 366 | 263 | 72 | 366 | 265 | 72 | 40-130 |
| 2-Fluorobiphenyl | 366 | 268 | 73 | 366 | 265 | 72 | 45-130 |
| Terphenyl-d14 | 366 | 297 | 81 | 366 | 321 | 88 | 45-135 |

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/02/12 21:47 |
| Sample ID: EB-NBZ-SB-032912 | Date Analyzed: 04/02/12 21:47 |
| Lab Samp ID: C305-01 | Dilution Factor: 1 |
| Lab File ID: ED02012A | Matrix : WATER |
| Ext Btch ID: VA39D01 | % Moisture : NA |
| Calib. Ref.: ED02005A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 18J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 37.6 | 40.00 | 94.1 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/02/12 22:29 |
| Sample ID: TB-032912 | Date Analyzed: 04/02/12 22:29 |
| Lab Samp ID: C305-15 | Dilution Factor: 1 |
| Lab File ID: ED02013A | Matrix : WATER |
| Ext Btch ID: VA39D01 | % Moisture : NA |
| Calib. Ref.: ED02005A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 15J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 37.0 | 40.00 | 92.6 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12C305 | Date Extracted: 04/02/12 17:34 |
| Sample ID: MBLK1W | Date Analyzed: 04/02/12 17:34 |
| Lab Samp ID: VA39D01B | Dilution Factor: 1 |
| Lab File ID: ED02006A | Matrix : WATER |
| Ext Btch ID: VA39D01 | % Moisture : NA |
| Calib. Ref.: ED02005A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 36.3 | 40.00 | 90.6 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 5030B/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VA39D01B | VA39D01L | VA39D01C | | |
| LAB FILE ID: | ED02006A | ED02007A | ED02008A | | |
| DATE EXTRACTED: | 04/02/1217:34 | 04/02/1218:16 | 04/02/1218:59 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/02/1217:34 | 04/02/1218:16 | 04/02/1218:59 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | VA39D01 | VA39D01 | VA39D01 | | |
| CALIB. REF: | ED02005A | ED02005A | ED02005A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 500 | 501 | 100 | 500 | 499 | 100 | 0 | 60-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 40.0 | 41.3 | 103 | 40.0 | 49.9 | 125 | 60-130 |

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/01/12 03:03 |
| Sample ID: SL-091-NBZ-SB-4.5 | Date Analyzed: 04/01/12 03:03 |
| Lab Samp ID: C305-11 | Dilution Factor: 0.87 |
| Lab File ID: EC29087A | Matrix : SOIL |
| Ext Btch ID: GMC029S | % Moisture : 17.8 |
| Calib. Ref.: EC29083A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.53 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.77 | 2.117 | 83.7 | 60-130 |

RL : Reporting Limit

Methanol Extraction: 03/30/12 14:19

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/01/12 |
| Batch No. : 12C305 | Date Extracted: 04/01/12 00:58 |
| Sample ID: MBLK1S | Date Analyzed: 04/01/12 00:58 |
| Lab Samp ID: GMC029SB | Dilution Factor: 1 |
| Lab File ID: EC29084A | Matrix : SOIL |
| Ext Btch ID: GMC029S | % Moisture : NA |
| Calib. Ref.: EC29083A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.79 | 2.000 | 89.3 | 60-130 |

RL : Reporting Limit

Methanol Extraction: 03/30/12 14:19

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 5035/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | GMC029SB | GMC029SL | GMC029SC | | |
| LAB FILE ID: | EC29084A | EC29085A | EC29086A | | |
| DATE EXTRACTED: | 04/01/1200:58 | 04/01/1201:40 | 04/01/1202:22 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/01/1200:58 | 04/01/1201:40 | 04/01/1202:22 | DATE RECEIVED: | 04/01/12 |
| PREP. BATCH: | GMC029S | GMC029S | GMC029S | | |
| CALIB. REF: | EC29083A | EC29083A | EC29083A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 25.0 | 22.6 | 90 | 25.0 | 24.4 | 98 | 8 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 2.00 | 1.98 | 99 | 2.00 | 2.07 | 104 | 60-130 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 03/30/12 15:39 |
| Sample ID: EB-NBZ-SB-032912 | Date Analyzed: 03/30/12 15:39 |
| Lab Samp ID: C305-01 | Dilution Factor: 1 |
| Lab File ID: BC30030A | Matrix : WATER |
| Ext Btch ID: MEC005W | % Moisture : NA |
| Calib. Ref.: BC30022A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 03/30/12 15:53 |
| Sample ID: EB-NBZ-SS-032912 | Date Analyzed: 03/30/12 15:53 |
| Lab Samp ID: C305-02 | Dilution Factor: 1 |
| Lab File ID: BC30031A | Matrix : WATER |
| Ext Btch ID: MEC005W | % Moisture : NA |
| Calib. Ref.: BC30022A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C305 | Date Extracted: 03/30/12 15:08 |
| Sample ID: MBLK1W | Date Analyzed: 03/30/12 15:08 |
| Lab Samp ID: MEC005WB | Dilution Factor: 1 |
| Lab File ID: BC30028A | Matrix : WATER |
| Ext Btch ID: MEC005W | % Moisture : NA |
| Calib. Ref.: BC30022A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | MEC005WB | MEC005WL | MEC005WC | | |
| LAB FILE ID: | BC30028A | BC30029A | BC30032A | | |
| DATE EXTRACTED: | 03/30/1215:08 | 03/30/1215:24 | 03/30/1216:07 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1215:08 | 03/30/1215:24 | 03/30/1216:07 | DATE RECEIVED: | 03/30/12 |
| PREP. BATCH: | MEC005W | MEC005W | MEC005W | | |
| CALIB. REF: | BC30022A | BC30022A | BC30022A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 8720 | 87 | 10000 | 7700 | 77 | 12 | 50-150 | 30 |
| Isopropanol | ND | 10000 | 8370 | 84 | 10000 | 10000 | 100 | 18 | 50-150 | 30 |
| Methanol | ND | 10000 | 9830 | 98 | 10000 | 11100 | 111 | 12 | 50-150 | 30 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/03/12 11:00 |
| Sample ID: SL-044-NBZ-SS-0.0-0.5 | Date Analyzed: 04/04/12 12:29 |
| Lab Samp ID: C305-03 | Dilution Factor: 1 |
| Lab File ID: BD04006A | Matrix : SOIL |
| Ext Btch ID: MED001S | % Moisture : 3.5 |
| Calib. Ref.: BD04002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 520 | 260 |
| ISOPROPANOL | ND | 520 | 260 |
| METHANOL | ND | 520 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12C305 | Date Extracted: 04/03/12 11:00 |
| Sample ID: MBLK1S | Date Analyzed: 04/04/12 11:21 |
| Lab Samp ID: MED001SB | Dilution Factor: 1 |
| Lab File ID: BD04003A | Matrix : SOIL |
| Ext Btch ID: MED001S | % Moisture : NA |
| Calib. Ref.: BD04002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 500 | 250 |
| ISOPROPANOL | ND | 500 | 250 |
| METHANOL | ND | 500 | 250 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | MED001SB | MED001SL | MED001SC | | |
| LAB FILE ID: | BD04003A | BD04004A | BD04005A | | |
| DATE EXTRACTED: | 04/03/1211:00 | 04/03/1211:00 | 04/03/1211:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/04/1211:21 | 04/04/1211:51 | 04/04/1212:15 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | MED001S | MED001S | MED001S | | |
| CALIB. REF: | BD04002A | BD04002A | BD04002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 9200 | 92 | 10000 | 8600 | 86 | 7 | 50-150 | 50 |
| Isopropanol | ND | 10000 | 9560 | 96 | 10000 | 10300 | 103 | 7 | 50-150 | 50 |
| Methanol | ND | 10000 | 11400 | 114 | 10000 | 11500 | 115 | 1 | 50-150 | 50 |

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/02/12 12:30 |
| Sample ID: EB-NBZ-SB-032912 | Date Analyzed: 04/03/12 20:05 |
| Lab Samp ID: C305-01 | Dilution Factor: 1.1 |
| Lab File ID: LD03011A | Matrix : WATER |
| Ext Btch ID: DSD001W | % Moisture : NA |
| Calib. Ref.: LD03003A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.55 | 0.11 |
| EFH(C12-C14) | ND | 0.55 | 0.11 |
| EFH(C15-C20) | ND | 0.55 | 0.11 |
| EFH(C21-C30) | ND | 0.55 | 0.11 |
| EFH(C30-C40) | ND | 0.55 | 0.11 |
| TOTAL EFH(C8-C40) | ND | 0.55 | 0.11 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.830 | 1.100 | 75.5 | 40-130 |
| HEXACOSANE | 0.237 | 0.2750 | 86.3 | 40-150 |

RL : Reporting Limit

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/02/12 12:30 |
| Sample ID: EB-NBZ-SS-032912 | Date Analyzed: 04/03/12 20:22 |
| Lab Samp ID: C305-02 | Dilution Factor: 1.08 |
| Lab File ID: LD03012A | Matrix : WATER |
| Ext Btch ID: DSD001W | % Moisture : NA |
| Calib. Ref.: LD03003A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.54 | 0.11 |
| EFH(C12-C14) | ND | 0.54 | 0.11 |
| EFH(C15-C20) | ND | 0.54 | 0.11 |
| EFH(C21-C30) | ND | 0.54 | 0.11 |
| EFH(C30-C40) | ND | 0.54 | 0.11 |
| TOTAL EFH(C8-C40) | ND | 0.54 | 0.11 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.863 | 1.080 | 79.9 | 40-130 |
| HEXACOSANE | 0.246 | 0.2700 | 91.2 | 40-150 |

RL : Reporting Limit

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12C305 | Date Extracted: 04/02/12 12:30 |
| Sample ID: MBLK1W | Date Analyzed: 04/03/12 18:23 |
| Lab Samp ID: DSD001WB | Dilution Factor: 1 |
| Lab File ID: LD03005A | Matrix : WATER |
| Ext Btch ID: DSD001W | % Moisture : NA |
| Calib. Ref.: LD03003A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.50 | 0.10 |
| EFH(C12-C14) | ND | 0.50 | 0.10 |
| EFH(C15-C20) | ND | 0.50 | 0.10 |
| EFH(C21-C30) | ND | 0.50 | 0.10 |
| EFH(C30-C40) | ND | 0.50 | 0.10 |
| TOTAL EFH(C8-C40) | ND | 0.50 | 0.10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.762 | 1.000 | 76.2 | 40-130 |
| HEXACOSANE | 0.209 | 0.2500 | 83.6 | 40-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 3520C/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | DSD001WB | DSD001WL | DSD001WC | | |
| LAB FILE ID: | LD03005A | LD03006A | LD03007A | | |
| DATE EXTRACTED: | 04/02/1212:30 | 04/02/1212:30 | 04/02/1212:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1218:23 | 04/03/1218:40 | 04/03/1218:57 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | DSD001W | DSD001W | DSD001W | | |
| CALIB. REF: | LD03003A | LD03003A | LD03003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 5.00 | 5.46 | 109 | 5.00 | 5.27 | 105 | 4 | 20-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 1.00 | 0.819 | 82 | 1.00 | 0.844 | 84 | 40-130 |
| Hexacosane | 0.250 | 0.219 | 88 | 0.250 | 0.227 | 91 | 40-150 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/03/12 10:30 |
| Sample ID: SL-044-NBZ-SS-0.0-0.5 | Date Analyzed: 04/04/12 05:43 |
| Lab Samp ID: C305-03T | Dilution Factor: 20 |
| Lab File ID: LD03045A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : 3.5 |
| Calib. Ref.: LD03039A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 21 | 10 |
| EFH(C12-C14) | ND | 21 | 10 |
| EFH(C15-C20) | 51 | 21 | 10 |
| EFH(C21-C30) | 300 | 21 | 10 |
| EFH(C30-C40) | 220 | 21 | 10 |
| TOTAL EFH(C8-C40) | 570 | 21 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | DO | 10.36 | DO | 50-150 |
| HEXACOSANE | DO | 2.591 | DO | 50-150 |

RL : Reporting Limit
DO : Diluted Out

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/03/12 10:30 |
| Sample ID: SL-091-NBZ-SS-0.0-0.5 | Date Analyzed: 04/04/12 03:44 |
| Lab Samp ID: C305-04 | Dilution Factor: 1 |
| Lab File ID: LD03038A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : 17.7 |
| Calib. Ref.: LD03027A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.87J | 1.2 | 0.61 |
| EFH(C12-C14) | ND | 1.2 | 0.61 |
| EFH(C15-C20) | 1.7 | 1.2 | 0.61 |
| EFH(C21-C30) | 16 | 1.2 | 0.61 |
| EFH(C30-C40) | 20 | 1.2 | 0.61 |
| TOTAL EFH(C8-C40) | 39 | 1.2 | 0.61 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.88 | 12.15 | 64.8 | 50-150 |
| HEXACOSANE | 2.72 | 3.038 | 89.4 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/03/12 10:30 |
| Sample ID: SL-092-NBZ-SS-0.0-0.5 | Date Analyzed: 04/04/12 01:28 |
| Lab Samp ID: C305-05 | Dilution Factor: 1 |
| Lab File ID: LD03030A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : 14.6 |
| Calib. Ref.: LD03027A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 1.7 | 1.2 | 0.59 |
| EFH(C12-C14) | 1.9 | 1.2 | 0.59 |
| EFH(C15-C20) | 0.84J | 1.2 | 0.59 |
| EFH(C21-C30) | 6.6 | 1.2 | 0.59 |
| EFH(C30-C40) | 9.7 | 1.2 | 0.59 |
| TOTAL EFH(C8-C40) | 21 | 1.2 | 0.59 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.92 | 11.71 | 67.7 | 50-150 |
| HEXACOSANE | 2.87 | 2.927 | 97.9 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/03/12 10:30 |
| Sample ID: SL-091-NBZ-SB-4.0-5.0 | Date Analyzed: 04/04/12 01:11 |
| Lab Samp ID: C305-12 | Dilution Factor: 1 |
| Lab File ID: LD03029A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : 18.6 |
| Calib. Ref.: LD03027A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.70J | 1.2 | 0.61 |
| EFH(C12-C14) | ND | 1.2 | 0.61 |
| EFH(C15-C20) | ND | 1.2 | 0.61 |
| EFH(C21-C30) | 0.81J | 1.2 | 0.61 |
| EFH(C30-C40) | ND | 1.2 | 0.61 |
| TOTAL EFH(C8-C40) | 1.5 | 1.2 | 0.61 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 8.21 | 12.29 | 66.8 | 50-150 |
| HEXACOSANE | 2.65 | 3.071 | 86.3 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/03/12 10:30 |
| Sample ID: DUP-05-NBZ-QC-032912 | Date Analyzed: 04/04/12 02:19 |
| Lab Samp ID: C305-13 | Dilution Factor: 1 |
| Lab File ID: LD03033A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : 15.9 |
| Calib. Ref.: LD03027A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.61J | 1.2 | 0.59 |
| EFH(C12-C14) | ND | 1.2 | 0.59 |
| EFH(C15-C20) | ND | 1.2 | 0.59 |
| EFH(C21-C30) | 4.2 | 1.2 | 0.59 |
| EFH(C30-C40) | 8.6 | 1.2 | 0.59 |
| TOTAL EFH(C8-C40) | 13 | 1.2 | 0.59 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.70 | 11.89 | 64.7 | 50-150 |
| HEXACOSANE | 2.67 | 2.973 | 90.0 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12C305 | Date Extracted: 04/03/12 10:30 |
| Sample ID: MBLK1S | Date Analyzed: 04/03/12 21:47 |
| Lab Samp ID: DSD002SB | Dilution Factor: 1 |
| Lab File ID: LD03017A | Matrix : SOIL |
| Ext Btch ID: DSD002S | % Moisture : NA |
| Calib. Ref.: LD03015A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.38 | 10.00 | 73.8 | 50-150 |
| HEXACOSANE | 2.16 | 2.500 | 86.4 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSD002SB | DSD002SL | DSD002SC | | |
| LAB FILE ID: | LD03017A | LD03018A | LD03019A | | |
| DATE EXTRACTED: | 04/03/1210:30 | 04/03/1210:30 | 04/03/1210:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1221:47 | 04/03/1222:04 | 04/03/1222:21 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | DSD002S | DSD002S | DSD002S | | |
| CALIB. REF: | LD03015A | LD03015A | LD03015A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 52.3 | 105 | 50.0 | 48.8 | 98 | 7 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 7.95 | 79 | 10.0 | 7.68 | 77 | 50-150 |
| Hexacosane | 2.50 | 2.27 | 91 | 2.50 | 2.15 | 86 | 50-150 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 3550B/8015B EFH

MATRIX: SOIL % MOISTURE: 14.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-092-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C305-05 | C305-05M | C305-05S | | |
| LAB FILE ID: | LD03030A | LD03031A | LD03032A | | |
| DATE EXTRACTED: | 04/03/1210:30 | 04/03/1210:30 | 04/03/1210:30 | DATE COLLECTED: | 03/29/12 |
| DATE ANALYZED: | 04/04/1201:28 | 04/04/1201:45 | 04/04/1202:02 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | DSD002S | DSD002S | DSD002S | | |
| CALIB. REF: | LD03027A | LD03027A | LD03027A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | 20.7 | 58.5 | 61.6 | 70 | 58.5 | 66.0 | 77 | 7 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 11.7 | 8.07 | 69 | 11.7 | 8.33 | 71 | 50-150 |
| Hexacosane | 2.93 | 2.58 | 88 | 2.93 | 2.62 | 90 | 50-150 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 03/30/12 10:24 |
| Sample ID: EB-NBZ-SB-032912 | Date Analyzed: 03/30/12 10:24 |
| Lab Samp ID: C305-01 | Dilution Factor: 1 |
| Lab File ID: TC30008A | Matrix : WATER |
| Ext Btch ID: PEC009W | % Moisture : NA |
| Calib. Ref.: TC30004A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 03/30/12 10:37 |
| Sample ID: EB-NBZ-SS-032912 | Date Analyzed: 03/30/12 10:37 |
| Lab Samp ID: C305-02 | Dilution Factor: 1 |
| Lab File ID: TC30009A | Matrix : WATER |
| Ext Btch ID: PEC009W | % Moisture : NA |
| Calib. Ref.: TC30004A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/03/12 10:30 |
| Sample ID: SL-044-NBZ-SS-0.0-0.5 | Date Analyzed: 04/03/12 14:47 |
| Lab Samp ID: C305-03 | Dilution Factor: 1 |
| Lab File ID: TD03018A | Matrix : SOIL |
| Ext Btch ID: PED001S | % Moisture : 3.5 |
| Calib. Ref.: TD03013A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.8 |
| ETHYLENE GLYCOL | ND | 10 | 5.2 |
| PROPYLENE GLYCOL | ND | 10 | 5.2 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C305 | Date Extracted: 03/30/12 10:06 |
| Sample ID: MBLK1W | Date Analyzed: 03/30/12 10:06 |
| Lab Samp ID: PEC009WB | Dilution Factor: 1 |
| Lab File ID: TC30007A | Matrix : WATER |
| Ext Btch ID: PEC009W | % Moisture : NA |
| Calib. Ref.: TC30004A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12C305 | Date Extracted: 04/03/12 10:30 |
| Sample ID: MBLK1S | Date Analyzed: 04/03/12 13:47 |
| Lab Samp ID: PED001SB | Dilution Factor: 1 |
| Lab File ID: TD03015A | Matrix : SOIL |
| Ext Btch ID: PED001S | % Moisture : NA |
| Calib. Ref.: TD03013A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.5 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 5.0 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | PEC009WB | PEC009WL | PEC009WC | | |
| LAB FILE ID: | TC30007A | TC30005A | TC30006A | | |
| DATE EXTRACTED: | 03/30/1210:06 | 03/30/1209:15 | 03/30/1209:28 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1210:06 | 03/30/1209:15 | 03/30/1209:28 | DATE RECEIVED: | 03/30/12 |
| PREP. BATCH: | PEC009W | PEC009W | PEC009W | | |
| CALIB. REF: | TC30004A | TC30004A | TC30004A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 49.1 | 98 | 50.0 | 50.7 | 101 | 3 | 50-150 | 30 |
| Ethylene Glycol | ND | 50.0 | 50.1 | 100 | 50.0 | 50.2 | 100 | 0 | 50-150 | 30 |
| Propylene Glycol | ND | 25.0 | 25.4 | 102 | 25.0 | 25.0 | 100 | 2 | 50-150 | 30 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PED001SB | PED001SL | PED001SC | | |
| LAB FILE ID: | TD03015A | TD03016A | TD03017A | | |
| DATE EXTRACTED: | 04/03/1210:30 | 04/03/1210:30 | 04/03/1210:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1213:47 | 04/03/1214:11 | 04/03/1214:22 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | PED001S | PED001S | PED001S | | |
| CALIB. REF: | TD03013A | TD03013A | TD03013A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 48.5 | 97 | 50.0 | 48.5 | 97 | 0 | 50-150 | 50 |
| Ethylene Glycol | ND | 50.0 | 50.4 | 101 | 50.0 | 49.5 | 99 | 2 | 50-150 | 50 |
| Propylene Glycol | ND | 25.0 | 24.5 | 98 | 25.0 | 24.4 | 98 | 0 | 50-150 | 50 |

METHOD 3520C/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/02/12 12:45 |
| Sample ID: EB-NBZ-SS-032912 | Date Analyzed: 04/04/12 01:07 |
| Lab Samp ID: C305-02 | Dilution Factor: 0.93 |
| Lab File ID: MD03024A | Matrix : WATER |
| Ext Btch ID: CPD002W | % Moisture : NA |
| Calib. Ref.: MD03018A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ALPHA-BHC | 0.078J \| (ND) | 0.093 | 0.0093 \| 0.0093 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.093 | 0.0093 \| 0.0093 |
| BETA-BHC | (ND) \| 0.021J | 0.093 | 0.0093 \| 0.0093 |
| HEPTACHLOR | (ND) \| ND | 0.093 | 0.0093 \| 0.0093 |
| DELTA-BHC | (ND) \| 0.022J | 0.093 | 0.0093 \| 0.0093 |
| ALDRIN | (ND) \| ND | 0.093 | 0.0093 \| 0.0093 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.093 | 0.0093 \| 0.0093 |
| ENDOSULFAN I | (ND) \| ND | 0.093 | 0.0093 \| 0.0093 |
| 4,4'-DDE | 0.022J \| (ND) | 0.093 | 0.0093 \| 0.0093 |
| DIELDRIN | 0.058J \| (ND) | 0.093 | 0.0093 \| 0.0093 |
| ENDRIN | (ND) \| ND | 0.093 | 0.0093 \| 0.0093 |
| 4,4'-DDD | (ND) \| ND | 0.093 | 0.0093 \| 0.0093 |
| ENDOSULFAN II | 0.023J \| (ND) | 0.093 | 0.0093 \| 0.0093 |
| 4,4'-DDT | (ND) \| ND | 0.093 | 0.0093 \| 0.0093 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.093 | 0.0093 \| 0.0093 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.093 | 0.0093 \| 0.0093 |
| ENDRIN KETONE | (ND) \| ND | 0.093 | 0.0093 \| 0.0093 |
| METHOXYCHLOR | (ND) \| 3.3 | 0.93 | 0.093 \| 0.093 |
| MIREX | (ND) \| ND | 0.093 | 0.0093 \| 0.0093 |
| TOXAPHENE | (ND) \| ND | 1.9 | 0.47 \| 0.47 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 0.93 | 0.23 \| 0.23 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 0.3706 \| (0.3973) | 0.3720 | 99.6 \| (107) | 60-140 |
| DECACHLOROBIPHENYL | 0.3888 \| (0.3999) | 0.3720 | 105 \| (107) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3520C/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12C305 | Date Extracted: 04/02/12 12:45 |
| Sample ID: MBLK1W | Date Analyzed: 04/03/12 19:26 |
| Lab Samp ID: CPD002WB | Dilution Factor: 1 |
| Lab File ID: MD03009A | Matrix : WATER |
| Ext Btch ID: CPD002W | % Moisture : NA |
| Calib. Ref.: MD03004A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.10 | 0.010\|0.010 |
| BETA-BHC | (ND)\|0.017J | 0.10 | 0.010\|0.010 |
| HEPTACHLOR | (ND)\|ND | 0.10 | 0.010\|0.010 |
| DELTA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ALDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN I | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| DIELDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDD | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN II | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDT | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN KETONE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| METHOXYCHLOR | (ND)\|ND | 1.0 | 0.10\|0.10 |
| MIREX | (ND)\|ND | 0.10 | 0.010\|0.010 |
| TOXAPHENE | (ND)\|ND | 2.0 | 0.50\|0.50 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 1.0 | 0.25\|0.25 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 0.3520\|(0.3651) | 0.4000 | 88.0\|(91.3) | 60-140 |
| DECACHLOROBIPHENYL | 0.4061\|(0.4133) | 0.4000 | 102\|(103) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 3520C/8081A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | CPD002WB | CPD002WL | CPD002WC | | |
| LAB FILE ID: | MD03009A | MD03010A | MD03011A | | |
| DATE EXTRACTED: | 04/02/1212:45 | 04/02/1212:45 | 04/02/1212:45 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1219:26 | 04/03/1219:49 | 04/03/1220:13 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | CPD002W | CPD002W | CPD002W | | |
| CALIB. REF: | MD03004A | MD03004A | MD03004A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 0.200 | (0.188)\|0.184 | (94)\|92 | 0.200 | 0.175\|(0.191) | 88\|(96) | 7\|(4) | 30-150 | 30 |
| gamma-BHC (Lindane) | (ND)\|ND | 0.200 | 0.171\|(0.184) | 86\|(92) | 0.200 | 0.171\|(0.188) | 86\|(94) | 0\|(2) | 40-130 | 30 |
| beta-BHC | (ND)\|0.017J | 0.200 | 0.199\|(0.224) | 100\|(112) | 0.200 | 0.177\|(0.202) | 88\|(101) | 12\|(10) | 60-130 | 30 |
| Heptachlor | (ND)\|ND | 0.200 | 0.182\|(0.197) | 91\|(98) | 0.200 | 0.185\|(0.199) | 92\|(100) | 2\|(1) | 30-140 | 30 |
| delta-BHC | (ND)\|ND | 0.200 | 0.197\|(0.202) | 98\|(101) | 0.200 | 0.183\|(0.217) | 92\|(108) | 7\|(7) | 30-150 | 30 |
| Aldrin | (ND)\|ND | 0.200 | (0.178)\|0.177 | (89)\|88 | 0.200 | (0.181)\|0.178 | (90)\|89 | (2)\|1 | 40-130 | 30 |
| Heptachlor Epoxide | (ND)\|ND | 0.200 | 0.178\|(0.183) | 89\|(92) | 0.200 | 0.182\|(0.189) | 91\|(94) | 2\|(3) | 50-140 | 30 |
| Endosulfan I | (ND)\|ND | 0.200 | 0.154\|(0.170) | 77\|(85) | 0.200 | 0.164\|(0.179) | 82\|(90) | 6\|(5) | 60-140 | 30 |
| 4,4'-DDE | (ND)\|ND | 0.200 | 0.195\|(0.200) | 97\|(100) | 0.200 | 0.195\|(0.204) | 97\|(102) | 0\|(2) | 50-140 | 30 |
| Dieldrin | (ND)\|ND | 0.200 | (0.201)\|0.181 | (100)\|90 | 0.200 | (0.210)\|0.193 | (105)\|96 | (4)\|6 | 60-140 | 30 |
| Endrin | (ND)\|ND | 0.200 | (0.183)\|0.182 | (92)\|91 | 0.200 | 0.191\|(0.192) | 96\|(96) | 4\|(5) | 50-140 | 30 |
| 4,4'-DDD | (ND)\|ND | 0.200 | 0.188\|(0.189) | 94\|(94) | 0.200 | (0.199)\|0.197 | (100)\|98 | (6)\|4 | 50-160 | 30 |
| Endosulfan II | (ND)\|ND | 0.200 | (0.198)\|0.190 | (99)\|95 | 0.200 | (0.202)\|0.201 | (101)\|100 | (2)\|6 | 60-150 | 30 |
| 4,4'-DDT | (ND)\|ND | 0.200 | (0.237)\|0.219 | (118)\|110 | 0.200 | (0.267)\|0.254 | (134)\|127 | (12)\|15 | 60-140 | 30 |
| Endrin aldehyde | (ND)\|ND | 0.200 | (0.220)\|0.200 | (110)\|100 | 0.200 | (0.220)\|0.210 | (110)\|105 | (0)\|5 | 60-160 | 30 |
| Endosulfan Sulfate | (ND)\|ND | 0.200 | (0.203)\|0.202 | (101)\|101 | 0.200 | 0.203\|(0.210) | 101\|(105) | 0\|(4) | 70-140 | 30 |
| Endrin Ketone | (ND)\|ND | 0.200 | 0.200\|(0.203) | 100\|(101) | 0.200 | (0.219)\|0.217 | (110)\|108 | (9)\|7 | 30-150 | 30 |
| Methoxychlor | (ND)\|ND | 2.00 | 2.02\|(2.19) | 101\|(110) | 2.00 | 2.10\|(2.22) | 105\|(111) | 4\|(1) | 70-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 0.4000 | 0.3839\|(0.4039) | 96.0\|(101) | 0.4000 | 0.3677\|(0.4013) | 91.9\|(100) | 60-140 |
| Decachlorobiphenyl | 0.4000 | 0.4139\|(0.4252) | 103\|(106) | 0.4000 | 0.4197\|(0.4324) | 105\|(108) | 20-120 |

METHOD 3550B/8081A
PESTICIDES

| | | | |
|---|---|---|---|
| Client : CDM | | Date Collected: 03/29/12 | |
| Project : SSFL AREA IV COLLOCATED SAMPLING | | Date Received: 03/29/12 | |
| Batch No. : 12C305 | | Date Extracted: 04/10/12 10:30 | |
| Sample ID: SL-044-NBZ-SS-0.0-0.5DL | | Date Analyzed: 04/25/12 14:01 | |
| Lab Samp ID: C305-03T | | Dilution Factor: 20 | |
| Lab File ID: LD25009A | | Matrix : SOIL | |
| Ext Btch ID: CPD021S | | % Moisture : 3.5 | |
| Calib. Ref.: LD25005A | | Instrument ID : GCF9 | |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 3.5 | 1.8 \| 1.8 |
| GAMMA-BHC (LINDANE) | (ND) \| 50 | 3.5 | 1.8 \| 1.8 |
| BETA-BHC | (ND) \| 1000 | 3.5 | 1.8 \| 1.8 |
| HEPTACHLOR | 120 \| (ND) | 3.5 | 1.8 \| 1.8 |
| DELTA-BHC | (ND) \| ND | 3.5 | 1.8 \| 1.8 |
| ALDRIN | 340 \| (ND) | 3.5 | 1.8 \| 1.8 |
| HEPTACHLOR EPOXIDE | (ND) \| 310 | 3.5 | 1.8 \| 1.8 |
| ENDOSULFAN I | (ND) \| 520 | 3.5 | 1.8 \| 1.8 |
| 4,4'-DDE | 130 \| (ND) | 7.0 | 3.5 \| 3.5 |
| DIELDRIN | (91) \| 59 | 7.0 | 3.5 \| 3.5 |
| ENDRIN | 490 \| (ND) | 7.0 | 3.5 \| 3.5 |
| 4,4'-DDD | (ND) \| ND | 7.0 | 3.5 \| 3.5 |
| ENDOSULFAN II | 940 \| (ND) | 7.0 | 3.5 \| 3.5 |
| 4,4'-DDT | (ND) \| 270 | 7.0 | 3.5 \| 3.5 |
| ENDRIN ALDEHYDE | (ND) \| ND | 7.0 | 3.5 \| 3.5 |
| ENDOSULFAN SULFATE | (ND) \| 220 | 7.0 | 3.5 \| 3.5 |
| ENDRIN KETONE | 19 \| (ND) | 7.0 | 3.5 \| 3.5 |
| METHOXYCHLOR | 65 \| (ND) | 35 | 18 \| 18 |
| MIREX | 82 \| (ND) | 7.0 | 3.5 \| 3.5 |
| TOXAPHENE | (ND) \| ND | 140 | 68 \| 68 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 70 | 35 \| 35 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (4.197) \| 428.4 | 5.526 | (75.9) \| 7750 | 50-130 |
| DECACHLOROBIPHENYL | 8.803 \| (5.273) | 5.526 | 259* \| (95.4) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 10:30 |
| Sample ID: SL-091-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 14:44 |
| Lab Samp ID: C305-04 | Dilution Factor: 1 |
| Lab File ID: LD25011A | Matrix : SOIL |
| Ext Btch ID: CPD021S | % Moisture : 17.7 |
| Calib. Ref.: LD25005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.69 \| (ND) | 0.21 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.21 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| ND | 0.21 | 0.10 \| 0.10 |
| HEPTACHLOR | 0.11J \| (ND) | 0.21 | 0.10 \| 0.10 |
| DELTA-BHC | (ND) \| ND | 0.21 | 0.10 \| 0.10 |
| ALDRIN | (ND) \| ND | 0.21 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.21 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| ND | 0.21 | 0.10 \| 0.10 |
| 4,4'-DDE | 0.63 \| (0.27J) | 0.41 | 0.21 \| 0.21 |
| DIELDRIN | 0.35J \| (ND) | 0.41 | 0.21 \| 0.21 |
| ENDRIN | (ND) \| ND | 0.41 | 0.21 \| 0.21 |
| 4,4'-DDD | (ND) \| ND | 0.41 | 0.21 \| 0.21 |
| ENDOSULFAN II | (ND) \| ND | 0.41 | 0.21 \| 0.21 |
| 4,4'-DDT | (ND) \| 1.3 | 0.41 | 0.21 \| 0.21 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.41 | 0.21 \| 0.21 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.41 | 0.21 \| 0.21 |
| ENDRIN KETONE | (ND) \| ND | 0.41 | 0.21 \| 0.21 |
| METHOXYCHLOR | 1.5J \| (ND) | 2.1 | 1.0 \| 1.0 |
| MIREX | (ND) \| ND | 0.41 | 0.21 \| 0.21 |
| TOXAPHENE | (ND) \| ND | 8.0 | 4.0 \| 4.0 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.1 | 2.1 \| 2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.561 \| (5.504) | 6.480 | 70.4 \| (84.9) | 50-130 |
| DECACHLOROBIPHENYL | 4.498 \| (5.080) | 6.480 | 69.4 \| (78.4) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 10:30 |
| Sample ID: SL-092-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 21:04 |
| Lab Samp ID: C305-05 | Dilution Factor: 1 |
| Lab File ID: LD17024A | Matrix : SOIL |
| Ext Btch ID: CPD021S | % Moisture : 14.6 |
| Calib. Ref.: LD17005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.26 | 0.20 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR | 0.46 \| (ND) | 0.20 | 0.10 \| 0.10 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| ALDRIN | (ND) \| 0.28 | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| 0.11J | 0.20 | 0.10 \| 0.10 |
| 4,4'-DDE | 0.31J \| (ND) | 0.40 | 0.20 \| 0.20 |
| DIELDRIN | 0.40J \| (ND) | 0.40 | 0.20 \| 0.20 |
| ENDRIN | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN II | 0.51 \| (ND) | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDT | (ND) \| 0.60 | 0.40 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| 1.2J | 2.0 | 1.0 \| 1.0 |
| MIREX | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.7 | 3.9 \| 3.9 |
| CHLORDANE (TECHNICAL) | (ND) \| 8.7 | 4.0 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.283 \| (6.682) | 6.245 | 84.6 \| (107) | 50-130 |
| DECACHLOROBIPHENYL | 5.188 \| (5.992) | 6.245 | 83.1 \| (95.9) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 10:30 |
| Sample ID: SL-101-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 22:11 |
| Lab Samp ID: C305-06 | Dilution Factor: 1 |
| Lab File ID: LD17027A | Matrix : SOIL |
| Ext Btch ID: CPD021S | % Moisture : 12.5 |
| Calib. Ref.: LD17005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| BETA-BHC | 2.8 \| (ND) | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR | (ND) \| 0.37 | 0.19 | 0.097 \| 0.097 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| ALDRIN | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR EPOXIDE | 0.44 \| (ND) | 0.19 | 0.097 \| 0.097 |
| ENDOSULFAN I | (ND) \| 0.19J | 0.19 | 0.097 \| 0.097 |
| 4,4'-DDE | 0.97 \| (0.53) | 0.39 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDD | (0.21J) \| 2.0 | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.71 \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDT | (0.91) \| 0.88 | 0.39 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| 0.46 | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| METHOXYCHLOR | 5.5 \| (ND) | 1.9 | 0.97 \| 0.97 |
| MIREX | 0.71 \| (ND) | 0.39 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.5 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.465 \| (7.222) | 6.095 | 89.7 \| (118) | 50-130 |
| DECACHLOROBIPHENYL | 4.439 \| (5.786) | 6.095 | 72.8 \| (94.9) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 10:30 |
| Sample ID: SL-103-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 22:33 |
| Lab Samp ID: C305-07 | Dilution Factor: 1 |
| Lab File ID: LD17028A | Matrix : SOIL |
| Ext Btch ID: CPD021S | % Moisture : 12.8 |
| Calib. Ref.: LD17005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 1.2\|(ND) | 0.19 | 0.097\|0.097 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.19 | 0.097\|0.097 |
| BETA-BHC | (ND)\|ND | 0.19 | 0.097\|0.097 |
| HEPTACHLOR | (ND)\|0.61 | 0.19 | 0.097\|0.097 |
| DELTA-BHC | 0.20\|(ND) | 0.19 | 0.097\|0.097 |
| ALDRIN | (ND)\|ND | 0.19 | 0.097\|0.097 |
| HEPTACHLOR EPOXIDE | 0.61\|(ND) | 0.19 | 0.097\|0.097 |
| ENDOSULFAN I | (ND)\|0.24 | 0.19 | 0.097\|0.097 |
| 4,4'-DDE | (0.40)\|0.35J | 0.39 | 0.19\|0.19 |
| DIELDRIN | (ND)\|ND | 0.39 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.39 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.39 | 0.19\|0.19 |
| ENDOSULFAN II | (ND)\|ND | 0.39 | 0.19\|0.19 |
| 4,4'-DDT | 0.88\|(1.4) | 0.39 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | (ND)\|0.23J | 0.39 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.39 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.39 | 0.19\|0.19 |
| METHOXYCHLOR | (ND)\|ND | 1.9 | 0.97\|0.97 |
| MIREX | (ND)\|ND | 0.39 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.6 | 3.8\|3.8 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.9 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.959\|(7.397) | 6.116 | 97.4\|(121) | 50-130 |
| DECACHLOROBIPHENYL | 4.843\|(5.198) | 6.116 | 79.2\|(85.0) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 10:30 |
| Sample ID: SL-118-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 15:05 |
| Lab Samp ID: C305-08 | Dilution Factor: 1 |
| Lab File ID: LD25012A | Matrix : SOIL |
| Ext Btch ID: CPD021S | % Moisture : 8.9 |
| Calib. Ref.: LD25005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.11J | 0.19 | 0.093\|0.093 |
| GAMMA-BHC (LINDANE) | (ND)\|0.27 | 0.19 | 0.093\|0.093 |
| BETA-BHC | (ND)\|ND | 0.19 | 0.093\|0.093 |
| HEPTACHLOR | 0.30\|(ND) | 0.19 | 0.093\|0.093 |
| DELTA-BHC | (ND)\|ND | 0.19 | 0.093\|0.093 |
| ALDRIN | (ND)\|ND | 0.19 | 0.093\|0.093 |
| HEPTACHLOR EPOXIDE | 0.16J\|(ND) | 0.19 | 0.093\|0.093 |
| ENDOSULFAN I | (ND)\|ND | 0.19 | 0.093\|0.093 |
| 4,4'-DDE | (0.23J)\|0.19J | 0.37 | 0.19\|0.19 |
| DIELDRIN | 0.31J\|(ND) | 0.37 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.37 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDOSULFAN II | (ND)\|ND | 0.37 | 0.19\|0.19 |
| 4,4'-DDT | (ND)\|0.31J | 0.37 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| METHOXYCHLOR | 1.6J\|(ND) | 1.9 | 0.93\|0.93 |
| MIREX | 0.26J\|(ND) | 0.37 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.2 | 3.6\|3.6 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.274\|(5.451) | 5.854 | 73.0\|(93.1) | 50-130 |
| DECACHLOROBIPHENYL | 3.896\|(4.278) | 5.854 | 66.5\|(73.1) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 10:30 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 22:56 |
| Lab Samp ID: C305-09 | Dilution Factor: 1 |
| Lab File ID: LD17029A | Matrix : SOIL |
| Ext Btch ID: CPD021S | % Moisture : 7.6 |
| Calib. Ref.: LD17005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.17J | 0.18 | 0.092 \| 0.092 |
| BETA-BHC | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR | 0.46 \| (ND) | 0.18 | 0.092 \| 0.092 |
| DELTA-BHC | (ND) \| 3.8 | 0.18 | 0.092 \| 0.092 |
| ALDRIN | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR EPOXIDE | 1.3 \| (ND) | 0.18 | 0.092 \| 0.092 |
| ENDOSULFAN I | (ND) \| 0.75 | 0.18 | 0.092 \| 0.092 |
| 4,4'-DDE | 0.22J \| (0.63) | 0.37 | 0.18 \| 0.18 |
| DIELDRIN | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDRIN | 0.97 \| (ND) | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDD | 0.21J \| (ND) | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN II | 1.2 \| (ND) | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDT | (ND) \| 0.40 | 0.37 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | (ND) \| 0.72 | 0.37 | 0.18 \| 0.18 |
| ENDRIN KETONE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| METHOXYCHLOR | 1.8J \| (ND) | 1.8 | 0.92 \| 0.92 |
| MIREX | 0.74 \| (ND) | 0.37 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 7.1 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.004 \| (7.182) | 5.772 | 86.7 \| (124) | 50-130 |
| DECACHLOROBIPHENYL | 4.539 \| (5.419) | 5.772 | 78.7 \| (93.9) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 10:30 |
| Sample ID: SL-197-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 16:09 |
| Lab Samp ID: C305-10 | Dilution Factor: 1 |
| Lab File ID: LD25015A | Matrix : SOIL |
| Ext Btch ID: CPD021S | % Moisture : 13.9 |
| Calib. Ref.: LD25005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.35 | 0.20 | 0.099\|0.099 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.20 | 0.099\|0.099 |
| BETA-BHC | (ND)\|ND | 0.20 | 0.099\|0.099 |
| HEPTACHLOR | (ND)\|ND | 0.20 | 0.099\|0.099 |
| DELTA-BHC | (ND)\|0.38 | 0.20 | 0.099\|0.099 |
| ALDRIN | (ND)\|ND | 0.20 | 0.099\|0.099 |
| HEPTACHLOR EPOXIDE | 0.69\|(ND) | 0.20 | 0.099\|0.099 |
| ENDOSULFAN I | (ND)\|0.14J | 0.20 | 0.099\|0.099 |
| 4,4'-DDE | (1.0)\|0.95 | 0.39 | 0.20\|0.20 |
| DIELDRIN | 0.42\|(ND) | 0.39 | 0.20\|0.20 |
| ENDRIN | 0.38J\|(ND) | 0.39 | 0.20\|0.20 |
| 4,4'-DDD | (ND)\|0.90 | 0.39 | 0.20\|0.20 |
| ENDOSULFAN II | 0.53\|(ND) | 0.39 | 0.20\|0.20 |
| 4,4'-DDT | 1.5\|(1.9) | 0.39 | 0.20\|0.20 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.39 | 0.20\|0.20 |
| ENDOSULFAN SULFATE | 1.8\|(ND) | 0.39 | 0.20\|0.20 |
| ENDRIN KETONE | (ND)\|ND | 0.39 | 0.20\|0.20 |
| METHOXYCHLOR | (6.9)\|1.4J | 2.0 | 0.99\|0.99 |
| MIREX | 0.95\|(ND) | 0.39 | 0.20\|0.20 |
| TOXAPHENE | (ND)\|ND | 7.7 | 3.8\|3.8 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.705\|(5.210) | 6.194 | 76.0\|(84.1) | 50-130 |
| DECACHLOROBIPHENYL | 4.246\|(4.620) | 6.194 | 68.5\|(74.6) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 10:30 |
| Sample ID: DUP-05-NBZ-QC-032912 | Date Analyzed: 04/17/12 23:18 |
| Lab Samp ID: C305-13 | Dilution Factor: 1 |
| Lab File ID: LD17030A | Matrix : SOIL |
| Ext Btch ID: CPD021S | % Moisture : 15.9 |
| Calib. Ref.: LD17005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| ALDRIN | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| 4,4'-DDE | 0.22J \| (ND) | 0.40 | 0.20 \| 0.20 |
| DIELDRIN | 0.41 \| (ND) | 0.40 | 0.20 \| 0.20 |
| ENDRIN | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN II | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDT | (ND) \| 0.38J | 0.40 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| ND | 2.0 | 1.0 \| 1.0 |
| MIREX | 0.22J \| (ND) | 0.40 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.8 | 3.9 \| 3.9 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.0 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.315 \| (6.954) | 6.341 | 83.8 \| (110) | 50-130 |
| DECACHLOROBIPHENYL | (5.064) \| 4.720 | 6.341 | (79.9) \| 74.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 10:30 |
| Sample ID: DUP-04-NBZ-QC-032912 | Date Analyzed: 04/17/12 23:40 |
| Lab Samp ID: C305-14 | Dilution Factor: 1 |
| Lab File ID: LD17031A | Matrix : SOIL |
| Ext Btch ID: CPD021S | % Moisture : 8.7 |
| Calib. Ref.: LD17005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.19 | 0.19 | 0.093 \| 0.093 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| HEPTACHLOR | 0.33 \| (ND) | 0.19 | 0.093 \| 0.093 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| ALDRIN | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| ENDOSULFAN I | (ND) \| 0.14J | 0.19 | 0.093 \| 0.093 |
| 4,4'-DDE | (0.75) \| 0.54 | 0.37 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| 0.24J | 0.37 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN II | (ND) \| 0.68 | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDT | 0.55 \| (2.6) | 0.37 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| METHOXYCHLOR | 2.9 \| (ND) | 1.9 | 0.93 \| 0.93 |
| MIREX | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.2 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (5.609) \| 7.939 | 5.841 | (96.0) \| 136* | 50-130 |
| DECACHLOROBIPHENYL | 4.892 \| (5.559) | 5.841 | 83.7 \| (95.2) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 10:30 |
| Sample ID: MBLK1S | Date Analyzed: 04/17/12 17:01 |
| Lab Samp ID: CPD021SB | Dilution Factor: 1 |
| Lab File ID: LD17013A | Matrix : SOIL |
| Ext Btch ID: CPD021S | % Moisture : NA |
| Calib. Ref.: LD17005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.16J | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.024\|(5.288) | 5.333 | 94.2\|(99.1) | 50-130 |
| DECACHLOROBIPHENYL | 5.440\|(5.725) | 5.333 | 102\|(107) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPD021SB CPD021SL CPD021SC
LAB FILE ID: LD17013A LD17014A LD17015A
DATE EXTRACTED: 04/10/1210:30 04/10/1210:30 04/10/1210:30 DATE COLLECTED: NA
DATE ANALYZED: 04/17/1217:01 04/17/1217:23 04/17/1217:45 DATE RECEIVED: 04/10/12
PREP. BATCH: CPD021S CPD021S CPD021S
CALIB. REF: LD17005A LD17005A LD17005A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|0.16J | 2.67 | 2.84\|(3.10) | 106\|(116) | 2.67 | 2.36\|(2.97) | 88\|(111) | 18\|(4) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|ND | 2.67 | 2.59\|(2.95) | 97\|(110) | 2.67 | 2.52\|(3.25) | 94\|(122) | 3\|(10) | 40-130 | 50 |
| beta-BHC | (ND)\|ND | 2.67 | (2.66)\|2.41 | (100)\|90 | 2.67 | 2.97\|(3.70) | 111\|(139) | 11\|(42) | 50-140 | 50 |
| Heptachlor | (ND)\|ND | 2.67 | (2.89)\|2.83 | (108)\|106 | 2.67 | 2.84\|(3.31) | 106\|(124) | 2\|(16) | 30-130 | 50 |
| delta-BHC | (ND)\|ND | 2.67 | (3.00)\|2.95 | (112)\|110 | 2.67 | 3.00\|(3.72) | 112\|(139) | 0\|(23) | 30-150 | 50 |
| Aldrin | (ND)\|ND | 2.67 | 2.54\|(2.86) | 95\|(107) | 2.67 | 2.54\|(3.13) | 95\|(117) | 0\|(9) | 30-130 | 50 |
| Heptachlor Epoxide | (ND)\|ND | 2.67 | 2.61\|(2.71) | 98\|(101) | 2.67 | (2.67)\|2.67 | (100)\|100 | (2)\|1 | 60-140 | 50 |
| Endosulfan I | (ND)\|ND | 2.67 | 2.34\|(2.66) | 88\|(100) | 2.67 | 2.35\|(2.67) | 88\|(100) | 0\|(0) | 50-150 | 50 |
| 4,4'-DDE | (ND)\|ND | 2.67 | (2.88)\|2.78 | (108)\|104 | 2.67 | (2.91)\|2.81 | (109)\|105 | (1)\|1 | 50-150 | 50 |
| Dieldrin | (ND)\|ND | 2.67 | (2.89)\|2.67 | (108)\|100 | 2.67 | (3.11)\|2.69 | (116)\|101 | (7)\|1 | 60-130 | 50 |
| Endrin | (ND)\|ND | 2.67 | 2.80\|(2.92) | 105\|(109) | 2.67 | (2.99)\|2.93 | (112)\|110 | (7)\|0 | 50-140 | 50 |
| 4,4'-DDD | (ND)\|ND | 2.67 | 2.70\|(2.78) | 101\|(104) | 2.67 | (3.06)\|2.79 | (115)\|104 | (12)\|0 | 50-160 | 50 |
| Endosulfan II | (ND)\|ND | 2.67 | 2.90\|(2.95) | 109\|(110) | 2.67 | (3.07)\|3.03 | (115)\|113 | (6)\|3 | 60-150 | 50 |
| 4,4'-DDT | (ND)\|ND | 2.67 | (3.46)\|3.05 | (130)\|114 | 2.67 | (3.51)\|3.09 | (131)\|116 | (1)\|1 | 60-140 | 50 |
| Endrin aldehyde | (ND)\|ND | 2.67 | 2.71\|(2.83) | 101\|(106) | 2.67 | (3.08)\|2.91 | (115)\|109 | (13)\|3 | 50-160 | 50 |
| Endosulfan Sulfate | (ND)\|ND | 2.67 | 2.95\|(3.07) | 110\|(115) | 2.67 | 3.21\|(3.22) | 120\|(121) | 8\|(5) | 70-140 | 50 |
| Endrin Ketone | (ND)\|ND | 2.67 | 2.93\|(2.96) | 110\|(111) | 2.67 | (3.15)\|3.05 | (118)\|114 | (7)\|3 | 70-160 | 50 |
| Methoxychlor | (ND)\|ND | 26.7 | 29.5\|(30.6) | 110\|(115) | 26.7 | 30.8\|(31.4) | 115\|(118) | 4\|(3) | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 5.490\|(5.818) | 103\|(109) | 5.333 | 4.957\|(5.227) | 93.0\|(98.0) | 50-130 |
| Decachlorobiphenyl | 5.333 | 5.450\|(5.800) | 102\|(109) | 5.333 | 5.418\|(5.608) | 102\|(105) | 20-120 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: 14.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-092-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C305-05 | C305-05M | C305-05S | | |
| LAB FILE ID: | LD17024A | LD17025A | LD17026A | | |
| DATE EXTRACTED: | 04/10/1210:30 | 04/10/1210:30 | 04/10/1210:30 | DATE COLLECTED: | 03/29/12 |
| DATE ANALYZED: | 04/17/1221:04 | 04/17/1221:27 | 04/17/1221:49 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | CPD021S | CPD021S | CPD021S | | |
| CALIB. REF: | LD17005A | LD17005A | LD17005A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND) \| ND | 3.13 | 2.68 \| (3.91) | 86 \| (125) | 3.13 | 3.51 \| (4.26) | 112 \| (136) | 27 \| (9) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND) \| 0.26 | 3.13 | (3.36) \| 3.57 | (107) \| 106 | 3.13 | (3.47) \| 3.94 | (111) \| 118 | (3) \| 10 | 20-150 | 50 |
| beta-BHC | (ND) \| ND | 3.13 | (3.72) \| 2.95 | (119) \| 94 | 3.13 | (3.40) \| 2.85 | (109) \| 91 | (9) \| 3 | 50-140 | 50 |
| Heptachlor | 0.46 \| (ND) | 3.13 | 3.72 \| (3.65) | 104 \| (117) | 3.13 | 4.00 \| (3.43) | 113 \| (110) | 7 \| (6) | 20-140 | 50 |
| delta-BHC | (ND) \| ND | 3.13 | 3.92 \| (3.68) | 125 \| (118) | 3.13 | 3.13 \| (3.68) | 100 \| (118) | 22 \| (0) | 30-150 | 50 |
| Aldrin | (ND) \| 0.28 | 3.13 | (3.04) \| 3.75 | (97) \| 111 | 3.13 | (3.21) \| 4.14 | (103) \| 123 | (5) \| 10 | 20-160 | 50 |
| Heptachlor Epoxide | (ND) \| ND | 3.13 | 2.77 \| (2.88) | 89 \| (92) | 3.13 | 2.88 \| (2.99) | 92 \| (96) | 4 \| (4) | 40-140 | 50 |
| Endosulfan I | (ND) \| 0.11J | 3.13 | (2.23) \| 2.82 | (71) \| 87 | 3.13 | (2.32) \| 2.90 | (74) \| 89 | (4) \| 3 | 50-160 | 50 |
| 4,4'-DDE | 0.31J \| (ND) | 3.13 | 3.16 \| (3.25) | 91 \| (104) | 3.13 | 3.25 \| (3.32) | 94 \| (106) | 3 \| (2) | 50-150 | 50 |
| Dieldrin | 0.40J \| (ND) | 3.13 | 3.50 \| (3.15) | 99 \| (101) | 3.13 | 3.68 \| (3.47) | 105 \| (111) | 5 \| (10) | 10-160 | 50 |
| Endrin | (ND) \| ND | 3.13 | 2.79 \| (3.13) | 89 \| (100) | 3.13 | 2.89 \| (3.08) | 92 \| (99) | 4 \| (2) | 20-160 | 50 |
| 4,4'-DDD | (ND) \| ND | 3.13 | 2.84 \| (3.36) | 91 \| (107) | 3.13 | 2.92 \| (3.40) | 93 \| (109) | 3 \| (1) | 50-160 | 50 |
| Endosulfan II | 0.51 \| (ND) | 3.13 | 3.08 \| (3.18) | 82 \| (102) | 3.13 | 3.80 \| (3.20) | 105 \| (102) | 21 \| (1) | 40-160 | 50 |
| 4,4'-DDT | (ND) \| 0.60 | 3.13 | (3.64) \| 3.64 | (116) \| 97 | 3.13 | (4.11) \| 3.88 | (131) \| 105 | (12) \| 6 | 30-160 | 50 |
| Endrin aldehyde | (ND) \| ND | 3.13 | (2.80) \| 2.68 | (90) \| 86 | 3.13 | (2.89) \| 2.78 | (92) \| 89 | (3) \| 4 | 50-140 | 50 |
| Endosulfan Sulfate | (ND) \| ND | 3.13 | 2.91 \| (3.31) | 93 \| (106) | 3.13 | 2.87 \| (3.25) | 92 \| (104) | 1 \| (2) | 40-160 | 50 |
| Endrin Ketone | (ND) \| ND | 3.13 | (2.84) \| 2.84 | (91) \| 91 | 3.13 | 2.70 \| (2.98) | 86 \| (95) | 5 \| (5) | 50-160 | 50 |
| Methoxychlor | (ND) \| 1.2J | 31.3 | (32.6) \| 33.7 | (104) \| 104 | 31.3 | (33.4) \| 34.3 | (107) \| 106 | (2) \| 2 | 60-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 6.245 | 5.684 \| (7.238) | 91.0 \| (116) | 6.245 | 5.999 \| (7.861) | 96.1 \| (126) | 50-130 |
| Decachlorobiphenyl | 6.245 | 4.869 \| (5.465) | 78.0 \| (87.5) | 6.245 | 4.977 \| (5.445) | 79.7 \| (87.2) | 20-120 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: 8.9
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-118-NBZ-SS-0.0-0.5
LAB SAMP ID: C305-08 C305-08M C305-08S
LAB FILE ID: LD25012A LD25013A LD25014A
DATE EXTRACTED: 04/10/1210:30 04/10/1210:30 04/10/1210:30 DATE COLLECTED: 03/29/12
DATE ANALYZED: 04/25/1215:05 04/25/1215:26 04/25/1215:48 DATE RECEIVED: 03/29/12
PREP. BATCH: CPD021S CPD021S CPD021S
CALIB. REF: LD25005A LD25005A LD25005A

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|0.11J | 2.93 | (2.36)\|2.58 | (81)\|84 | 2.93 | (2.47)\|3.16 | (84)\|104 | (5)\|20 | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|0.27 | 2.93 | (2.33)\|2.66 | (79)\|82 | 2.93 | (2.51)\|2.67 | (86)\|82 | (7)\|0 | 20-150 | 50 |
| beta-BHC | (ND)\|ND | 2.93 | (2.53)\|2.24 | (86)\|76 | 2.93 | (2.93)\|1.97 | (100)\|67 | (15)\|13 | 50-140 | 50 |
| Heptachlor | 0.30\|(ND) | 2.93 | 2.78\|(2.89) | 85\|(99) | 2.93 | 2.87\|(2.91) | 88\|(99) | 3\|(1) | 20-140 | 50 |
| delta-BHC | (ND)\|ND | 2.93 | 2.40\|(2.75) | 82\|(94) | 2.93 | (3.11)\|2.78 | (106)\|95 | (26)\|1 | 30-150 | 50 |
| Aldrin | (ND)\|ND | 2.93 | 2.28\|(2.34) | 78\|(80) | 2.93 | 2.25\|(2.40) | 77\|(82) | 1\|(3) | 20-160 | 50 |
| Heptachlor Epoxide | 0.16J\|(ND) | 2.93 | 2.51\|(2.19) | 80\|(75) | 2.93 | 2.10\|(2.05) | 66\|(70) | 18\|(7) | 40-140 | 50 |
| Endosulfan I | (ND)\|ND | 2.93 | 1.48\|(2.00) | 50\|(68) | 2.93 | 1.59\|(2.26) | 54\|(77) | 7\|(12) | 50-160 | 50 |
| 4,4'-DDE | (0.23J)\|0.19J | 2.93 | (2.61)\|2.41 | (81)\|76 | 2.93 | (2.57)\|2.14 | (80)\|67 | (2)\|12 | 50-150 | 50 |
| Dieldrin | 0.31J\|(ND) | 2.93 | 2.60\|(2.63) | 78\|(90) | 2.93 | (2.34)\|2.28 | (69)\|78 | (11)\|14 | 10-160 | 50 |
| Endrin | (ND)\|ND | 2.93 | 2.20\|(2.61) | 75\|(89) | 2.93 | (2.68)\|2.12 | (91)\|72 | (20)\|21 | 20-160 | 50 |
| 4,4'-DDD | (ND)\|ND | 2.93 | 1.96\|(2.49) | 67\|(85) | 2.93 | (2.55)\|2.50 | (87)\|85 | (26)\|0 | 50-160 | 50 |
| Endosulfan II | (ND)\|ND | 2.93 | (2.60)\|2.28 | (89)\|78 | 2.93 | (2.97)\|2.21 | (101)\|75 | (13)\|3 | 40-160 | 50 |
| 4,4'-DDT | (ND)\|0.31J | 2.93 | (2.79)\|2.47 | (95)\|74 | 2.93 | (2.99)\|2.48 | (102)\|74 | (7)\|0 | 30-160 | 50 |
| Endrin aldehyde | (ND)\|ND | 2.93 | (2.47)\|1.69 | (84)\|58 | 2.93 | (2.11)\|1.66 | (72)\|57 | (16)\|2 | 50-140 | 50 |
| Endosulfan Sulfate | (ND)\|ND | 2.93 | 1.93\|(1.99) | 66\|(68) | 2.93 | 2.20\|(2.21) | 75\|(75) | 13\|(10) | 40-160 | 50 |
| Endrin Ketone | (ND)\|ND | 2.93 | (2.28)\|2.10 | (78)\|72 | 2.93 | (2.02)\|2.02 | (69)\|69 | (12)\|4 | 50-160 | 50 |
| Methoxychlor | 1.6J\|(ND) | 29.3 | 24.5\|(22.9) | 78\|(78) | 29.3 | 25.5\|(24.6) | 82\|(84) | 4\|(7) | 60-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.854 | 4.607\|(6.145) | 78.7\|(105) | 5.854 | 4.431\|(5.986) | 75.7\|(102) | 50-130 |
| Decachlorobiphenyl | 5.854 | 3.889\|(5.005) | 66.4\|(85.5) | 5.854 | (4.474)\|4.244 | (76.4)\|72.5 | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 13:15 |
| Sample ID: SL-044-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 08:30 |
| Lab Samp ID: C305-03 | Dilution Factor: 1 |
| Lab File ID: KD12071A | Matrix : SOIL |
| Ext Btch ID: CPD022S | % Moisture : 3.5 |
| Calib. Ref.: KD12057A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1254 | (1200E)\|370E | 1.8 | 0.88\|0.88 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.88\|0.88 |
| AROCLOR 5432 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.4 | 1.8\|1.8 |
| AROCLOR 5460 | (700E)\|470E | 3.4 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.453)\|4.742 | 5.526 | (117)\|85.8 | 45-120 |
| TETRACHLORO-M-XYLENE | 13.39\|(5.999) | 5.526 | 242*\|(109) | 10-160 |

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Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 13:15 |
| Sample ID: SL-044-NBZ-SS-0.0-0.5DL | Date Analyzed: 04/25/12 20:19 |
| Lab Samp ID: C305-03T | Dilution Factor: 20 |
| Lab File ID: KD25014A | Matrix : SOIL |
| Ext Btch ID: CPD022S | % Moisture : 3.5 |
| Calib. Ref.: KD25002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 35 | 18\|18 |
| AROCLOR 1221 | (ND)\|ND | 35 | 18\|18 |
| AROCLOR 1232 | (ND)\|ND | 35 | 18\|18 |
| AROCLOR 1242 | (ND)\|ND | 35 | 18\|18 |
| AROCLOR 1248 | (ND)\|ND | 35 | 18\|18 |
| AROCLOR 1254 | (1800)\|1300 | 35 | 18\|18 |
| AROCLOR 1260 | (ND)\|ND | 35 | 18\|18 |
| AROCLOR 1262 | (ND)\|ND | 35 | 18\|18 |
| AROCLOR 1268 | (ND)\|ND | 35 | 18\|18 |
| AROCLOR 5432 | (ND)\|ND | 68 | 35\|35 |
| AROCLOR 5442 | (ND)\|ND | 68 | 35\|35 |
| AROCLOR 5460 | 1100\|(1300) | 68 | 35\|35 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (ND)\|ND | 5.526 | (DO)\|DO | 45-120 |
| TETRACHLORO-M-XYLENE | (ND)\|ND | 5.526 | (DO)\|DO | 10-160 |

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Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 13:15 |
| Sample ID: SL-091-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 11:52 |
| Lab Samp ID: C305-04W | Dilution Factor: 1 |
| Lab File ID: KD25005A | Matrix : SOIL |
| Ext Btch ID: CPD022S | % Moisture : 17.7 |
| Calib. Ref.: KD25002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1260 | (6.4)\|9.6 | 2.1 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 4.0 | 2.1\|2.1 |
| AROCLOR 5442 | (ND)\|ND | 4.0 | 2.1\|2.1 |
| AROCLOR 5460 | 3.2J\|(2.1J) | 4.0 | 2.1\|2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 6.180\|(6.665) | 6.480 | 95.4\|(103) | 45-120 |
| TETRACHLORO-M-XYLENE | (6.808)\|6.022 | 6.480 | (105)\|92.9 | 10-160 |

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Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 13:15 |
| Sample ID: SL-092-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 14:48 |
| Lab Samp ID: C305-05 | Dilution Factor: 1 |
| Lab File ID: KD12078A | Matrix : SOIL |
| Ext Btch ID: CPD022S | % Moisture : 14.6 |
| Calib. Ref.: KD12074A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.215)\|5.791 | 6.245 | (116)\|92.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (8.254)\|5.843 | 6.245 | (132)\|93.6 | 10-160 |

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Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 13:15 |
| Sample ID: SL-101-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 17:30 |
| Lab Samp ID: C305-06 | Dilution Factor: 1 |
| Lab File ID: KD12081A | Matrix : SOIL |
| Ext Btch ID: CPD022S | % Moisture : 12.5 |
| Calib. Ref.: KD12074A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.743\|(5.390) | 6.095 | 127*\|(88.4) | 45-120 |
| TETRACHLORO-M-XYLENE | (9.357)\|6.657 | 6.095 | (154)\|109 | 10-160 |

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Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 13:15 |
| Sample ID: SL-103-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 18:24 |
| Lab Samp ID: C305-07 | Dilution Factor: 1 |
| Lab File ID: KD12082A | Matrix : SOIL |
| Ext Btch ID: CPD022S | % Moisture : 12.8 |
| Calib. Ref.: KD12074A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.560)\|4.737 | 6.116 | (107)\|77.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.916)\|5.574 | 6.116 | (129)\|91.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 13:15 |
| Sample ID: SL-118-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 19:18 |
| Lab Samp ID: C305-08 | Dilution Factor: 1 |
| Lab File ID: KD12083A | Matrix : SOIL |
| Ext Btch ID: CPD022S | % Moisture : 8.9 |
| Calib. Ref.: KD12074A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.588)\|4.722 | 5.854 | (113)\|80.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.424)\|4.752 | 5.854 | (127)\|81.2 | 10-160 |

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Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 13:15 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 22:01 |
| Lab Samp ID: C305-09 | Dilution Factor: 1 |
| Lab File ID: KD12086A | Matrix : SOIL |
| Ext Btch ID: CPD022S | % Moisture : 7.6 |
| Calib. Ref.: KD12074A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.456)\|4.688 | 5.772 | (112)\|81.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.269)\|5.029 | 5.772 | (126)\|87.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 13:15 |
| Sample ID: SL-197-NBZ-SS-0.0-0.5 | Date Analyzed: 04/15/12 22:55 |
| Lab Samp ID: C305-10 | Dilution Factor: 1 |
| Lab File ID: KD12087A | Matrix : SOIL |
| Ext Btch ID: CPD022S | % Moisture : 13.9 |
| Calib. Ref.: KD12074A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.988)\|5.092 | 6.194 | (113)\|82.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.862)\|5.425 | 6.194 | (127)\|87.6 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 13:15 |
| Sample ID: SL-091-NBZ-SB-4.0-5.0 | Date Analyzed: 04/15/12 23:49 |
| Lab Samp ID: C305-12 | Dilution Factor: 1 |
| Lab File ID: KD12088A | Matrix : SOIL |
| Ext Btch ID: CPD022S | % Moisture : 18.6 |
| Calib. Ref.: KD12074A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 4.1 | 2.1\|2.1 |
| AROCLOR 5442 | (ND)\|ND | 4.1 | 2.1\|2.1 |
| AROCLOR 5460 | (ND)\|ND | 4.1 | 2.1\|2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.298)\|5.497 | 6.552 | (111)\|83.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.866)\|5.140 | 6.552 | (120)\|78.4 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 13:15 |
| Sample ID: DUP-05-NBZ-QC-032912 | Date Analyzed: 04/16/12 00:43 |
| Lab Samp ID: C305-13 | Dilution Factor: 1 |
| Lab File ID: KD12089A | Matrix : SOIL |
| Ext Btch ID: CPD022S | % Moisture : 15.9 |
| Calib. Ref.: KD12074A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1260 | (3.3)\|6.0 | 2.0 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5460 | (5.6)\|4.7 | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.539)\|6.615 | 6.341 | (119)\|104 | 45-120 |
| TETRACHLORO-M-XYLENE | (8.953)\|6.232 | 6.341 | (141)\|98.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 13:15 |
| Sample ID: DUP-04-NBZ-QC-032912 | Date Analyzed: 04/16/12 01:37 |
| Lab Samp ID: C305-14 | Dilution Factor: 1 |
| Lab File ID: KD12090A | Matrix : SOIL |
| Ext Btch ID: CPD022S | % Moisture : 8.7 |
| Calib. Ref.: KD12074A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.460)\|4.700 | 5.841 | (111)\|80.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.552)\|5.116 | 5.841 | (129)\|87.6 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12C305 | Date Extracted: 04/10/12 13:15 |
| Sample ID: MBLK1S | Date Analyzed: 04/14/12 23:29 |
| Lab Samp ID: 60D022SB | Dilution Factor: 1 |
| Lab File ID: KD12061A | Matrix : SOIL |
| Ext Btch ID: CPD022S | % Moisture : NA |
| Calib. Ref.: KD12057A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.794)\|4.436 | 5.333 | (109)\|83.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.713)\|4.855 | 5.333 | (107)\|91.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: 60D022SB 60D022SL 60D022SC
LAB FILE ID: KD12061A KD12062A KD12063A
DATE EXTRACTED: 04/10/1213:15 04/10/1213:15 04/10/1213:15 DATE COLLECTED: NA
DATE ANALYZED: 04/14/1223:29 04/15/1200:23 04/15/1201:17 DATE RECEIVED: 04/10/12
PREP. BATCH: CPD022S CPD022S CPD022S
CALIB. REF: KD12057A KD12057A KD12057A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (59.7)\|54.5 | (90)\|82 | 66.7 | (57.4)\|50.4 | (86)\|76 | (4)\|8 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (73.8)\|59.7 | (111)\|90 | 66.7 | (70.1)\|57.3 | (105)\|86 | (5)\|4 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | (70.6)\|70.2 | (106)\|105 | 66.7 | (67.9)\|67.9 | (102)\|102 | (4)\|3 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | (5.949)\|4.558 | (112)\|85.5 | 5.333 | (5.859)\|4.492 | (110)\|84.2 | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (6.098)\|5.297 | (114)\|99.3 | 5.333 | (6.043)\|5.157 | (113)\|96.7 | 10-160 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 14.6
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-092-NBZ-SS-0.0-0.5
LAB SAMP ID: C305-05 C305-05M C305-05S
LAB FILE ID: KD12078A KD12079A KD12080A
DATE EXTRACTED: 04/10/1213:15 04/10/1213:15 04/10/1213:15 DATE COLLECTED: 03/29/12
DATE ANALYZED: 04/15/1214:48 04/15/1215:42 04/15/1216:36 DATE RECEIVED: 03/29/12
PREP. BATCH: CPD022S CPD022S CPD022S
CALIB. REF: KD12074A KD12074A KD12074A

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 78.1 | (75.3)\|65.7 | (96)\|84 | 78.1 | (73.0)\|65.5 | (94)\|84 | (3)\|0 | 20-160 | 50 |
| Aroclor 1260 | (ND)\|ND | 78.1 | (88.5)\|69.2 | (113)\|89 | 78.1 | (86.3)\|66.9 | (111)\|86 | (3)\|3 | 20-160 | 50 |
| Aroclor 5460 | (ND)\|ND | 78.1 | 71.9\|(74.2) | 92\|(95) | 78.1 | 69.7\|(72.4) | 89\|(93) | 3\|(2) | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 6.245 | (6.794)\|5.245 | (109)\|84.0 | 6.245 | (7.252)\|5.598 | (116)\|89.6 | 45-120 |
| Tetrachloro-m-xylene | 6.245 | (7.568)\|5.380 | (121)\|86.2 | 6.245 | (7.985)\|5.885 | (128)\|94.2 | 10-160 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 8.9
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-118-NBZ-SS-0.0-0.5
LAB SAMP ID: C305-08 C305-08M C305-08S
LAB FILE ID: KD12083A KD12084A KD12085A
DATE EXTRACTED: 04/10/1213:15 04/10/1213:15 04/10/1213:15 DATE COLLECTED: 03/29/12
DATE ANALYZED: 04/15/1219:18 04/15/1220:12 04/15/1221:07 DATE RECEIVED: 03/29/12
PREP. BATCH: CPD022S CPD022S CPD022S
CALIB. REF: KD12074A KD12074A KD12074A

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 73.2 | (71.2)\|55.9 | (97)\|76 | 73.2 | (73.5)\|56.8 | (100)\|78 | (3)\|2 | 20-160 | 50 |
| Aroclor 1260 | (ND)\|ND | 73.2 | (82.5)\|62.0 | (113)\|85 | 73.2 | (82.8)\|61.3 | (113)\|84 | (0)\|1 | 20-160 | 50 |
| Aroclor 5460 | (ND)\|ND | 73.2 | (73.9)\|73.2 | (101)\|100 | 73.2 | (73.2)\|72.3 | (100)\|99 | (1)\|1 | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.854 | (6.795)\|4.868 | (116)\|83.2 | 5.854 | (6.484)\|4.665 | (111)\|79.7 | 45-120 |
| Tetrachloro-m-xylene | 5.854 | (7.420)\|4.822 | (127)\|82.4 | 5.854 | (7.411)\|4.820 | (127)\|82.3 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/04/12 18:19 |
| Sample ID: EB-NBZ-SS-032912 | Date Analyzed: 04/09/12 14:48 |
| Lab Samp ID: C305-02 | Dilution Factor: 1 |
| Lab File ID: WD09013A | Matrix : WATER |
| Ext Btch ID: HED002W | % Moisture : NA |
| Calib. Ref.: WD09008A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4-DB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-T | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DALAPON | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICAMBA | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICHLOROPROP | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DINOSEB | (ND)\|0.39J | 0.80 | 0.20\|0.20 |
| MCPA | (ND)\|ND | 100 | 20\|20 |
| MCPP | (ND)\|ND | 100 | 20\|20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (10.03)\|8.840 | 10.00 | (100)\|88.4 | 40-140 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12C305 | Date Extracted: 04/04/12 18:19 |
| Sample ID: MBLK1W | Date Analyzed: 04/09/12 13:28 |
| Lab Samp ID: HED002WB | Dilution Factor: 1 |
| Lab File ID: WD09009A | Matrix : WATER |
| Ext Btch ID: HED002W | % Moisture : NA |
| Calib. Ref.: WD09008A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4-DB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-T | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DALAPON | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICAMBA | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICHLOROPROP | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DINOSEB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| MCPA | (ND)\|ND | 100 | 20\|20 |
| MCPP | (ND)\|ND | 100 | 20\|20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (10.23)\|9.117 | 10.00 | (102)\|91.2 | 40-140 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 8151A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HED002WB | HED002WL | HED002WC | | |
| LAB FILE ID: | WD09009A | WD09010A | WD09011A | | |
| DATE EXTRACTED: | 04/04/1218:19 | 04/04/1218:19 | 04/04/1218:19 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/09/1213:28 | 04/09/1213:48 | 04/09/1214:08 | DATE RECEIVED: | 04/04/12 |
| PREP. BATCH: | HED002W | HED002W | HED002W | | |
| CALIB. REF: | WD09008A | WD09008A | WD09008A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 1.00 | (1.05)\|0.966 | (105)\|97 | 1.00 | (1.11)\|0.998 | (111)\|100 | (6)\|3 | 40-130 | 30 |
| 2,4-DB | (ND)\|ND | 1.00 | 0.915\|(1.01) | 92\|(101) | 1.00 | 0.942\|(0.964) | 94\|(96) | 3\|(5) | 30-160 | 30 |
| 2,4,5-T | (ND)\|ND | 1.00 | (0.971)\|0.917 | (97)\|92 | 1.00 | (1.01)\|0.957 | (101)\|96 | (4)\|4 | 40-140 | 30 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 1.00 | (1.02)\|0.941 | (102)\|94 | 1.00 | (1.08)\|0.983 | (108)\|98 | (6)\|4 | 60-140 | 30 |
| Dalapon | (ND)\|ND | 1.00 | 0.620J\|(0.654J) | 62\|(65) | 1.00 | 0.646J\|(0.673J) | 65\|(67) | 4\|(3) | 30-130 | 30 |
| Dicamba | (ND)\|ND | 1.00 | (0.949)\|0.903 | (95)\|90 | 1.00 | (0.981)\|0.938 | (98)\|94 | (3)\|4 | 50-130 | 30 |
| Dichloroprop | (ND)\|ND | 1.00 | 1.06\|(1.07) | 106\|(107) | 1.00 | (1.11)\|1.03 | (111)\|103 | (5)\|4 | 70-150 | 30 |
| Dinoseb | (ND)\|ND | 1.00 | (0.849)\|0.795J | (85)\|80 | 1.00 | (0.896)\|0.745J | (90)\|74 | (5)\|6 | 20-130 | 30 |
| MCPA | (ND)\|ND | 50.0 | (55.8J)\|49.6J | (112)\|99 | 50.0 | (58.0J)\|50.5J | (116)\|101 | (4)\|2 | 30-150 | 30 |
| MCPP | (ND)\|ND | 50.0 | (51.8J)\|40.9J | (104)\|82 | 50.0 | (56.2J)\|42.3J | (112)\|85 | (8)\|3 | 30-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 10.00 | (10.52)\|9.605 | (105)\|96.1 | 10.00 | (10.41)\|9.435 | (104)\|94.4 | 40-140 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-044-NBZ-SS-0.0-0.5DL | Date Analyzed: 04/10/12 22:55 |
| Lab Samp ID: C305-03T | Dilution Factor: 5 |
| Lab File ID: WD09094A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 3.5 |
| Calib. Ref.: WD09091A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 19 | 9.3\|9.3 |
| 2,4-DB | (ND)\|ND | 8.8 | 4.4\|4.4 |
| 2,4,5-T | (ND)\|ND | 0.88 | 0.44\|0.44 |
| 2,4,5-TP(SILVEX) | 50\|(10) | 0.88 | 0.44\|0.44 |
| DALAPON | (ND)\|ND | 47 | 23\|23 |
| DICAMBA | (ND)\|15 | 6.2 | 3.1\|3.1 |
| DICHLOROPROP | (ND)\|ND | 12 | 6.2\|6.2 |
| DINOSEB | (ND)\|ND | 8.8 | 4.4\|4.4 |
| MCPA | (ND)\|ND | 1300 | 650\|650 |
| MCPP | (ND)\|3700 | 1300 | 650\|650 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (97.13)\|85.39 | 155.4 | (62.5)\|54.9 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-091-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 22:30 |
| Lab Samp ID: C305-04 | Dilution Factor: 1 |
| Lab File ID: WD09034A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 17.7 |
| Calib. Ref.: WD09020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.4 | 2.2\|2.2 |
| 2,4-DB | (ND)\|ND | 2.1 | 1.0\|1.0 |
| 2,4,5-T | (ND)\|ND | 0.21 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | 0.79\|(ND) | 0.21 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.5\|5.5 |
| DICAMBA | (ND)\|ND | 1.5 | 0.73\|0.73 |
| DICHLOROPROP | (ND)\|ND | 2.9 | 1.5\|1.5 |
| DINOSEB | (ND)\|ND | 2.1 | 1.0\|1.0 |
| MCPA | (ND)\|ND | 300 | 150\|150 |
| MCPP | (ND)\|ND | 300 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (79.81)\|64.83 | 182.3 | (43.8)\|35.6 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-092-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 22:54 |
| Lab Samp ID: C305-05 | Dilution Factor: 1 |
| Lab File ID: WD09035A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 14.6 |
| Calib. Ref.: WD09020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.3\|5.3 |
| DICAMBA | (ND)\|ND | 1.4 | 0.70\|0.70 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| MCPA | (ND)\|ND | 290 | 150\|150 |
| MCPP | (ND)\|ND | 290 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (65.39)\|53.27 | 175.6 | (37.2)\|30.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-101-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 00:52 |
| Lab Samp ID: C305-06 | Dilution Factor: 1 |
| Lab File ID: WD09040A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 12.5 |
| Calib. Ref.: WD09037A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.097\|0.097 |
| 2,4,5-TP(SILVEX) | 2.4\|(ND) | 0.19 | 0.097\|0.097 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.69\|0.69 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| MCPA | (ND)\|ND | 290 | 140\|140 |
| MCPP | (ND)\|ND | 290 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (52.44)\|35.83 | 171.4 | (30.6)\|20.9 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-103-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 01:15 |
| Lab Samp ID: C305-07 | Dilution Factor: 1 |
| Lab File ID: WD09041A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 12.8 |
| Calib. Ref.: WD09037A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.097\|0.097 |
| 2,4,5-TP(SILVEX) | 1.2\|(ND) | 0.19 | 0.097\|0.097 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.69\|0.69 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| MCPA | (ND)\|ND | 290 | 140\|140 |
| MCPP | (ND)\|ND | 290 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (73.62)\|59.01 | 172.0 | (42.8)\|34.3 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-118-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 01:39 |
| Lab Samp ID: C305-08 | Dilution Factor: 1 |
| Lab File ID: WD09042A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 8.9 |
| Calib. Ref.: WD09037A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.093\|0.093 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.093\|0.093 |
| DALAPON | (ND)\|ND | 9.9 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.66\|0.66 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (48.57)\|37.94 | 164.7 | (29.5)\|23.0 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-130-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 02:50 |
| Lab Samp ID: C305-09 | Dilution Factor: 1 |
| Lab File ID: WD09045A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 7.6 |
| Calib. Ref.: WD09037A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 1.9\|1.9 |
| 2,4-DB | (ND)\|ND | 1.8 | 0.92\|0.92 |
| 2,4,5-T | (ND)\|ND | 0.18 | 0.092\|0.092 |
| 2,4,5-TP(SILVEX) | 0.53\|(ND) | 0.18 | 0.092\|0.092 |
| DALAPON | (ND)\|ND | 9.7 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.65\|0.65 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.8 | 0.92\|0.92 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (56.29)\|43.83 | 162.3 | (34.7)\|27.0 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 18:17 |
| Sample ID: SL-197-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 03:13 |
| Lab Samp ID: C305-10 | Dilution Factor: 1 |
| Lab File ID: WD09046A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 13.9 |
| Calib. Ref.: WD09037A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | 3.0\|(ND) | 2.0 | 0.99\|0.99 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.099\|0.099 |
| 2,4,5-TP(SILVEX) | 1.2\|(ND) | 0.20 | 0.099\|0.099 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.70\|0.70 |
| DICHLOROPROP | 2.0J\|(ND) | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 0.99\|0.99 |
| MCPA | (ND)\|ND | 290 | 150\|150 |
| MCPP | (ND)\|ND | 290 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (65.25)\|48.89 | 174.2 | (37.5)\|28.1 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 18:17 |
| Sample ID: DUP-05-NBZ-QC-032912 | Date Analyzed: 04/10/12 03:37 |
| Lab Samp ID: C305-13 | Dilution Factor: 1 |
| Lab File ID: WD09047A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 15.9 |
| Calib. Ref.: WD09037A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.3 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | 1.3\|(ND) | 0.20 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.4\|5.4 |
| DICAMBA | (ND)\|ND | 1.4 | 0.71\|0.71 |
| DICHLOROPROP | (ND)\|ND | 2.9 | 1.4\|1.4 |
| DINOSEB | 1.1J\|(ND) | 2.0 | 1.0\|1.0 |
| MCPA | (ND)\|ND | 300 | 150\|150 |
| MCPP | (ND)\|ND | 300 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (67.29)\|53.77 | 178.4 | (37.7)\|30.1 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 18:17 |
| Sample ID: DUP-04-NBZ-QC-032912 | Date Analyzed: 04/10/12 04:00 |
| Lab Samp ID: C305-14 | Dilution Factor: 1 |
| Lab File ID: WD09048A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : 8.7 |
| Calib. Ref.: WD09037A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.093\|0.093 |
| 2,4,5-TP(SILVEX) | 0.77\|(ND) | 0.19 | 0.093\|0.093 |
| DALAPON | (ND)\|ND | 9.9 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.66\|0.66 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (81.16)\|66.29 | 164.3 | (49.4)\|40.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 18:17 |
| Sample ID: MBLK1S | Date Analyzed: 04/09/12 17:27 |
| Lab Samp ID: HED003SB | Dilution Factor: 1 |
| Lab File ID: WD09021A | Matrix : SOIL |
| Ext Btch ID: HED003S | % Moisture : NA |
| Calib. Ref.: WD09020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | 1.4\|(ND) | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (78.81)\|68.76 | 150.0 | (52.5)\|45.8 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HED003SB | HED003SL | HED003SC | | |
| LAB FILE ID: | WD09021A | WD09022A | WD09023A | | |
| DATE EXTRACTED: | 04/05/1218:17 | 04/05/1218:17 | 04/05/1218:17 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/09/1217:27 | 04/09/1217:48 | 04/09/1218:12 | DATE RECEIVED: | 04/05/12 |
| PREP. BATCH: | HED003S | HED003S | HED003S | | |
| CALIB. REF: | WD09020A | WD09020A | WD09020A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | (14.0)\|13.6 | (93)\|91 | 15.0 | 8.52\|(9.33) | 57\|(62) | 49\|(37) | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | (18.0)\|22.0 | (120)\|147 | 15.0 | (11.4)\|10.0 | (76)\|67 | (45)\|75* | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | 15.6\|(16.1) | 104\|(107) | 15.0 | 12.1\|(12.4) | 81\|(83) | 25\|(26) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | 1.4\|(ND) | 15.0 | 23.0\|(18.9) | 153*\|(126) | 15.0 | 19.7\|(17.8) | 131\|(119) | 15\|(6) | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | (19.3)\|18.0 | (129)\|120 | 15.0 | (12.2)\|12.1 | (81)\|81 | (45)\|39 | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (16.6)\|16.1 | (111)\|107 | 15.0 | (12.2)\|11.8 | (81)\|79 | (31)\|31 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | (18.9)\|54.3 | (126)\|362* | 15.0 | (14.6)\|50.0 | (97)\|333* | (26)\|8 | 60-160 | 50 |
| Dinoseb | (ND)\|ND | 15.0 | (12.7)\|12.2 | (85)\|81 | 15.0 | (12.2)\|9.94 | (81)\|66 | (4)\|20 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (1140)\|710 | (152)\|95 | 750 | (738)\|520 | (98)\|69 | (43)\|31 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | 1300\|(600) | 173*\|(80) | 750 | 434\|(445) | 58\|(59) | 100*\|(30) | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 | (182.7)\|165.3 | (122)\|110 | 150.0 | (128.8)\|116.5 | (85.9)\|77.7 | 10-150 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 8151A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 14.6 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-092-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C305-05 | C305-05M | C305-05S | | |
| LAB FILE ID: | WD09035A | WD09038A | WD09039A | | |
| DATE EXTRACTED: | 04/05/1218:17 | 04/05/1218:17 | 04/05/1218:17 | DATE COLLECTED: | 03/29/12 |
| DATE ANALYZED: | 04/09/1222:54 | 04/10/1200:04 | 04/10/1200:28 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | HED003S | HED003S | HED003S | | |
| CALIB. REF: | WD09020A | WD09037A | WD09037A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 17.6 | 5.12\|(5.75) | 29*\|(33) | 17.6 | 4.90\|(7.21) | 28*\|(41) | 4\|(23) | 30-140 | 50 |
| 2,4-DB | (ND)\|ND | 17.6 | 3.67\|(6.07) | 21*\|(35) | 17.6 | 6.43\|(8.55) | 37\|(49) | 55*\|(34) | 30-160 | 50 |
| 2,4,5-T | (ND)\|ND | 17.6 | 5.29\|(7.38) | 30\|(42) | 17.6 | 5.58\|(7.37) | 32\|(42) | 5\|(0) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 17.6 | (11.4)\|30.5 | (59)\|174* | 17.6 | (11.3)\|26.0 | (58)\|148 | (1)\|16 | 30-150 | 50 |
| Dalapon | (ND)\|ND | 17.6 | 4.85J\|(6.36J) | 28\|(36) | 17.6 | 4.37J\|(5.27J) | 25\|(30) | 10\|(19) | 10-160 | 50 |
| Dicamba | (ND)\|ND | 17.6 | 5.44\|(5.93) | 31*\|(34*) | 17.6 | 5.97\|(6.65) | 34*\|(38*) | 9\|(11) | 50-130 | 50 |
| Dichloroprop | (ND)\|ND | 17.6 | 6.65\|(15.2) | 38*\|(87) | 17.6 | 7.25\|(37.5) | 41*\|(213*) | 9\|(85*) | 60-150 | 50 |
| Dinoseb | (ND)\|ND | 17.6 | (7.12)\|6.60 | (41)\|38 | 17.6 | 6.53\|(7.25) | 37\|(41) | 9\|(9) | 10-130 | 50 |
| MCPA | (ND)\|ND | 878 | (1180)\|108J | (134)\|12 | 878 | (1320)\|137J | (150)\|16 | (11)\|24 | 10-160 | 50 |
| MCPP | (ND)\|ND | 878 | 169J\|(264J) | 19*\|(30) | 878 | 174J\|(267J) | 20*\|(30) | 3\|(1) | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 175.6 | (72.15)\|57.79 | (41.1)\|32.9 | 175.6 | (79.71)\|64.40 | (45.4)\|36.7 | 10-150 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: 8.9
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-118-NBZ-SS-0.0-0.5
LAB SAMP ID: C305-08 C305-08M C305-08S
LAB FILE ID: WD09042A WD09043A WD09044A
DATE EXTRACTED: 04/05/1218:17 04/05/1218:17 04/05/1218:17 DATE COLLECTED: 03/29/12
DATE ANALYZED: 04/10/1201:39 04/10/1202:02 04/10/1202:26 DATE RECEIVED: 03/29/12
PREP. BATCH: HED003S HED003S HED003S
CALIB. REF: WD09037A WD09037A WD09037A

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 16.5 | 3.93J\|(11.7) | 24*\|(71) | 16.5 | 4.58\|(14.4) | 28*\|(87) | 15\|(21) | 30-140 | 50 |
| 2,4-DB | (ND)\|ND | 16.5 | 4.84\|(8.76) | 29*\|(53) | 16.5 | 4.57\|(8.05) | 28*\|(49) | 6\|(8) | 30-160 | 50 |
| 2,4,5-T | (ND)\|ND | 16.5 | 4.09\|(6.78) | 25*\|(41) | 16.5 | 4.62\|(6.22) | 28*\|(38) | 12\|(9) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 16.5 | (7.53)\|31.8 | (46)\|193* | 16.5 | (10.0)\|34.2 | (61)\|208* | (28)\|7 | 30-150 | 50 |
| Dalapon | (ND)\|ND | 16.5 | (6.48J)\|5.38J | (39)\|33 | 16.5 | (6.16J)\|5.42J | (37)\|33 | (5)\|1 | 10-160 | 50 |
| Dicamba | (ND)\|ND | 16.5 | 4.65\|(5.20) | 28*\|(32*) | 16.5 | 5.02\|(5.41) | 30*\|(33*) | 8\|(4) | 50-130 | 50 |
| Dichloroprop | (ND)\|ND | 16.5 | 6.04\|(20.6) | 37*\|(125) | 16.5 | 7.01\|(27.5) | 43*\|(167*) | 15\|(29) | 60-150 | 50 |
| Dinoseb | (ND)\|ND | 16.5 | 6.24\|(7.45) | 38\|(45) | 16.5 | 6.22\|(7.13) | 38\|(43) | 0\|(4) | 10-130 | 50 |
| MCPA | (ND)\|ND | 823 | (892)\|1530 | (108)\|186* | 823 | (1060)\|653J | (129)\|(80) | (17)\|184* | 10-160 | 50 |
| MCPP | (ND)\|ND | 823 | 115J\|(284) | 14\|(34) | 823 | 125J\|(278) | 15\|(34) | 8\|(2) | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 164.7 (60.77)\|46.61 | (36.9)\|28.3 | 164.7 | (60.91)\|48.00 | (37.0)\|29.2 | 10-150 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 19:25 |
| Sample ID: SL-044-NBZ-SS-0.0-0.5 | Date Analyzed: 04/07/12 02:44 |
| Lab Samp ID: C305-03 | Dilution Factor: 1 |
| Lab File ID: XD06022A | Matrix : SOIL |
| Ext Btch ID: EXD002S | % Moisture : NA |
| Calib. Ref.: XD06014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1810 | 2000 | 90.7 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 19:25 |
| Sample ID: SL-091-NBZ-SS-0.0-0.5 | Date Analyzed: 04/07/12 03:18 |
| Lab Samp ID: C305-04 | Dilution Factor: 1 |
| Lab File ID: XD06023A | Matrix : SOIL |
| Ext Btch ID: EXD002S | % Moisture : NA |
| Calib. Ref.: XD06014A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1860 | 2000 | 92.8 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 19:25 |
| Sample ID: SL-092-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 13:38 |
| Lab Samp ID: C305-05 | Dilution Factor: 1 |
| Lab File ID: XD09008A | Matrix : SOIL |
| Ext Btch ID: EXD002S | % Moisture : NA |
| Calib. Ref.: XD09004A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1910 | 2000 | 95.5 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 19:25 |
| Sample ID: SL-091-NBZ-SB-4.0-5.0 | Date Analyzed: 04/07/12 06:08 |
| Lab Samp ID: C305-12 | Dilution Factor: .99 |
| Lab File ID: XD06028A | Matrix : SOIL |
| Ext Btch ID: EXD002S | % Moisture : NA |
| Calib. Ref.: XD06025A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1900 | 1980 | 96.0 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 19:25 |
| Sample ID: DUP-05-NBZ-QC-032912 | Date Analyzed: 04/07/12 06:42 |
| Lab Samp ID: C305-13 | Dilution Factor: .99 |
| Lab File ID: XD06029A | Matrix : SOIL |
| Ext Btch ID: EXD002S | % Moisture : NA |
| Calib. Ref.: XD06025A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1850 | 1980 | 93.4 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 19:25 |
| Sample ID: MBLK1S | Date Analyzed: 04/06/12 16:31 |
| Lab Samp ID: EXD002SB | Dilution Factor: 1 |
| Lab File ID: XD06004A | Matrix : SOIL |
| Ext Btch ID: EXD002S | % Moisture : NA |
| Calib. Ref.: XD06003A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1890 | 2000 | 94.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD002SB | EXD002SL | EXD002SC | | |
| LAB FILE ID: | XD06004A | XD06005A | XD06006A | | |
| DATE EXTRACTED: | 04/05/1219:25 | 04/05/1219:25 | 04/05/1219:25 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/06/1216:31 | 04/06/1217:05 | 04/06/1217:39 | DATE RECEIVED: | 04/05/12 |
| PREP. BATCH: | EXD002S | EXD002S | EXD002S | | |
| CALIB. REF: | XD06003A | XD06003A | XD06003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 1800 | 90 | 2000 | 1870 | 93 | 4 | 70-130 | 50 |
| RDX | ND | 2000 | 1990 | 99 | 2000 | 1940 | 97 | 3 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2050 | 103 | 2000 | 2030 | 102 | 1 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2020 | 101 | 2000 | 2040 | 102 | 1 | 70-130 | 50 |
| Tetryl | ND | 2000 | 1900 | 95 | 2000 | 1960 | 98 | 3 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 2150 | 107 | 2000 | 2200 | 110 | 2 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 1710 | 86 | 2000 | 1770 | 88 | 3 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 1890 | 95 | 2000 | 1860 | 93 | 2 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 1870 | 94 | 2000 | 1910 | 95 | 2 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 1990 | 100 | 2000 | 2000 | 100 | 0 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2060 | 103 | 2000 | 2120 | 106 | 3 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 2150 | 107 | 2000 | 2030 | 102 | 5 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1820 | 91 | 2000 | 1770 | 89 | 3 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 1960 | 98 | 2000 | 1910 | 96 | 3 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1810 | 91 | 2000 | 1860 | 93 | 3 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2120 | 106 | 2000 | 2070 | 103 | 3 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1920 | 96 | 2000 | 1880 | 94 | 65-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 .98 .99
SAMPLE ID: SL-092-NBZ-SS-0.0-0.5
LAB SAMP ID: C305-05 C305-05M C305-05S
LAB FILE ID: XD09008A XD09009A XD09010A
DATE EXTRACTED: 04/05/1219:25 04/05/1219:25 04/05/1219:25 DATE COLLECTED: 03/29/12
DATE ANALYZED: 04/09/1213:38 04/09/1214:12 04/09/1214:46 DATE RECEIVED: 03/29/12
PREP. BATCH: EXD002S EXD002S EXD002S
CALIB. REF: XD09004A XD09004A XD09004A

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 1960 | 1610 | 82 | 1980 | 1710 | 86 | 5 | 70-130 | 50 |
| RDX | ND | 1960 | 1800 | 92 | 1980 | 1810 | 91 | 1 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 1960 | 1940 | 99 | 1980 | 1950 | 99 | 0 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 1960 | 1930 | 98 | 1980 | 1970 | 99 | 1 | 70-130 | 50 |
| Tetryl | ND | 1960 | 1800 | 92 | 1980 | 1730 | 87 | 6 | 60-130 | 50 |
| Nitrobenzene | ND | 1960 | 2030 | 103 | 1980 | 2060 | 104 | 1 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 1960 | 1680 | 86 | 1980 | 1700 | 86 | 0 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 1960 | 1800 | 92 | 1980 | 1760 | 89 | 3 | 70-140 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 1960 | 1800 | 92 | 1980 | 1830 | 92 | 0 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 1960 | 1900 | 97 | 1980 | 1940 | 98 | 1 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 1960 | 2010 | 102 | 1980 | 2020 | 102 | 0 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 1960 | 1870 | 96 | 1980 | 2060 | 104 | 8 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 1960 | 1830 | 93 | 1980 | 1740 | 88 | 6 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 1960 | 1970 | 101 | 1980 | 1780 | 90 | 12 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 1960 | 653 | 33 | 1980 | 601 | 30 | 10 | 20-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 1960 | 1180 | 60 | 1980 | 1180 | 59 | 2 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 1960 | 1830 | 93 | 1980 | 2020 | 102 | 65-135 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 03/31/12 12:02 |
| Sample ID: EB-NBZ-SB-032912 | Date Analyzed: 04/02/12 14:52 |
| Lab Samp ID: C305-01 | Dilution Factor: 1 |
| Lab File ID: XD02009A | Matrix : WATER |
| Ext Btch ID: EXC028W | % Moisture : NA |
| Calib. Ref.: XD02002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | ND | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 3.30 | 4.000 | 82.5 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 03/31/12 12:02 |
| Sample ID: EB-NBZ-SS-032912 | Date Analyzed: 04/02/12 15:26 |
| Lab Samp ID: C305-02 | Dilution Factor: 1 |
| Lab File ID: XD02010A | Matrix : WATER |
| Ext Btch ID: EXC028W | % Moisture : NA |
| Calib. Ref.: XD02002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | 0.29J | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 3.30 | 4.000 | 82.4 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/31/12 |
| Batch No. : 12C305 | Date Extracted: 03/31/12 12:02 |
| Sample ID: MBLK1W | Date Analyzed: 04/02/12 11:27 |
| Lab Samp ID: EXC028WB | Dilution Factor: 1 |
| Lab File ID: XD02003A | Matrix : WATER |
| Ext Btch ID: EXC028W | % Moisture : NA |
| Calib. Ref.: XD02002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | ND | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 3.00 | 4.000 | 75.1 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 8330A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | EXC028WB | EXC028WL | EXC028WC | | |
| LAB FILE ID: | XD02003A | XD02004A | XD02005A | | |
| DATE EXTRACTED: | 03/31/1212:02 | 03/31/1212:02 | 03/31/1212:02 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/02/1211:27 | 04/02/1212:01 | 04/02/1212:36 | DATE RECEIVED: | 03/31/12 |
| PREP. BATCH: | EXC028W | EXC028W | EXC028W | | |
| CALIB. REF: | XD02002A | XD02002A | XD02002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 4.00 | 3.95 | 99 | 4.00 | 4.12 | 103 | 4 | 70-130 | 30 |
| RDX | ND | 4.00 | 3.16 | 79 | 4.00 | 3.34 | 84 | 6 | 60-130 | 30 |
| 1,3,5-Trinitrobenzene | ND | 4.00 | 4.10 | 102 | 4.00 | 4.33 | 108 | 5 | 70-130 | 30 |
| 1,3-Dinitrobenzene | ND | 4.00 | 3.35 | 84 | 4.00 | 3.56 | 89 | 6 | 70-130 | 30 |
| Tetryl | ND | 4.00 | 4.04 | 101 | 4.00 | 4.31 | 108 | 7 | 70-130 | 30 |
| Nitrobenzene | ND | 4.00 | 3.36 | 84 | 4.00 | 3.53 | 88 | 5 | 70-130 | 30 |
| 2,4,6-Trinitrotoluene | ND | 4.00 | 4.05 | 101 | 4.00 | 4.38 | 110 | 8 | 70-130 | 30 |
| 4-Amino-2,6-Dinitrotoluene | ND | 4.00 | 3.76 | 94 | 4.00 | 3.99 | 100 | 6 | 70-130 | 30 |
| 2-Amino-4,6-Dinitrotoluene | ND | 4.00 | 3.55 | 89 | 4.00 | 3.82 | 96 | 7 | 70-130 | 30 |
| 2,6-Dinitrotoluene | ND | 4.00 | 3.99 | 100 | 4.00 | 4.26 | 106 | 7 | 70-130 | 30 |
| 2,4-Dinitrotoluene | ND | 4.00 | 4.13 | 103 | 4.00 | 4.31 | 108 | 4 | 70-130 | 30 |
| 2-Nitrotoluene | ND | 4.00 | 3.73 | 93 | 4.00 | 4.28 | 107 | 14 | 70-130 | 30 |
| 3-Nitrotoluene | ND | 4.00 | 3.72 | 93 | 4.00 | 3.50 | 88 | 6 | 70-130 | 30 |
| 4-Nitrotoluene | ND | 4.00 | 3.51 | 88 | 4.00 | 3.99 | 100 | 13 | 70-130 | 30 |
| 2,4-Diamino-6-nitrotoluene | ND | 4.00 | 1.27J | 32 | 4.00 | 1.26J | 32 | 1 | 20-130 | 30 |
| 2,6-Diamino-4-nitrotoluene | ND | 4.00 | 1.24J | 31 | 4.00 | 1.22J | 31 | 1 | 20-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 4.00 | 3.29 | 82 | 4.00 | 3.45 | 86 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/29/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/29/12 |
| Batch No. | : 12C305 | Date Extracted | : 03/31/12 10:54 |
| Sample ID | : EB-NBZ-SB-032912 | Date Analyzed | : 04/02/12 12:11 |
| Lab Samp ID | : C305-01 | Dilution Factor | : 1 |
| Lab File ID | : PD02009A | Matrix | : WATER |
| Ext Btch ID | : EXC027W | % Moisture | : NA |
| Calib. Ref. | : PD02002A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 596 | 500.0 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/29/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/29/12 |
| Batch No. | : 12C305 | Date Extracted | : 03/31/12 10:54 |
| Sample ID | : EB-NBZ-SS-032912 | Date Analyzed | : 04/02/12 12:25 |
| Lab Samp ID | : C305-02 | Dilution Factor | : 1 |
| Lab File ID | : PD02010A | Matrix | : WATER |
| Ext Btch ID | : EXC027W | % Moisture | : NA |
| Calib. Ref. | : PD02002A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 579 | 500.0 | 116 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/31/12 |
| Batch No. : 12C305 | Date Extracted: 03/31/12 10:54 |
| Sample ID: MBLK1W | Date Analyzed: 04/02/12 10:48 |
| Lab Samp ID: EXC027WB | Dilution Factor: 1 |
| Lab File ID: PD02003A | Matrix : WATER |
| Ext Btch ID: EXC027W | % Moisture : NA |
| Calib. Ref.: PD02002A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 576 | 500.0 | 115 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | EXC027WB | EXC027WL | EXC027WC | | |
| LAB FILE ID: | PD02003A | PD02004A | PD02005A | | |
| DATE EXTRACTED: | 03/31/1210:54 | 03/31/1210:54 | 03/31/1210:54 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/02/1210:48 | 04/02/1211:02 | 04/02/1211:16 | DATE RECEIVED: | 03/31/12 |
| PREP. BATCH: | EXC027W | EXC027W | EXC027W | | |
| CALIB. REF: | PD02002A | PD02002A | PD02002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 1870 | 1930 | 103 | 1870 | 1940 | 103 | 1 | 50-150 | 30 |
| PETN | ND | 1870 | 1940 | 103 | 1870 | 1930 | 103 | 0 | 50-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 500 | 580 | 116 | 500 | 577 | 115 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/29/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/29/12 |
| Batch No. | : 12C305 | Date Extracted | : 04/05/12 19:25 |
| Sample ID | : SL-044-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/09/12 18:44 |
| Lab Samp ID | : C305-03 | Dilution Factor | : 1 |
| Lab File ID | : PD09018A | Matrix | : SOIL |
| Ext Btch ID | : EXD002S | % Moisture | : NA |
| Calib. Ref. | : PD09014A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2460 | 2000 | 123 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 19:25 |
| Sample ID: SL-091-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 18:58 |
| Lab Samp ID: C305-04 | Dilution Factor: 1 |
| Lab File ID: PD09019A | Matrix : SOIL |
| Ext Btch ID: EXD002S | % Moisture : NA |
| Calib. Ref.: PD09014A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2330 | 2000 | 116 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/29/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/29/12 |
| Batch No. | : 12C305 | Date Extracted | : 04/05/12 19:25 |
| Sample ID | : SL-092-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/09/12 19:12 |
| Lab Samp ID | : C305-05 | Dilution Factor | : 1 |
| Lab File ID | : PD09020A | Matrix | : SOIL |
| Ext Btch ID | : EXD002S | % Moisture | : NA |
| Calib. Ref. | : PD09014A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2350 | 2000 | 117 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/29/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/29/12 |
| Batch No. | : 12C305 | Date Extracted | : 04/05/12 19:25 |
| Sample ID | : SL-091-NBZ-SB-4.0-5.0 | Date Analyzed | : 04/09/12 19:54 |
| Lab Samp ID | : C305-12 | Dilution Factor | : .99 |
| Lab File ID | : PD09023A | Matrix | : SOIL |
| Ext Btch ID | : EXD002S | % Moisture | : NA |
| Calib. Ref. | : PD09014A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2350 | 1980 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 19:25 |
| Sample ID: DUP-05-NBZ-QC-032912 | Date Analyzed: 04/09/12 20:08 |
| Lab Samp ID: C305-13 | Dilution Factor: .99 |
| Lab File ID: PD09024A | Matrix : SOIL |
| Ext Btch ID: EXD002S | % Moisture : NA |
| Calib. Ref.: PD09014A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2340 | 1980 | 118 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12C305 | Date Extracted: 04/05/12 19:25 |
| Sample ID: MBLK1S | Date Analyzed: 04/09/12 18:06 |
| Lab Samp ID: EXD002SB | Dilution Factor: 1 |
| Lab File ID: PD09015A | Matrix : SOIL |
| Ext Btch ID: EXD002S | % Moisture : NA |
| Calib. Ref.: PD09014A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2330 | 2000 | 117 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD002SB | EXD002SX | EXD002SY | | |
| LAB FILE ID: | PD09015A | PD09016A | PD09017A | | |
| DATE EXTRACTED: | 04/05/1219:25 | 04/05/1219:25 | 04/05/1219:25 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/09/1218:06 | 04/09/1218:17 | 04/09/1218:31 | DATE RECEIVED: | 04/05/12 |
| PREP. BATCH: | EXD002S | EXD002S | EXD002S | | |
| CALIB. REF: | PD09014A | PD09014A | PD09014A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7870 | 105 | 7500 | 7880 | 105 | 0 | 50-150 | 50 |
| PETN | ND | 7500 | 7410 | 99 | 7500 | 7530 | 100 | 2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2380 | 119 | 2000 | 2360 | 118 | 65-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-092-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C305-05 | C305-05M | C305-05S | | |
| LAB FILE ID: | PD09020A | PD09021A | PD09022A | | |
| DATE EXTRACTED: | 04/05/1219:25 | 04/05/1219:25 | 04/05/1219:25 | DATE COLLECTED: | 03/29/12 |
| DATE ANALYZED: | 04/09/1219:12 | 04/09/1219:26 | 04/09/1219:40 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | EXD002S | EXD002S | EXD002S | | |
| CALIB. REF: | PD09014A | PD09014A | PD09014A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7620 | 102 | 7500 | 7640 | 102 | 0 | 50-150 | 50 |
| PETN | ND | 7500 | 7340 | 98 | 7500 | 7290 | 97 | 1 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2330 | 116 | 2000 | 2330 | 116 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| SDG NO. : 12C305 | Date Extracted: 04/05/12 12:10 |
| Sample ID: EB-NBZ-SB-032912 | Date Analyzed: 04/16/12 14:12 |
| Lab Samp ID: C305-01 | Dilution Factor: 1 |
| Lab File ID: 98D08045 | Matrix : WATER |
| Ext Btch ID: IMD008W | % Moisture : NA |
| Calib. Ref.: 98D08040 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Aluminum | ND | 0.100 | 0.0200 |
| Antimony | ND | 0.00100 | 0.000500 |
| Arsenic | ND | 0.00100 | 0.000200 |
| Barium | ND | 0.00100 | 0.000500 |
| Beryllium | ND | 0.00100 | 0.000100 |
| Boron | ND | 0.0100 | 0.00500 |
| Cadmium | ND | 0.00100 | 0.000200 |
| Calcium | ND | 0.100 | 0.0250 |
| Chromium | ND | 0.00100 | 0.000200 |
| Cobalt | ND | 0.00100 | 0.000200 |
| Copper | ND | 0.00100 | 0.000500 |
| Iron | ND | 0.100 | 0.0100 |
| Lead | ND | 0.00100 | 0.000100 |
| Magnesium | ND | 0.100 | 0.0100 |
| Manganese | ND | 0.00100 | 0.000200 |
| Molybdenum | ND | 0.00200 | 0.000500 |
| Nickel | ND | 0.00100 | 0.000200 |
| Potassium | ND | 0.100 | 0.0200 |
| Selenium | ND | 0.00100 | 0.000300 |
| Silver | ND | 0.00100 | 0.000200 |
| Sodium | ND | 0.100 | 0.0500 |
| Strontium | ND | 0.00200 | 0.00100 |
| Thallium | ND | 0.00100 | 0.000200 |
| Tin | ND | 0.00100 | 0.000200 |
| Titanium | ND | 0.00200 | 0.000500 |
| Vanadium | ND | 0.00100 | 0.000500 |
| Zinc | ND | 0.0200 | 0.0100 |
| Lithium | ND | 0.00200 | 0.000500 |
| Phosphorus | ND | 0.0500 | 0.0250 |
| Zirconium | ND | 0.00500 | 0.00200 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/29/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/29/12 |
| SDG NO. | : 12C305 | Date Extracted | : 04/05/12 12:10 |
| Sample ID | : EB-NBZ-SS-032912 | Date Analyzed | : 04/16/12 14:17 |
| Lab Samp ID | : C305-02 | Dilution Factor | : 1 |
| Lab File ID | : 98D08046 | Matrix | : WATER |
| Ext Btch ID | : IMD008W | % Moisture | : NA |
| Calib. Ref. | : 98D08040 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Aluminum | 0.0266J | 0.100 | 0.0200 |
| Antimony | ND | 0.00100 | 0.000500 |
| Arsenic | ND | 0.00100 | 0.000200 |
| Barium | ND | 0.00100 | 0.000500 |
| Beryllium | ND | 0.00100 | 0.000100 |
| Boron | ND | 0.0100 | 0.00500 |
| Cadmium | ND | 0.00100 | 0.000200 |
| Calcium | ND | 0.100 | 0.0250 |
| Chromium | ND | 0.00100 | 0.000200 |
| Cobalt | ND | 0.00100 | 0.000200 |
| Copper | 0.00108 | 0.00100 | 0.000500 |
| Iron | ND | 0.100 | 0.0100 |
| Lead | ND | 0.00100 | 0.000100 |
| Magnesium | ND | 0.100 | 0.0100 |
| Manganese | ND | 0.00100 | 0.000200 |
| Molybdenum | ND | 0.00200 | 0.000500 |
| Nickel | ND | 0.00100 | 0.000200 |
| Potassium | ND | 0.100 | 0.0200 |
| Selenium | ND | 0.00100 | 0.000300 |
| Silver | ND | 0.00100 | 0.000200 |
| Sodium | 0.112 | 0.100 | 0.0500 |
| Strontium | ND | 0.00200 | 0.00100 |
| Thallium | ND | 0.00100 | 0.000200 |
| Tin | ND | 0.00100 | 0.000200 |
| Titanium | ND | 0.00200 | 0.000500 |
| Vanadium | ND | 0.00100 | 0.000500 |
| Zinc | ND | 0.0200 | 0.0100 |
| Lithium | ND | 0.00200 | 0.000500 |
| Phosphorus | ND | 0.0500 | 0.0250 |
| Zirconium | ND | 0.00500 | 0.00200 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| SDG NO. : 12C305 | Date Extracted: 04/05/12 12:10 |
| Sample ID: MBLK1W | Date Analyzed: 04/16/12 13:59 |
| Lab Samp ID: IMD008WB | Dilution Factor: 1 |
| Lab File ID: 98D08042 | Matrix : WATER |
| Ext Btch ID: IMD008W | % Moisture : NA |
| Calib. Ref.: 98D08040 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Aluminum | ND | 0.100 | 0.0200 |
| Antimony | ND | 0.00100 | 0.000500 |
| Arsenic | ND | 0.00100 | 0.000200 |
| Barium | ND | 0.00100 | 0.000500 |
| Beryllium | ND | 0.00100 | 0.000100 |
| Boron | ND | 0.0100 | 0.00500 |
| Cadmium | ND | 0.00100 | 0.000200 |
| Calcium | ND | 0.100 | 0.0250 |
| Chromium | ND | 0.00100 | 0.000200 |
| Cobalt | ND | 0.00100 | 0.000200 |
| Copper | ND | 0.00100 | 0.000500 |
| Iron | ND | 0.100 | 0.0100 |
| Lead | ND | 0.00100 | 0.000100 |
| Magnesium | ND | 0.100 | 0.0100 |
| Manganese | ND | 0.00100 | 0.000200 |
| Molybdenum | ND | 0.00200 | 0.000500 |
| Nickel | ND | 0.00100 | 0.000200 |
| Potassium | ND | 0.100 | 0.0200 |
| Selenium | ND | 0.00100 | 0.000300 |
| Silver | ND | 0.00100 | 0.000200 |
| Sodium | ND | 0.100 | 0.0500 |
| Strontium | ND | 0.00200 | 0.00100 |
| Thallium | ND | 0.00100 | 0.000200 |
| Tin | ND | 0.00100 | 0.000200 |
| Titanium | ND | 0.00200 | 0.000500 |
| Vanadium | ND | 0.00100 | 0.000500 |
| Zinc | ND | 0.0200 | 0.0100 |
| Lithium | ND | 0.00200 | 0.000500 |
| Phosphorus | ND | 0.0500 | 0.0250 |
| Zirconium | ND | 0.00500 | 0.00200 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C305
METHOD: METHOD 6020

MATRIX: WATER % MOISTURE: NA
DILTN FACTR: 1 1 1
SAMPLE ID: MBLK1W
CONTROL NO.: IMD008WB IMD008WL IMD008WC
LAB FILE ID: 98D08042 98D08043 98D08044
DATIME EXTRCTD: 04/05/1212:10 04/05/1212:10 04/05/1212:10 DATE COLLECTED: NA
DATIME ANALYZD: 04/16/1213:59 04/16/1214:03 04/16/1214:08 DATE RECEIVED: 04/05/12
PREP. BATCH: IMD008W IMD008W IMD008W
CALIB. REF: 98D08040 98D08040 98D08040

ACCESSION:

| PARAMETER | BLNK RSLT mg/L | SPIKE AMT mg/L | BS RSLT mg/L | BS % REC | SPIKE AMT mg/L | BSD RSLT mg/L | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2.50 | 2.55 | 102 | 2.50 | 2.55 | 102 | 0 | 80-120 | 20 |
| Antimony | ND | 0.0250 | 0.0259 | 104 | 0.0250 | 0.0256 | 102 | 1 | 80-120 | 20 |
| Arsenic | ND | 0.0250 | 0.0253 | 101 | 0.0250 | 0.0247 | 99 | 3 | 80-120 | 20 |
| Barium | ND | 0.0250 | 0.0256 | 102 | 0.0250 | 0.0251 | 101 | 2 | 80-120 | 20 |
| Beryllium | ND | 0.0250 | 0.0248 | 99 | 0.0250 | 0.0239 | 96 | 4 | 80-120 | 20 |
| Boron | ND | 0.0250 | 0.0251 | 100 | 0.0250 | 0.0242 | 97 | 3 | 80-120 | 20 |
| Cadmium | ND | 0.0250 | 0.0253 | 101 | 0.0250 | 0.0250 | 100 | 1 | 80-120 | 20 |
| Calcium | ND | 2.50 | 2.61 | 104 | 2.50 | 2.67 | 107 | 2 | 80-120 | 20 |
| Chromium | ND | 0.0250 | 0.0242 | 97 | 0.0250 | 0.0241 | 96 | 0 | 80-120 | 20 |
| Cobalt | ND | 0.0250 | 0.0245 | 98 | 0.0250 | 0.0243 | 97 | 1 | 80-120 | 20 |
| Copper | ND | 0.0250 | 0.0240 | 96 | 0.0250 | 0.0242 | 97 | 1 | 80-120 | 20 |
| Iron | ND | 2.50 | 2.60 | 104 | 2.50 | 2.59 | 104 | 0 | 80-120 | 20 |
| Lead | ND | 0.0250 | 0.0241 | 97 | 0.0250 | 0.0244 | 97 | 1 | 80-120 | 20 |
| Magnesium | ND | 2.50 | 2.51 | 101 | 2.50 | 2.50 | 100 | 1 | 80-120 | 20 |
| Manganese | ND | 0.0250 | 0.0241 | 96 | 0.0250 | 0.0241 | 96 | 0 | 80-120 | 20 |
| Molybdenum | ND | 0.0250 | 0.0249 | 100 | 0.0250 | 0.0246 | 98 | 1 | 80-120 | 20 |
| Nickel | ND | 0.0250 | 0.0240 | 96 | 0.0250 | 0.0240 | 96 | 0 | 80-120 | 20 |
| Potassium | ND | 2.50 | 2.63 | 105 | 2.50 | 2.64 | 106 | 1 | 80-120 | 20 |
| Selenium | ND | 0.0250 | 0.0257 | 103 | 0.0250 | 0.0257 | 103 | 0 | 80-120 | 20 |
| Silver | ND | 0.0250 | 0.0256 | 102 | 0.0250 | 0.0253 | 101 | 1 | 80-120 | 20 |
| Sodium | ND | 2.50 | 2.40 | 96 | 2.50 | 2.40 | 96 | 0 | 80-120 | 20 |
| Strontium | ND | 0.0250 | 0.0248 | 99 | 0.0250 | 0.0251 | 100 | 1 | 80-120 | 20 |
| Thallium | ND | 0.0250 | 0.0238 | 95 | 0.0250 | 0.0237 | 95 | 1 | 80-120 | 20 |
| Tin | ND | 0.0250 | 0.0255 | 102 | 0.0250 | 0.0253 | 101 | 1 | 80-120 | 20 |
| Titanium | ND | 0.0250 | 0.0250 | 100 | 0.0250 | 0.0244 | 98 | 2 | 80-120 | 20 |
| Vanadium | ND | 0.0250 | 0.0244 | 98 | 0.0250 | 0.0243 | 97 | 0 | 80-120 | 20 |
| Zinc | ND | 0.0500 | 0.0504 | 101 | 0.0500 | 0.0510 | 102 | 1 | 80-120 | 20 |
| Lithium | ND | 0.0250 | 0.0246 | 99 | 0.0250 | 0.0240 | 96 | 2 | 80-120 | 20 |
| Phosphorus | ND | 0.250 | 0.247 | 99 | 0.250 | 0.249 | 100 | 1 | 80-120 | 20 |
| Zirconium | ND | 0.0250 | 0.0251 | 101 | 0.0250 | 0.0254 | 102 | 1 | 80-120 | 20 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| SDG NO. : 12C305 | Date Extracted: 04/05/12 11:54 |
| Sample ID: SL-044-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 21:16 # 04/11/12 14:24 |
| Lab Samp ID: C305-03 #C305-03T | Dilution Factor: 0.990 # 4.95 |
| Lab File ID: 98D05022 #98D06024 | Matrix : SOIL |
| Ext Btch ID: IMD009S | % Moisture : 3.5 |
| Calib. Ref.: 98D05017 #98D06017 | Instrument ID : T-I98 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 11800 | 24.6 | 12.3 |
| | Antimony | 8.25 | 0.205 | 0.103 |
| | Arsenic | 4.15 | 0.410 | 0.205 |
| | Barium | 90.2 | 0.410 | 0.205 |
| | Beryllium | 0.453 | 0.103 | 0.0513 |
| | Boron | 4.80J | 5.13 | 2.56 |
| | Cadmium | 3.41 | 0.103 | 0.0513 |
| | Calcium | 3700 | 20.5 | 10.3 |
| | Chromium | 34.7 | 0.410 | 0.205 |
| | Cobalt | 6.47 | 0.103 | 0.0513 |
| # | Copper | 1740 | 2.05 | 1.03 |
| | Iron | 22700 | 20.5 | 10.3 |
| | Lead | 200 | 0.205 | 0.103 |
| | Magnesium | 4070 | 10.3 | 5.13 |
| | Manganese | 387 | 0.513 | 0.256 |
| | Molybdenum | 2.78 | 0.103 | 0.0513 |
| | Nickel | 26.2 | 0.410 | 0.205 |
| | Potassium | 2870 | 61.6 | 30.8 |
| | Selenium | 0.227J | 0.410 | 0.205 |
| | Silver | 2.28 | 0.103 | 0.0513 |
| | Sodium | 88.1J | 103 | 51.3 |
| | Strontium | 16.7 | 0.513 | 0.256 |
| | Thallium | 0.203 | 0.103 | 0.0513 |
| | Tin | 6.86J | 10.3 | 5.13 |
| | Titanium | 919 | 1.03 | 0.513 |
| | Vanadium | 33.1 | 0.103 | 0.0513 |
| | Zinc | 1060 | 3.08 | 1.54 |
| | Lithium | 20.6 | 2.05 | 1.03 |
| | Phosphorus | 360 | 12.3 | 6.16 |
| | Zirconium | ND | 5.13 | 2.56 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/29/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/29/12 |
| SDG NO. | : 12C305 | Date Extracted | : 04/05/12 11:54 |
| Sample ID | : SL-091-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/10/12 21:20 |
| Lab Samp ID | : C305-04 | Dilution Factor | : 0.971 |
| Lab File ID | : 98D05023 | Matrix | : SOIL |
| Ext Btch ID | : IMD009S | % Moisture | : 17.7 |
| Calib. Ref. | : 98D05017 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10100 | 28.3 | 14.2 |
| Antimony | 0.182J | 0.236 | 0.118 |
| Arsenic | 3.34 | 0.472 | 0.236 |
| Barium | 80.8 | 0.472 | 0.236 |
| Beryllium | 0.427 | 0.118 | 0.0590 |
| Boron | 3.05J | 5.90 | 2.95 |
| Cadmium | 0.243 | 0.118 | 0.0590 |
| Calcium | 3260 | 23.6 | 11.8 |
| Chromium | 13.2 | 0.472 | 0.236 |
| Cobalt | 4.21 | 0.118 | 0.0590 |
| Copper | 7.03 | 0.472 | 0.236 |
| Iron | 16300 | 23.6 | 11.8 |
| Lead | 8.04 | 0.236 | 0.118 |
| Magnesium | 3820 | 11.8 | 5.90 |
| Manganese | 261 | 0.590 | 0.295 |
| Molybdenum | 0.487 | 0.118 | 0.0590 |
| Nickel | 8.75 | 0.472 | 0.236 |
| Potassium | 3170 | 70.8 | 35.4 |
| Selenium | ND | 0.472 | 0.236 |
| Silver | ND | 0.118 | 0.0590 |
| Sodium | 69.9J | 118 | 59.0 |
| Strontium | 21.8 | 0.590 | 0.295 |
| Thallium | 0.219 | 0.118 | 0.0590 |
| Tin | ND | 11.8 | 5.90 |
| Titanium | 816 | 1.18 | 0.590 |
| Vanadium | 26.2 | 0.118 | 0.0590 |
| Zinc | 61.0 | 3.54 | 1.77 |
| Lithium | 24.4 | 2.36 | 1.18 |
| Phosphorus | 356 | 14.2 | 7.08 |
| Zirconium | ND | 5.90 | 2.95 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/29/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/29/12 |
| SDG NO. | : 12C305 | Date Extracted | : 04/05/12 11:54 |
| Sample ID | : SL-092-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/10/12 21:39 |
| Lab Samp ID | : C305-05 | Dilution Factor | : 0.971 |
| Lab File ID | : 98D05027 | Matrix | : SOIL |
| Ext Btch ID | : IMD009S | % Moisture | : 14.6 |
| Calib. Ref. | : 98D05017 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12400 | 27.3 | 13.6 |
| Antimony | 0.215J | 0.227 | 0.114 |
| Arsenic | 4.10 | 0.455 | 0.227 |
| Barium | 83.6 | 0.455 | 0.227 |
| Beryllium | 0.457 | 0.114 | 0.0569 |
| Boron | ND | 5.69 | 2.84 |
| Cadmium | 0.215 | 0.114 | 0.0569 |
| Calcium | 2690 | 22.7 | 11.4 |
| Chromium | 16.3 | 0.455 | 0.227 |
| Cobalt | 4.36 | 0.114 | 0.0569 |
| Copper | 6.33 | 0.455 | 0.227 |
| Iron | 17700 | 22.7 | 11.4 |
| Lead | 6.38 | 0.227 | 0.114 |
| Magnesium | 4310 | 11.4 | 5.69 |
| Manganese | 294 | 0.569 | 0.284 |
| Molybdenum | 0.458 | 0.114 | 0.0569 |
| Nickel | 9.68 | 0.455 | 0.227 |
| Potassium | 2930 | 68.2 | 34.1 |
| Selenium | 0.228J | 0.455 | 0.227 |
| Silver | ND | 0.114 | 0.0569 |
| Sodium | 81.8J | 114 | 56.9 |
| Strontium | 20.0 | 0.569 | 0.284 |
| Thallium | 0.212 | 0.114 | 0.0569 |
| Tin | ND | 11.4 | 5.69 |
| Titanium | 858 | 1.14 | 0.569 |
| Vanadium | 31.3 | 0.114 | 0.0569 |
| Zinc | 43.7 | 3.41 | 1.71 |
| Lithium | 30.1 | 2.27 | 1.14 |
| Phosphorus | 283 | 13.6 | 6.82 |
| Zirconium | ND | 5.69 | 2.84 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| SDG NO. : 12C305 | Date Extracted: 04/05/12 11:54 |
| Sample ID: SL-101-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 22:02 |
| Lab Samp ID: C305-06 | Dilution Factor: 0.980 |
| Lab File ID: 98D05032 | Matrix : SOIL |
| Ext Btch ID: IMD009S | % Moisture : 12.5 |
| Calib. Ref.: 98D05029 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11900 | 26.9 | 13.4 |
| Antimony | 0.245 | 0.224 | 0.112 |
| Arsenic | 3.16 | 0.448 | 0.224 |
| Barium | 111 | 0.448 | 0.224 |
| Beryllium | 0.402 | 0.112 | 0.0560 |
| Boron | ND | 5.60 | 2.80 |
| Cadmium | 0.262 | 0.112 | 0.0560 |
| Calcium | 3590 | 22.4 | 11.2 |
| Chromium | 29.5 | 0.448 | 0.224 |
| Cobalt | 5.86 | 0.112 | 0.0560 |
| Copper | 9.62 | 0.448 | 0.224 |
| Iron | 20400 | 22.4 | 11.2 |
| Lead | 17.7 | 0.224 | 0.112 |
| Magnesium | 6640 | 11.2 | 5.60 |
| Manganese | 287 | 0.560 | 0.280 |
| Molybdenum | 0.447 | 0.112 | 0.0560 |
| Nickel | 21.8 | 0.448 | 0.224 |
| Potassium | 3870 | 67.2 | 33.6 |
| Selenium | ND | 0.448 | 0.224 |
| Silver | ND | 0.112 | 0.0560 |
| Sodium | 61.2J | 112 | 56.0 |
| Strontium | 18.2 | 0.560 | 0.280 |
| Thallium | 0.223 | 0.112 | 0.0560 |
| Tin | ND | 11.2 | 5.60 |
| Titanium | 1110 | 1.12 | 0.560 |
| Vanadium | 40.7 | 0.112 | 0.0560 |
| Zinc | 62.2 | 3.36 | 1.68 |
| Lithium | 25.7 | 2.24 | 1.12 |
| Phosphorus | 485 | 13.4 | 6.72 |
| Zirconium | ND | 5.60 | 2.80 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| SDG NO. : 12C305 | Date Extracted: 04/05/12 11:54 |
| Sample ID: SL-103-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 22:07 |
| Lab Samp ID: C305-07 | Dilution Factor: 0.980 |
| Lab File ID: 98D05033 | Matrix : SOIL |
| Ext Btch ID: IMD009S | % Moisture : 12.8 |
| Calib. Ref.: 98D05029 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9970 | 27.0 | 13.5 |
| Antimony | 0.196J | 0.225 | 0.112 |
| Arsenic | 3.00 | 0.450 | 0.225 |
| Barium | 69.2 | 0.450 | 0.225 |
| Beryllium | 0.359 | 0.112 | 0.0562 |
| Boron | ND | 5.62 | 2.81 |
| Cadmium | 0.171 | 0.112 | 0.0562 |
| Calcium | 2890 | 22.5 | 11.2 |
| Chromium | 15.8 | 0.450 | 0.225 |
| Cobalt | 4.62 | 0.112 | 0.0562 |
| Copper | 6.66 | 0.450 | 0.225 |
| Iron | 18000 | 22.5 | 11.2 |
| Lead | 10.3 | 0.225 | 0.112 |
| Magnesium | 5050 | 11.2 | 5.62 |
| Manganese | 247 | 0.562 | 0.281 |
| Molybdenum | 0.381 | 0.112 | 0.0562 |
| Nickel | 8.97 | 0.450 | 0.225 |
| Potassium | 3590 | 67.4 | 33.7 |
| Selenium | ND | 0.450 | 0.225 |
| Silver | ND | 0.112 | 0.0562 |
| Sodium | ND | 112 | 56.2 |
| Strontium | 11.4 | 0.562 | 0.281 |
| Thallium | 0.203 | 0.112 | 0.0562 |
| Tin | ND | 11.2 | 5.62 |
| Titanium | 994 | 1.12 | 0.562 |
| Vanadium | 34.1 | 0.112 | 0.0562 |
| Zinc | 49.6 | 3.37 | 1.69 |
| Lithium | 21.4 | 2.25 | 1.12 |
| Phosphorus | 358 | 13.5 | 6.74 |
| Zirconium | ND | 5.62 | 2.81 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/29/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/29/12 |
| SDG NO. | : 12C305 | Date Extracted | : 04/05/12 11:54 |
| Sample ID | : SL-118-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/10/12 22:26 |
| Lab Samp ID | : C305-08 | Dilution Factor | : 0.952 |
| Lab File ID | : 98D05037 | Matrix | : SOIL |
| Ext Btch ID | : IMD009S | % Moisture | : 8.9 |
| Calib. Ref. | : 98D05029 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11000 | 25.1 | 12.5 |
| Antimony | 0.226 | 0.209 | 0.105 |
| Arsenic | 4.10 | 0.418 | 0.209 |
| Barium | 78.0 | 0.418 | 0.209 |
| Beryllium | 0.395 | 0.105 | 0.0523 |
| Boron | ND | 5.23 | 2.61 |
| Cadmium | 0.213 | 0.105 | 0.0523 |
| Calcium | 2930 | 20.9 | 10.5 |
| Chromium | 17.0 | 0.418 | 0.209 |
| Cobalt | 4.97 | 0.105 | 0.0523 |
| Copper | 7.96 | 0.418 | 0.209 |
| Iron | 19300 | 20.9 | 10.5 |
| Lead | 10.2 | 0.209 | 0.105 |
| Magnesium | 5680 | 10.5 | 5.23 |
| Manganese | 255 | 0.523 | 0.261 |
| Molybdenum | 0.398 | 0.105 | 0.0523 |
| Nickel | 10.8 | 0.418 | 0.209 |
| Potassium | 3130 | 62.7 | 31.4 |
| Selenium | ND | 0.418 | 0.209 |
| Silver | ND | 0.105 | 0.0523 |
| Sodium | 55.8J | 105 | 52.3 |
| Strontium | 13.6 | 0.523 | 0.261 |
| Thallium | 0.232 | 0.105 | 0.0523 |
| Tin | ND | 10.5 | 5.23 |
| Titanium | 1040 | 1.05 | 0.523 |
| Vanadium | 37.4 | 0.105 | 0.0523 |
| Zinc | 54.8 | 3.14 | 1.57 |
| Lithium | 25.7 | 2.09 | 1.05 |
| Phosphorus | 458 | 12.5 | 6.27 |
| Zirconium | ND | 5.23 | 2.61 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/29/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/29/12 |
| SDG NO. | : 12C305 | Date Extracted | : 04/18/12 10:17 |
| Sample ID | : SL-130-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/19/12 14:53 |
| Lab Samp ID | : C305-09R | Dilution Factor | : 1.00 |
| Lab File ID | : 98D11027 | Matrix | : SOIL |
| Ext Btch ID | : IMD027S | % Moisture | : 7.6 |
| Calib. Ref. | : 98D11017 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9740 | 26.0 | 13.0 |
| Antimony | 0.190J | 0.216 | 0.108 |
| Arsenic | 3.05 | 0.433 | 0.216 |
| Barium | 71.6 | 0.433 | 0.216 |
| Beryllium | 0.372 | 0.108 | 0.0541 |
| Boron | ND | 5.41 | 2.71 |
| Cadmium | 0.166 | 0.108 | 0.0541 |
| Calcium | 2440 | 21.6 | 10.8 |
| Chromium | 17.5 | 0.433 | 0.216 |
| Cobalt | 5.48 | 0.108 | 0.0541 |
| Copper | 7.14 | 0.433 | 0.216 |
| Iron | 20500 | 21.6 | 10.8 |
| Lead | 4.32 | 0.216 | 0.108 |
| Magnesium | 6150 | 10.8 | 5.41 |
| Manganese | 293 | 0.541 | 0.271 |
| Molybdenum | 0.354 | 0.108 | 0.0541 |
| Nickel | 10.3 | 0.433 | 0.216 |
| Potassium | 3140 | 64.9 | 32.5 |
| Selenium | ND | 0.433 | 0.216 |
| Silver | ND | 0.108 | 0.0541 |
| Sodium | ND | 108 | 54.1 |
| Strontium | 6.88 | 0.541 | 0.271 |
| Thallium | 0.225 | 0.108 | 0.0541 |
| Tin | ND | 10.8 | 5.41 |
| Titanium | 1010 | 1.08 | 0.541 |
| Vanadium | 37.4 | 0.108 | 0.0541 |
| Zinc | 50.1 | 3.25 | 1.62 |
| Lithium | 25.8 | 2.16 | 1.08 |
| Phosphorus | 384 | 13.0 | 6.49 |
| Zirconium | ND | 5.41 | 2.71 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/29/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/29/12 |
| SDG NO. | : 12C305 | Date Extracted | : 04/05/12 11:54 |
| Sample ID | : SL-197-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/10/12 23:04 |
| Lab Samp ID | : C305-10 | Dilution Factor | : 0.990 |
| Lab File ID | : 98D05045 | Matrix | : SOIL |
| Ext Btch ID | : IMD009S | % Moisture | : 13.9 |
| Calib. Ref. | : 98D05041 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12100 | 27.6 | 13.8 |
| Antimony | 0.205J | 0.230 | 0.115 |
| Arsenic | 3.09 | 0.460 | 0.230 |
| Barium | 93.5 | 0.460 | 0.230 |
| Beryllium | 0.455 | 0.115 | 0.0575 |
| Boron | ND | 5.75 | 2.87 |
| Cadmium | 0.273 | 0.115 | 0.0575 |
| Calcium | 3080 | 23.0 | 11.5 |
| Chromium | 19.0 | 0.460 | 0.230 |
| Cobalt | 5.34 | 0.115 | 0.0575 |
| Copper | 8.32 | 0.460 | 0.230 |
| Iron | 19100 | 23.0 | 11.5 |
| Lead | 17.9 | 0.230 | 0.115 |
| Magnesium | 5380 | 11.5 | 5.75 |
| Manganese | 281 | 0.575 | 0.287 |
| Molybdenum | 0.458 | 0.115 | 0.0575 |
| Nickel | 12.6 | 0.460 | 0.230 |
| Potassium | 3840 | 69.0 | 34.5 |
| Selenium | ND | 0.460 | 0.230 |
| Silver | ND | 0.115 | 0.0575 |
| Sodium | ND | 115 | 57.5 |
| Strontium | 17.8 | 0.575 | 0.287 |
| Thallium | 0.215 | 0.115 | 0.0575 |
| Tin | ND | 11.5 | 5.75 |
| Titanium | 999 | 1.15 | 0.575 |
| Vanadium | 36.8 | 0.115 | 0.0575 |
| Zinc | 54.8 | 3.45 | 1.72 |
| Lithium | 22.3 | 2.30 | 1.15 |
| Phosphorus | 407 | 13.8 | 6.90 |
| Zirconium | ND | 5.75 | 2.87 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| SDG NO. : 12C305 | Date Extracted: 04/05/12 11:54 |
| Sample ID: SL-091-NBZ-SB-4.0-5.0 | Date Analyzed: 04/10/12 23:08 |
| Lab Samp ID: C305-12 | Dilution Factor: 0.966 |
| Lab File ID: 98D05046 | Matrix : SOIL |
| Ext Btch ID: IMD009S | % Moisture : 18.6 |
| Calib. Ref.: 98D05041 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 25300 | 28.5 | 14.2 |
| Antimony | 0.300 | 0.237 | 0.119 |
| Arsenic | 6.50 | 0.475 | 0.237 |
| Barium | 103 | 0.475 | 0.237 |
| Beryllium | 0.886 | 0.119 | 0.0593 |
| Boron | ND | 5.93 | 2.97 |
| Cadmium | 0.138 | 0.119 | 0.0593 |
| Calcium | 2200 | 23.7 | 11.9 |
| Chromium | 24.1 | 0.475 | 0.237 |
| Cobalt | 10.9 | 0.119 | 0.0593 |
| Copper | 8.07 | 0.475 | 0.237 |
| Iron | 24000 | 23.7 | 11.9 |
| Lead | 6.40 | 0.237 | 0.119 |
| Magnesium | 4410 | 11.9 | 5.93 |
| Manganese | 208 | 0.593 | 0.297 |
| Molybdenum | 2.47 | 0.119 | 0.0593 |
| Nickel | 17.1 | 0.475 | 0.237 |
| Potassium | 1240 | 71.2 | 35.6 |
| Selenium | 0.284J | 0.475 | 0.237 |
| Silver | 0.0646J | 0.119 | 0.0593 |
| Sodium | 254 | 119 | 59.3 |
| Strontium | 19.7 | 0.593 | 0.297 |
| Thallium | 0.166 | 0.119 | 0.0593 |
| Tin | ND | 11.9 | 5.93 |
| Titanium | 915 | 1.19 | 0.593 |
| Vanadium | 47.8 | 0.119 | 0.0593 |
| Zinc | 46.4 | 3.56 | 1.78 |
| Lithium | 59.6 | 2.37 | 1.19 |
| Phosphorus | 193 | 14.2 | 7.12 |
| Zirconium | ND | 5.93 | 2.97 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/29/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/29/12 |
| SDG NO. | : 12C305 | Date Extracted | : 04/05/12 11:54 |
| Sample ID | : DUP-05-NBZ-QC-032912 | Date Analyzed | : 04/10/12 23:13 |
| Lab Samp ID | : C305-13 | Dilution Factor | : 0.976 |
| Lab File ID | : 98D05047 | Matrix | : SOIL |
| Ext Btch ID | : IMD009S | % Moisture | : 15.9 |
| Calib. Ref. | : 98D05041 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12400 | 27.9 | 13.9 |
| Antimony | 0.158J | 0.232 | 0.116 |
| Arsenic | 4.25 | 0.464 | 0.232 |
| Barium | 84.2 | 0.464 | 0.232 |
| Beryllium | 0.466 | 0.116 | 0.0580 |
| Boron | ND | 5.80 | 2.90 |
| Cadmium | 0.198 | 0.116 | 0.0580 |
| Calcium | 2730 | 23.2 | 11.6 |
| Chromium | 16.3 | 0.464 | 0.232 |
| Cobalt | 4.51 | 0.116 | 0.0580 |
| Copper | 6.16 | 0.464 | 0.232 |
| Iron | 18000 | 23.2 | 11.6 |
| Lead | 6.26 | 0.232 | 0.116 |
| Magnesium | 4400 | 11.6 | 5.80 |
| Manganese | 311 | 0.580 | 0.290 |
| Molybdenum | 0.479 | 0.116 | 0.0580 |
| Nickel | 9.57 | 0.464 | 0.232 |
| Potassium | 2950 | 69.6 | 34.8 |
| Selenium | ND | 0.464 | 0.232 |
| Silver | ND | 0.116 | 0.0580 |
| Sodium | 79.7J | 116 | 58.0 |
| Strontium | 20.2 | 0.580 | 0.290 |
| Thallium | 0.216 | 0.116 | 0.0580 |
| Tin | ND | 11.6 | 5.80 |
| Titanium | 875 | 1.16 | 0.580 |
| Vanadium | 31.6 | 0.116 | 0.0580 |
| Zinc | 44.4 | 3.48 | 1.74 |
| Lithium | 30.4 | 2.32 | 1.16 |
| Phosphorus | 300 | 13.9 | 6.96 |
| Zirconium | ND | 5.80 | 2.90 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/29/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/29/12 |
| SDG NO. : 12C305 | Date Extracted: 04/05/12 11:54 |
| Sample ID: DUP-04-NBZ-QC-032912 | Date Analyzed: 04/10/12 23:18 |
| Lab Samp ID: C305-14 | Dilution Factor: 1.00 |
| Lab File ID: 98D05048 | Matrix : SOIL |
| Ext Btch ID: IMD009S | % Moisture : 8.7 |
| Calib. Ref.: 98D05041 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11300 | 26.3 | 13.1 |
| Antimony | 0.199J | 0.219 | 0.110 |
| Arsenic | 4.36 | 0.438 | 0.219 |
| Barium | 72.2 | 0.438 | 0.219 |
| Beryllium | 0.399 | 0.110 | 0.0548 |
| Boron | ND | 5.48 | 2.74 |
| Cadmium | 0.201 | 0.110 | 0.0548 |
| Calcium | 2580 | 21.9 | 11.0 |
| Chromium | 17.8 | 0.438 | 0.219 |
| Cobalt | 4.96 | 0.110 | 0.0548 |
| Copper | 7.81 | 0.438 | 0.219 |
| Iron | 19100 | 21.9 | 11.0 |
| Lead | 9.09 | 0.219 | 0.110 |
| Magnesium | 5680 | 11.0 | 5.48 |
| Manganese | 247 | 0.548 | 0.274 |
| Molybdenum | 0.376 | 0.110 | 0.0548 |
| Nickel | 10.9 | 0.438 | 0.219 |
| Potassium | 2850 | 65.7 | 32.9 |
| Selenium | ND | 0.438 | 0.219 |
| Silver | ND | 0.110 | 0.0548 |
| Sodium | 56.0J | 110 | 54.8 |
| Strontium | 11.8 | 0.548 | 0.274 |
| Thallium | 0.230 | 0.110 | 0.0548 |
| Tin | ND | 11.0 | 5.48 |
| Titanium | 1040 | 1.10 | 0.548 |
| Vanadium | 38.6 | 0.110 | 0.0548 |
| Zinc | 51.6 | 3.29 | 1.64 |
| Lithium | 25.4 | 2.19 | 1.10 |
| Phosphorus | 349 | 13.1 | 6.57 |
| Zirconium | ND | 5.48 | 2.74 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| SDG NO. : 12C305 | Date Extracted: 04/05/12 11:54 |
| Sample ID: MBLK1S | Date Analyzed: 04/10/12 21:02 |
| Lab Samp ID: IMD009SB | Dilution Factor: 1 |
| Lab File ID: 98D05019 | Matrix : SOIL |
| Ext Btch ID: IMD009S | % Moisture : NA |
| Calib. Ref.: 98D05017 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| SDG NO. | : 12C305 | Date Extracted | : 04/18/12 10:17 |
| Sample ID | : MBLK2S | Date Analyzed | : 04/19/12 14:35 |
| Lab Samp ID | : IMD027SB | Dilution Factor | : 1 |
| Lab File ID | : 98D11023 | Matrix | : SOIL |
| Ext Btch ID | : IMD027S | % Moisture | : NA |
| Calib. Ref. | : 98D11017 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C305
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: NA
DILTN FACTR: 1 1 1
SAMPLE ID: MBLK1S
CONTROL NO.: IMD009SB IMD009SL IMD009SC
LAB FILE ID: 98D05019 98D05020 98D05021
DATIME EXTRCTD: 04/05/1211:54 04/05/1211:54 04/05/1211:54 DATE COLLECTED: NA
DATIME ANALYZD: 04/10/1221:02 04/10/1221:07 04/10/1221:11 DATE RECEIVED: 04/05/12
PREP. BATCH: IMD009S IMD009S IMD009S
CALIB. REF: 98D05017 98D05017 98D05017

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2520 | 101 | 2500 | 2590 | 104 | 3 | 80-120 | 20 |
| Antimony | ND | 25.0 | 24.3 | 97 | 25.0 | 25.0 | 100 | 3 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 23.7 | 95 | 25.0 | 24.1 | 96 | 2 | 80-120 | 20 |
| Barium | ND | 25.0 | 24.0 | 96 | 25.0 | 24.5 | 98 | 2 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 23.3 | 93 | 25.0 | 23.8 | 95 | 2 | 80-120 | 20 |
| Boron | ND | 25.0 | 23.6 | 94 | 25.0 | 24.1 | 97 | 2 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 23.7 | 95 | 25.0 | 24.2 | 97 | 2 | 80-120 | 20 |
| Calcium | ND | 2500 | 2560 | 102 | 2500 | 2580 | 103 | 1 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.3 | 97 | 25.0 | 24.5 | 98 | 1 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 23.3 | 93 | 25.0 | 23.9 | 96 | 3 | 80-120 | 20 |
| Copper | ND | 25.0 | 23.9 | 96 | 25.0 | 24.1 | 96 | 1 | 80-120 | 20 |
| Iron | ND | 2500 | 2520 | 101 | 2500 | 2550 | 102 | 1 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.4 | 102 | 25.0 | 25.6 | 102 | 1 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2550 | 102 | 2500 | 2610 | 104 | 2 | 80-120 | 20 |
| Manganese | ND | 25.0 | 23.9 | 96 | 25.0 | 24.3 | 97 | 2 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 23.9 | 96 | 25.0 | 24.7 | 99 | 3 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.0 | 96 | 25.0 | 24.2 | 97 | 1 | 80-120 | 20 |
| Potassium | ND | 2500 | 2620 | 105 | 2500 | 2610 | 104 | 1 | 80-120 | 20 |
| Selenium | ND | 25.0 | 23.1 | 92 | 25.0 | 23.9 | 96 | 4 | 80-120 | 20 |
| Silver | ND | 25.0 | 24.1 | 96 | 25.0 | 24.8 | 99 | 3 | 80-120 | 20 |
| Sodium | ND | 2500 | 2470 | 99 | 2500 | 2490 | 99 | 1 | 80-120 | 20 |
| Strontium | ND | 25.0 | 24.3 | 97 | 25.0 | 24.8 | 99 | 2 | 80-120 | 20 |
| Thallium | ND | 25.0 | 24.9 | 100 | 25.0 | 25.0 | 100 | 0 | 80-120 | 20 |
| Tin | ND | 25.0 | 26.6 | 107 | 25.0 | 27.2 | 109 | 2 | 80-120 | 20 |
| Titanium | ND | 25.0 | 24.2 | 97 | 25.0 | 25.0 | 100 | 3 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 24.3 | 97 | 25.0 | 24.5 | 98 | 1 | 80-120 | 20 |
| Zinc | ND | 25.0 | 23.2 | 93 | 25.0 | 23.9 | 96 | 3 | 80-120 | 20 |
| Lithium | ND | 25.0 | 24.8 | 99 | 25.0 | 25.0 | 100 | 1 | 80-120 | 20 |
| Phosphorus | ND | 250 | 242 | 97 | 250 | 246 | 98 | 2 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 24.9 | 100 | 25.0 | 25.2 | 101 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C305
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK2S | | | | |
| CONTROL NO.: | IMD027SB | IMD027SL | IMD027SC | | |
| LAB FILE ID: | 98D11023 | 98D11024 | 98D11025 | | |
| DATIME EXTRCTD: | 04/18/1210:17 | 04/18/1210:17 | 04/18/1210:17 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/19/1214:35 | 04/19/1214:40 | 04/19/1214:44 | DATE RECEIVED: | 04/18/12 |
| PREP. BATCH: | IMD027S | IMD027S | IMD027S | | |
| CALIB. REF: | 98D11017 | 98D11017 | 98D11017 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2490 | 100 | 2500 | 2520 | 101 | 1 | 80-120 | 20 |
| Antimony | ND | 25.0 | 25.2 | 101 | 25.0 | 25.1 | 100 | 1 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 24.2 | 97 | 25.0 | 24.1 | 96 | 1 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.3 | 101 | 25.0 | 25.1 | 100 | 1 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 24.5 | 98 | 25.0 | 24.3 | 97 | 1 | 80-120 | 20 |
| Boron | ND | 25.0 | 24.9 | 100 | 25.0 | 24.8 | 99 | 0 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 24.3 | 97 | 25.0 | 24.1 | 96 | 1 | 80-120 | 20 |
| Calcium | ND | 2500 | 2510 | 100 | 2500 | 2500 | 100 | 0 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.2 | 97 | 25.0 | 24.5 | 98 | 1 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 24.9 | 99 | 25.0 | 25.1 | 100 | 1 | 80-120 | 20 |
| Copper | ND | 25.0 | 23.8 | 95 | 25.0 | 24.1 | 96 | 1 | 80-120 | 20 |
| Iron | ND | 2500 | 2670 | 107 | 2500 | 2630 | 105 | 1 | 80-120 | 20 |
| Lead | ND | 25.0 | 24.8 | 99 | 25.0 | 24.4 | 97 | 2 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2500 | 100 | 2500 | 2510 | 101 | 1 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.3 | 101 | 25.0 | 25.1 | 100 | 1 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 24.8 | 99 | 25.0 | 24.5 | 98 | 1 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.0 | 96 | 25.0 | 24.2 | 97 | 1 | 80-120 | 20 |
| Potassium | ND | 2500 | 2570 | 103 | 2500 | 2590 | 104 | 1 | 80-120 | 20 |
| Selenium | ND | 25.0 | 24.0 | 96 | 25.0 | 24.1 | 97 | 1 | 80-120 | 20 |
| Silver | ND | 25.0 | 24.7 | 99 | 25.0 | 24.4 | 98 | 1 | 80-120 | 20 |
| Sodium | ND | 2500 | 2410 | 96 | 2500 | 2400 | 96 | 1 | 80-120 | 20 |
| Strontium | ND | 25.0 | 25.5 | 102 | 25.0 | 25.7 | 103 | 1 | 80-120 | 20 |
| Thallium | ND | 25.0 | 24.1 | 96 | 25.0 | 25.4 | 101 | 5 | 80-120 | 20 |
| Tin | ND | 25.0 | 27.3 | 109 | 25.0 | 27.2 | 109 | 0 | 80-120 | 20 |
| Titanium | ND | 25.0 | 25.3 | 101 | 25.0 | 25.4 | 101 | 0 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 24.3 | 97 | 25.0 | 24.7 | 99 | 2 | 80-120 | 20 |
| Zinc | ND | 50.0 | 48.1 | 96 | 50.0 | 47.9 | 96 | 1 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.1 | 100 | 25.0 | 24.6 | 99 | 2 | 80-120 | 20 |
| Phosphorus | ND | 250 | 236 | 95 | 250 | 239 | 95 | 1 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 26.0 | 104 | 25.0 | 26.4 | 105 | 2 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C305
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 14.6
DILTN FACTR: 0.971 0.980 0.939
SAMPLE ID: SL-092-NBZ-SS-0.0-0.5
CONTROL NO.: C305-05 C305-05M C305-05S
LAB FILE ID: 98D05027 98D05024 98D05025
DATIME EXTRCTD: 04/05/1211:54 04/05/1211:54 04/05/1211:54 DATE COLLECTED: 03/29/12
DATIME ANALYZD: 04/10/1221:39 04/10/1221:25 04/10/1221:30 DATE RECEIVED: 03/29/12
PREP. BATCH: IMD009S IMD009S IMD009S
CALIB. REF: 98D05017 98D05017 98D05017

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 12400 | 2870 | 15600 | 111 | 2750 | 15400 | 108 | 2 | 75-125 | 20 |
| Antimony | 0.215J | 28.7 | 21.2 | 73* | 27.5 | 20.7 | 75* | 2 | 75-125 | 20 |
| Arsenic | 4.10 | 28.7 | 31.9 | 97 | 27.5 | 28.9 | 90 | 10 | 75-125 | 20 |
| Barium | 83.6 | 28.7 | 149 | 229* | 27.5 | 119 | 128* | 23* | 75-125 | 20 |
| Beryllium | 0.457 | 28.7 | 28.0 | 96 | 27.5 | 26.3 | 94 | 6 | 75-125 | 20 |
| Boron | ND | 28.7 | 28.8 | 101 | 27.5 | 27.2 | 99 | 6 | 75-125 | 20 |
| Cadmium | 0.215 | 28.7 | 27.1 | 94 | 27.5 | 26.0 | 94 | 4 | 75-125 | 20 |
| Calcium | 2690 | 2870 | 5370 | 93 | 2750 | 5280 | 94 | 2 | 75-125 | 20 |
| Chromium | 16.3 | 28.7 | 42.1 | 90 | 27.5 | 40.3 | 87 | 4 | 75-125 | 20 |
| Cobalt | 4.36 | 28.7 | 33.3 | 101 | 27.5 | 28.7 | 88 | 15 | 75-125 | 20 |
| Copper | 6.33 | 28.7 | 30.9 | 86 | 27.5 | 29.6 | 85 | 4 | 75-125 | 20 |
| Iron | 17700 | 2870 | 21500 | 132* | 2750 | 20500 | 101 | 5 | 75-125 | 20 |
| Lead | 6.38 | 28.7 | 34.7 | 99 | 27.5 | 33.3 | 98 | 4 | 75-125 | 20 |
| Magnesium | 4310 | 2870 | 7030 | 95 | 2750 | 7050 | 100 | 0 | 75-125 | 20 |
| Manganese | 294 | 28.7 | 850 | 1938* | 27.5 | 368 | 270* | 79* | 75-125 | 20 |
| Molybdenum | 0.458 | 28.7 | 28.5 | 98 | 27.5 | 26.9 | 96 | 6 | 75-125 | 20 |
| Nickel | 9.68 | 28.7 | 36.7 | 94 | 27.5 | 33.5 | 86 | 9 | 75-125 | 20 |
| Potassium | 2930 | 2870 | 5650 | 95 | 2750 | 5660 | 99 | 0 | 75-125 | 20 |
| Selenium | 0.228J | 28.7 | 26.1 | 90 | 27.5 | 25.0 | 90 | 4 | 75-125 | 20 |
| Silver | ND | 28.7 | 27.4 | 95 | 27.5 | 26.4 | 96 | 4 | 75-125 | 20 |
| Sodium | 81.8J | 2870 | 2720 | 92 | 2750 | 2580 | 91 | 5 | 75-125 | 20 |
| Strontium | 20.0 | 28.7 | 48.3 | 99 | 27.5 | 46.5 | 96 | 4 | 75-125 | 20 |
| Thallium | 0.212 | 28.7 | 27.8 | 96 | 27.5 | 26.4 | 95 | 5 | 75-125 | 20 |
| Tin | ND | 28.7 | 31.7 | 110 | 27.5 | 30.1 | 110 | 5 | 75-125 | 20 |
| Titanium | 858 | 28.7 | 913 | 190* | 27.5 | 949 | 329* | 4 | 75-125 | 20 |
| Vanadium | 31.3 | 28.7 | 61.0 | 103 | 27.5 | 56.8 | 93 | 7 | 75-125 | 20 |
| Zinc | 43.7 | 28.7 | 70.2 | 92 | 27.5 | 70.4 | 97 | 0 | 75-125 | 20 |
| Lithium | 30.1 | 28.7 | 61.2 | 108 | 27.5 | 59.8 | 108 | 2 | 75-125 | 20 |
| Phosphorus | 283 | 287 | 599 | 110 | 275 | 576 | 106 | 4 | 75-125 | 20 |
| Zirconium | ND | 28.7 | 11.5 | 40* | 27.5 | 11.7 | 42* | 2 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C305
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 8.9
DILTN FACTR: 0.952 0.966 0.962
SAMPLE ID: SL-118-NBZ-SS-0.0-0.5
CONTROL NO.: C305-08 C305-08M C305-08S
LAB FILE ID: 98D05037 98D05034 98D05035
DATIME EXTRCTD: 04/05/1211:54 04/05/1211:54 04/05/1211:54 DATE COLLECTED: 03/29/12
DATIME ANALYZD: 04/10/1222:26 04/10/1222:12 04/10/1222:17 DATE RECEIVED: 03/29/12
PREP. BATCH: IMD009S IMD009S IMD009S
CALIB. REF: 98D05029 98D05029 98D05029

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 11000 | 2650 | 14100 | 118 | 2640 | 13900 | 111 | 1 | 75-125 | 20 |
| Antimony | 0.226 | 26.5 | 20.0 | 75* | 26.4 | 19.7 | 74* | 2 | 75-125 | 20 |
| Arsenic | 4.10 | 26.5 | 28.5 | 92 | 26.4 | 28.5 | 93 | 0 | 75-125 | 20 |
| Barium | 78.0 | 26.5 | 107 | 109 | 26.4 | 101 | 88 | 6 | 75-125 | 20 |
| Beryllium | 0.395 | 26.5 | 26.4 | 98 | 26.4 | 25.8 | 96 | 2 | 75-125 | 20 |
| Boron | ND | 26.5 | 26.7 | 101 | 26.4 | 26.6 | 101 | 0 | 75-125 | 20 |
| Cadmium | 0.213 | 26.5 | 25.9 | 97 | 26.4 | 25.5 | 96 | 2 | 75-125 | 20 |
| Calcium | 2930 | 2650 | 5250 | 88 | 2640 | 5440 | 95 | 4 | 75-125 | 20 |
| Chromium | 17.0 | 26.5 | 41.4 | 92 | 26.4 | 41.6 | 93 | 0 | 75-125 | 20 |
| Cobalt | 4.97 | 26.5 | 28.3 | 88 | 26.4 | 27.8 | 87 | 2 | 75-125 | 20 |
| Copper | 7.96 | 26.5 | 30.6 | 85 | 26.4 | 30.4 | 85 | 1 | 75-125 | 20 |
| Iron | 19300 | 2650 | 21600 | 90 | 2640 | 21400 | 81 | 1 | 75-125 | 20 |
| Lead | 10.2 | 26.5 | 36.8 | 100 | 26.4 | 36.8 | 101 | 0 | 75-125 | 20 |
| Magnesium | 5680 | 2650 | 8400 | 103 | 2640 | 8230 | 97 | 2 | 75-125 | 20 |
| Manganese | 255 | 26.5 | 283 | 104 | 26.4 | 272 | 62* | 4 | 75-125 | 20 |
| Molybdenum | 0.398 | 26.5 | 26.4 | 98 | 26.4 | 26.2 | 98 | 1 | 75-125 | 20 |
| Nickel | 10.8 | 26.5 | 33.8 | 87 | 26.4 | 33.5 | 86 | 1 | 75-125 | 20 |
| Potassium | 3130 | 2650 | 5640 | 95 | 2640 | 5420 | 87 | 4 | 75-125 | 20 |
| Selenium | ND | 26.5 | 24.6 | 93 | 26.4 | 24.0 | 91 | 3 | 75-125 | 20 |
| Silver | ND | 26.5 | 25.9 | 98 | 26.4 | 25.5 | 96 | 2 | 75-125 | 20 |
| Sodium | 55.8J | 2650 | 2490 | 92 | 2640 | 2470 | 91 | 1 | 75-125 | 20 |
| Strontium | 13.6 | 26.5 | 38.3 | 93 | 26.4 | 37.9 | 92 | 1 | 75-125 | 20 |
| Thallium | 0.232 | 26.5 | 25.6 | 96 | 26.4 | 26.3 | 99 | 2 | 75-125 | 20 |
| Tin | ND | 26.5 | 29.9 | 113 | 26.4 | 29.3 | 111 | 2 | 75-125 | 20 |
| Titanium | 1040 | 26.5 | 1080 | 176* | 26.4 | 1050 | 47* | 3 | 75-125 | 20 |
| Vanadium | 37.4 | 26.5 | 62.3 | 94 | 26.4 | 61.6 | 92 | 1 | 75-125 | 20 |
| Zinc | 54.8 | 26.5 | 79.4 | 93 | 26.4 | 77.8 | 87 | 2 | 75-125 | 20 |
| Lithium | 25.7 | 26.5 | 54.2 | 107 | 26.4 | 53.2 | 104 | 2 | 75-125 | 20 |
| Phosphorus | 458 | 265 | 654 | 74* | 264 | 763 | 116 | 15 | 75-125 | 20 |
| Zirconium | ND | 26.5 | 20.1 | 76 | 26.4 | 19.8 | 75* | 2 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C305
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 14.6
DILTN FACTR: 0.971 0.971
SAMPLE ID: SL-092-NBZ-SS-0.0-0.5
CONTROL NO.: C305-05 C305-05A
LAB FILE ID: 98D05027 98D05026
DATIME EXTRCTD: 04/05/1211:54 04/05/1211:54 DATE COLLECTED: 03/29/12
DATIME ANALYZD: 04/10/1221:39 04/10/1221:34 DATE RECEIVED: 03/29/12
PREP. BATCH: IMD009S IMD009S
CALIB. REF: 98D05017 98D05017

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 12400 | 2840 | 15200 | 97 | 75-125 |
| Antimony | 0.215J | 28.4 | 28.6 | 100 | 75-125 |
| Arsenic | 4.10 | 28.4 | 30.6 | 93 | 75-125 |
| Barium | 83.6 | 28.4 | 113 | 103 | 75-125 |
| Beryllium | 0.457 | 28.4 | 27.1 | 94 | 75-125 |
| Boron | ND | 28.4 | 29.2 | 103 | 75-125 |
| Cadmium | 0.215 | 28.4 | 27.8 | 97 | 75-125 |
| Calcium | 2690 | 2840 | 5400 | 95 | 75-125 |
| Chromium | 16.3 | 28.4 | 42.1 | 91 | 75-125 |
| Cobalt | 4.36 | 28.4 | 28.8 | 86 | 75-125 |
| Copper | 6.33 | 28.4 | 31.1 | 87 | 75-125 |
| Iron | 17700 | 2840 | 20000 | 80 | 75-125 |
| Lead | 6.38 | 28.4 | 34.7 | 99 | 75-125 |
| Magnesium | 4310 | 2840 | 7150 | 100 | 75-125 |
| Manganese | 294 | 28.4 | 309 | 54* | 75-125 |
| Molybdenum | 0.458 | 28.4 | 29.1 | 101 | 75-125 |
| Nickel | 9.68 | 28.4 | 34.7 | 88 | 75-125 |
| Potassium | 2930 | 2840 | 5680 | 97 | 75-125 |
| Selenium | 0.228J | 28.4 | 26.7 | 93 | 75-125 |
| Silver | ND | 28.4 | 27.7 | 97 | 75-125 |
| Sodium | 81.8J | 2840 | 2720 | 93 | 75-125 |
| Strontium | 20.0 | 28.4 | 47.4 | 96 | 75-125 |
| Thallium | 0.212 | 28.4 | 28.4 | 99 | 75-125 |
| Tin | ND | 28.4 | 31.6 | 111 | 75-125 |
| Titanium | 858 | 28.4 | 874 | 54* | 75-125 |
| Vanadium | 31.3 | 28.4 | 57.2 | 91 | 75-125 |
| Zinc | 43.7 | 56.9 | 95.7 | 91 | 75-125 |
| Lithium | 30.1 | 28.4 | 58.4 | 100 | 75-125 |
| Phosphorus | 283 | 284 | 580 | 105 | 75-125 |
| Zirconium | ND | 28.4 | 27.2 | 96 | 75-125 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C305
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 8.9
DILTN FACTR: 0.952 0.952
SAMPLE ID: SL-118-NBZ-SS-0.0-0.5
CONTROL NO.: C305-08 C305-08A
LAB FILE ID: 98D05037 98D05036
DATIME EXTRCTD: 04/05/1211:54 04/05/1211:54 DATE COLLECTED: 03/29/12
DATIME ANALYZD: 04/10/1222:26 04/10/1222:21 DATE RECEIVED: 03/29/12
PREP. BATCH: IMD009S IMD009S
CALIB. REF: 98D05029 98D05029

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 11000 | 2610 | 13600 | 100 | 75-125 |
| Antimony | 0.226 | 26.1 | 26.1 | 99 | 75-125 |
| Arsenic | 4.10 | 26.1 | 28.5 | 93 | 75-125 |
| Barium | 78.0 | 26.1 | 108 | 116 | 75-125 |
| Beryllium | 0.395 | 26.1 | 25.3 | 95 | 75-125 |
| Boron | ND | 26.1 | 26.8 | 102 | 75-125 |
| Cadmium | 0.213 | 26.1 | 25.3 | 96 | 75-125 |
| Calcium | 2930 | 2610 | 5430 | 96 | 75-125 |
| Chromium | 17.0 | 26.1 | 40.3 | 89 | 75-125 |
| Cobalt | 4.97 | 26.1 | 27.3 | 85 | 75-125 |
| Copper | 7.96 | 26.1 | 30.0 | 84 | 75-125 |
| Iron | 19300 | 2610 | 21800 | 96 | 75-125 |
| Lead | 10.2 | 26.1 | 36.5 | 101 | 75-125 |
| Magnesium | 5680 | 2610 | 8220 | 97 | 75-125 |
| Manganese | 255 | 26.1 | 280 | 93 | 75-125 |
| Molybdenum | 0.398 | 26.1 | 26.5 | 100 | 75-125 |
| Nickel | 10.8 | 26.1 | 33.2 | 86 | 75-125 |
| Potassium | 3130 | 2610 | 5700 | 99 | 75-125 |
| Selenium | ND | 26.1 | 23.8 | 91 | 75-125 |
| Silver | ND | 26.1 | 25.3 | 97 | 75-125 |
| Sodium | 55.8J | 2610 | 2390 | 89 | 75-125 |
| Strontium | 13.6 | 26.1 | 38.6 | 96 | 75-125 |
| Thallium | 0.232 | 26.1 | 25.6 | 97 | 75-125 |
| Tin | ND | 26.1 | 28.8 | 110 | 75-125 |
| Titanium | 1040 | 26.1 | 1080 | 182* | 75-125 |
| Vanadium | 37.4 | 26.1 | 61.7 | 93 | 75-125 |
| Zinc | 54.8 | 52.3 | 103 | 93 | 75-125 |
| Lithium | 25.7 | 26.1 | 54.0 | 108 | 75-125 |
| Phosphorus | 458 | 261 | 715 | 98 | 75-125 |
| Zirconium | ND | 26.1 | 25.0 | 96 | 75-125 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C305
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 7.6
DILTN FACTR: 1.00 1.00
SAMPLE ID: SL-130-NBZ-SS-0.0-0.5
CONTROL NO.: C305-09R C305-09A
LAB FILE ID: 98D11027 98D11026
DATIME EXTRCTD: 04/18/1210:17 04/18/1210:17 DATE COLLECTED: 03/29/12
DATIME ANALYZD: 04/19/1214:53 04/19/1214:49 DATE RECEIVED: 03/29/12
PREP. BATCH: IMD027S IMD027S
CALIB. REF: 98D11017 98D11017

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 9740 | 2710 | 12100 | 86 | 75-125 |
| Antimony | 0.190J | 27.1 | 27.0 | 99 | 75-125 |
| Arsenic | 3.05 | 27.1 | 27.4 | 90 | 75-125 |
| Barium | 71.6 | 27.1 | 98.6 | 100 | 75-125 |
| Beryllium | 0.372 | 27.1 | 26.3 | 96 | 75-125 |
| Boron | ND | 27.1 | 27.2 | 101 | 75-125 |
| Cadmium | 0.166 | 27.1 | 25.6 | 94 | 75-125 |
| Calcium | 2440 | 2710 | 4890 | 91 | 75-125 |
| Chromium | 17.5 | 27.1 | 40.9 | 87 | 75-125 |
| Cobalt | 5.48 | 27.1 | 29.2 | 88 | 75-125 |
| Copper | 7.14 | 27.1 | 29.5 | 83 | 75-125 |
| Iron | 20500 | 2710 | 22400 | 71* | 75-125 |
| Lead | 4.32 | 27.1 | 29.1 | 92 | 75-125 |
| Magnesium | 6150 | 2710 | 8490 | 86 | 75-125 |
| Manganese | 293 | 27.1 | 306 | 48* | 75-125 |
| Molybdenum | 0.354 | 27.1 | 26.8 | 98 | 75-125 |
| Nickel | 10.3 | 27.1 | 32.7 | 83 | 75-125 |
| Potassium | 3140 | 2710 | 5690 | 94 | 75-125 |
| Selenium | ND | 27.1 | 25.5 | 94 | 75-125 |
| Silver | ND | 27.1 | 25.2 | 93 | 75-125 |
| Sodium | ND | 2710 | 2390 | 88 | 75-125 |
| Strontium | 6.88 | 27.1 | 33.5 | 98 | 75-125 |
| Thallium | 0.225 | 27.1 | 25.8 | 95 | 75-125 |
| Tin | ND | 27.1 | 29.7 | 110 | 75-125 |
| Titanium | 1010 | 27.1 | 1030 | 48* | 75-125 |
| Vanadium | 37.4 | 27.1 | 60.9 | 87 | 75-125 |
| Zinc | 50.1 | 54.1 | 96.9 | 86 | 75-125 |
| Lithium | 25.8 | 27.1 | 51.9 | 96 | 75-125 |
| Phosphorus | 384 | 271 | 650 | 98 | 75-125 |
| Zirconium | ND | 27.1 | 27.9 | 103 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 14.6
DILUTION FACTOR: 0.971 4.85
SAMPLE ID: SL-092-NBZ-SS- SL-092-NBZ-SS-
EMAX SAMP ID: C305-05 C305-05J
LAB FILE ID: 98D05027 98D05031
DATE EXTRACTED: 04/05/1211:54 04/05/1211:54 DATE COLLECTED: 03/29/12
DATE ANALYZED: 04/10/1221:39 04/10/1221:58 DATE RECEIVED: 03/29/12
PREP. BATCH: IMD009S IMD009S
CALIB. REF: 98D05017 98D05029

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 12400 | 12700 | 2 | 10 |
| Antimony | 0.215J | ND | NA | 10 |
| Arsenic | 4.10 | 4.30 | 5 | 10 |
| Barium | 83.6 | 80.8 | 3 | 10 |
| Beryllium | 0.457 | 0.481J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.215 | ND | NA | 10 |
| Calcium | 2690 | 2840 | 6 | 10 |
| Chromium | 16.3 | 17.0 | 4 | 10 |
| Cobalt | 4.36 | 4.64 | 6 | 10 |
| Copper | 6.33 | 6.94 | 10 | 10 |
| Iron | 17700 | 18500 | 4 | 10 |
| Lead | 6.38 | 6.45 | 1 | 10 |
| Magnesium | 4310 | 4460 | 4 | 10 |
| Manganese | 294 | 312 | 6 | 10 |
| Molybdenum | 0.458 | 0.412J | NA | 10 |
| Nickel | 9.68 | 10.1 | 5 | 10 |
| Potassium | 2930 | 2910 | 1 | 10 |
| Selenium | 0.228J | ND | NA | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | 81.8J | ND | NA | 10 |
| Strontium | 20.0 | 19.4 | 3 | 10 |
| Thallium | 0.212 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 858 | 852 | 1 | 10 |
| Vanadium | 31.3 | 31.7 | 1 | 10 |
| Zinc | 43.7 | 49.6 | 13* | 10 |
| Lithium | 30.1 | 29.0 | 4 | 10 |
| Phosphorus | 283 | 296 | 4 | 10 |
| Zirconium | ND | ND | 0 | 10 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 8.9
DILUTION FACTOR: 0.952 4.76
SAMPLE ID: SL-118-NBZ-SS- SL-118-NBZ-SS-
EMAX SAMP ID: C305-08 C305-08J
LAB FILE ID: 98D05037 98D05043
DATE EXTRACTED: 04/05/1211:54 04/05/1211:54 DATE COLLECTED: 03/29/12
DATE ANALYZED: 04/10/1222:26 04/10/1222:54 DATE RECEIVED: 03/29/12
PREP. BATCH: IMD009S IMD009S
CALIB. REF: 98D05029 98D05041

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 11000 | 11100 | 1 | 10 |
| Antimony | 0.226 | ND | NA | 10 |
| Arsenic | 4.10 | 4.09 | 0 | 10 |
| Barium | 78.0 | 75.0 | 4 | 10 |
| Beryllium | 0.395 | 0.388J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.213 | ND | NA | 10 |
| Calcium | 2930 | 3150 | 7 | 10 |
| Chromium | 17.0 | 17.6 | 3 | 10 |
| Cobalt | 4.97 | 5.39 | 9 | 10 |
| Copper | 7.96 | 8.60 | 8 | 10 |
| Iron | 19300 | 19900 | 4 | 10 |
| Lead | 10.2 | 10.1 | 1 | 10 |
| Magnesium | 5680 | 5820 | 2 | 10 |
| Manganese | 255 | 274 | 7 | 10 |
| Molybdenum | 0.398 | 0.344J | NA | 10 |
| Nickel | 10.8 | 11.4 | 5 | 10 |
| Potassium | 3130 | 3110 | 1 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | 55.8J | ND | NA | 10 |
| Strontium | 13.6 | 12.9 | 5 | 10 |
| Thallium | 0.232 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 1040 | 1040 | 1 | 10 |
| Vanadium | 37.4 | 38.1 | 2 | 10 |
| Zinc | 54.8 | 55.2 | 1 | 10 |
| Lithium | 25.7 | 23.6 | 8 | 10 |
| Phosphorus | 458 | 443 | 3 | 10 |
| Zirconium | ND | ND | 0 | 10 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 7.6
DILUTION FACTOR: 1.00 5.00
SAMPLE ID: SL-130-NBZ-SS- SL-130-NBZ-SS-
EMAX SAMP ID: C305-09R C305-09J
LAB FILE ID: 98D11027 98D11028
DATE EXTRACTED: 04/18/1210:17 04/18/1210:17 DATE COLLECTED: 03/29/12
DATE ANALYZED: 04/19/1214:53 04/19/1214:58 DATE RECEIVED: 03/29/12
PREP. BATCH: IMD027S IMD027S
CALIB. REF: 98D11017 98D11017

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 9740 | 9810 | 1 | 10 |
| Antimony | 0.190J | ND | NA | 10 |
| Arsenic | 3.05 | 3.14 | 3 | 10 |
| Barium | 71.6 | 66.7 | 7 | 10 |
| Beryllium | 0.372 | 0.376J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.166 | ND | NA | 10 |
| Calcium | 2440 | 2500 | 3 | 10 |
| Chromium | 17.5 | 17.5 | 0 | 10 |
| Cobalt | 5.48 | 5.65 | 3 | 10 |
| Copper | 7.14 | 7.49 | 5 | 10 |
| Iron | 20500 | 20900 | 2 | 10 |
| Lead | 4.32 | 4.18 | 3 | 10 |
| Magnesium | 6150 | 6230 | 1 | 10 |
| Manganese | 293 | 300 | 3 | 10 |
| Molybdenum | 0.354 | 0.334J | NA | 10 |
| Nickel | 10.3 | 10.6 | 2 | 10 |
| Potassium | 3140 | 3060 | 2 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | ND | ND | 0 | 10 |
| Strontium | 6.88 | 6.49 | 6 | 10 |
| Thallium | 0.225 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 1010 | 988 | 3 | 10 |
| Vanadium | 37.4 | 37.1 | 1 | 10 |
| Zinc | 50.1 | 49.6 | 1 | 10 |
| Lithium | 25.8 | 23.1 | 10 | 10 |
| Phosphorus | 384 | 389 | 1 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7470A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305

Matrix : WATER
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | HGD005WB | ND | 1 | NA | 0.000500 | 0.000100 | 04/03/1216:45 | 04/03/1211:30 | M47D002041 | M47D002032 | HGD005W | NA | 04/03/12 |
| LCS1W | HGD005WL | 0.00510 | 1 | NA | 0.000500 | 0.000100 | 04/03/1216:47 | 04/03/1211:30 | M47D002042 | M47D002032 | HGD005W | NA | 04/03/12 |
| LCD1W | HGD005WC | 0.00513 | 1 | NA | 0.000500 | 0.000100 | 04/03/1216:50 | 04/03/1211:30 | M47D002043 | M47D002032 | HGD005W | NA | 04/03/12 |
| EB-NBZ-SB-032912 | C305-01 | ND | 1 | NA | 0.000500 | 0.000100 | 04/03/1217:42 | 04/03/1211:30 | M47D002067 | M47D002056 | HGD005W | 03/29/12 | 03/29/12 |
| EB-NBZ-SS-032912 | C305-02 | ND | 1 | NA | 0.000500 | 0.000100 | 04/03/1217:48 | 04/03/1211:30 | M47D002070 | M47D002068 | HGD005W | 03/29/12 | 03/29/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C305
METHOD: METHOD 7470A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| CONTROL NO.: | HGD005WB | HGD005WL | HGD005WC | | |
| LAB FILE ID: | M47D002041 | M47D002042 | M47D002043 | | |
| DATIME EXTRCTD: | 04/03/1211:30 | 04/03/1211:30 | 04/03/1211:30 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/03/1216:45 | 04/03/1216:47 | 04/03/1216:50 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | HGD005W | HGD005W | HGD005W | | |
| CALIB. REF: | M47D002032 | M47D002032 | M47D002032 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/L | SPIKE AMT mg/L | BS RSLT mg/L | BS % REC | SPIKE AMT mg/L | BSD RSLT mg/L | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .005 | .0051 | 102 | .005 | .00513 | 103 | 1 | 80-120 | 20 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD006SB | ND | 1 | NA | 0.100 | 0.0500 | 04/04/1215:25 | 04/04/1213:00 | M47D003010 | M47D003008 | HGD006S | NA | 04/04/12 |
| LCS1S | HGD006SL | 0.847 | 1 | NA | 0.100 | 0.0500 | 04/04/1215:27 | 04/04/1213:00 | M47D003011 | M47D003008 | HGD006S | NA | 04/04/12 |
| LCD1S | HGD006SC | 0.845 | 1 | NA | 0.100 | 0.0500 | 04/04/1215:29 | 04/04/1213:00 | M47D003012 | M47D003008 | HGD006S | NA | 04/04/12 |
| SL-092-NBZ-SS-0.0-0.5AS | C305-05A | 0.989 | 1.00 | 14.6 | 0.117 | 0.0585 | 04/04/1215:31 | 04/04/1213:00 | M47D003013 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | ND | 1.00 | 14.6 | 0.117 | 0.0585 | 04/04/1215:33 | 04/04/1213:00 | M47D003014 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5DL | C305-05J | ND | 5.02 | 14.6 | 0.588 | 0.294 | 04/04/1215:35 | 04/04/1213:00 | M47D003015 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M | 1.05 | 1.01 | 14.6 | 0.118 | 0.0591 | 04/04/1215:37 | 04/04/1213:00 | M47D003016 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S | 1.03 | 1.00 | 14.6 | 0.117 | 0.0585 | 04/04/1215:39 | 04/04/1213:00 | M47D003017 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5AS | C305-08A | 0.911 | 1.00 | 8.9 | 0.110 | 0.0549 | 04/04/1215:41 | 04/04/1213:00 | M47D003018 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | ND | 1.00 | 8.9 | 0.110 | 0.0549 | 04/04/1215:44 | 04/04/1213:00 | M47D003019 | M47D003008 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5DL | C305-08J | ND | 5.02 | 8.9 | 0.551 | 0.276 | 04/04/1215:50 | 04/04/1213:00 | M47D003022 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M | 0.951 | 1.00 | 8.9 | 0.110 | 0.0549 | 04/04/1215:52 | 04/04/1213:00 | M47D003023 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S | 0.936 | 0.988 | 8.9 | 0.108 | 0.0542 | 04/04/1215:54 | 04/04/1213:00 | M47D003024 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-044-NBZ-SS-0.0-0.5DL | C305-03T | 24.3 | 50.1 | 3.5 | 5.19 | 2.60 | 04/04/1216:42 | 04/04/1213:00 | M47D003046 | M47D003044 | HGD006S | 03/29/12 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | ND | 0.992 | 17.7 | 0.121 | 0.0603 | 04/04/1215:58 | 04/04/1213:00 | M47D003026 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | ND | 1.00 | 12.5 | 0.114 | 0.0571 | 04/04/1216:00 | 04/04/1213:00 | M47D003027 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | ND | 1.01 | 12.8 | 0.116 | 0.0579 | 04/04/1216:03 | 04/04/1213:00 | M47D003028 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09 | ND | 0.990 | 7.6 | 0.107 | 0.0536 | 04/04/1216:05 | 04/04/1213:00 | M47D003029 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | ND | 0.987 | 13.9 | 0.115 | 0.0573 | 04/04/1216:07 | 04/04/1213:00 | M47D003030 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| SL-091-NBZ-SS-4.0-5.0 | C305-12 | ND | 1.00 | 18.6 | 0.123 | 0.0614 | 04/04/1216:09 | 04/04/1213:00 | M47D003031 | M47D003020 | HGD006S | 03/29/12 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | ND | 0.998 | 15.9 | 0.119 | 0.0593 | 04/04/1216:15 | 04/04/1213:00 | M47D003034 | M47D003032 | HGD006S | 03/29/12 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | ND | 0.988 | 8.7 | 0.108 | 0.0541 | 04/04/1216:17 | 04/04/1213:00 | M47D003035 | M47D003032 | HGD006S | 03/29/12 | 03/29/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C305
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGD006SB | HGD006SL | HGD006SC | | |
| LAB FILE ID: | M47D003010 | M47D003011 | M47D003012 | | |
| DATIME EXTRCTD: | 04/04/1213:00 | 04/04/1213:00 | 04/04/1213:00 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/04/1215:25 | 04/04/1215:27 | 04/04/1215:29 | DATE RECEIVED: | 04/04/12 |
| PREP. BATCH: | HGD006S | HGD006S | HGD006S | | |
| CALIB. REF: | M47D003008 | M47D003008 | M47D003008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .847 | 102 | .833 | .845 | 101 | 0 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C305
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 14.6 |
| DILTN FACTR: | 1.00 | 1.01 | 1.00 | | |
| SAMPLE ID: | SL-092-NBZ-SS-0.0-0.5 | | | | |
| CONTROL NO.: | C305-05 | C305-05M | C305-05S | | |
| LAB FILE ID: | M47D003014 | M47D003016 | M47D003017 | | |
| DATIME EXTRCTD: | 04/04/1213:00 | 04/04/1213:00 | 04/04/1213:00 | DATE COLLECTED: | 03/29/12 |
| DATIME ANALYZD: | 04/04/1215:33 | 04/04/1215:37 | 04/04/1215:39 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | HGD006S | HGD006S | HGD006S | | |
| CALIB. REF: | M47D003008 | M47D003008 | M47D003008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .985 | 1.05 | 107 | .975 | 1.03 | 105 | 2 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C305
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 8.9 |
| DILTN FACTR: | 1.00 | 1.00 | 0.988 | | |
| SAMPLE ID: | SL-118-NBZ-SS-0.0-0.5 | | | | |
| CONTROL NO.: | C305-08 | C305-08M | C305-08S | | |
| LAB FILE ID: | M47D003019 | M47D003023 | M47D003024 | | |
| DATIME EXTRCTD: | 04/04/1213:00 | 04/04/1213:00 | 04/04/1213:00 | DATE COLLECTED: | 03/29/12 |
| DATIME ANALYZD: | 04/04/1215:44 | 04/04/1215:52 | 04/04/1215:54 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | HGD006S | HGD006S | HGD006S | | |
| CALIB. REF: | M47D003008 | M47D003020 | M47D003020 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .914 | .951 | 104 | .903 | .936 | 104 | 0 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C305
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 14.6 |
| DILTN FACTR: | 1.00 | 1.00 | | |
| SAMPLE ID: | SL-092-NBZ-SS-0.0-0.5 | | | |
| CONTROL NO.: | C305-05 | C305-05A | | |
| LAB FILE ID: | M47D003014 | M47D003013 | | |
| DATIME EXTRCTD: | 04/04/1213:00 | 04/04/1213:00 | DATE COLLECTED: | 03/29/12 |
| DATIME ANALYZD: | 04/04/1215:33 | 04/04/1215:31 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | HGD006S | HGD006S | | |
| CALIB. REF: | M47D003008 | M47D003008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .975 | .989 | 101 | 85-115 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C305
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 8.9 |
| DILTN FACTR: | 1.00 | 1.00 | | |
| SAMPLE ID: | SL-118-NBZ-SS-0.0-0.5 | | | |
| CONTROL NO.: | C305-08 | C305-08A | | |
| LAB FILE ID: | M47D003019 | M47D003018 | | |
| DATIME EXTRCTD: | 04/04/1213:00 | 04/04/1213:00 | DATE COLLECTED: | 03/29/12 |
| DATIME ANALYZD: | 04/04/1215:44 | 04/04/1215:41 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | HGD006S | HGD006S | | |
| CALIB. REF: | M47D003008 | M47D003008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .914 | .911 | 100 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 14.6 |
| DILUTION FACTOR: | 1.00 | 5.02 | | |
| SAMPLE ID: | SL-092-NBZ-SS-0.0-0 | SL-092-NBZ-SS-0.0-0 | | |
| EMAX SAMP ID: | C305-05 | C305-05J | | |
| LAB FILE ID: | M47D003014 | M47D003015 | | |
| DATE EXTRACTED: | 04/04/1213:00 | 04/04/1213:00 | DATE COLLECTED: | 03/29/12 |
| DATE ANALYZED: | 04/04/1215:33 | 04/04/1215:35 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | HGD006S | HGD006S | | |
| CALIB. REF: | M47D003008 | M47D003008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 8.9

| | | | | |
|---|---|---|---|---|
| DILUTION FACTOR: | 1.00 | 5.02 | | |
| SAMPLE ID: | SL-118-NBZ-SS-0.0-0 | SL-118-NBZ-SS-0.0-0 | | |
| EMAX SAMP ID: | C305-08 | C305-08J | | |
| LAB FILE ID: | M47D003019 | M47D003022 | | |
| DATE EXTRACTED: | 04/04/1213:00 | 04/04/1213:00 | DATE COLLECTED: | 03/29/12 |
| DATE ANALYZED: | 04/04/1215:44 | 04/04/1215:50 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | HGD006S | HGD006S | | |
| CALIB. REF: | M47D003008 | M47D003020 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305
Matrix : WATER
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | ICC065WB | ND | 1 | NA | 0.100 | 0.0500 | 03/30/1208:35 | NA | AC39-84 | AC39-82 | ICC065W | NA | NA |
| LCS1W | ICC065WL | 1.93 | 1 | NA | 0.100 | 0.0500 | 03/30/1208:51 | NA | AC39-85 | AC39-82 | ICC065W | NA | NA |
| LCD1W | ICC065WC | 1.95 | 1 | NA | 0.100 | 0.0500 | 03/30/1209:08 | NA | AC39-86 | AC39-82 | ICC065W | NA | NA |
| EB-NBZ-SB-032912 | C305-01 | ND | 1 | NA | 0.100 | 0.0500 | 03/30/1209:24 | NA | AC39-87 | AC39-82 | ICC065W | 03/29/1215:00 | 03/29/12 |
| EB-NBZ-SS-032912 | C305-02 | ND | 1 | NA | 0.100 | 0.0500 | 03/30/1209:40 | NA | AC39-88 | AC39-82 | ICC065W | 03/29/1215:45 | 03/29/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | ICC065WB | ICC065WL | ICC065WC | | |
| LAB FILE ID: | AC39-84 | AC39-85 | AC39-86 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1208:35 | 03/30/1208:51 | 03/30/1209:08 | DATE RECEIVED: | NA |
| PREP. BATCH: | ICC065W | ICC065W | ICC065W | | |
| CALIB. REF: | AC39-82 | AC39-82 | AC39-82 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 2.00 | 1.93 | 97 | 2.00 | 1.95 | 97 | 1 | 90-110 | 20 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD002SB | ND | 1 | NA | 1.00 | 0.500 | 04/03/1216:30 | 04/02/1216:09 | AD03-25 | AD03-23 | ICD002S | NA | 04/02/12 |
| LCS1S | ICD002SL | 5.78 | 1 | NA | 1.00 | 0.500 | 04/03/1216:46 | 04/02/1216:09 | AD03-26 | AD03-23 | ICD002S | NA | 04/02/12 |
| LCD1S | ICD002SC | 5.79 | 1 | NA | 1.00 | 0.500 | 04/03/1217:02 | 04/02/1216:09 | AD03-27 | AD03-23 | ICD002S | NA | 04/02/12 |
| SL-044-NBZ-SS-0.0-0.5 | C305-03 | 0.769J | 1 | NA | 1.00 | 0.500 | 04/03/1217:18 | 04/02/1216:09 | AD03-28 | AD03-23 | ICD002S | 03/29/1213:11 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | 0.529J | 1 | NA | 1.00 | 0.500 | 04/03/1217:35 | 04/02/1216:09 | AD03-29 | AD03-23 | ICD002S | 03/29/1209:09 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1217:51 | 04/02/1216:09 | AD03-30 | AD03-23 | ICD002S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M | 6.25 | 1 | NA | 1.00 | 0.500 | 04/03/1218:07 | 04/02/1216:09 | AD03-31 | AD03-23 | ICD002S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S | 6.26 | 1 | NA | 1.00 | 0.500 | 04/03/1218:23 | 04/02/1216:09 | AD03-32 | AD03-23 | ICD002S | 03/29/1211:43 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1218:39 | 04/02/1216:09 | AD03-33 | AD03-23 | ICD002S | 03/29/1210:05 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1219:44 | 04/02/1216:09 | AD03-37 | AD03-35 | ICD002S | 03/29/1209:25 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1220:00 | 04/02/1216:09 | AD03-38 | AD03-35 | ICD002S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M | 6.25 | 1 | NA | 1.00 | 0.500 | 04/03/1220:16 | 04/02/1216:09 | AD03-39 | AD03-35 | ICD002S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S | 6.20 | 1 | NA | 1.00 | 0.500 | 04/03/1220:32 | 04/02/1216:09 | AD03-40 | AD03-35 | ICD002S | 03/29/1215:10 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1220:49 | 04/02/1216:09 | AD03-41 | AD03-35 | ICD002S | 03/29/1210:35 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | 0.570J | 1 | NA | 1.00 | 0.500 | 04/03/1221:05 | 04/02/1216:09 | AD03-42 | AD03-35 | ICD002S | 03/29/1213:55 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12 | 4.50 | 1 | NA | 1.00 | 0.500 | 04/03/1221:21 | 04/02/1216:09 | AD03-43 | AD03-35 | ICD002S | 03/29/1210:20 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1221:37 | 04/02/1216:09 | AD03-44 | AD03-35 | ICD002S | 03/29/1212:09 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | ND | 1 | NA | 1.00 | 0.500 | 04/03/1221:53 | 04/02/1216:09 | AD03-45 | AD03-35 | ICD002S | 03/29/1215:10 | 03/29/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD002SB | ICD002SL | ICD002SC | | |
| LAB FILE ID: | AD03-25 | AD03-26 | AD03-27 | | |
| DATE EXTRACTED: | 04/02/1216:09 | 04/02/1216:09 | 04/02/1216:09 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1216:30 | 04/03/1216:46 | 04/03/1217:02 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | ICD002S | ICD002S | ICD002S | | |
| CALIB. REF: | AD03-23 | AD03-23 | AD03-23 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 5.78 | 96 | 6.00 | 5.79 | 96 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: 300.0

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-092-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C305-05 | C305-05M | C305-05S | | |
| LAB FILE ID: | AD03-30 | AD03-31 | AD03-32 | | |
| DATE EXTRACTED: | 04/02/1216:09 | 04/02/1216:09 | 04/02/1216:09 | DATE COLLECTED: | 03/29/12 11:43 |
| DATE ANALYZED: | 04/03/1217:51 | 04/03/1218:07 | 04/03/1218:23 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | ICD002S | ICD002S | ICD002S | | |
| CALIB. REF: | AD03-23 | AD03-23 | AD03-23 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 6.25 | 104 | 6.00 | 6.26 | 104 | 0 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: 300.0

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-118-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C305-08 | C305-08M | C305-08S | | |
| LAB FILE ID: | AD03-38 | AD03-39 | AD03-40 | | |
| DATE EXTRACTED: | 04/02/1216:09 | 04/02/1216:09 | 04/02/1216:09 | DATE COLLECTED: | 03/29/12 15:10 |
| DATE ANALYZED: | 04/03/1220:00 | 04/03/1220:16 | 04/03/1220:32 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | ICD002S | ICD002S | ICD002S | | |
| CALIB. REF: | AD03-35 | AD03-35 | AD03-35 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 6.25 | 104 | 6.00 | 6.20 | 103 | 1 | 80-120 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305
Matrix : WATER
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | ICC065WB | ND | 1 | NA | 0.443 | 0.222 | 03/30/1208:35 | NA | AC39-84 | AC39-82 | ICC065W | NA | NA |
| LCS1W | ICC065WL | 8.20 | 1 | NA | 0.443 | 0.222 | 03/30/1208:51 | NA | AC39-85 | AC39-82 | ICC065W | NA | NA |
| LCD1W | ICC065WC | 8.24 | 1 | NA | 0.443 | 0.222 | 03/30/1209:08 | NA | AC39-86 | AC39-82 | ICC065W | NA | NA |
| EB-NBZ-SB-032912 | C305-01 | 0.275J | 1 | NA | 0.443 | 0.222 | 03/30/1209:24 | NA | AC39-87 | AC39-82 | ICC065W | 03/29/1215:00 | 03/29/12 |
| EB-NBZ-SS-032912 | C305-02 | 0.799 | 1 | NA | 0.443 | 0.222 | 03/30/1209:40 | NA | AC39-88 | AC39-82 | ICC065W | 03/29/1215:45 | 03/29/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | ICC065WB | ICC065WL | ICC065WC | | |
| LAB FILE ID: | AC39-84 | AC39-85 | AC39-86 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1208:35 | 03/30/1208:51 | 03/30/1209:08 | DATE RECEIVED: | NA |
| PREP. BATCH: | ICC065W | ICC065W | ICC065W | | |
| CALIB. REF: | AC39-82 | AC39-82 | AC39-82 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 8.86 | 8.20 | 93 | 8.86 | 8.24 | 93 | 0 | 90-110 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD002SB | ND | 1 | NA | 1.50 | 0.750 | 04/03/1216:30 | 04/02/1216:09 | AD03-25 | AD03-23 | ICD002S | NA | 04/02/12 |
| LCS1S | ICD002SL | 25.4 | 1 | NA | 1.50 | 0.750 | 04/03/1216:46 | 04/02/1216:09 | AD03-26 | AD03-23 | ICD002S | NA | 04/02/12 |
| LCD1S | ICD002SC | 25.4 | 1 | NA | 1.50 | 0.750 | 04/03/1217:02 | 04/02/1216:09 | AD03-27 | AD03-23 | ICD002S | NA | 04/02/12 |
| SL-044-NBZ-SS-0.0-0.5 | C305-03 | 18.7 | 1 | NA | 1.50 | 0.750 | 04/03/1217:18 | 04/02/1216:09 | AD03-28 | AD03-23 | ICD002S | 03/29/1213:11 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | 5.41 | 1 | NA | 1.50 | 0.750 | 04/03/1217:35 | 04/02/1216:09 | AD03-29 | AD03-23 | ICD002S | 03/29/1209:09 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | 3.42 | 1 | NA | 1.50 | 0.750 | 04/03/1217:51 | 04/02/1216:09 | AD03-30 | AD03-23 | ICD002S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M | 29.3 | 1 | NA | 1.50 | 0.750 | 04/03/1218:07 | 04/02/1216:09 | AD03-31 | AD03-23 | ICD002S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S | 29.3 | 1 | NA | 1.50 | 0.750 | 04/03/1218:23 | 04/02/1216:09 | AD03-32 | AD03-23 | ICD002S | 03/29/1211:43 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12 | ND | 1 | NA | 1.50 | 0.750 | 04/03/1221:21 | 04/02/1216:09 | AD03-43 | AD03-35 | ICD002S | 03/29/1210:20 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | 3.86 | 1 | NA | 1.50 | 0.750 | 04/03/1221:37 | 04/02/1216:09 | AD03-44 | AD03-35 | ICD002S | 03/29/1212:09 | 03/29/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD002SB | ICD002SL | ICD002SC | | |
| LAB FILE ID: | AD03-25 | AD03-26 | AD03-27 | | |
| DATE EXTRACTED: | 04/02/1216:09 | 04/02/1216:09 | 04/02/1216:09 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1216:30 | 04/03/1216:46 | 04/03/1217:02 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | ICD002S | ICD002S | ICD002S | | |
| CALIB. REF: | AD03-23 | AD03-23 | AD03-23 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 25.4 | 95 | 26.6 | 25.4 | 95 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: 300.0

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-092-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C305-05 | C305-05M | C305-05S | | |
| LAB FILE ID: | AD03-30 | AD03-31 | AD03-32 | | |
| DATE EXTRACTED: | 04/02/1216:09 | 04/02/1216:09 | 04/02/1216:09 | DATE COLLECTED: | 03/29/12 11:43 |
| DATE ANALYZED: | 04/03/1217:51 | 04/03/1218:07 | 04/03/1218:23 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | ICD002S | ICD002S | ICD002S | | |
| CALIB. REF: | AD03-23 | AD03-23 | AD03-23 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | 3.42 | 26.6 | 29.3 | 97 | 26.6 | 29.3 | 97 | 0 | 80-120 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305
Matrix : WATER
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | PCD001WB | ND | 1 | NA | 2.00 | 1.00 | 04/03/1214:43 | NA | JD04002 | JD04001 | PCD001W | NA | NA |
| LCS1W | PCD001WL | 24.9 | 1 | NA | 2.00 | 1.00 | 04/03/1215:25 | NA | JD04004 | JD04001 | PCD001W | NA | NA |
| LCD1W | PCD001WC | 25.1 | 1 | NA | 2.00 | 1.00 | 04/03/1215:46 | NA | JD04005 | JD04001 | PCD001W | NA | NA |
| EB-NBZ-SB-032912 | C305-01 | ND | 1 | NA | 2.00 | 1.00 | 04/03/1221:04 | NA | JD04018 | JD04012 | PCD001W | 03/29/1215:00 | 03/29/12 |
| EB-NBZ-SS-032912 | C305-02 | ND | 1 | NA | 2.00 | 1.00 | 04/03/1221:25 | NA | JD04019 | JD04012 | PCD001W | 03/29/1215:45 | 03/29/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | PCD001WB | PCD001WL | PCD001WC | | |
| LAB FILE ID: | JD04002 | JD04004 | JD04005 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1214:43 | 04/03/1215:25 | 04/03/1215:46 | DATE RECEIVED: | NA |
| PREP. BATCH: | PCD001W | PCD001W | PCD001W | | |
| CALIB. REF: | JD04001 | JD04001 | JD04001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 25.0 | 24.9 | 100 | 25.0 | 25.1 | 100 | 1 | 85-115 | 15 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD006SB | ND | 1 | NA | 20.0 | 10.0 | 04/06/1202:15 | 04/02/1216:00 | JD06028 | JD06027 | PCD006S | NA | 04/02/12 |
| LCS1S | PCD006SL | 272 | 1 | NA | 20.0 | 10.0 | 04/06/1202:57 | 04/02/1216:00 | JD06030 | JD06027 | PCD006S | NA | 04/02/12 |
| LCD1S | PCD006SC | 276 | 1 | NA | 20.0 | 10.0 | 04/06/1203:18 | 04/02/1216:00 | JD06031 | JD06027 | PCD006S | NA | 04/02/12 |
| SL-044-NBZ-SS-0.0-0.5 | C305-03 | 32.1 | 1 | 3.5 | 20.7 | 10.4 | 04/06/1203:39 | 04/02/1216:00 | JD06032 | JD06027 | PCD006S | 03/29/1213:11 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | ND | 1 | 17.7 | 24.3 | 12.2 | 04/06/1204:00 | 04/02/1216:00 | JD06033 | JD06027 | PCD006S | 03/29/1209:09 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | ND | 1 | 14.6 | 23.4 | 11.7 | 04/06/1204:21 | 04/02/1216:00 | JD06034 | JD06027 | PCD006S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M | 316 | 1 | 14.6 | 23.4 | 11.7 | 04/06/1204:42 | 04/02/1216:00 | JD06035 | JD06027 | PCD006S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S | 317 | 1 | 14.6 | 23.4 | 11.7 | 04/06/1205:03 | 04/02/1216:00 | JD06036 | JD06027 | PCD006S | 03/29/1211:43 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | ND | 1 | 12.5 | 22.9 | 11.4 | 04/06/1206:06 | 04/02/1216:00 | JD06039 | JD06038 | PCD006S | 03/29/1210:05 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | ND | 1 | 12.8 | 22.9 | 11.5 | 04/06/1206:27 | 04/02/1216:00 | JD06040 | JD06038 | PCD006S | 03/29/1209:25 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | ND | 1 | 8.9 | 22.0 | 11.0 | 04/06/1206:48 | 04/02/1216:00 | JD06041 | JD06038 | PCD006S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M | 290 | 1 | 8.9 | 22.0 | 11.0 | 04/06/1207:09 | 04/02/1216:00 | JD06042 | JD06038 | PCD006S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S | 292 | 1 | 8.9 | 22.0 | 11.0 | 04/06/1207:30 | 04/02/1216:00 | JD06043 | JD06038 | PCD006S | 03/29/1215:10 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09 | ND | 1 | 7.6 | 21.6 | 10.8 | 04/06/1207:51 | 04/02/1216:00 | JD06044 | JD06038 | PCD006S | 03/29/1210:35 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | ND | 1 | 13.9 | 23.2 | 11.6 | 04/06/1208:12 | 04/02/1216:00 | JD06045 | JD06038 | PCD006S | 03/29/1213:55 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12 | ND | 1 | 18.6 | 24.6 | 12.3 | 04/06/1208:34 | 04/02/1216:00 | JD06046 | JD06038 | PCD006S | 03/29/1210:20 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | ND | 1 | 15.9 | 23.8 | 11.9 | 04/06/1209:37 | 04/02/1216:00 | JD06049 | JD06048 | PCD006S | 03/29/1212:09 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | ND | 1 | 8.7 | 21.9 | 11.0 | 04/06/1209:58 | 04/02/1216:00 | JD06050 | JD06048 | PCD006S | 03/29/1215:10 | 03/29/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD006SB | PCD006SL | PCD006SC | | |
| LAB FILE ID: | JD06028 | JD06030 | JD06031 | | |
| DATE EXTRACTED: | 04/02/1216:00 | 04/02/1216:00 | 04/02/1216:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/06/1202:15 | 04/06/1202:57 | 04/06/1203:18 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | PCD006S | PCD006S | PCD006S | | |
| CALIB. REF: | JD06027 | JD06027 | JD06027 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 272 | 109 | 250 | 276 | 110 | 1 | 85-115 | 15 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 14.6 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-092-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C305-05 | C305-05M | C305-05S | | |
| LAB FILE ID: | JD06034 | JD06035 | JD06036 | | |
| DATE EXTRACTED: | 04/02/1216:00 | 04/02/1216:00 | 04/02/1216:00 | DATE COLLECTED: | 03/29/12 11:43 |
| DATE ANALYZED: | 04/06/1204:21 | 04/06/1204:42 | 04/06/1205:03 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | PCD006S | PCD006S | PCD006S | | |
| CALIB. REF: | JD06027 | JD06027 | JD06027 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 293 | 316 | 108 | 293 | 317 | 108 | 0 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: METHOD 314.0

MATRIX: SOIL % MOISTURE: 8.9
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-118-NBZ-SS-0.0-0.5
LAB SAMP ID: C305-08 C305-08M C305-08S
LAB FILE ID: JD06041 JD06042 JD06043
DATE EXTRACTED: 04/02/1216:00 04/02/1216:00 04/02/1216:00 DATE COLLECTED: 03/29/12 15:10
DATE ANALYZED: 04/06/1206:48 04/06/1207:09 04/06/1207:30 DATE RECEIVED: 03/29/12
PREP. BATCH: PCD006S PCD006S PCD006S
CALIB. REF: JD06038 JD06038 JD06038

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 274 | 290 | 106 | 274 | 292 | 106 | 1 | 80-120 | 20 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305
Matrix : WATER
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | HCC023WB | ND | 1 | NA | 0.200 | 0.100 | 03/30/1210:19 | NA | IC32003 | IC32001 | HCC023W | NA | NA |
| MBLK1W | HCC023WQ | ND | 1 | NA | 0.200 | 0.100 | 03/30/1210:29 | NA | IC32004 | IC32001 | HCC023W | NA | NA |
| LCS1W | HCC023WL | 2.05 | 1 | NA | 0.200 | 0.100 | 03/30/1211:32 | NA | IC32009 | IC32001 | HCC023W | NA | NA |
| LCS1W | HCC023WX | 2.22 | 1 | NA | 0.200 | 0.100 | 03/30/1211:42 | NA | IC32010 | IC32001 | HCC023W | NA | NA |
| LCD1W | HCC023WC | 2.15 | 1 | NA | 0.200 | 0.100 | 03/30/1211:52 | NA | IC32011 | IC32001 | HCC023W | NA | NA |
| LCD1W | HCC023WY | 2.08 | 1 | NA | 0.200 | 0.100 | 03/30/1212:13 | NA | IC32012 | IC32001 | HCC023W | NA | NA |
| EB-NBZ-SB-032912 | C305-01 | ND | 1 | NA | 0.200 | 0.100 | 03/30/1210:50 | NA | IC32005 | IC32001 | HCC023W | 03/29/1215:00 | 03/29/12 |
| EB-NBZ-SB-032912 | C305-01R | ND | 1 | NA | 0.200 | 0.100 | 03/30/1211:00 | NA | IC32006 | IC32001 | HCC023W | 03/29/1215:00 | 03/29/12 |
| EB-NBZ-SS-032912 | C305-02 | ND | 1 | NA | 0.200 | 0.100 | 03/30/1211:11 | NA | IC32007 | IC32001 | HCC023W | 03/29/1215:45 | 03/29/12 |
| EB-NBZ-SS-032912 | C305-02R | ND | 1 | NA | 0.200 | 0.100 | 03/30/1211:21 | NA | IC32008 | IC32001 | HCC023W | 03/29/1215:45 | 03/29/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: 7199

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HCC023WB | HCC023WL | HCC023WC | | |
| LAB FILE ID: | IC32003 | IC32009 | IC32011 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1210:19 | 03/30/1211:32 | 03/30/1211:52 | DATE RECEIVED: | NA |
| PREP. BATCH: | HCC023W | HCC023W | HCC023W | | |
| CALIB. REF: | IC32001 | IC32001 | IC32001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 2.00 | 2.05 | 103 | 2.00 | 2.15 | 107 | 4 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: 7199

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HCC023WQ | HCC023WX | HCC023WY | | |
| LAB FILE ID: | IC32004 | IC32010 | IC32012 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 03/30/1210:29 | 03/30/1211:42 | 03/30/1212:13 | DATE RECEIVED: | NA |
| PREP. BATCH: | HCC023W | HCC023W | HCC023W | | |
| CALIB. REF: | IC32001 | IC32001 | IC32001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 2.00 | 2.22 | 111 | 2.00 | 2.08 | 104 | 6 | 80-120 | 20 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD004SB | ND | 1 | NA | 1.00 | 0.500 | 04/05/1222:20 | 04/04/1214:52 | ID06010 | ID06008 | HCD004S | NA | 04/04/12 |
| MBLK1S | HCD004SQ | ND | 1 | NA | 1.00 | 0.500 | 04/05/1222:30 | 04/04/1214:52 | ID06011 | ID06008 | HCD004S | NA | 04/04/12 |
| LCS1S | CSD004SL | 10.2 | 1 | NA | 1.00 | 0.500 | 04/05/1222:41 | 04/04/1214:52 | ID06012 | ID06008 | HCD004S | NA | 04/04/12 |
| LCS1S | CSD004SX | 11.1 | 1 | NA | 1.00 | 0.500 | 04/05/1222:51 | 04/04/1214:52 | ID06013 | ID06008 | HCD004S | NA | 04/04/12 |
| LCS2S | CID004SL | 302 | 20 | NA | 20.0 | 10.0 | 04/05/1223:02 | 04/04/1214:52 | ID06014 | ID06008 | HCD004S | NA | 04/04/12 |
| LCS2S | CID004SX | 293 | 20 | NA | 20.0 | 10.0 | 04/05/1223:12 | 04/04/1214:52 | ID06015 | ID06008 | HCD004S | NA | 04/04/12 |
| SL-044-NBZ-SS-0.0-0.5 | C305-03 | ND | 1 | 3.5 | 1.04 | 0.518 | 04/05/1223:22 | 04/04/1214:52 | ID06016 | ID06008 | HCD004S | 03/29/1213:11 | 03/29/12 |
| SL-044-NBZ-SS-0.0-0.5 | C305-03R | ND | 1 | 3.5 | 1.04 | 0.518 | 04/05/1223:33 | 04/04/1214:52 | ID06017 | ID06008 | HCD004S | 03/29/1213:11 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | ND | 1 | 17.7 | 1.22 | 0.608 | 04/05/1223:43 | 04/04/1214:52 | ID06018 | ID06008 | HCD004S | 03/29/1209:09 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04R | ND | 1 | 17.7 | 1.22 | 0.608 | 04/05/1223:54 | 04/04/1214:52 | ID06019 | ID06008 | HCD004S | 03/29/1209:09 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | ND | 1 | 14.6 | 1.17 | 0.585 | 04/06/1200:25 | 04/04/1214:52 | ID06022 | ID06020 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05R | ND | 1 | 14.6 | 1.17 | 0.585 | 04/06/1200:35 | 04/04/1214:52 | ID06023 | ID06020 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05H | 197 | 20 | 14.6 | 23.4 | 11.7 | 04/06/1201:48 | 04/04/1214:52 | ID06030 | ID06020 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05H1 | 167 | 20 | 14.6 | 23.4 | 11.7 | 04/06/1201:59 | 04/04/1214:52 | ID06031 | ID06020 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | ND | 1 | 8.9 | 1.10 | 0.549 | 04/06/1202:30 | 04/04/1214:52 | ID06034 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08R | ND | 1 | 8.9 | 1.10 | 0.549 | 04/06/1202:40 | 04/04/1214:52 | ID06035 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08G | 202 | 20 | 8.9 | 22.0 | 11.0 | 04/06/1203:32 | 04/04/1214:52 | ID06040 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08G1 | 194 | 20 | 8.9 | 22.0 | 11.0 | 04/06/1203:43 | 04/04/1214:52 | ID06041 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08H | 193 | 20 | 8.9 | 22.0 | 11.0 | 04/06/1203:53 | 04/04/1214:52 | ID06042 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08H1 | 177 | 20 | 8.9 | 22.0 | 11.0 | 04/06/1204:03 | 04/04/1214:52 | ID06043 | ID06032 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | ND | 1 | 12.5 | 1.14 | 0.571 | 04/06/1204:35 | 04/04/1214:52 | ID06046 | ID06044 | HCD004S | 03/29/1210:05 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06R | ND | 1 | 12.5 | 1.14 | 0.571 | 04/06/1204:45 | 04/04/1214:52 | ID06047 | ID06044 | HCD004S | 03/29/1210:05 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09 | ND | 1 | 7.6 | 1.08 | 0.541 | 04/06/1205:16 | 04/04/1214:52 | ID06050 | ID06044 | HCD004S | 03/29/1210:35 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09R | ND | 1 | 7.6 | 1.08 | 0.541 | 04/06/1205:27 | 04/04/1214:52 | ID06051 | ID06044 | HCD004S | 03/29/1210:35 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | ND | 1 | 13.9 | 1.16 | 0.581 | 04/06/1205:37 | 04/04/1214:52 | ID06052 | ID06044 | HCD004S | 03/29/1213:55 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10R | ND | 1 | 13.9 | 1.16 | 0.581 | 04/06/1205:47 | 04/04/1214:52 | ID06053 | ID06044 | HCD004S | 03/29/1213:55 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12 | ND | 1 | 18.6 | 1.23 | 0.614 | 04/06/1205:58 | 04/04/1214:52 | ID06054 | ID06044 | HCD004S | 03/29/1210:20 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12R | ND | 1 | 18.6 | 1.23 | 0.614 | 04/06/1206:08 | 04/04/1214:52 | ID06055 | ID06044 | HCD004S | 03/29/1210:20 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | ND | 1 | 15.9 | 1.19 | 0.595 | 04/06/1206:39 | 04/04/1214:52 | ID06058 | ID06056 | HCD004S | 03/29/1212:09 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13R | ND | 1 | 15.9 | 1.19 | 0.595 | 04/06/1206:50 | 04/04/1214:52 | ID06059 | ID06056 | HCD004S | 03/29/1212:09 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | ND | 1 | 8.7 | 1.10 | 0.548 | 04/06/1207:00 | 04/04/1214:52 | ID06060 | ID06056 | HCD004S | 03/29/1215:10 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14R | ND | 1 | 8.7 | 1.10 | 0.548 | 04/06/1207:11 | 04/04/1214:52 | ID06061 | ID06056 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M | 12.3 | 1 | 14.6 | 1.17 | 0.585 | 04/06/1210:53 | 04/04/1214:52 | ID06072 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M1 | 10.5 | 1 | 14.6 | 1.17 | 0.585 | 04/06/1211:03 | 04/04/1214:52 | ID06073 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S | 12.1 | 1 | 14.6 | 1.17 | 0.585 | 04/06/1211:14 | 04/04/1214:52 | ID06074 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S1 | 12.5 | 1 | 14.6 | 1.17 | 0.585 | 04/06/1211:24 | 04/04/1214:52 | ID06075 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05G | 178 | 20 | 14.6 | 23.4 | 11.7 | 04/06/1211:34 | 04/04/1214:52 | ID06076 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05G1 | 192 | 20 | 14.6 | 23.4 | 11.7 | 04/06/1211:45 | 04/04/1214:52 | ID06077 | ID06070 | HCD004S | 03/29/1211:43 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M | 10.0 | 1 | 8.9 | 1.10 | 0.549 | 04/06/1211:55 | 04/04/1214:52 | ID06078 | ID06070 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MS | C305-08M1 | 11.4 | 1 | 8.9 | 1.10 | 0.549 | 04/06/1212:06 | 04/04/1214:52 | ID06079 | ID06070 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S | 11.6 | 1 | 8.9 | 1.10 | 0.549 | 04/06/1212:16 | 04/04/1214:52 | ID06080 | ID06070 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5MSD | C305-08S1 | 10.6 | 1 | 8.9 | 1.10 | 0.549 | 04/06/1212:26 | 04/04/1214:52 | ID06081 | ID06070 | HCD004S | 03/29/1215:10 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | ND | 1 | 12.8 | 1.15 | 0.573 | 04/06/1213:23 | 04/04/1214:52 | ID06084 | ID06082 | HCD004S | 03/29/1209:25 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07R | ND | 1 | 12.8 | 1.15 | 0.573 | 04/06/1213:34 | 04/04/1214:52 | ID06085 | ID06082 | HCD004S | 03/29/1209:25 | 03/29/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD004SQ CID004SX
LAB FILE ID: ID06011 ID06015
DATE EXTRACTED: 04/04/1214:52 04/04/1214:52 DATE COLLECTED: NA
DATE ANALYZED: 04/05/1222:30 04/05/1223:12 DATE RECEIVED: 04/04/12
PREP. BATCH: HCD004S HCD004S
CALIB. REF: ID06008 ID06008

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 350 | 293 | 84 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD004SQ CSD004SX
LAB FILE ID: ID06011 ID06013
DATE EXTRACTED: 04/04/1214:52 04/04/1214:52 DATE COLLECTED: NA
DATE ANALYZED: 04/05/1222:30 04/05/1222:51 DATE RECEIVED: 04/04/12
PREP. BATCH: HCD004S HCD004S
CALIB. REF: ID06008 ID06008

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 11.1 | 111 | 80-120 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: 7199

MATRIX: SOIL % MOISTURE: 14.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 20 | 20 | | |
| SAMPLE ID: | SL-092-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C305-05R | C305-05G1 | C305-05H1 | | |
| LAB FILE ID: | ID06023 | ID06077 | ID06031 | | |
| DATE EXTRACTED: | 04/04/1214:52 | 04/04/1214:52 | 04/04/1214:52 | DATE COLLECTED: | 03/29/12 11:43 |
| DATE ANALYZED: | 04/06/1200:35 | 04/06/1211:45 | 04/06/1201:59 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | HCD004S | HCD004S | HCD004S | | |
| CALIB. REF: | ID06020 | ID06070 | ID06020 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 210 | 192 | 91 | 187 | 167 | 89 | 14 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C305
METHOD: 7199

MATRIX: SOIL % MOISTURE: 8.9

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 20 | 20 | | |
| SAMPLE ID: | SL-118-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | C305-08R | C305-08G1 | C305-08H1 | | |
| LAB FILE ID: | ID06035 | ID06041 | ID06043 | | |
| DATE EXTRACTED: | 04/04/1214:52 | 04/04/1214:52 | 04/04/1214:52 | DATE COLLECTED: | 03/29/12 15:10 |
| DATE ANALYZED: | 04/06/1202:40 | 04/06/1203:43 | 04/06/1204:03 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | HCD004S | HCD004S | HCD004S | | |
| CALIB. REF: | ID06032 | ID06032 | ID06032 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 237 | 194 | 82 | 213 | 177 | 83 | 9 | 75-125 | 20 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305

Matrix : WATER
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | CND005WB | ND | 1 | NA | 0.0100 | 0.00500 | 04/10/1219:45 | 04/10/1211:00 | CND00510 | CND00508 | CND005W | NA | 04/10/12 |
| LCS1W | CND005WL | 0.111 | 1 | NA | 0.0100 | 0.00500 | 04/10/1219:45 | 04/10/1211:00 | CND00511 | CND00508 | CND005W | NA | 04/10/12 |
| LCD1W | CND005WC | 0.106 | 1 | NA | 0.0100 | 0.00500 | 04/10/1219:45 | 04/10/1211:00 | CND00512 | CND00508 | CND005W | NA | 04/10/12 |
| EB-NBZ-SB-032912 | C305-01 | ND | 1 | NA | 0.0100 | 0.00500 | 04/10/1219:46 | 04/10/1211:00 | CND00513 | CND00508 | CND005W | 03/29/1215:00 | 03/29/12 |
| EB-NBZ-SS-032912 | C305-02 | ND | 1 | NA | 0.0100 | 0.00500 | 04/10/1219:46 | 04/10/1211:00 | CND00514 | CND00508 | CND005W | 03/29/1215:45 | 03/29/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 12C305
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: CND005WL/C

DATE RECEIVED: 04/10/12
DATE EXTRACTED: 04/10/12 11:00
DATE ANALYZED: 04/10/12 19:45/19:45

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 0.100 | 0.111 | 111 | 0.100 | 0.106 | 106 | 5 | 85-115 | 20 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305

Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CND001SB | ND | 1 | NA | 0.500 | 0.250 | 04/03/1218:04 | 04/03/1211:00 | CND00110 | CND00108 | CND001S | NA | 04/03/12 |
| LCS1S | CND001SL | 2.49 | 1 | NA | 0.500 | 0.250 | 04/03/1218:04 | 04/03/1211:00 | CND00111 | CND00108 | CND001S | NA | 04/03/12 |
| LCD1S | CND001SC | 2.39 | 1 | NA | 0.500 | 0.250 | 04/03/1218:04 | 04/03/1211:00 | CND00112 | CND00108 | CND001S | NA | 04/03/12 |
| SL-044-NBZ-SS-0.0-0.5 | C305-03 | ND | 1 | NA | 0.500 | 0.250 | 04/03/1218:10 | 04/03/1211:00 | CND00123 | CND00120 | CND001S | 03/29/1213:11 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | ND | 1 | NA | 0.500 | 0.250 | 04/03/1218:11 | 04/03/1211:00 | CND00124 | CND00120 | CND001S | 03/29/1209:09 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | ND | 1 | NA | 0.500 | 0.250 | 04/03/1218:11 | 04/03/1211:00 | CND00125 | CND00120 | CND001S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MS | C305-05M | 3.16 | 1 | NA | 0.500 | 0.250 | 04/03/1218:11 | 04/03/1211:00 | CND00126 | CND00120 | CND001S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5MSD | C305-05S | 2.96 | 1 | NA | 0.500 | 0.250 | 04/03/1218:11 | 04/03/1211:00 | CND00127 | CND00120 | CND001S | 03/29/1211:43 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12 | ND | 1 | NA | 0.500 | 0.250 | 04/03/1218:11 | 04/03/1211:00 | CND00128 | CND00120 | CND001S | 03/29/1210:20 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | ND | 1 | NA | 0.500 | 0.250 | 04/03/1218:12 | 04/03/1211:00 | CND00129 | CND00120 | CND001S | 03/29/1212:09 | 03/29/12 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C305
SAMPLE ID: SL-092-NBZ-SS-0.0-0.5MS/MSD
CONTROL NO.: C305-05M/S

DATE RECEIVED: 03/29/12
DATE EXTRACTED: 04/03/12 11:00
DATE ANALYZED: 04/03/12 18:11/18:11

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.91 | 3.16 | 109 | 2.93 | 2.96 | 101 | 7 | 75-125 | 20 |

METHOD 9040C
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305
Matrix : WATER
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EB-NBZ-SB-032912 | C305-01 | 5.00 | 1 | NA | NA | NA | 03/29/1218:57 | NA | 12PHC028W01 | PHC028W | PHC028W | 03/29/1215:00 | 03/29/12 |
| EB-NBZ-SS-032912 | C305-02 | 4.23 | 1 | NA | NA | NA | 03/29/1218:58 | NA | 12PHC028W02 | PHC028W | PHC028W | 03/29/1215:45 | 03/29/12 |
| EB-NBZ-SS-032912DUP | C305-02D | 4.25 | 1 | NA | NA | NA | 03/29/1219:00 | NA | 12PHC028W03 | PHC028W | PHC028W | 03/29/1215:45 | 03/29/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9040C
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 12C305 DATE RECEIVED: 03/29/12
SAMPLE ID: EB-NBZ-SS-032912DUP DATE EXTRACTED: NA
CONTROL NO.: C305-02D DATE ANALYZED: 03/29/1219:00

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | RPD (pH Unit) | RPD LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 4.23 | 4.25 | 0.02 | 0.1 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C305
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-044-NBZ-SS-0.0-0.5 | C305-03 | 7.47 | 1 | NA | NA | NA | 03/30/1219:15 | 03/30/1219:15 | 12PHC030S01 | PHC030S | PHC030S | 03/29/1213:11 | 03/29/12 |
| SL-091-NBZ-SS-0.0-0.5 | C305-04 | 7.54 | 1 | NA | NA | NA | 03/30/1219:17 | 03/30/1219:15 | 12PHC030S02 | PHC030S | PHC030S | 03/29/1209:09 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5 | C305-05 | 7.38 | 1 | NA | NA | NA | 03/30/1219:19 | 03/30/1219:15 | 12PHC030S03 | PHC030S | PHC030S | 03/29/1211:43 | 03/29/12 |
| SL-092-NBZ-SS-0.0-0.5DUP | C305-05D | 7.42 | 1 | NA | NA | NA | 03/30/1219:20 | 03/30/1219:15 | 12PHC030S04 | PHD030S | PHC030S | 03/29/1211:43 | 03/29/12 |
| SL-101-NBZ-SS-0.0-0.5 | C305-06 | 6.80 | 1 | NA | NA | NA | 03/30/1219:21 | 03/30/1219:15 | 12PHC030S05 | PH3030S | PHC030S | 03/29/1210:05 | 03/29/12 |
| SL-103-NBZ-SS-0.0-0.5 | C305-07 | 7.00 | 1 | NA | NA | NA | 03/30/1219:22 | 03/30/1219:15 | 12PHC030S06 | PHC030S | PHC030S | 03/29/1209:25 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5 | C305-08 | 6.83 | 1 | NA | NA | NA | 03/30/1219:23 | 03/30/1219:15 | 12PHC030S07 | PHC030S | PHC030S | 03/29/1215:10 | 03/29/12 |
| SL-118-NBZ-SS-0.0-0.5DUP | C305-08D | 6.81 | 1 | NA | NA | NA | 03/30/1219:25 | 03/30/1219:15 | 12PHC030S08 | PHC030S | PHC030S | 03/29/1215:10 | 03/29/12 |
| SL-130-NBZ-SS-0.0-0.5 | C305-09 | 6.49 | 1 | NA | NA | NA | 03/30/1219:25 | 03/30/1219:15 | 12PHC030S09 | PHC030S | PHC030S | 03/29/1210:35 | 03/29/12 |
| SL-197-NBZ-SS-0.0-0.5 | C305-10 | 7.34 | 1 | NA | NA | NA | 03/30/1219:27 | 03/30/1219:15 | 12PHC030S10 | PHC030S | PHC030S | 03/29/1213:55 | 03/29/12 |
| SL-091-NBZ-SB-4.0-5.0 | C305-12 | 7.43 | 1 | NA | NA | NA | 03/30/1219:29 | 03/30/1219:15 | 12PHC030S11 | PHC030S | PHC030S | 03/29/1210:20 | 03/29/12 |
| DUP-05-NBZ-QC-032912 | C305-13 | 7.24 | 1 | NA | NA | NA | 03/30/1219:33 | 03/30/1219:15 | 12PHC030S12 | PHC030S | PHC030S | 03/29/1212:09 | 03/29/12 |
| DUP-04-NBZ-QC-032912 | C305-14 | 6.91 | 1 | NA | NA | NA | 03/30/1219:34 | 03/30/1219:15 | 12PHC030S13 | PHC030S | PHC030S | 03/29/1215:10 | 03/29/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C305 DATE RECEIVED: 03/29/12
SAMPLE ID: SL-092-NBZ-SS-0.0-0.5DUP DATE EXTRACTED: 03/30/1219:15
CONTROL NO.: C305-05D DATE ANALYZED: 03/30/1219:20

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | RPD (pH Unit) | RPD LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 7.38 | 7.42 | 0.04 | 0.1 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C305 DATE RECEIVED: 03/29/12
SAMPLE ID: SL-118-NBZ-SS-0.0-0.5DUP DATE EXTRACTED: 03/30/1219:15
CONTROL NO.: C305-08D DATE ANALYZED: 03/30/1219:25

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | RPD (pH Unit) | RPD LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 6.83 | 6.81 | 0.02 | 0.1 |

# SAMPLE DELIVERY GROUP

# 12C321

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/30/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C321 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-079-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 19:42 |
| Lab Samp ID: C321-01 | Dilution Factor: 1 |
| Lab File ID: RDJ142 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 13.9 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 98 |
| 1,2-DICHLOROBENZENE | ND | 190 | 98 |
| 1,3-DICHLOROBENZENE | ND | 190 | 98 |
| 1,4-DICHLOROBENZENE | ND | 190 | 98 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 98 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 98 |
| 2,4-DICHLOROPHENOL | ND | 190 | 98 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 98 |
| 2,4-DINITROPHENOL | ND | 390 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 98 |
| 2,6-DINITROTOLUENE | ND | 190 | 98 |
| 2-CHLORONAPHTHALENE | ND | 190 | 98 |
| 2-CHLOROPHENOL | ND | 190 | 98 |
| 2-METHYLNAPHTHALENE | ND | 190 | 98 |
| 2-METHYLPHENOL | ND | 190 | 98 |
| 2-NITROANILINE | ND | 190 | 98 |
| 2-NITROPHENOL | ND | 190 | 98 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 98 |
| 3-NITROANILINE | ND | 190 | 98 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 98 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 98 |
| 4-CHLOROANILINE | ND | 190 | 98 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 98 |
| 4-METHYLPHENOL (1) | ND | 190 | 98 |
| 4-NITROANILINE | ND | 190 | 98 |
| 4-NITROPHENOL | ND | 390 | 190 |
| ACENAPHTHENE | ND | 190 | 98 |
| ACENAPHTHYLENE | ND | 190 | 98 |
| ANTHRACENE | ND | 190 | 98 |
| BENZO(A)ANTHRACENE | ND | 190 | 98 |
| BENZO(A)PYRENE | ND | 190 | 98 |
| BENZO(B)FLUORANTHENE | ND | 190 | 98 |
| BENZO(K)FLUORANTHENE | ND | 190 | 98 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 98 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 98 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 98 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 98 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 98 |
| CHRYSENE | ND | 190 | 98 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 98 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 98 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 98 |
| DIBENZOFURAN | ND | 190 | 98 |
| DIETHYLPHTHALATE | ND | 190 | 98 |
| DIMETHYLPHTHALATE | ND | 190 | 98 |
| FLUORANTHENE | ND | 190 | 98 |
| FLUORENE | ND | 190 | 98 |
| HEXACHLOROBENZENE | ND | 190 | 98 |
| HEXACHLOROBUTADIENE | ND | 190 | 98 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 98 |
| HEXACHLOROETHANE | ND | 190 | 98 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 98 |
| ISOPHORONE | ND | 190 | 98 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 98 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 98 |
| NAPHTHALENE | ND | 190 | 98 |
| NITROBENZENE | ND | 190 | 98 |
| PENTACHLOROPHENOL | ND | 390 | 190 |
| PHENANTHRENE | ND | 190 | 98 |
| PHENOL | ND | 190 | 98 |
| PYRENE | ND | 190 | 98 |
| BENZYL ALCOHOL | ND | 190 | 98 |
| 1-METHYLNAPHTHALENE | ND | 190 | 98 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 98 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 98 |
| ANILINE | ND | 390 | 190 |
| BENZIDINE | ND | 960 | 490 |
| BENZOIC ACID | ND | 770 | 390 |
| CARBAZOLE | ND | 190 | 98 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 98 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1000 | 1161 | 86.4 | 35-130 |
| 2-FLUOROBIPHENYL | 246 | 387.1 | 63.6 | 45-130 |
| 2-FLUOROPHENOL | 756 | 1161 | 65.1 | 25-130 |
| NITROBENZENE-D5 | 255 | 387.1 | 65.9 | 40-130 |
| PHENOL-D5 | 820 | 1161 | 70.6 | 25-120 |
| TERPHENYL-D14 | 346 | 387.1 | 89.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/30/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C321 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-121-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 20:00 |
| Lab Samp ID: C321-02 | Dilution Factor: 1 |
| Lab File ID: RDJ143 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 7.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 460 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 851 | 1083 | 78.5 | 35-130 |
| 2-FLUOROBIPHENYL | 229 | 361.1 | 63.3 | 45-130 |
| 2-FLUOROPHENOL | 650 | 1083 | 60.0 | 25-130 |
| NITROBENZENE-D5 | 233 | 361.1 | 64.5 | 40-130 |
| PHENOL-D5 | 714 | 1083 | 65.9 | 25-120 |
| TERPHENYL-D14 | 304 | 361.1 | 84.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 03/30/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C321 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-134-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 20:19 |
| Lab Samp ID: C321-03 | Dilution Factor: 1 |
| Lab File ID: RDJ144 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 8.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 370 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 908 | 1096 | 82.8 | 35-130 |
| 2-FLUOROBIPHENYL | 243 | 365.5 | 66.4 | 45-130 |
| 2-FLUOROPHENOL | 691 | 1096 | 63.0 | 25-130 |
| NITROBENZENE-D5 | 248 | 365.5 | 67.8 | 40-130 |
| PHENOL-D5 | 769 | 1096 | 70.1 | 25-120 |
| TERPHENYL-D14 | 318 | 365.5 | 87.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12C321 | Date Extracted: 04/05/12 12:47 |
| Sample ID: MBLK1S | Date Analyzed: 04/06/12 12:10 |
| Lab Samp ID: SVD011SB | Dilution Factor: 1 |
| Lab File ID: RDJ118 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 701 | 1000 | 70.1 | 35-130 |
| 2-FLUOROBIPHENYL | 214 | 333.3 | 64.1 | 45-130 |
| 2-FLUOROPHENOL | 696 | 1000 | 69.6 | 25-130 |
| NITROBENZENE-D5 | 230 | 333.3 | 69.1 | 40-130 |
| PHENOL-D5 | 686 | 1000 | 68.6 | 25-120 |
| TERPHENYL-D14 | 310 | 333.3 | 93.1 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C321
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVD011SB SVD011SL SVD011SC
LAB FILE ID: RDJ118 RDJ119 RDJ120
DATE EXTRACTED: 04/05/1212:47 04/05/1212:47 04/05/1212:47 DATE COLLECTED: NA
DATE ANALYZED: 04/06/1212:10 04/06/1212:29 04/06/1212:48 DATE RECEIVED: 04/05/12
PREP. BATCH: SVD011S SVD011S SVD011S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 424 | 64 | 667 | 423 | 63 | 0 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 398 | 60 | 667 | 410 | 61 | 3 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 401 | 60 | 667 | 409 | 61 | 2 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 404 | 61 | 667 | 413 | 62 | 2 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 469 | 70 | 667 | 494 | 74 | 5 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 531 | 80 | 667 | 546 | 82 | 3 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 489 | 73 | 667 | 494 | 74 | 1 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 489 | 73 | 667 | 495 | 74 | 1 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 492 | 74 | 667 | 542 | 81 | 10 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 580 | 87 | 667 | 621 | 93 | 7 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 540 | 81 | 667 | 570 | 85 | 5 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 464 | 70 | 667 | 478 | 72 | 3 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 464 | 70 | 667 | 460 | 69 | 1 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 545 | 82 | 667 | 636 | 95 | 15 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 417 | 63 | 667 | 428 | 64 | 2 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 565 | 85 | 667 | 590 | 89 | 4 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 469 | 70 | 667 | 484 | 73 | 3 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 521 | 78 | 667 | 525 | 79 | 1 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 521 | 78 | 667 | 530 | 80 | 2 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 485 | 73 | 667 | 520 | 78 | 7 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 522 | 78 | 667 | 538 | 81 | 3 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 499 | 75 | 667 | 510 | 77 | 2 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 411 | 62 | 667 | 398 | 60 | 3 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 554 | 83 | 667 | 564 | 85 | 2 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 438 | 66 | 667 | 453 | 68 | 3 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 544 | 82 | 667 | 560 | 84 | 3 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 589 | 88 | 667 | 589 | 88 | 0 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 512 | 77 | 667 | 530 | 80 | 3 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 552 | 83 | 667 | 568 | 85 | 3 | 30-130 | 50 |
| Anthracene | ND | 667 | 544 | 82 | 667 | 562 | 84 | 3 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 606 | 91 | 667 | 643 | 96 | 6 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 593 | 89 | 667 | 623 | 93 | 5 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 638 | 96 | 667 | 668 | 100 | 5 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 629 | 94 | 667 | 671 | 101 | 6 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 673 | 101 | 667 | 715 | 107 | 6 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 564 | 85 | 667 | 566 | 85 | 0 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 526 | 79 | 667 | 540 | 81 | 3 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 555 | 83 | 667 | 566 | 85 | 2 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 622 | 93 | 667 | 651 | 98 | 5 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 634 | 95 | 667 | 671 | 101 | 6 | 40-150 | 50 |
| Chrysene | ND | 667 | 621 | 93 | 667 | 655 | 98 | 5 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 595 | 89 | 667 | 624 | 94 | 5 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 685 | 103 | 667 | 729 | 109 | 6 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 677 | 102 | 667 | 718 | 108 | 6 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 499 | 75 | 667 | 513 | 77 | 3 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 567 | 85 | 667 | 592 | 89 | 4 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 528 | 79 | 667 | 542 | 81 | 2 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 682 | 102 | 667 | 705 | 106 | 3 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 567 | 85 | 667 | 576 | 86 | 2 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 527 | 79 | 667 | 543 | 81 | 3 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 450 | 68 | 667 | 463 | 69 | 3 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 368 | 55 | 667 | 388 | 58 | 5 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 493 | 74 | 667 | 444 | 67 | 10 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 678 | 102 | 667 | 710 | 107 | 5 | 30-140 | 50 |
| Isophorone | ND | 667 | 550 | 82 | 667 | 555 | 83 | 1 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 428 | 64 | 667 | 452 | 68 | 5 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 458 | 69 | 667 | 406 | 61 | 12 | 30-140 | 50 |
| Naphthalene | ND | 667 | 506 | 76 | 667 | 510 | 76 | 1 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 527 | 79 | 667 | 535 | 80 | 2 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 523 | 78 | 667 | 554 | 83 | 6 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 570 | 85 | 667 | 585 | 88 | 3 | 30-130 | 50 |
| Phenol | ND | 667 | 473 | 71 | 667 | 472 | 71 | 0 | 30-130 | 50 |
| Pyrene | ND | 667 | 598 | 90 | 667 | 636 | 95 | 6 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 415 | 62 | 667 | 427 | 64 | 3 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 543 | 81 | 667 | 553 | 83 | 2 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 514 | 77 | 667 | 526 | 79 | 2 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 437 | 65 | 667 | 440 | 66 | 1 | 20-150 | 50 |
| Aniline | ND | 667 | 353 | 53 | 667 | 354 | 53 | 0 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1430 | 54 | 2670 | 1260 | 47 | 13 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 1280 | 48 | 2670 | 1330 | 50 | 4 | 10-130 | 50 |
| Carbazole | ND | 667 | 543 | 81 | 667 | 563 | 85 | 4 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 530 | 79 | 667 | 520 | 78 | 2 | 30-150 | 50 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 806 | 81 | 1000 | 764 | 76 | 35-130 |
| 2-Fluorobiphenyl | 333 | 212 | 64 | 333 | 192 | 58 | 45-130 |
| 2-Fluorophenol | 1000 | 697 | 70 | 1000 | 614 | 61 | 25-130 |
| Nitrobenzene-d5 | 333 | 240 | 72 | 333 | 224 | 67 | 40-130 |
| Phenol-d5 | 1000 | 705 | 70 | 1000 | 632 | 63 | 25-120 |
| Terphenyl-d14 | 333 | 303 | 91 | 333 | 296 | 89 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/30/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C321 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-079-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 19:42 |
| Lab Samp ID: C321-01 | Dilution Factor: 1 |
| Lab File ID: RDJ142 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 13.9 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 0.99 |
| ACENAPHTHYLENE | ND | 2.0 | 0.99 |
| ANTHRACENE | ND | 2.0 | 0.99 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 0.99 |
| BENZO(A)PYRENE | ND | 2.0 | 0.99 |
| BENZO(B)FLUORANTHENE | 2.6 | 2.0 | 0.99 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 0.99 |
| BENZO(G,H,I)PERYLENE | 2.0 | 2.0 | 0.99 |
| CHRYSENE | 1.4J | 2.0 | 0.99 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 0.99 |
| FLUORANTHENE | 2.7 | 2.0 | 0.99 |
| FLUORENE | ND | 2.0 | 0.99 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 0.99 |
| NAPHTHALENE | ND | 2.0 | 0.99 |
| PHENANTHRENE | ND | 2.0 | 0.99 |
| PYRENE | 2.2 | 2.0 | 0.99 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 19 | 9.8 |
| BUTYLBENZYLPHTHALATE | 10J | 19 | 9.8 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.8 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.8 |
| DIETHYLPHTHALATE | ND | 19 | 9.8 |
| DIMETHYLPHTHALATE | ND | 19 | 9.8 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 0.99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 274 | 387.1 | 70.9 | 40-130 |
| 2-FLUOROBIPHENYL | 258 | 387.1 | 66.6 | 45-130 |
| TERPHENYL-D14 | 313 | 387.1 | 80.8 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/30/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C321 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-121-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 20:00 |
| Lab Samp ID: C321-02 | Dilution Factor: 1 |
| Lab File ID: RDJ143 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 7.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | 1.5J | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | 2.7 | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | 1.1J | 1.8 | 0.92 |
| PYRENE | 4.2 | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 18J | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | 110 | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 248 | 361.1 | 68.6 | 40-130 |
| 2-FLUOROBIPHENYL | 233 | 361.1 | 64.4 | 45-130 |
| TERPHENYL-D14 | 269 | 361.1 | 74.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 03/30/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C321 | Date Extracted: 04/05/12 12:47 |
| Sample ID: SL-134-NBZ-SS-0.0-0.5 | Date Analyzed: 04/06/12 20:19 |
| Lab Samp ID: C321-03 | Dilution Factor: 1 |
| Lab File ID: RDJ144 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : 8.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)PYRENE | ND | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.93 |
| CHRYSENE | ND | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | 3.4 | 1.9 | 0.93 |
| FLUORENE | ND | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | ND | 1.9 | 0.93 |
| PYRENE | 2.4 | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 23 | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | 41 | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 266 | 365.5 | 72.8 | 40-130 |
| 2-FLUOROBIPHENYL | 251 | 365.5 | 68.6 | 45-130 |
| TERPHENYL-D14 | 280 | 365.5 | 76.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12C321 | Date Extracted: 04/05/12 12:47 |
| Sample ID: MBLK1S | Date Analyzed: 04/06/12 12:10 |
| Lab Samp ID: SVD011SB | Dilution Factor: 1 |
| Lab File ID: RDJ118 | Matrix : SOIL |
| Ext Btch ID: SVD011S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 247 | 333.3 | 74.0 | 40-130 |
| 2-FLUOROBIPHENYL | 227 | 333.3 | 68.0 | 45-130 |
| TERPHENYL-D14 | 310 | 333.3 | 93.0 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C321
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVD011SB | SVD011SX | SVD011SY | | |
| LAB FILE ID: | RDJ118 | RDJ121 | RDJ122 | | |
| DATE EXTRACTED: | 04/05/1212:47 | 04/05/1212:47 | 04/05/1212:47 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/06/1212:10 | 04/06/1213:06 | 04/06/1213:25 | DATE RECEIVED: | 04/05/12 |
| PREP. BATCH: | SVD011S | SVD011S | SVD011S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 261 | 78 | 333 | 258 | 77 | 1 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 295 | 89 | 333 | 292 | 88 | 1 | 20-130 | 50 |
| Anthracene | ND | 333 | 276 | 83 | 333 | 260 | 78 | 6 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 329 | 99 | 333 | 305 | 92 | 7 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 337 | 101 | 333 | 323 | 97 | 4 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 353 | 106 | 333 | 349 | 105 | 1 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 355 | 106 | 333 | 345 | 103 | 3 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 368 | 110 | 333 | 363 | 109 | 1 | 30-140 | 50 |
| Chrysene | ND | 333 | 314 | 94 | 333 | 295 | 89 | 6 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 372 | 112 | 333 | 366 | 110 | 2 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 331 | 99 | 333 | 309 | 93 | 7 | 30-130 | 50 |
| Fluorene | ND | 333 | 287 | 86 | 333 | 275 | 82 | 4 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 375 | 112 | 333 | 367 | 110 | 2 | 20-160 | 50 |
| Naphthalene | ND | 333 | 238 | 71 | 333 | 238 | 72 | 0 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 279 | 84 | 333 | 265 | 79 | 5 | 20-130 | 50 |
| Pyrene | ND | 333 | 319 | 96 | 333 | 296 | 89 | 8 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 266 | 80 | 333 | 267 | 80 | 0 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 265 | 79 | 333 | 266 | 80 | 0 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 317 | 95 | 333 | 295 | 89 | 7 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 305 | 92 | 333 | 281 | 84 | 8 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 301 | 90 | 333 | 288 | 86 | 4 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 305 | 91 | 333 | 294 | 88 | 4 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 315 | 94 | 333 | 292 | 88 | 7 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 284 | 85 | 333 | 269 | 81 | 6 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 251 | 75 | 333 | 248 | 74 | 1 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 245 | 73 | 333 | 236 | 71 | 40-130 |
| 2-Fluorobiphenyl | 333 | 221 | 66 | 333 | 215 | 64 | 45-130 |
| Terphenyl-d14 | 333 | 307 | 92 | 333 | 280 | 84 | 45-135 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 03/30/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C321 | Date Extracted: 04/06/12 14:05 |
| Sample ID: SL-079-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 02:36 |
| Lab Samp ID: C321-01 | Dilution Factor: 1 |
| Lab File ID: LD10030A | Matrix : SOIL |
| Ext Btch ID: DSD007S | % Moisture : 13.9 |
| Calib. Ref.: LD10022A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.60J | 1.2 | 0.58 |
| EFH(C12-C14) | ND | 1.2 | 0.58 |
| EFH(C15-C20) | ND | 1.2 | 0.58 |
| EFH(C21-C30) | 2.0 | 1.2 | 0.58 |
| EFH(C30-C40) | 4.5 | 1.2 | 0.58 |
| TOTAL EFH(C8-C40) | 7.1 | 1.2 | 0.58 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.88 | 11.61 | 67.9 | 50-150 |
| HEXACOSANE | 2.55 | 2.904 | 87.9 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/06/12 |
| Batch No. : 12C321 | Date Extracted: 04/06/12 14:05 |
| Sample ID: MBLK1S | Date Analyzed: 04/11/12 00:03 |
| Lab Samp ID: DSD007SB | Dilution Factor: 1 |
| Lab File ID: LD10021A | Matrix : SOIL |
| Ext Btch ID: DSD007S | % Moisture : NA |
| Calib. Ref.: LD10011A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.23 | 10.00 | 72.3 | 50-150 |
| HEXACOSANE | 2.03 | 2.500 | 81.2 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C321
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSD007SB | DSD007SL | DSD007SC | | |
| LAB FILE ID: | LD10021A | LD10019A | LD10020A | | |
| DATE EXTRACTED: | 04/06/1214:05 | 04/06/1214:05 | 04/06/1214:05 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1200:03 | 04/10/1223:29 | 04/10/1223:46 | DATE RECEIVED: | 04/06/12 |
| PREP. BATCH: | DSD007S | DSD007S | DSD007S | | |
| CALIB. REF: | LD10011A | LD10011A | LD10011A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 42.9 | 86 | 50.0 | 40.5 | 81 | 6 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 7.60 | 76 | 10.0 | 7.80 | 78 | 50-150 |
| Hexacosane | 2.50 | 2.00 | 80 | 2.50 | 2.05 | 82 | 50-150 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/30/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C321 | Date Extracted: 04/05/12 14:56 |
| Sample ID: SL-079-NBZ-SS-0.0-0.5 | Date Analyzed: 04/12/12 17:26 |
| Lab Samp ID: C321-01 | Dilution Factor: 1 |
| Lab File ID: LD12019A | Matrix : SOIL |
| Ext Btch ID: CPD010S | % Moisture : 13.9 |
| Calib. Ref.: LD12005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| BETA-BHC | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| HEPTACHLOR | 0.58 \| (0.74) | 0.20 | 0.099 \| 0.099 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| ALDRIN | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| HEPTACHLOR EPOXIDE | 0.14J \| (ND) | 0.20 | 0.099 \| 0.099 |
| ENDOSULFAN I | (ND) \| 0.10J | 0.20 | 0.099 \| 0.099 |
| 4,4'-DDE | 0.83 \| (0.88) | 0.39 | 0.20 \| 0.20 |
| DIELDRIN | 0.58 \| (ND) | 0.39 | 0.20 \| 0.20 |
| ENDRIN | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| 0.93 | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN II | 0.42 \| (ND) | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDT | 0.60 \| (1.4) | 0.39 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (0.65) \| 0.30J | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| METHOXYCHLOR | 4.7 \| (ND) | 2.0 | 0.99 \| 0.99 |
| MIREX | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.7 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 6.164 \| (7.839) | 6.194 | 99.5 \| (127) | 50-130 |
| DECACHLOROBIPHENYL | (5.307) \| 4.847 | 6.194 | (85.7) \| 78.3 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/30/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C321 | Date Extracted: 04/05/12 14:56 |
| Sample ID: SL-121-NBZ-SS-0.0-0.5 | Date Analyzed: 04/12/12 20:09 |
| Lab Samp ID: C321-02 | Dilution Factor: 1 |
| Lab File ID: LD12026A | Matrix : SOIL |
| Ext Btch ID: CPD010S | % Moisture : 7.7 |
| Calib. Ref.: LD12021A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 1.3 \| (ND) | 0.18 | 0.092 \| 0.092 |
| GAMMA-BHC (LINDANE) | (ND) \| 1.0 | 0.18 | 0.092 \| 0.092 |
| BETA-BHC | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR | 0.98 \| (ND) | 0.18 | 0.092 \| 0.092 |
| DELTA-BHC | (ND) \| 11 | 0.18 | 0.092 \| 0.092 |
| ALDRIN | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR EPOXIDE | 2.1 \| (0.11J) | 0.18 | 0.092 \| 0.092 |
| ENDOSULFAN I | (ND) \| 0.28 | 0.18 | 0.092 \| 0.092 |
| 4,4'-DDE | (1.9) \| 1.3 | 0.37 | 0.18 \| 0.18 |
| DIELDRIN | 1.2 \| (ND) | 0.37 | 0.18 \| 0.18 |
| ENDRIN | 0.53 \| (ND) | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDD | (0.25J) \| 5.8 | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN II | 3.1 \| (0.28J) | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDT | 4.6 \| (6.4) | 0.37 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | (ND) \| 0.85 | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | 15 \| (ND) | 0.37 | 0.18 \| 0.18 |
| ENDRIN KETONE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| METHOXYCHLOR | 20 \| (3.0) | 1.8 | 0.92 \| 0.92 |
| MIREX | 3.1 \| (3.2) | 0.37 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 7.2 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (5.515) \| 7.875 | 5.778 | (95.4) \| 136* | 50-130 |
| DECACHLOROBIPHENYL | (3.604) \| 3.564 | 5.778 | (62.4) \| 61.7 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/30/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C321 | Date Extracted: 04/05/12 14:56 |
| Sample ID: SL-134-NBZ-SS-0.0-0.5 | Date Analyzed: 04/12/12 20:31 |
| Lab Samp ID: C321-03 | Dilution Factor: 1 |
| Lab File ID: LD12027A | Matrix : SOIL |
| Ext Btch ID: CPD010S | % Moisture : 8.8 |
| Calib. Ref.: LD12021A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| HEPTACHLOR | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| DELTA-BHC | 0.12J \| (ND) | 0.19 | 0.093 \| 0.093 |
| ALDRIN | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| HEPTACHLOR EPOXIDE | 0.58 \| (0.34) | 0.19 | 0.093 \| 0.093 |
| ENDOSULFAN I | (ND) \| 0.10J | 0.19 | 0.093 \| 0.093 |
| 4,4'-DDE | (4.7) \| 4.3 | 0.37 | 0.19 \| 0.19 |
| DIELDRIN | 0.25J \| (0.43) | 0.37 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| 3.0 | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN II | 1.3 \| (ND) | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDT | 4.0 \| (7.3) | 0.37 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | 2.5 \| (0.52) | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | 2.5 \| (ND) | 0.37 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| METHOXYCHLOR | 16 \| (0.96J) | 1.9 | 0.93 \| 0.93 |
| MIREX | (2.9) \| 2.2 | 0.37 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.2 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| 2.6J | 3.7 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.598 \| (7.440) | 5.848 | 95.7 \| (127) | 50-130 |
| DECACHLOROBIPHENYL | (4.295) \| 3.236 | 5.848 | (73.5) \| 55.3 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12C321 | Date Extracted: 04/05/12 14:56 |
| Sample ID: MBLK1S | Date Analyzed: 04/11/12 12:13 |
| Lab Samp ID: CPD010SB | Dilution Factor: 1 |
| Lab File ID: LD11009A | Matrix : SOIL |
| Ext Btch ID: CPD010S | % Moisture : NA |
| Calib. Ref.: LD11005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.966\|(5.520) | 5.333 | 93.1\|(104) | 50-130 |
| DECACHLOROBIPHENYL | 5.301\|(5.758) | 5.333 | 99.4\|(108) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C321
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | CPD010SB | CPD010SL | CPD010SC | | |
| LAB FILE ID: | LD11009A | LD11010A | LD11011A | | |
| DATE EXTRACTED: | 04/05/1214:56 | 04/05/1214:56 | 04/05/1214:56 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1212:13 | 04/11/1212:35 | 04/11/1212:57 | DATE RECEIVED: | 04/05/12 |
| PREP. BATCH: | CPD010S | CPD010S | CPD010S | | |
| CALIB. REF: | LD11005A | LD11005A | LD11005A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 2.67 | 2.65\|(2.89) | 99\|(108) | 2.67 | 2.77\|(3.04) | 104\|(114) | 4\|(5) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|ND | 2.67 | 2.65\|(2.91) | 99\|(109) | 2.67 | 2.78\|(3.07) | 104\|(115) | 5\|(5) | 40-130 | 50 |
| beta-BHC | (ND)\|ND | 2.67 | (2.97)\|2.68 | (111)\|100 | 2.67 | (3.21)\|2.82 | (120)\|106 | (8)\|5 | 50-140 | 50 |
| Heptachlor | (ND)\|ND | 2.67 | 2.93\|(3.07) | 110\|(115) | 2.67 | 3.17\|(3.27) | 119\|(122) | 8\|(6) | 30-130 | 50 |
| delta-BHC | (ND)\|ND | 2.67 | 3.08\|(3.48) | 115\|(130) | 2.67 | 3.26\|(3.82) | 122\|(143) | 6\|(9) | 30-150 | 50 |
| Aldrin | (ND)\|ND | 2.67 | 2.60\|(2.98) | 97\|(112) | 2.67 | 3.03\|(3.21) | 113\|(120) | 15\|(7) | 30-130 | 50 |
| Heptachlor Epoxide | (ND)\|ND | 2.67 | 2.67\|(3.12) | 100\|(117) | 2.67 | 2.90\|(3.12) | 109\|(117) | 8\|(0) | 60-140 | 50 |
| Endosulfan I | (ND)\|ND | 2.67 | 2.58\|(2.89) | 97\|(108) | 2.67 | 2.82\|(3.07) | 106\|(115) | 9\|(6) | 50-150 | 50 |
| 4,4'-DDE | (ND)\|ND | 2.67 | 3.01\|(3.03) | 113\|(113) | 2.67 | 3.13\|(3.14) | 117\|(118) | 4\|(4) | 50-150 | 50 |
| Dieldrin | (ND)\|ND | 2.67 | (3.23)\|3.00 | (121)\|112 | 2.67 | (3.05)\|3.03 | (114)\|113 | (6)\|1 | 60-130 | 50 |
| Endrin | (ND)\|ND | 2.67 | 2.97\|(3.13) | 111\|(117) | 2.67 | 3.08\|(3.09) | 115\|(116) | 4\|(1) | 50-140 | 50 |
| 4,4'-DDD | (ND)\|ND | 2.67 | 2.90\|(2.94) | 109\|(110) | 2.67 | 3.04\|(3.05) | 114\|(114) | 5\|(4) | 50-160 | 50 |
| Endosulfan II | (ND)\|ND | 2.67 | 3.11\|(3.21) | 116\|(120) | 2.67 | 3.27\|(3.37) | 122\|(126) | 5\|(5) | 60-150 | 50 |
| 4,4'-DDT | (ND)\|ND | 2.67 | (3.73)\|3.25 | (140)\|122 | 2.67 | (3.69)\|3.38 | (138)\|127 | (1)\|4 | 60-140 | 50 |
| Endrin aldehyde | (ND)\|ND | 2.67 | (3.10)\|3.08 | (116)\|115 | 2.67 | 3.08\|(3.16) | 115\|(118) | 1\|(3) | 50-160 | 50 |
| Endosulfan Sulfate | (ND)\|ND | 2.67 | 3.36\|(3.43) | 126\|(128) | 2.67 | 3.51\|(3.60) | 131\|(135) | 4\|(5) | 70-140 | 50 |
| Endrin Ketone | (ND)\|ND | 2.67 | 3.11\|(3.15) | 116\|(118) | 2.67 | 3.24\|(3.37) | 121\|(126) | 4\|(7) | 70-160 | 50 |
| Methoxychlor | (ND)\|ND | 26.7 | 28.7\|(30.6) | 107\|(115) | 26.7 | 30.0\|(32.1) | 112\|(120) | 4\|(5) | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 4.885\|(5.144) | 91.6\|(96.5) | 5.333 | 5.363\|(5.760) | 101\|(108) | 50-130 |
| Decachlorobiphenyl | 5.333 | 5.438\|(6.103) | 102\|(114) | 5.333 | 6.082\|(6.415) | 114\|(120) | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/30/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C321 | Date Extracted: 04/06/12 16:33 |
| Sample ID: SL-079-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 10:57 |
| Lab Samp ID: C321-01 | Dilution Factor: 1 |
| Lab File ID: KD17030A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : 13.9 |
| Calib. Ref.: KD17017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.653\|(5.498) | 6.194 | 124*\|(88.8) | 45-120 |
| TETRACHLORO-M-XYLENE | (9.105)\|6.289 | 6.194 | (147)\|102 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/30/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C321 | Date Extracted: 04/06/12 16:33 |
| Sample ID: SL-121-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 11:51 |
| Lab Samp ID: C321-02 | Dilution Factor: 1 |
| Lab File ID: KD17031A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : 7.7 |
| Calib. Ref.: KD17017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.507\|(5.255) | 5.778 | 130*\|(91.0) | 45-120 |
| TETRACHLORO-M-XYLENE | (9.142)\|5.862 | 5.778 | (158)\|101 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 03/30/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C321 | Date Extracted: 04/06/12 16:33 |
| Sample ID: SL-134-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 12:45 |
| Lab Samp ID: C321-03 | Dilution Factor: 1 |
| Lab File ID: KD17032A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : 8.8 |
| Calib. Ref.: KD17017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.367\|(5.044) | 5.848 | 126*\|(86.3) | 45-120 |
| TETRACHLORO-M-XYLENE | (8.015)\|5.417 | 5.848 | (137)\|92.6 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/06/12 |
| Batch No. : 12C321 | Date Extracted: 04/06/12 16:33 |
| Sample ID: MBLK1S | Date Analyzed: 04/18/12 01:56 |
| Lab Samp ID: 60D013SB | Dilution Factor: 1 |
| Lab File ID: KD17020A | Matrix : SOIL |
| Ext Btch ID: CPD013S | % Moisture : NA |
| Calib. Ref.: KD17017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 8.264\|(5.724) | 5.333 | 155*\|(107) | 45-120 |
| TETRACHLORO-M-XYLENE | 8.795\|(6.579) | 5.333 | 165*\|(123) | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C321
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60D013SB | 60D013SL | 60D013SC | | |
| LAB FILE ID: | KD17020A | KD17021A | KD17022A | | |
| DATE EXTRACTED: | 04/06/1216:33 | 04/06/1216:33 | 04/06/1216:33 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/18/1201:56 | 04/18/1202:50 | 04/18/1203:44 | DATE RECEIVED: | 04/06/12 |
| PREP. BATCH: | CPD013S | CPD013S | CPD013S | | |
| CALIB. REF: | KD17017A | KD17017A | KD17017A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (65.8)\|60.5 | (99)\|91 | 66.7 | (64.2)\|53.1 | (96)\|80 | (2)\|13 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (79.4)\|59.5 | (119)\|89 | 66.7 | (74.3)\|55.8 | (111)\|84 | (7)\|6 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | (71.2)\|67.4 | (107)\|101 | 66.7 | (68.1)\|63.5 | (102)\|95 | (4)\|6 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | 6.553\|(4.670) | 123*\|(87.6) | 5.333 | (5.936)\|4.267 | (111)\|80.0 | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (6.823)\|5.538 | (128)\|104 | 5.333 | (6.136)\|5.066 | (115)\|95.0 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/30/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C321 | Date Extracted: 04/10/12 18:13 |
| Sample ID: SL-079-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 14:02 |
| Lab Samp ID: C321-01 | Dilution Factor: 1 |
| Lab File ID: WD11007A | Matrix : SOIL |
| Ext Btch ID: HED005S | % Moisture : 13.9 |
| Calib. Ref.: WD11003A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 0.99\|0.99 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.099\|0.099 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.099\|0.099 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.70\|0.70 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 0.99\|0.99 |
| MCPA | (ND)\|ND | 290 | 150\|150 |
| MCPP | (ND)\|ND | 290 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (196.8)\|158.9 | 174.2 | (113)\|91.2 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/30/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C321 | Date Extracted: 04/10/12 18:13 |
| Sample ID: SL-121-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 14:28 |
| Lab Samp ID: C321-02 | Dilution Factor: 1 |
| Lab File ID: WD11008A | Matrix : SOIL |
| Ext Btch ID: HED005S | % Moisture : 7.7 |
| Calib. Ref.: WD11003A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.8 | 0.92\|0.92 |
| 2,4,5-T | (ND)\|ND | 0.18 | 0.092\|0.092 |
| 2,4,5-TP(SILVEX) | 0.13J\|(ND) | 0.18 | 0.092\|0.092 |
| DALAPON | (ND)\|ND | 9.8 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.65\|0.65 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.8 | 0.92\|0.92 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|830 | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (198.8)\|147.5 | 162.5 | (122)\|90.8 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 03/30/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C321 | Date Extracted: 04/10/12 18:13 |
| Sample ID: SL-134-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 14:55 |
| Lab Samp ID: C321-03 | Dilution Factor: 1 |
| Lab File ID: WD11009A | Matrix : SOIL |
| Ext Btch ID: HED005S | % Moisture : 8.8 |
| Calib. Ref.: WD11003A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.093\|0.093 |
| 2,4,5-TP(SILVEX) | 0.85\|(ND) | 0.19 | 0.093\|0.093 |
| DALAPON | (ND)\|ND | 9.9 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.66\|0.66 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|900 | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (191.1)\|126.6 | 164.5 | (116)\|77.0 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12C321 | Date Extracted: 04/10/12 18:13 |
| Sample ID: MBLK1S | Date Analyzed: 04/11/12 12:42 |
| Lab Samp ID: HED005SB | Dilution Factor: 1 |
| Lab File ID: WD11004A | Matrix : SOIL |
| Ext Btch ID: HED005S | % Moisture : NA |
| Calib. Ref.: WD11003A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | 0.20\|(ND) | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | 180J\|(ND) | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (172.8)\|139.4 | 150.0 | (115)\|93.0 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C321
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HED005SB | HED005SL | HED005SC | | |
| LAB FILE ID: | WD11004A | WD11005A | WD11006A | | |
| DATE EXTRACTED: | 04/10/1218:13 | 04/10/1218:13 | 04/10/1218:13 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1212:42 | 04/11/1213:09 | 04/11/1213:35 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | HED005S | HED005S | HED005S | | |
| CALIB. REF: | WD11003A | WD11003A | WD11003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND) \| ND | 15.0 | (16.4) \| 14.4 | (109) \| 96 | 15.0 | (17.6) \| 15.5 | (117) \| 103 | (7) \| 7 | 20-130 | 50 |
| 2,4-DB | (ND) \| ND | 15.0 | 14.4 \| (20.3) | 96 \| (135) | 15.0 | 15.8 \| (16.4) | 105 \| (109) | 9 \| (21) | 20-160 | 50 |
| 2,4,5-T | 0.20 \| (ND) | 15.0 | 15.3 \| (17.0) | 102 \| (113) | 15.0 | (16.7) \| 16.7 | (111) \| 111 | (9) \| 2 | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND) \| ND | 15.0 | (15.7) \| 14.9 | (105) \| 99 | 15.0 | (17.3) \| 17.3 | (115) \| 115 | (10) \| 15 | 30-140 | 50 |
| Dalapon | (ND) \| ND | 15.0 | 7.64J \| (11.0) | 51 \| (73) | 15.0 | 7.82J \| (11.3) | 52 \| (75) | 2 \| (3) | 20-160 | 50 |
| Dicamba | (ND) \| ND | 15.0 | (15.0) \| 13.6 | (100) \| 91 | 15.0 | (16.5) \| 15.4 | (110) \| 103 | (10) \| 12 | 50-150 | 50 |
| Dichloroprop | (ND) \| ND | 15.0 | (17.1) \| 16.7 | (114) \| 111 | 15.0 | (18.7) \| 18.3 | (125) \| 122 | (9) \| 9 | 60-160 | 50 |
| Dinoseb | (ND) \| ND | 15.0 | (8.93) \| 8.10 | (60) \| 54 | 15.0 | (9.07) \| 7.49 | (60) \| 50 | (2) \| 8 | 20-130 | 50 |
| MCPA | (ND) \| ND | 750 | (803) \| 699 | (107) \| 93 | 750 | (815) \| 717 | (109) \| 96 | (1) \| 3 | 20-160 | 50 |
| MCPP | 180J \| (ND) | 750 | (1040) \| 533 | (139) \| 71 | 750 | (1120) \| 603 | (149) \| 80 | (7) \| 12 | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 | (162.2) \| 134.5 | (108) \| 89.7 | 150.0 | (180.6) \| 149.7 | (120) \| 99.8 | 10-150 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 03/30/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 03/30/12 |
| Batch No. : 12C321 | Date Extracted: 04/05/12 19:25 |
| Sample ID: SL-079-NBZ-SS-0.0-0.5 | Date Analyzed: 04/07/12 10:41 |
| Lab Samp ID: C321-01 | Dilution Factor: .99 |
| Lab File ID: XD06036A | Matrix : SOIL |
| Ext Btch ID: EXD002S | % Moisture : NA |
| Calib. Ref.: XD06025A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1880 | 1980 | 95.1 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12C321 | Date Extracted: 04/05/12 19:25 |
| Sample ID: MBLK1S | Date Analyzed: 04/06/12 16:31 |
| Lab Samp ID: EXD002SB | Dilution Factor: 1 |
| Lab File ID: XD06004A | Matrix : SOIL |
| Ext Btch ID: EXD002S | % Moisture : NA |
| Calib. Ref.: XD06003A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1890 | 2000 | 94.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C321
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD002SB | EXD002SL | EXD002SC | | |
| LAB FILE ID: | XD06004A | XD06005A | XD06006A | | |
| DATE EXTRACTED: | 04/05/1219:25 | 04/05/1219:25 | 04/05/1219:25 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/06/1216:31 | 04/06/1217:05 | 04/06/1217:39 | DATE RECEIVED: | 04/05/12 |
| PREP. BATCH: | EXD002S | EXD002S | EXD002S | | |
| CALIB. REF: | XD06003A | XD06003A | XD06003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 1800 | 90 | 2000 | 1870 | 93 | 4 | 70-130 | 50 |
| RDX | ND | 2000 | 1990 | 99 | 2000 | 1940 | 97 | 3 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2050 | 103 | 2000 | 2030 | 102 | 1 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2020 | 101 | 2000 | 2040 | 102 | 1 | 70-130 | 50 |
| Tetryl | ND | 2000 | 1900 | 95 | 2000 | 1960 | 98 | 3 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 2150 | 107 | 2000 | 2200 | 110 | 2 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 1710 | 86 | 2000 | 1770 | 88 | 3 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 1890 | 95 | 2000 | 1860 | 93 | 2 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 1870 | 94 | 2000 | 1910 | 95 | 2 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 1990 | 100 | 2000 | 2000 | 100 | 0 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2060 | 103 | 2000 | 2120 | 106 | 3 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 2150 | 107 | 2000 | 2030 | 102 | 5 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1820 | 91 | 2000 | 1770 | 89 | 3 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 1960 | 98 | 2000 | 1910 | 96 | 3 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1810 | 91 | 2000 | 1860 | 93 | 3 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2120 | 106 | 2000 | 2070 | 103 | 3 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1920 | 96 | 2000 | 1880 | 94 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/30/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/30/12 |
| Batch No. | : 12C321 | Date Extracted | : 04/05/12 19:25 |
| Sample ID | : SL-079-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/09/12 20:21 |
| Lab Samp ID | : C321-01 | Dilution Factor | : .99 |
| Lab File ID | : PD09025A | Matrix | : SOIL |
| Ext Btch ID | : EXD002S | % Moisture | : NA |
| Calib. Ref. | : PD09014A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2320 | 1980 | 117 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/05/12 |
| Batch No. | : 12C321 | Date Extracted | : 04/05/12 19:25 |
| Sample ID | : MBLK1S | Date Analyzed | : 04/09/12 18:06 |
| Lab Samp ID | : EXD002SB | Dilution Factor | : 1 |
| Lab File ID | : PD09015A | Matrix | : SOIL |
| Ext Btch ID | : EXD002S | % Moisture | : NA |
| Calib. Ref. | : PD09014A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2330 | 2000 | 117 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C321
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD002SB | EXD002SX | EXD002SY | | |
| LAB FILE ID: | PD09015A | PD09016A | PD09017A | | |
| DATE EXTRACTED: | 04/05/1219:25 | 04/05/1219:25 | 04/05/1219:25 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/09/1218:06 | 04/09/1218:17 | 04/09/1218:31 | DATE RECEIVED: | 04/05/12 |
| PREP. BATCH: | EXD002S | EXD002S | EXD002S | | |
| CALIB. REF: | PD09014A | PD09014A | PD09014A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7870 | 105 | 7500 | 7880 | 105 | 0 | 50-150 | 50 |
| PETN | ND | 7500 | 7410 | 99 | 7500 | 7530 | 100 | 2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2380 | 119 | 2000 | 2360 | 118 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/30/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/30/12 |
| SDG NO. | : 12C321 | Date Extracted | : 04/06/12 10:42 |
| Sample ID | : SL-079-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 17:09 |
| Lab Samp ID | : C321-01 | Dilution Factor | : 0.990 |
| Lab File ID | : 98D06060 | Matrix | : SOIL |
| Ext Btch ID | : IMD014S | % Moisture | : 13.9 |
| Calib. Ref. | : 98D06052 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9600 | 27.6 | 13.8 |
| Antimony | 0.169J | 0.230 | 0.115 |
| Arsenic | 3.08 | 0.460 | 0.230 |
| Barium | 67.6 | 0.460 | 0.230 |
| Beryllium | 0.371 | 0.115 | 0.0575 |
| Boron | ND | 5.75 | 2.87 |
| Cadmium | 0.146 | 0.115 | 0.0575 |
| Calcium | 2410 | 23.0 | 11.5 |
| Chromium | 16.6 | 0.460 | 0.230 |
| Cobalt | 5.35 | 0.115 | 0.0575 |
| Copper | 6.93 | 0.460 | 0.230 |
| Iron | 18800 | 23.0 | 11.5 |
| Lead | 7.08 | 0.230 | 0.115 |
| Magnesium | 5470 | 11.5 | 5.75 |
| Manganese | 259 | 0.575 | 0.287 |
| Molybdenum | 0.318 | 0.115 | 0.0575 |
| Nickel | 9.43 | 0.460 | 0.230 |
| Potassium | 2600 | 69.0 | 34.5 |
| Selenium | ND | 0.460 | 0.230 |
| Silver | ND | 0.115 | 0.0575 |
| Sodium | ND | 115 | 57.5 |
| Strontium | 7.89 | 0.575 | 0.287 |
| Thallium | 0.218 | 0.115 | 0.0575 |
| Tin | ND | 11.5 | 5.75 |
| Titanium | 979 | 1.15 | 0.575 |
| Vanadium | 35.4 | 0.115 | 0.0575 |
| Zinc | 48.1 | 3.45 | 1.72 |
| Lithium | 23.4 | 2.30 | 1.15 |
| Phosphorus | 316 | 13.8 | 6.90 |
| Zirconium | ND | 5.75 | 2.87 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/30/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/30/12 |
| SDG NO. | : 12C321 | Date Extracted | : 04/06/12 10:42 |
| Sample ID | : SL-121-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 17:14 |
| Lab Samp ID | : C321-02 | Dilution Factor | : 0.990 |
| Lab File ID | : 98D06061 | Matrix | : SOIL |
| Ext Btch ID | : IMD014S | % Moisture | : 7.7 |
| Calib. Ref. | : 98D06052 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10100 | 25.7 | 12.9 |
| Antimony | 0.183J | 0.215 | 0.107 |
| Arsenic | 3.09 | 0.429 | 0.215 |
| Barium | 63.4 | 0.429 | 0.215 |
| Beryllium | 0.412 | 0.107 | 0.0536 |
| Boron | ND | 5.36 | 2.68 |
| Cadmium | 0.131 | 0.107 | 0.0536 |
| Calcium | 2420 | 21.5 | 10.7 |
| Chromium | 16.4 | 0.429 | 0.215 |
| Cobalt | 5.26 | 0.107 | 0.0536 |
| Copper | 6.71 | 0.429 | 0.215 |
| Iron | 18800 | 21.5 | 10.7 |
| Lead | 5.31 | 0.215 | 0.107 |
| Magnesium | 5720 | 10.7 | 5.36 |
| Manganese | 249 | 0.536 | 0.268 |
| Molybdenum | 0.337 | 0.107 | 0.0536 |
| Nickel | 9.67 | 0.429 | 0.215 |
| Potassium | 2110 | 64.4 | 32.2 |
| Selenium | 0.367J | 0.429 | 0.215 |
| Silver | ND | 0.107 | 0.0536 |
| Sodium | ND | 107 | 53.6 |
| Strontium | 9.74 | 0.536 | 0.268 |
| Thallium | 0.201 | 0.107 | 0.0536 |
| Tin | ND | 10.7 | 5.36 |
| Titanium | 1010 | 1.07 | 0.536 |
| Vanadium | 35.4 | 0.107 | 0.0536 |
| Zinc | 46.2 | 3.22 | 1.61 |
| Lithium | 18.7 | 2.15 | 1.07 |
| Phosphorus | 314 | 12.9 | 6.44 |
| Zirconium | ND | 5.36 | 2.68 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 03/30/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 03/30/12 |
| SDG NO. | : 12C321 | Date Extracted | : 04/06/12 10:42 |
| Sample ID | : SL-134-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 17:18 |
| Lab Samp ID | : C321-03 | Dilution Factor | : 0.980 |
| Lab File ID | : 98D06062 | Matrix | : SOIL |
| Ext Btch ID | : IMD014S | % Moisture | : 8.8 |
| Calib. Ref. | : 98D06052 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9340 | 25.8 | 12.9 |
| Antimony | 0.173J | 0.215 | 0.107 |
| Arsenic | 2.85 | 0.430 | 0.215 |
| Barium | 77.7 | 0.430 | 0.215 |
| Beryllium | 0.352 | 0.107 | 0.0537 |
| Boron | ND | 5.37 | 2.69 |
| Cadmium | 0.175 | 0.107 | 0.0537 |
| Calcium | 3180 | 21.5 | 10.7 |
| Chromium | 16.3 | 0.430 | 0.215 |
| Cobalt | 5.18 | 0.107 | 0.0537 |
| Copper | 7.22 | 0.430 | 0.215 |
| Iron | 18600 | 21.5 | 10.7 |
| Lead | 9.81 | 0.215 | 0.107 |
| Magnesium | 5520 | 10.7 | 5.37 |
| Manganese | 272 | 0.537 | 0.269 |
| Molybdenum | 0.369 | 0.107 | 0.0537 |
| Nickel | 9.82 | 0.430 | 0.215 |
| Potassium | 3120 | 64.5 | 32.2 |
| Selenium | ND | 0.430 | 0.215 |
| Silver | ND | 0.107 | 0.0537 |
| Sodium | ND | 107 | 53.7 |
| Strontium | 9.27 | 0.537 | 0.269 |
| Thallium | 0.198 | 0.107 | 0.0537 |
| Tin | ND | 10.7 | 5.37 |
| Titanium | 1010 | 1.07 | 0.537 |
| Vanadium | 35.4 | 0.107 | 0.0537 |
| Zinc | 51.3 | 3.22 | 1.61 |
| Lithium | 23.5 | 2.15 | 1.07 |
| Phosphorus | 398 | 12.9 | 6.45 |
| Zirconium | ND | 5.37 | 2.69 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/06/12 |
| SDG NO. : 12C321 | Date Extracted: 04/06/12 10:42 |
| Sample ID: MBLK1S | Date Analyzed: 04/11/12 14:52 |
| Lab Samp ID: IMD014SB | Dilution Factor: 1 |
| Lab File ID: 98D06030 | Matrix : SOIL |
| Ext Btch ID: IMD014S | % Moisture : NA |
| Calib. Ref.: 98D06028 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C321
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IMD014SB | IMD014SL | IMD014SC | | |
| LAB FILE ID: | 98D06030 | 98D06031 | 98D06032 | | |
| DATIME EXTRCTD: | 04/06/1210:42 | 04/06/1210:42 | 04/06/1210:42 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/11/1214:52 | 04/11/1214:56 | 04/11/1215:01 | DATE RECEIVED: | 04/06/12 |
| PREP. BATCH: | IMD014S | IMD014S | IMD014S | | |
| CALIB. REF: | 98D06028 | 98D06028 | 98D06028 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2460 | 98 | 2500 | 2480 | 99 | 1 | 80-120 | 20 |
| Antimony | ND | 25.0 | 26.0 | 104 | 25.0 | 25.6 | 102 | 2 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 24.6 | 98 | 25.0 | 24.7 | 99 | 1 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.5 | 102 | 25.0 | 25.3 | 101 | 1 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 25.0 | 100 | 25.0 | 25.6 | 102 | 2 | 80-120 | 20 |
| Boron | ND | 25.0 | 25.6 | 103 | 25.0 | 26.1 | 104 | 2 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 24.9 | 99 | 25.0 | 25.0 | 100 | 1 | 80-120 | 20 |
| Calcium | ND | 2500 | 2590 | 104 | 2500 | 2660 | 107 | 3 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.7 | 99 | 25.0 | 24.8 | 99 | 0 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 24.9 | 100 | 25.0 | 24.9 | 100 | 0 | 80-120 | 20 |
| Copper | ND | 25.0 | 24.9 | 100 | 25.0 | 24.6 | 98 | 1 | 80-120 | 20 |
| Iron | ND | 2500 | 2590 | 103 | 2500 | 2650 | 106 | 2 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.8 | 103 | 25.0 | 25.9 | 104 | 1 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2440 | 98 | 2500 | 2450 | 98 | 0 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.0 | 100 | 25.0 | 25.6 | 103 | 3 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 25.1 | 100 | 25.0 | 24.9 | 99 | 1 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.5 | 98 | 25.0 | 24.6 | 98 | 1 | 80-120 | 20 |
| Potassium | ND | 2500 | 2600 | 104 | 2500 | 2550 | 102 | 2 | 80-120 | 20 |
| Selenium | ND | 25.0 | 24.7 | 99 | 25.0 | 25.0 | 100 | 1 | 80-120 | 20 |
| Silver | ND | 25.0 | 25.0 | 100 | 25.0 | 24.7 | 99 | 2 | 80-120 | 20 |
| Sodium | ND | 2500 | 2450 | 98 | 2500 | 2480 | 99 | 1 | 80-120 | 20 |
| Strontium | ND | 25.0 | 25.8 | 103 | 25.0 | 26.1 | 104 | 1 | 80-120 | 20 |
| Thallium | ND | 25.0 | 25.5 | 102 | 25.0 | 27.0 | 108 | 6 | 80-120 | 20 |
| Tin | ND | 25.0 | 27.8 | 111 | 25.0 | 27.4 | 109 | 2 | 80-120 | 20 |
| Titanium | ND | 25.0 | 25.1 | 100 | 25.0 | 25.6 | 103 | 2 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 25.0 | 100 | 25.0 | 25.2 | 101 | 1 | 80-120 | 20 |
| Zinc | ND | 25.0 | 24.2 | 97 | 25.0 | 24.0 | 96 | 1 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.5 | 102 | 25.0 | 25.6 | 102 | 0 | 80-120 | 20 |
| Phosphorus | ND | 250 | 240 | 96 | 250 | 241 | 96 | 0 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 25.0 | 100 | 25.0 | 25.5 | 102 | 2 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C321
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 4.5
DILTN FACTR: 0.990 0.990
SAMPLE ID: SL-040-NBZ-SB-2.5-3.5
CONTROL NO.: C285-14 C285-14A
LAB FILE ID: 98D06036 98D06035
DATIME EXTRCTD: 04/06/1210:42 04/06/1210:42 DATE COLLECTED: 03/28/12
DATIME ANALYZD: 04/11/1215:19 04/11/1215:14 DATE RECEIVED: 03/28/12
PREP. BATCH: IMD014S IMD014S
CALIB. REF: 98D06028 98D06028

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 9610 | 2590 | 11800 | 86 | 75-125 |
| Antimony | 0.193J | 25.9 | 26.1 | 100 | 75-125 |
| Arsenic | 4.03 | 25.9 | 27.6 | 91 | 75-125 |
| Barium | 60.3 | 25.9 | 86.2 | 100 | 75-125 |
| Beryllium | 0.454 | 25.9 | 25.6 | 97 | 75-125 |
| Boron | 2.71J | 25.9 | 28.4 | 99 | 75-125 |
| Cadmium | 0.178 | 25.9 | 24.9 | 95 | 75-125 |
| Calcium | 2560 | 2590 | 5060 | 96 | 75-125 |
| Chromium | 13.2 | 25.9 | 36.0 | 88 | 75-125 |
| Cobalt | 4.74 | 25.9 | 27.7 | 89 | 75-125 |
| Copper | 5.47 | 25.9 | 27.9 | 86 | 75-125 |
| Iron | 18000 | 2590 | 20000 | 77 | 75-125 |
| Lead | 8.02 | 25.9 | 33.0 | 96 | 75-125 |
| Magnesium | 3870 | 2590 | 6110 | 86 | 75-125 |
| Manganese | 252 | 25.9 | 270 | 70* | 75-125 |
| Molybdenum | 0.464 | 25.9 | 25.7 | 97 | 75-125 |
| Nickel | 7.63 | 25.9 | 30.1 | 87 | 75-125 |
| Potassium | 2830 | 2590 | 5290 | 95 | 75-125 |
| Selenium | ND | 25.9 | 24.0 | 93 | 75-125 |
| Silver | ND | 25.9 | 24.6 | 95 | 75-125 |
| Sodium | 68.4J | 2590 | 2340 | 88 | 75-125 |
| Strontium | 12.1 | 25.9 | 38.0 | 100 | 75-125 |
| Thallium | 0.247 | 25.9 | 26.0 | 99 | 75-125 |
| Tin | ND | 25.9 | 28.4 | 109 | 75-125 |
| Titanium | 882 | 25.9 | 899 | 66* | 75-125 |
| Vanadium | 27.6 | 25.9 | 51.2 | 91 | 75-125 |
| Zinc | 59.4 | 51.8 | 105 | 89 | 75-125 |
| Lithium | 22.6 | 25.9 | 47.5 | 96 | 75-125 |
| Phosphorus | 289 | 259 | 555 | 103 | 75-125 |
| Zirconium | ND | 25.9 | 24.5 | 95 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C321
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 4.5
DILUTION FACTOR: 0.990 4.95
SAMPLE ID: SL-040-NBZ-SB- SL-040-NBZ-SB-
EMAX SAMP ID: C285-14 C285-14J
LAB FILE ID: 98D06036 98D06037
DATE EXTRACTED: 04/06/1210:42 04/06/1210:42 DATE COLLECTED: 03/28/12
DATE ANALYZED: 04/11/1215:19 04/11/1215:23 DATE RECEIVED: 03/28/12
PREP. BATCH: IMD014S IMD014S
CALIB. REF: 98D06028 98D06028

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 9610 | 10100 | 5 | 10 |
| Antimony | 0.193J | ND | NA | 10 |
| Arsenic | 4.03 | 4.28 | 6 | 10 |
| Barium | 60.3 | 60.0 | 0 | 10 |
| Beryllium | 0.454 | 0.480J | NA | 10 |
| Boron | 2.71J | ND | NA | 10 |
| Cadmium | 0.178 | ND | NA | 10 |
| Calcium | 2560 | 2800 | 9 | 10 |
| Chromium | 13.2 | 13.9 | 6 | 10 |
| Cobalt | 4.74 | 5.09 | 7 | 10 |
| Copper | 5.47 | 5.97 | 9 | 10 |
| Iron | 18000 | 19300 | 7 | 10 |
| Lead | 8.02 | 8.11 | 1 | 10 |
| Magnesium | 3870 | 4120 | 6 | 10 |
| Manganese | 252 | 269 | 7 | 10 |
| Molybdenum | 0.464 | 0.498J | NA | 10 |
| Nickel | 7.63 | 8.22 | 8 | 10 |
| Potassium | 2830 | 2880 | 2 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | 68.4J | ND | NA | 10 |
| Strontium | 12.1 | 12.0 | 1 | 10 |
| Thallium | 0.247 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 882 | 886 | 1 | 10 |
| Vanadium | 27.6 | 29.0 | 5 | 10 |
| Zinc | 59.4 | 61.8 | 4 | 10 |
| Lithium | 22.6 | 21.1 | 7 | 10 |
| Phosphorus | 289 | 312 | 8 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C321

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD007SB | ND | 1 | NA | 0.100 | 0.0500 | 04/05/1217:35 | 04/05/1213:11 | M47D004010 | M47D004008 | HGD007S | NA | 04/05/12 |
| LCS1S | HGD007SL | 0.892 | 1 | NA | 0.100 | 0.0500 | 04/05/1217:37 | 04/05/1213:11 | M47D004011 | M47D004008 | HGD007S | NA | 04/05/12 |
| LCD1S | HGD007SC | 0.897 | 1 | NA | 0.100 | 0.0500 | 04/05/1217:39 | 04/05/1213:11 | M47D004012 | M47D004008 | HGD007S | NA | 04/05/12 |
| SL-079-NBZ-SS-0.0-0.5 | C321-01 | ND | 0.988 | 13.9 | 0.115 | 0.0574 | 04/05/1217:54 | 04/05/1213:11 | M47D004019 | M47D004008 | HGD007S | 03/30/12 | 03/30/12 |
| SL-121-NBZ-SS-0.0-0.5 | C321-02 | ND | 1.00 | 7.7 | 0.108 | 0.0542 | 04/05/1218:01 | 04/05/1213:11 | M47D004022 | M47D004020 | HGD007S | 03/30/12 | 03/30/12 |
| SL-134-NBZ-SS-0.0-0.5 | C321-03 | ND | 0.990 | 8.8 | 0.109 | 0.0543 | 04/05/1218:03 | 04/05/1213:11 | M47D004023 | M47D004020 | HGD007S | 03/30/12 | 03/30/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C321
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGD007SB | HGD007SL | HGD007SC | | |
| LAB FILE ID: | M47D004010 | M47D004011 | M47D004012 | | |
| DATIME EXTRCTD: | 04/05/1213:11 | 04/05/1213:11 | 04/05/1213:11 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/05/1217:35 | 04/05/1217:37 | 04/05/1217:39 | DATE RECEIVED: | 04/05/12 |
| PREP. BATCH: | HGD007S | HGD007S | HGD007S | | |
| CALIB. REF: | M47D004008 | M47D004008 | M47D004008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .892 | 107 | .833 | .897 | 108 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12C321
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 71.3 |
| DILTN FACTR: | 0.992 | 0.992 | | |
| SAMPLE ID: | 129178-28-06 | | | |
| CONTROL NO.: | C301-06 | C301-06A | | |
| LAB FILE ID: | M47D004014 | M47D004013 | | |
| DATIME EXTRCTD: | 04/05/1213:11 | 04/05/1213:11 | DATE COLLECTED: | 03/28/12 |
| DATIME ANALYZD: | 04/05/1217:43 | 04/05/1217:41 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | HGD007S | HGD007S | | |
| CALIB. REF: | M47D004008 | M47D004008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | 2.88 | 3.14 | 109 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C321
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 71.3 |
| DILUTION FACTOR: | 0.992 | 4.96 | | |
| SAMPLE ID: | 129178-28-06 | 129178-28-06DL | | |
| EMAX SAMP ID: | C301-06 | C301-06J | | |
| LAB FILE ID: | M47D004014 | M47D004015 | | |
| DATE EXTRACTED: | 04/05/1213:11 | 04/05/1213:11 | DATE COLLECTED: | 03/28/12 |
| DATE ANALYZED: | 04/05/1217:43 | 04/05/1217:46 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | HGD007S | HGD007S | | |
| CALIB. REF: | M47D004008 | M47D004008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C321
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD004SB | ND | 1 | NA | 1.00 | 0.500 | 04/05/1223:51 | 04/04/1216:37 | AD07-52 | AD07-50 | ICD004S | NA | 04/04/12 |
| LCS1S | ICD004SL | 5.87 | 1 | NA | 1.00 | 0.500 | 04/06/1200:07 | 04/04/1216:37 | AD07-53 | AD07-50 | ICD004S | NA | 04/04/12 |
| LCD1S | ICD004SC | 5.89 | 1 | NA | 1.00 | 0.500 | 04/06/1200:23 | 04/04/1216:37 | AD07-54 | AD07-50 | ICD004S | NA | 04/04/12 |
| SL-079-NBZ-SS-0.0-0.5 | C321-01 | ND | 1 | 13.9 | 1.16 | 0.581 | 04/06/1200:39 | 04/04/1216:37 | AD07-55 | AD07-50 | ICD004S | 03/30/1209:50 | 03/30/12 |
| SL-121-NBZ-SS-0.0-0.5 | C321-02 | ND | 1 | 7.7 | 1.08 | 0.542 | 04/06/1200:56 | 04/04/1216:37 | AD07-56 | AD07-50 | ICD004S | 03/30/1211:10 | 03/30/12 |
| SL-134-NBZ-SS-0.0-0.5 | C321-03 | ND | 1 | 8.8 | 1.10 | 0.548 | 04/06/1201:12 | 04/04/1216:37 | AD07-57 | AD07-50 | ICD004S | 03/30/1210:30 | 03/30/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C321
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD004SB | ICD004SL | ICD004SC | | |
| LAB FILE ID: | AD07-52 | AD07-53 | AD07-54 | | |
| DATE EXTRACTED: | 04/04/1216:37 | 04/04/1216:37 | 04/04/1216:37 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/05/1223:51 | 04/06/1200:07 | 04/06/1200:23 | DATE RECEIVED: | 04/04/12 |
| PREP. BATCH: | ICD004S | ICD004S | ICD004S | | |
| CALIB. REF: | AD07-50 | AD07-50 | AD07-50 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 5.87 | 98 | 6.00 | 5.89 | 98 | 0 | 90-110 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C321

Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD004SB | ND | 1 | NA | 1.50 | 0.750 | 04/05/1223:51 | 04/04/1216:37 | AD07-52 | AD07-50 | ICD004S | NA | 04/04/12 |
| LCS1S | ICD004SL | 25.6 | 1 | NA | 1.50 | 0.750 | 04/06/1200:07 | 04/04/1216:37 | AD07-53 | AD07-50 | ICD004S | NA | 04/04/12 |
| LCD1S | ICD004SC | 25.6 | 1 | NA | 1.50 | 0.750 | 04/06/1200:23 | 04/04/1216:37 | AD07-54 | AD07-50 | ICD004S | NA | 04/04/12 |
| SL-079-NBZ-SS-0.0-0.5 | C321-01 | 7.33 | 1 | 13.9 | 1.74 | 0.871 | 04/06/1200:39 | 04/04/1216:37 | AD07-55 | AD07-50 | ICD004S | 03/30/1209:50 | 03/30/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C321
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD004SB | ICD004SL | ICD004SC | | |
| LAB FILE ID: | AD07-52 | AD07-53 | AD07-54 | | |
| DATE EXTRACTED: | 04/04/1216:37 | 04/04/1216:37 | 04/04/1216:37 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/05/1223:51 | 04/06/1200:07 | 04/06/1200:23 | DATE RECEIVED: | 04/04/12 |
| PREP. BATCH: | ICD004S | ICD004S | ICD004S | | |
| CALIB. REF: | AD07-50 | AD07-50 | AD07-50 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 25.6 | 96 | 26.6 | 25.6 | 96 | 0 | 90-110 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C321

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD009SB | ND | 1 | NA | 20.0 | 10.0 | 04/10/1204:24 | 04/06/1210:30 | JD09045 | JD09044 | PCD009S | NA | 04/06/12 |
| LCS1S | PCD009SL | 280 | 1 | NA | 20.0 | 10.0 | 04/10/1205:06 | 04/06/1210:30 | JD09047 | JD09044 | PCD009S | NA | 04/06/12 |
| LCD1S | PCD009SC | 283 | 1 | NA | 20.0 | 10.0 | 04/10/1205:27 | 04/06/1210:30 | JD09048 | JD09044 | PCD009S | NA | 04/06/12 |
| SL-079-NBZ-SS-0.0-0.5 | C321-01 | ND | 1 | 13.9 | 23.2 | 11.6 | 04/10/1205:48 | 04/06/1210:30 | JD09049 | JD09044 | PCD009S | 03/30/1209:50 | 03/30/12 |
| SL-121-NBZ-SS-0.0-0.5 | C321-02 | ND | 1 | 7.7 | 21.7 | 10.8 | 04/10/1206:09 | 04/06/1210:30 | JD09050 | JD09044 | PCD009S | 03/30/1211:10 | 03/30/12 |
| SL-134-NBZ-SS-0.0-0.5 | C321-03 | ND | 1 | 8.8 | 21.9 | 11.0 | 04/10/1206:30 | 04/06/1210:30 | JD09051 | JD09044 | PCD009S | 03/30/1210:30 | 03/30/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C321
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD009SB | PCD009SL | PCD009SC | | |
| LAB FILE ID: | JD09045 | JD09047 | JD09048 | | |
| DATE EXTRACTED: | 04/06/1210:30 | 04/06/1210:30 | 04/06/1210:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/10/1204:24 | 04/10/1205:06 | 04/10/1205:27 | DATE RECEIVED: | 04/06/12 |
| PREP. BATCH: | PCD009S | PCD009S | PCD009S | | |
| CALIB. REF: | JD09044 | JD09044 | JD09044 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 280 | 112 | 250 | 283 | 113 | 1 | 85-115 | 15 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C321
Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CND003SB | ND | 1 | NA | 0.500 | 0.250 | 04/06/1217:46 | 04/06/1211:00 | CND00310 | CND00308 | CND003S | NA | 04/06/12 |
| LCS1S | CND003SL | 2.34 | 1 | NA | 0.500 | 0.250 | 04/06/1217:46 | 04/06/1211:00 | CND00311 | CND00308 | CND003S | NA | 04/06/12 |
| LCD1S | CND003SC | 2.30 | 1 | NA | 0.500 | 0.250 | 04/06/1217:46 | 04/06/1211:00 | CND00312 | CND00308 | CND003S | NA | 04/06/12 |
| SL-079-NBZ-SS-0.0-0.5 | C321-01 | ND | 1 | 13.9 | 0.581 | 0.290 | 04/06/1217:48 | 04/06/1211:00 | CND00316 | CND00308 | CND003S | 03/30/1209:50 | 03/30/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12C321
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CND003SL/C

DATE RECEIVED: 04/06/12
DATE EXTRACTED: 04/06/1211:00
DATE ANALYZED: 04/06/1217:46/17:46

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.34 | 94 | 2.50 | 2.30 | 92 | 2 | 85-125 | 20 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C321
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD004SB | ND | 1 | NA | 1.00 | 0.500 | 04/05/1222:20 | 04/04/1214:52 | ID06010 | ID06008 | HCD004S | NA | 04/04/12 |
| MBLK1S | HCD004SQ | ND | 1 | NA | 1.00 | 0.500 | 04/05/1222:30 | 04/04/1214:52 | ID06011 | ID06008 | HCD004S | NA | 04/04/12 |
| LCS1S | CSD004SL | 10.2 | 1 | NA | 1.00 | 0.500 | 04/05/1222:41 | 04/04/1214:52 | ID06012 | ID06008 | HCD004S | NA | 04/04/12 |
| LCS1S | CSD004SX | 11.1 | 1 | NA | 1.00 | 0.500 | 04/05/1222:51 | 04/04/1214:52 | ID06013 | ID06008 | HCD004S | NA | 04/04/12 |
| LCS2S | CID004SL | 302 | 20 | NA | 20.0 | 10.0 | 04/05/1223:02 | 04/04/1214:52 | ID06014 | ID06008 | HCD004S | NA | 04/04/12 |
| LCS2S | CID004SX | 293 | 20 | NA | 20.0 | 10.0 | 04/05/1223:12 | 04/04/1214:52 | ID06015 | ID06008 | HCD004S | NA | 04/04/12 |
| SL-079-NBZ-SS-0.0-0.5 | C321-01 | ND | 1 | 13.9 | 1.16 | 0.581 | 04/06/1207:21 | 04/04/1214:52 | ID06062 | ID06056 | HCD004S | 03/30/1209:50 | 03/30/12 |
| SL-079-NBZ-SS-0.0-0.5 | C321-01R | ND | 1 | 13.9 | 1.16 | 0.581 | 04/06/1207:31 | 04/04/1214:52 | ID06063 | ID06056 | HCD004S | 03/30/1209:50 | 03/30/12 |
| SL-121-NBZ-SS-0.0-0.5 | C321-02 | ND | 1 | 7.7 | 1.08 | 0.542 | 04/06/1207:42 | 04/04/1214:52 | ID06064 | ID06056 | HCD004S | 03/30/1211:10 | 03/30/12 |
| SL-121-NBZ-SS-0.0-0.5 | C321-02R | ND | 1 | 7.7 | 1.08 | 0.542 | 04/06/1207:52 | 04/04/1214:52 | ID06065 | ID06056 | HCD004S | 03/30/1211:10 | 03/30/12 |
| SL-134-NBZ-SS-0.0-0.5 | C321-03 | ND | 1 | 8.8 | 1.10 | 0.548 | 04/06/1213:44 | 04/04/1214:52 | ID06086 | ID06082 | HCD004S | 03/30/1210:30 | 03/30/12 |
| SL-134-NBZ-SS-0.0-0.5 | C321-03R | ND | 1 | 8.8 | 1.10 | 0.548 | 04/06/1213:54 | 04/04/1214:52 | ID06087 | ID06082 | HCD004S | 03/30/1210:30 | 03/30/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C321
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD004SQ CID004SX
LAB FILE ID: ID06011 ID06015
DATE EXTRACTED: 04/04/1214:52 04/04/1214:52 DATE COLLECTED: NA
DATE ANALYZED: 04/05/1222:30 04/05/1223:12 DATE RECEIVED: 04/04/12
PREP. BATCH: HCD004S HCD004S
CALIB. REF: ID06008 ID06008

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 350 | 293 | 84 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12C321
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD004SQ | CSD004SX | | |
| LAB FILE ID: | ID06011 | ID06013 | | |
| DATE EXTRACTED: | 04/04/1214:52 | 04/04/1214:52 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/05/1222:30 | 04/05/1222:51 | DATE RECEIVED: | 04/04/12 |
| PREP. BATCH: | HCD004S | HCD004S | | |
| CALIB. REF: | ID06008 | ID06008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 11.1 | 111 | 80-120 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12C321
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-079-NBZ-SS-0.0-0.5 | C321-01 | 7.15 | 1 | NA | NA | NA | 03/30/1219:36 | 03/30/1219:15 | 12PHC030S14 | PHC030S | PHC030S | 03/30/1209:50 | 03/30/12 |
| SL-121-NBZ-SS-0.0-0.5 | C321-02 | 6.79 | 1 | NA | NA | NA | 03/30/1219:37 | 03/30/1219:15 | 12PHC030S15 | PHC030S | PHC030S | 03/30/1211:10 | 03/30/12 |
| SL-134-NBZ-SS-0.0-0.5 | C321-03 | 6.70 | 1 | NA | NA | NA | 03/30/1219:38 | 03/30/1219:15 | 12PHC030S16 | PHC030S | PHC030S | 03/30/1210:30 | 03/30/12 |

# SAMPLE DELIVERY GROUP

# 12D004

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-025-NBZ-SS-0.0-0.5 | Date Analyzed: 04/16/12 23:48 |
| Lab Samp ID: D004-01 | Dilution Factor: 1 |
| Lab File ID: RDJ206 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 8.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 460 |
| BENZOIC ACID | ND | 730 | 360 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 934 | 1089 | 85.7 | 35-130 |
| 2-FLUOROBIPHENYL | 252 | 363.1 | 69.5 | 45-130 |
| 2-FLUOROPHENOL | 590 | 1089 | 54.2 | 25-130 |
| NITROBENZENE-D5 | 206 | 363.1 | 56.8 | 40-130 |
| PHENOL-D5 | 693 | 1089 | 63.6 | 25-120 |
| TERPHENYL-D14 | 321 | 363.1 | 88.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-026-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 00:09 |
| Lab Samp ID: D004-02 | Dilution Factor: 1 |
| Lab File ID: RDJ207 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 7.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 90 |
| 1,2-DICHLOROBENZENE | ND | 180 | 90 |
| 1,3-DICHLOROBENZENE | ND | 180 | 90 |
| 1,4-DICHLOROBENZENE | ND | 180 | 90 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 90 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 90 |
| 2,4-DICHLOROPHENOL | ND | 180 | 90 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 90 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 90 |
| 2,6-DINITROTOLUENE | ND | 180 | 90 |
| 2-CHLORONAPHTHALENE | ND | 180 | 90 |
| 2-CHLOROPHENOL | ND | 180 | 90 |
| 2-METHYLNAPHTHALENE | ND | 180 | 90 |
| 2-METHYLPHENOL | ND | 180 | 90 |
| 2-NITROANILINE | ND | 180 | 90 |
| 2-NITROPHENOL | ND | 180 | 90 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 90 |
| 3-NITROANILINE | ND | 180 | 90 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 90 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 90 |
| 4-CHLOROANILINE | ND | 180 | 90 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 90 |
| 4-METHYLPHENOL (1) | ND | 180 | 90 |
| 4-NITROANILINE | ND | 180 | 90 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 90 |
| ACENAPHTHYLENE | ND | 180 | 90 |
| ANTHRACENE | ND | 180 | 90 |
| BENZO(A)ANTHRACENE | ND | 180 | 90 |
| BENZO(A)PYRENE | ND | 180 | 90 |
| BENZO(B)FLUORANTHENE | ND | 180 | 90 |
| BENZO(K)FLUORANTHENE | ND | 180 | 90 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 90 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 90 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 90 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 90 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 90 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 90 |
| CHRYSENE | ND | 180 | 90 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 90 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 90 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 90 |
| DIBENZOFURAN | ND | 180 | 90 |
| DIETHYLPHTHALATE | ND | 180 | 90 |
| DIMETHYLPHTHALATE | ND | 180 | 90 |
| FLUORANTHENE | ND | 180 | 90 |
| FLUORENE | ND | 180 | 90 |
| HEXACHLOROBENZENE | ND | 180 | 90 |
| HEXACHLOROBUTADIENE | ND | 180 | 90 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 90 |
| HEXACHLOROETHANE | ND | 180 | 90 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 90 |
| ISOPHORONE | ND | 180 | 90 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 90 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 90 |
| NAPHTHALENE | ND | 180 | 90 |
| NITROBENZENE | ND | 180 | 90 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 90 |
| PHENOL | ND | 180 | 90 |
| PYRENE | ND | 180 | 90 |
| BENZYL ALCOHOL | ND | 180 | 90 |
| 1-METHYLNAPHTHALENE | ND | 180 | 90 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 90 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 90 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 890 | 450 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 90 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 90 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 879 | 1075 | 81.8 | 35-130 |
| 2-FLUOROBIPHENYL | 283 | 358.4 | 79.0 | 45-130 |
| 2-FLUOROPHENOL | 832 | 1075 | 77.4 | 25-130 |
| NITROBENZENE-D5 | 280 | 358.4 | 78.3 | 40-130 |
| PHENOL-D5 | 833 | 1075 | 77.5 | 25-120 |
| TERPHENYL-D14 | 322 | 358.4 | 90.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-027-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 00:29 |
| Lab Samp ID: D004-03 | Dilution Factor: 1 |
| Lab File ID: RDJ208 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 14.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 98 |
| 1,2-DICHLOROBENZENE | ND | 190 | 98 |
| 1,3-DICHLOROBENZENE | ND | 190 | 98 |
| 1,4-DICHLOROBENZENE | ND | 190 | 98 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 98 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 98 |
| 2,4-DICHLOROPHENOL | ND | 190 | 98 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 98 |
| 2,4-DINITROPHENOL | ND | 390 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 98 |
| 2,6-DINITROTOLUENE | ND | 190 | 98 |
| 2-CHLORONAPHTHALENE | ND | 190 | 98 |
| 2-CHLOROPHENOL | ND | 190 | 98 |
| 2-METHYLNAPHTHALENE | ND | 190 | 98 |
| 2-METHYLPHENOL | ND | 190 | 98 |
| 2-NITROANILINE | ND | 190 | 98 |
| 2-NITROPHENOL | ND | 190 | 98 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 98 |
| 3-NITROANILINE | ND | 190 | 98 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 98 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 98 |
| 4-CHLOROANILINE | ND | 190 | 98 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 98 |
| 4-METHYLPHENOL (1) | ND | 190 | 98 |
| 4-NITROANILINE | ND | 190 | 98 |
| 4-NITROPHENOL | ND | 390 | 190 |
| ACENAPHTHENE | ND | 190 | 98 |
| ACENAPHTHYLENE | ND | 190 | 98 |
| ANTHRACENE | ND | 190 | 98 |
| BENZO(A)ANTHRACENE | ND | 190 | 98 |
| BENZO(A)PYRENE | ND | 190 | 98 |
| BENZO(B)FLUORANTHENE | ND | 190 | 98 |
| BENZO(K)FLUORANTHENE | ND | 190 | 98 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 98 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 98 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 98 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 98 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 98 |
| CHRYSENE | ND | 190 | 98 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 98 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 98 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 98 |
| DIBENZOFURAN | ND | 190 | 98 |
| DIETHYLPHTHALATE | ND | 190 | 98 |
| DIMETHYLPHTHALATE | ND | 190 | 98 |
| FLUORANTHENE | ND | 190 | 98 |
| FLUORENE | ND | 190 | 98 |
| HEXACHLOROBENZENE | ND | 190 | 98 |
| HEXACHLOROBUTADIENE | ND | 190 | 98 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 98 |
| HEXACHLOROETHANE | ND | 190 | 98 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 98 |
| ISOPHORONE | ND | 190 | 98 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 98 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 98 |
| NAPHTHALENE | ND | 190 | 98 |
| NITROBENZENE | ND | 190 | 98 |
| PENTACHLOROPHENOL | ND | 390 | 190 |
| PHENANTHRENE | ND | 190 | 98 |
| PHENOL | ND | 190 | 98 |
| PYRENE | ND | 190 | 98 |
| BENZYL ALCOHOL | ND | 190 | 98 |
| 1-METHYLNAPHTHALENE | ND | 190 | 98 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 98 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 98 |
| ANILINE | ND | 390 | 190 |
| BENZIDINE | ND | 970 | 490 |
| BENZOIC ACID | ND | 780 | 390 |
| CARBAZOLE | ND | 190 | 98 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 98 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 711 | 1163 | 61.1 | 35-130 |
| 2-FLUOROBIPHENYL | 234 | 387.6 | 60.5 | 45-130 |
| 2-FLUOROPHENOL | 621 | 1163 | 53.4 | 25-130 |
| NITROBENZENE-D5 | 220 | 387.6 | 56.7 | 40-130 |
| PHENOL-D5 | 655 | 1163 | 56.3 | 25-120 |
| TERPHENYL-D14 | 242 | 387.6 | 62.4 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-028-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 00:50 |
| Lab Samp ID: D004-04 | Dilution Factor: 1 |
| Lab File ID: RDJ209 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 9.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 93 |
| 1,2-DICHLOROBENZENE | ND | 180 | 93 |
| 1,3-DICHLOROBENZENE | ND | 180 | 93 |
| 1,4-DICHLOROBENZENE | ND | 180 | 93 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 93 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 93 |
| 2,6-DINITROTOLUENE | ND | 180 | 93 |
| 2-CHLORONAPHTHALENE | ND | 180 | 93 |
| 2-CHLOROPHENOL | ND | 180 | 93 |
| 2-METHYLNAPHTHALENE | ND | 180 | 93 |
| 2-METHYLPHENOL | ND | 180 | 93 |
| 2-NITROANILINE | ND | 180 | 93 |
| 2-NITROPHENOL | ND | 180 | 93 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 93 |
| 3-NITROANILINE | ND | 180 | 93 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 93 |
| 4-CHLOROANILINE | ND | 180 | 93 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-METHYLPHENOL (1) | ND | 180 | 93 |
| 4-NITROANILINE | ND | 180 | 93 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 93 |
| ACENAPHTHYLENE | ND | 180 | 93 |
| ANTHRACENE | ND | 180 | 93 |
| BENZO(A)ANTHRACENE | ND | 180 | 93 |
| BENZO(A)PYRENE | ND | 180 | 93 |
| BENZO(B)FLUORANTHENE | ND | 180 | 93 |
| BENZO(K)FLUORANTHENE | ND | 180 | 93 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 93 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 93 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 93 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 93 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 93 |
| CHRYSENE | ND | 180 | 93 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 93 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 93 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 93 |
| DIBENZOFURAN | ND | 180 | 93 |
| DIETHYLPHTHALATE | ND | 180 | 93 |
| DIMETHYLPHTHALATE | ND | 180 | 93 |
| FLUORANTHENE | ND | 180 | 93 |
| FLUORENE | ND | 180 | 93 |
| HEXACHLOROBENZENE | ND | 180 | 93 |
| HEXACHLOROBUTADIENE | ND | 180 | 93 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 93 |
| HEXACHLOROETHANE | ND | 180 | 93 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 93 |
| ISOPHORONE | ND | 180 | 93 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 93 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 93 |
| NAPHTHALENE | ND | 180 | 93 |
| NITROBENZENE | ND | 180 | 93 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 93 |
| PHENOL | ND | 180 | 93 |
| PYRENE | ND | 180 | 93 |
| BENZYL ALCOHOL | ND | 180 | 93 |
| 1-METHYLNAPHTHALENE | ND | 180 | 93 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 93 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 93 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 370 |
| CARBAZOLE | ND | 180 | 93 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 93 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 811 | 1101 | 73.6 | 35-130 |
| 2-FLUOROBIPHENYL | 250 | 367.1 | 68.0 | 45-130 |
| 2-FLUOROPHENOL | 679 | 1101 | 61.7 | 25-130 |
| NITROBENZENE-D5 | 243 | 367.1 | 66.2 | 40-130 |
| PHENOL-D5 | 701 | 1101 | 63.6 | 25-120 |
| TERPHENYL-D14 | 298 | 367.1 | 81.3 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-107-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 01:10 |
| Lab Samp ID: D004-05 | Dilution Factor: 1 |
| Lab File ID: RDJ210 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 12.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 95 |
| 1,2-DICHLOROBENZENE | ND | 190 | 95 |
| 1,3-DICHLOROBENZENE | ND | 190 | 95 |
| 1,4-DICHLOROBENZENE | ND | 190 | 95 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 95 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 95 |
| 2,6-DINITROTOLUENE | ND | 190 | 95 |
| 2-CHLORONAPHTHALENE | ND | 190 | 95 |
| 2-CHLOROPHENOL | ND | 190 | 95 |
| 2-METHYLNAPHTHALENE | ND | 190 | 95 |
| 2-METHYLPHENOL | ND | 190 | 95 |
| 2-NITROANILINE | ND | 190 | 95 |
| 2-NITROPHENOL | ND | 190 | 95 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 95 |
| 3-NITROANILINE | ND | 190 | 95 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 95 |
| 4-CHLOROANILINE | ND | 190 | 95 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-METHYLPHENOL (1) | ND | 190 | 95 |
| 4-NITROANILINE | ND | 190 | 95 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 95 |
| ACENAPHTHYLENE | ND | 190 | 95 |
| ANTHRACENE | ND | 190 | 95 |
| BENZO(A)ANTHRACENE | ND | 190 | 95 |
| BENZO(A)PYRENE | ND | 190 | 95 |
| BENZO(B)FLUORANTHENE | ND | 190 | 95 |
| BENZO(K)FLUORANTHENE | ND | 190 | 95 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 95 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 95 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 95 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 95 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 95 |
| CHRYSENE | ND | 190 | 95 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 95 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 95 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 95 |
| DIBENZOFURAN | ND | 190 | 95 |
| DIETHYLPHTHALATE | ND | 190 | 95 |
| DIMETHYLPHTHALATE | ND | 190 | 95 |
| FLUORANTHENE | ND | 190 | 95 |
| FLUORENE | ND | 190 | 95 |
| HEXACHLOROBENZENE | ND | 190 | 95 |
| HEXACHLOROBUTADIENE | ND | 190 | 95 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 95 |
| HEXACHLOROETHANE | ND | 190 | 95 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 95 |
| ISOPHORONE | ND | 190 | 95 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 95 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 95 |
| NAPHTHALENE | ND | 190 | 95 |
| NITROBENZENE | ND | 190 | 95 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 95 |
| PHENOL | ND | 190 | 95 |
| PYRENE | ND | 190 | 95 |
| BENZYL ALCOHOL | ND | 190 | 95 |
| 1-METHYLNAPHTHALENE | ND | 190 | 95 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 95 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 95 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 940 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 95 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 95 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 882 | 1136 | 77.6 | 35-130 |
| 2-FLUOROBIPHENYL | 271 | 378.8 | 71.5 | 45-130 |
| 2-FLUOROPHENOL | 729 | 1136 | 64.1 | 25-130 |
| NITROBENZENE-D5 | 272 | 378.8 | 71.8 | 40-130 |
| PHENOL-D5 | 773 | 1136 | 68.0 | 25-120 |
| TERPHENYL-D14 | 303 | 378.8 | 80.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-111-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 01:31 |
| Lab Samp ID: D004-06 | Dilution Factor: 1 |
| Lab File ID: RDJ211 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 20.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 210 | 110 |
| 1,2-DICHLOROBENZENE | ND | 210 | 110 |
| 1,3-DICHLOROBENZENE | ND | 210 | 110 |
| 1,4-DICHLOROBENZENE | ND | 210 | 110 |
| 2,4,5-TRICHLOROPHENOL | ND | 210 | 110 |
| 2,4,6-TRICHLOROPHENOL | ND | 210 | 110 |
| 2,4-DICHLOROPHENOL | ND | 210 | 110 |
| 2,4-DIMETHYLPHENOL | ND | 210 | 110 |
| 2,4-DINITROPHENOL | ND | 420 | 210 |
| 2,4-DINITROTOLUENE | ND | 210 | 110 |
| 2,6-DINITROTOLUENE | ND | 210 | 110 |
| 2-CHLORONAPHTHALENE | ND | 210 | 110 |
| 2-CHLOROPHENOL | ND | 210 | 110 |
| 2-METHYLNAPHTHALENE | ND | 210 | 110 |
| 2-METHYLPHENOL | ND | 210 | 110 |
| 2-NITROANILINE | ND | 210 | 110 |
| 2-NITROPHENOL | ND | 210 | 110 |
| 3,3'-DICHLOROBENZIDINE | ND | 210 | 110 |
| 3-NITROANILINE | ND | 210 | 110 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 420 | 210 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 210 | 110 |
| 4-CHLORO-3-METHYLPHENOL | ND | 210 | 110 |
| 4-CHLOROANILINE | ND | 210 | 110 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 210 | 110 |
| 4-METHYLPHENOL (1) | ND | 210 | 110 |
| 4-NITROANILINE | ND | 210 | 110 |
| 4-NITROPHENOL | ND | 420 | 210 |
| ACENAPHTHENE | ND | 210 | 110 |
| ACENAPHTHYLENE | ND | 210 | 110 |
| ANTHRACENE | ND | 210 | 110 |
| BENZO(A)ANTHRACENE | ND | 210 | 110 |
| BENZO(A)PYRENE | ND | 210 | 110 |
| BENZO(B)FLUORANTHENE | ND | 210 | 110 |
| BENZO(K)FLUORANTHENE | ND | 210 | 110 |
| BENZO(G,H,I)PERYLENE | ND | 210 | 110 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 210 | 110 |
| BIS(2-CHLOROETHYL)ETHER | ND | 210 | 110 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 210 | 110 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 210 | 110 |
| BUTYLBENZYLPHTHALATE | ND | 210 | 110 |
| CHRYSENE | ND | 210 | 110 |
| DI-N-BUTYLPHTHALATE | ND | 210 | 110 |
| DI-N-OCTYLPHTHALATE | ND | 210 | 110 |
| DIBENZO(A,H)ANTHRACENE | ND | 210 | 110 |
| DIBENZOFURAN | ND | 210 | 110 |
| DIETHYLPHTHALATE | ND | 210 | 110 |
| DIMETHYLPHTHALATE | ND | 210 | 110 |
| FLUORANTHENE | ND | 210 | 110 |
| FLUORENE | ND | 210 | 110 |
| HEXACHLOROBENZENE | ND | 210 | 110 |
| HEXACHLOROBUTADIENE | ND | 210 | 110 |
| HEXACHLOROCYCLOPENTADIENE | ND | 210 | 110 |
| HEXACHLOROETHANE | ND | 210 | 110 |
| INDENO(1,2,3-CD)PYRENE | ND | 210 | 110 |
| ISOPHORONE | ND | 210 | 110 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 210 | 110 |
| N-NITROSODIPHENYLAMINE (2) | ND | 210 | 110 |
| NAPHTHALENE | ND | 210 | 110 |
| NITROBENZENE | ND | 210 | 110 |
| PENTACHLOROPHENOL | ND | 420 | 210 |
| PHENANTHRENE | ND | 210 | 110 |
| PHENOL | ND | 210 | 110 |
| PYRENE | ND | 210 | 110 |
| BENZYL ALCOHOL | ND | 210 | 110 |
| 1-METHYLNAPHTHALENE | ND | 210 | 110 |
| 1,2-DIPHENYLHYDRAZINE | ND | 210 | 110 |
| 3,5-DIMETHYLPHENOL | ND | 210 | 110 |
| ANILINE | ND | 420 | 210 |
| BENZIDINE | ND | 1000 | 530 |
| BENZOIC ACID | ND | 840 | 420 |
| CARBAZOLE | ND | 210 | 110 |
| N-NITROSODIMETHYLAMINE | ND | 210 | 110 |
| TETRALIN | ND | 210 | 210 |
| 2-BUTOXYETHANOL | ND | 210 | 210 |
| 2-PHENOXYETHANOL | ND | 210 | 210 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 684 | 1261 | 54.3 | 35-130 |
| 2-FLUOROBIPHENYL | 217 | 420.3 | 51.5 | 45-130 |
| 2-FLUOROPHENOL | 573 | 1261 | 45.4 | 25-130 |
| NITROBENZENE-D5 | 205 | 420.3 | 48.7 | 40-130 |
| PHENOL-D5 | 600 | 1261 | 47.6 | 25-120 |
| TERPHENYL-D14 | 230 | 420.3 | 54.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-112-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 01:51 |
| Lab Samp ID: D004-07 | Dilution Factor: 1 |
| Lab File ID: RDJ212 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 9.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 93 |
| 1,2-DICHLOROBENZENE | ND | 180 | 93 |
| 1,3-DICHLOROBENZENE | ND | 180 | 93 |
| 1,4-DICHLOROBENZENE | ND | 180 | 93 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 93 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 93 |
| 2,6-DINITROTOLUENE | ND | 180 | 93 |
| 2-CHLORONAPHTHALENE | ND | 180 | 93 |
| 2-CHLOROPHENOL | ND | 180 | 93 |
| 2-METHYLNAPHTHALENE | ND | 180 | 93 |
| 2-METHYLPHENOL | ND | 180 | 93 |
| 2-NITROANILINE | ND | 180 | 93 |
| 2-NITROPHENOL | ND | 180 | 93 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 93 |
| 3-NITROANILINE | ND | 180 | 93 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 93 |
| 4-CHLOROANILINE | ND | 180 | 93 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-METHYLPHENOL (1) | ND | 180 | 93 |
| 4-NITROANILINE | ND | 180 | 93 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 93 |
| ACENAPHTHYLENE | ND | 180 | 93 |
| ANTHRACENE | ND | 180 | 93 |
| BENZO(A)ANTHRACENE | ND | 180 | 93 |
| BENZO(A)PYRENE | ND | 180 | 93 |
| BENZO(B)FLUORANTHENE | ND | 180 | 93 |
| BENZO(K)FLUORANTHENE | ND | 180 | 93 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 93 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 93 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 93 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 93 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 93 |
| CHRYSENE | ND | 180 | 93 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 93 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 93 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 93 |
| DIBENZOFURAN | ND | 180 | 93 |
| DIETHYLPHTHALATE | ND | 180 | 93 |
| DIMETHYLPHTHALATE | ND | 180 | 93 |
| FLUORANTHENE | ND | 180 | 93 |
| FLUORENE | ND | 180 | 93 |
| HEXACHLOROBENZENE | ND | 180 | 93 |
| HEXACHLOROBUTADIENE | ND | 180 | 93 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 93 |
| HEXACHLOROETHANE | ND | 180 | 93 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 93 |
| ISOPHORONE | ND | 180 | 93 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 93 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 93 |
| NAPHTHALENE | ND | 180 | 93 |
| NITROBENZENE | ND | 180 | 93 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 93 |
| PHENOL | ND | 180 | 93 |
| PYRENE | ND | 180 | 93 |
| BENZYL ALCOHOL | ND | 180 | 93 |
| 1-METHYLNAPHTHALENE | ND | 180 | 93 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 93 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 93 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 920 | 460 |
| BENZOIC ACID | ND | 740 | 370 |
| CARBAZOLE | ND | 180 | 93 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 93 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 898 | 1104 | 81.4 | 35-130 |
| 2-FLUOROBIPHENYL | 289 | 367.9 | 78.5 | 45-130 |
| 2-FLUOROPHENOL | 800 | 1104 | 72.5 | 25-130 |
| NITROBENZENE-D5 | 280 | 367.9 | 76.1 | 40-130 |
| PHENOL-D5 | 819 | 1104 | 74.2 | 25-120 |
| TERPHENYL-D14 | 314 | 367.9 | 85.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-113-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 02:12 |
| Lab Samp ID: D004-08 | Dilution Factor: 1 |
| Lab File ID: RDJ213 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 8.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 370 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 883 | 1094 | 80.7 | 35-130 |
| 2-FLUOROBIPHENYL | 252 | 364.7 | 69.2 | 45-130 |
| 2-FLUOROPHENOL | 592 | 1094 | 54.1 | 25-130 |
| NITROBENZENE-D5 | 217 | 364.7 | 59.4 | 40-130 |
| PHENOL-D5 | 657 | 1094 | 60.0 | 25-120 |
| TERPHENYL-D14 | 318 | 364.7 | 87.3 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-138-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 02:32 |
| Lab Samp ID: D004-09 | Dilution Factor: 1 |
| Lab File ID: RDJ214 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 11.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 95 |
| 1,2-DICHLOROBENZENE | ND | 190 | 95 |
| 1,3-DICHLOROBENZENE | ND | 190 | 95 |
| 1,4-DICHLOROBENZENE | ND | 190 | 95 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 95 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 95 |
| 2,6-DINITROTOLUENE | ND | 190 | 95 |
| 2-CHLORONAPHTHALENE | ND | 190 | 95 |
| 2-CHLOROPHENOL | ND | 190 | 95 |
| 2-METHYLNAPHTHALENE | ND | 190 | 95 |
| 2-METHYLPHENOL | ND | 190 | 95 |
| 2-NITROANILINE | ND | 190 | 95 |
| 2-NITROPHENOL | ND | 190 | 95 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 95 |
| 3-NITROANILINE | ND | 190 | 95 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 95 |
| 4-CHLOROANILINE | ND | 190 | 95 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-METHYLPHENOL (1) | ND | 190 | 95 |
| 4-NITROANILINE | ND | 190 | 95 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 95 |
| ACENAPHTHYLENE | ND | 190 | 95 |
| ANTHRACENE | ND | 190 | 95 |
| BENZO(A)ANTHRACENE | ND | 190 | 95 |
| BENZO(A)PYRENE | ND | 190 | 95 |
| BENZO(B)FLUORANTHENE | ND | 190 | 95 |
| BENZO(K)FLUORANTHENE | ND | 190 | 95 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 95 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 95 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 95 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 95 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 95 |
| CHRYSENE | ND | 190 | 95 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 95 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 95 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 95 |
| DIBENZOFURAN | ND | 190 | 95 |
| DIETHYLPHTHALATE | ND | 190 | 95 |
| DIMETHYLPHTHALATE | ND | 190 | 95 |
| FLUORANTHENE | ND | 190 | 95 |
| FLUORENE | ND | 190 | 95 |
| HEXACHLOROBENZENE | ND | 190 | 95 |
| HEXACHLOROBUTADIENE | ND | 190 | 95 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 95 |
| HEXACHLOROETHANE | ND | 190 | 95 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 95 |
| ISOPHORONE | ND | 190 | 95 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 95 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 95 |
| NAPHTHALENE | ND | 190 | 95 |
| NITROBENZENE | ND | 190 | 95 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 95 |
| PHENOL | ND | 190 | 95 |
| PYRENE | ND | 190 | 95 |
| BENZYL ALCOHOL | ND | 190 | 95 |
| 1-METHYLNAPHTHALENE | ND | 190 | 95 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 95 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 95 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 940 | 470 |
| BENZOIC ACID | ND | 750 | 380 |
| CARBAZOLE | ND | 190 | 95 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 95 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 945 | 1129 | 83.8 | 35-130 |
| 2-FLUOROBIPHENYL | 297 | 376.2 | 78.8 | 45-130 |
| 2-FLUOROPHENOL | 796 | 1129 | 70.5 | 25-130 |
| NITROBENZENE-D5 | 285 | 376.2 | 75.7 | 40-130 |
| PHENOL-D5 | 815 | 1129 | 72.2 | 25-120 |
| TERPHENYL-D14 | 332 | 376.2 | 88.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-194-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 02:53 |
| Lab Samp ID: D004-10 | Dilution Factor: 1 |
| Lab File ID: RDJ215 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 11.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 750 | 380 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 949 | 1125 | 84.3 | 35-130 |
| 2-FLUOROBIPHENYL | 303 | 374.9 | 80.8 | 45-130 |
| 2-FLUOROPHENOL | 814 | 1125 | 72.4 | 25-130 |
| NITROBENZENE-D5 | 289 | 374.9 | 77.1 | 40-130 |
| PHENOL-D5 | 857 | 1125 | 76.2 | 25-120 |
| TERPHENYL-D14 | 332 | 374.9 | 88.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/13/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: MBLK1S | Date Analyzed: 04/16/12 20:45 |
| Lab Samp ID: SVD027SB | Dilution Factor: 1 |
| Lab File ID: RDJ197 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 744 | 1000 | 74.4 | 35-130 |
| 2-FLUOROBIPHENYL | 259 | 333.3 | 77.6 | 45-130 |
| 2-FLUOROPHENOL | 748 | 1000 | 74.8 | 25-130 |
| NITROBENZENE-D5 | 253 | 333.3 | 76.0 | 40-130 |
| PHENOL-D5 | 754 | 1000 | 75.4 | 25-120 |
| TERPHENYL-D14 | 316 | 333.3 | 94.9 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVD027SB SVD027SL SVD027SC
LAB FILE ID: RDJ197 RDJ198 RDJ199
DATE EXTRACTED: 04/13/1214:19 04/13/1214:19 04/13/1214:19 DATE COLLECTED: NA
DATE ANALYZED: 04/16/1220:45 04/16/1221:05 04/16/1221:25 DATE RECEIVED: 04/13/12
PREP. BATCH: SVD027S SVD027S SVD027S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 417 | 63 | 667 | 421 | 63 | 1 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 418 | 63 | 667 | 415 | 62 | 1 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 412 | 62 | 667 | 412 | 62 | 0 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 404 | 61 | 667 | 404 | 61 | 0 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 467 | 70 | 667 | 478 | 72 | 2 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 506 | 76 | 667 | 502 | 75 | 1 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 482 | 72 | 667 | 458 | 69 | 5 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 494 | 74 | 667 | 477 | 71 | 3 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 428 | 64 | 667 | 460 | 69 | 7 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 572 | 86 | 667 | 611 | 92 | 7 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 523 | 78 | 667 | 544 | 82 | 4 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 470 | 71 | 667 | 458 | 69 | 3 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 469 | 70 | 667 | 459 | 69 | 2 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 543 | 81 | 667 | 540 | 81 | 1 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 435 | 65 | 667 | 427 | 64 | 2 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 567 | 85 | 667 | 611 | 92 | 7 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 466 | 70 | 667 | 461 | 69 | 1 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 518 | 78 | 667 | 494 | 74 | 5 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 460 | 69 | 667 | 499 | 75 | 8 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 508 | 76 | 667 | 494 | 74 | 3 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 509 | 76 | 667 | 510 | 76 | 0 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 485 | 73 | 667 | 506 | 76 | 4 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 409 | 61 | 667 | 380 | 57 | 7 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 550 | 82 | 667 | 555 | 83 | 1 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 460 | 69 | 667 | 442 | 66 | 4 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 538 | 81 | 667 | 553 | 83 | 3 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 620 | 93 | 667 | 657 | 98 | 6 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 518 | 78 | 667 | 514 | 77 | 1 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 560 | 84 | 667 | 556 | 83 | 1 | 30-130 | 50 |
| Anthracene | ND | 667 | 548 | 82 | 667 | 552 | 83 | 1 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 600 | 90 | 667 | 603 | 90 | 0 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 581 | 87 | 667 | 581 | 87 | 0 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 619 | 93 | 667 | 616 | 92 | 0 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 629 | 94 | 667 | 629 | 94 | 0 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 625 | 94 | 667 | 638 | 96 | 2 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 344 | 52 | 667 | 330 | 50 | 4 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 549 | 82 | 667 | 530 | 79 | 4 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 621 | 93 | 667 | 607 | 91 | 2 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 622 | 93 | 667 | 615 | 92 | 1 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 640 | 96 | 667 | 637 | 96 | 0 | 40-150 | 50 |
| Chrysene | ND | 667 | 602 | 90 | 667 | 609 | 91 | 1 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 605 | 91 | 667 | 602 | 90 | 0 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 637 | 96 | 667 | 631 | 95 | 1 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 640 | 96 | 667 | 638 | 96 | 0 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 503 | 75 | 667 | 510 | 76 | 1 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 562 | 84 | 667 | 599 | 90 | 6 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 529 | 79 | 667 | 557 | 84 | 5 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 638 | 96 | 667 | 631 | 95 | 1 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 558 | 84 | 667 | 583 | 87 | 4 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 520 | 78 | 667 | 543 | 81 | 4 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 463 | 69 | 667 | 454 | 68 | 2 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 313 | 47 | 667 | 323 | 48 | 3 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 441 | 66 | 667 | 436 | 65 | 1 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 638 | 96 | 667 | 642 | 96 | 1 | 30-140 | 50 |
| Isophorone | ND | 667 | 554 | 83 | 667 | 533 | 80 | 4 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 447 | 67 | 667 | 438 | 66 | 2 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 411 | 62 | 667 | 415 | 62 | 1 | 30-140 | 50 |
| Naphthalene | ND | 667 | 520 | 78 | 667 | 512 | 77 | 2 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 529 | 79 | 667 | 531 | 80 | 0 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 529 | 79 | 667 | 532 | 80 | 1 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 569 | 85 | 667 | 588 | 88 | 3 | 30-130 | 50 |
| Phenol | ND | 667 | 498 | 75 | 667 | 468 | 70 | 6 | 30-130 | 50 |
| Pyrene | ND | 667 | 598 | 90 | 667 | 602 | 90 | 1 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 484 | 73 | 667 | 462 | 69 | 5 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 547 | 82 | 667 | 529 | 79 | 3 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 517 | 77 | 667 | 515 | 77 | 0 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 431 | 65 | 667 | 411 | 62 | 5 | 20-150 | 50 |
| Aniline | ND | 667 | 360 | 54 | 667 | 347 | 52 | 4 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1310 | 49 | 2670 | 1190 | 45 | 10 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 1220 | 46 | 2670 | 1360 | 51 | 11 | 10-130 | 50 |
| Carbazole | ND | 667 | 556 | 83 | 667 | 554 | 83 | 0 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 565 | 85 | 667 | 567 | 85 | 0 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 735 | 74 | 1000 | 723 | 72 | 35-130 |
| 2-Fluorobiphenyl | 333 | 233 | 70 | 333 | 225 | 67 | 45-130 |
| 2-Fluorophenol | 1000 | 662 | 66 | 1000 | 613 | 61 | 25-130 |
| Nitrobenzene-d5 | 333 | 228 | 68 | 333 | 214 | 64 | 40-130 |
| Phenol-d5 | 1000 | 668 | 67 | 1000 | 638 | 64 | 25-120 |
| Terphenyl-d14 | 333 | 285 | 85 | 333 | 271 | 81 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: 7.0
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-026-NBZ-SS-0.0-0.5
LAB SAMP ID: D004-02 D004-02M D004-02S
LAB FILE ID: RDJ207 RDJ202 RDJ203
DATE EXTRACTED: 04/13/1214:19 04/13/1214:19 04/13/1214:19 DATE COLLECTED: 04/02/12
DATE ANALYZED: 04/17/1200:09 04/16/1222:26 04/16/1222:47 DATE RECEIVED: 04/02/12
PREP. BATCH: SVD027S SVD027S SVD027S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 717 | 458 | 64 | 717 | 387 | 54 | 17 | 10-130 | 50 |
| 1,2-Dichlorobenzene | ND | 717 | 430 | 60 | 717 | 382 | 53 | 12 | 30-130 | 50 |
| 1,3-Dichlorobenzene | ND | 717 | 430 | 60 | 717 | 373 | 52 | 14 | 30-130 | 50 |
| 1,4-Dichlorobenzene | ND | 717 | 428 | 60 | 717 | 374 | 52 | 13 | 10-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 717 | 509 | 71 | 717 | 434 | 61 | 16 | 30-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 717 | 548 | 76 | 717 | 458 | 64 | 18 | 30-130 | 50 |
| 2,4-Dichlorophenol | ND | 717 | 527 | 74 | 717 | 450 | 63 | 16 | 30-130 | 50 |
| 2,4-Dimethylphenol | ND | 717 | 499 | 70 | 717 | 430 | 60 | 15 | 30-130 | 50 |
| 2,4-Dinitrophenol | ND | 717 | 444 | 62 | 717 | 375 | 52 | 17 | 10-130 | 50 |
| 2,4-Dinitrotoluene | ND | 717 | 567 | 79 | 717 | 468 | 65 | 19 | 20-130 | 50 |
| 2,6-Dinitrotoluene | ND | 717 | 552 | 77 | 717 | 452 | 63 | 20 | 30-130 | 50 |
| 2-Chloronaphthalene | ND | 717 | 522 | 73 | 717 | 439 | 61 | 17 | 30-130 | 50 |
| 2-Chlorophenol | ND | 717 | 487 | 68 | 717 | 433 | 60 | 12 | 20-130 | 50 |
| 2-Methylnaphthalene | ND | 717 | 580 | 81 | 717 | 501 | 70 | 15 | 30-130 | 50 |
| 2-Methylphenol | ND | 717 | 453 | 63 | 717 | 381 | 53 | 17 | 30-130 | 50 |
| 2-Nitroaniline | ND | 717 | 610 | 85 | 717 | 522 | 73 | 16 | 30-130 | 50 |
| 2-Nitrophenol | ND | 717 | 494 | 69 | 717 | 442 | 62 | 11 | 30-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 717 | 344 | 48 | 717 | 274 | 38 | 23 | 30-130 | 50 |
| 3-Nitroaniline | ND | 717 | 463 | 65 | 717 | 395 | 55 | 16 | 30-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 717 | 497 | 69 | 717 | 421 | 59 | 17 | 30-130 | 50 |
| 4-Bromophenyl-phenylether | ND | 717 | 535 | 75 | 717 | 466 | 65 | 14 | 30-130 | 50 |
| 4-Chloro-3-Methylphenol | ND | 717 | 514 | 72 | 717 | 449 | 63 | 13 | 20-130 | 50 |
| 4-Chloroaniline | ND | 717 | 399 | 56 | 717 | 341 | 48 | 16 | 30-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 717 | 586 | 82 | 717 | 496 | 69 | 17 | 30-130 | 50 |
| 4-Methylphenol | ND | 717 | 470 | 66 | 717 | 411 | 57 | 13 | 20-130 | 50 |
| 4-Nitroaniline | ND | 717 | 573 | 80 | 717 | 412 | 58 | 33 | 40-130 | 50 |
| 4-Nitrophenol | ND | 717 | 633 | 88 | 717 | 531 | 74 | 17 | 10-130 | 50 |
| Acenaphthene | ND | 717 | 565 | 79 | 717 | 481 | 67 | 16 | 20-130 | 50 |
| Acenaphthylene | ND | 717 | 603 | 84 | 717 | 512 | 71 | 16 | 20-130 | 50 |
| Anthracene | ND | 717 | 546 | 76 | 717 | 480 | 67 | 13 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 717 | 572 | 80 | 717 | 491 | 69 | 15 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 717 | 547 | 76 | 717 | 464 | 65 | 16 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 717 | 594 | 83 | 717 | 494 | 69 | 18 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 717 | 599 | 84 | 717 | 523 | 73 | 14 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 717 | 607 | 85 | 717 | 501 | 70 | 19 | 30-130 | 50 |
| bis(2-Chloroethoxy)methane | ND | 717 | 331 | 46 | 717 | 276 | 38 | 18 | 30-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 717 | 578 | 81 | 717 | 489 | 68 | 17 | 30-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 717 | 653 | 91 | 717 | 559 | 78 | 16 | 20-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 717 | 609 | 85 | 717 | 513 | 72 | 17 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 717 | 611 | 85 | 717 | 512 | 71 | 17 | 30-130 | 50 |
| Chrysene | ND | 717 | 588 | 82 | 717 | 508 | 71 | 15 | 30-130 | 50 |
| Di-n-butylphthalate | ND | 717 | 575 | 80 | 717 | 486 | 68 | 17 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 717 | 605 | 84 | 717 | 496 | 69 | 20 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 717 | 599 | 84 | 717 | 510 | 71 | 16 | 30-130 | 50 |
| Dibenzofuran | ND | 717 | 542 | 76 | 717 | 465 | 65 | 15 | 30-130 | 50 |
| Diethylphthalate | ND | 717 | 571 | 80 | 717 | 477 | 66 | 18 | 30-130 | 50 |
| Dimethylphthalate | ND | 717 | 550 | 77 | 717 | 457 | 64 | 18 | 30-130 | 50 |
| Fluoranthene | ND | 717 | 619 | 86 | 717 | 535 | 75 | 15 | 30-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 717 | 606 | 84 | 717 | 510 | 71 | 17 | 20-130 | 50 |
| Hexachlorobenzene | ND | 717 | 520 | 73 | 717 | 460 | 64 | 12 | 10-160 | 50 |
| Hexachlorobutadiene | ND | 717 | 482 | 67 | 717 | 420 | 59 | 14 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 717 | 362 | 51 | 717 | 291 | 41 | 22 | 10-130 | 50 |
| Hexachloroethane | ND | 717 | 441 | 62 | 717 | 385 | 54 | 14 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 717 | 606 | 85 | 717 | 514 | 72 | 16 | 20-130 | 50 |
| Isophorone | ND | 717 | 567 | 79 | 717 | 477 | 67 | 17 | 30-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 717 | 462 | 64 | 717 | 382 | 53 | 19 | 20-130 | 50 |
| n-Nitrosodiphenylamine | ND | 717 | 410 | 57 | 717 | 358 | 50 | 13 | 20-140 | 50 |
| Naphthalene | ND | 717 | 556 | 78 | 717 | 478 | 67 | 15 | 30-130 | 50 |
| Nitrobenzene | ND | 717 | 636 | 89 | 717 | 501 | 70 | 24 | 30-130 | 50 |
| Pentachlorophenol | ND | 717 | 511 | 71 | 717 | 435 | 61 | 16 | 10-130 | 50 |
| Phenanthrene | ND | 717 | 579 | 81 | 717 | 511 | 71 | 13 | 20-130 | 50 |
| Phenol | ND | 717 | 510 | 71 | 717 | 443 | 62 | 14 | 20-130 | 50 |
| Pyrene | ND | 717 | 573 | 80 | 717 | 488 | 68 | 16 | 10-160 | 50 |
| Benzyl Alcohol | ND | 717 | 502 | 70 | 717 | 436 | 61 | 14 | 30-130 | 50 |
| 1-Methylnaphthalene | ND | 717 | 584 | 81 | 717 | 487 | 68 | 18 | 20-130 | 50 |
| 1,2-Diphenylhydrazine | ND | 717 | 535 | 75 | 717 | 461 | 64 | 15 | 20-150 | 50 |
| 3,5-Dimethylphenol | ND | 717 | 467 | 65 | 717 | 396 | 55 | 16 | 20-130 | 50 |
| Aniline | ND | 717 | 321J | 45 | 717 | 272J | 38 | 16 | 10-150 | 50 |
| Benzidine | ND | 2870 | ND | 0* | 2870 | ND | 0* | 0 | 10-150 | 50 |
| Benzoic Acid | ND | 2870 | 1530 | 53 | 2870 | 1320 | 46 | 15 | 10-130 | 50 |
| Carbazole | ND | 717 | 548 | 76 | 717 | 476 | 66 | 14 | 30-130 | 50 |
| N-Nitrosodimethylamine | ND | 717 | 568 | 79 | 717 | 504 | 70 | 12 | 20-130 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1080 | 773 | 72 | 1080 | 676 | 63 | 35-130 |
| 2-Fluorobiphenyl | 358 | 267 | 74 | 358 | 229 | 64 | 45-130 |
| 2-Fluorophenol | 1080 | 727 | 68 | 1080 | 639 | 59 | 25-130 |
| Nitrobenzene-d5 | 358 | 263 | 73 | 358 | 222 | 62 | 40-130 |
| Phenol-d5 | 1080 | 742 | 69 | 1080 | 639 | 59 | 25-120 |
| Terphenyl-d14 | 358 | 275 | 77 | 358 | 233 | 65 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-025-NBZ-SS-0.0-0.5 | Date Analyzed: 04/16/12 23:48 |
| Lab Samp ID: D004-01 | Dilution Factor: 1 |
| Lab File ID: RDJ206 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 8.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | 2.1 | 1.9 | 0.93 |
| BENZO(A)PYRENE | 1.2J | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | 1.5J | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | 1.1J | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | 1.4J | 1.9 | 0.93 |
| CHRYSENE | 1.3J | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | 1.4J | 1.9 | 0.93 |
| FLUORENE | ND | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | 1.3J | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | 1.2J | 1.9 | 0.93 |
| PYRENE | 1.5J | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 20 | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | 16J | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 225 | 363.1 | 61.9 | 40-130 |
| 2-FLUOROBIPHENYL | 227 | 363.1 | 62.4 | 45-130 |
| TERPHENYL-D14 | 348 | 363.1 | 96.0 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-026-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 00:09 |
| Lab Samp ID: D004-02 | Dilution Factor: 1 |
| Lab File ID: RDJ207 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 7.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.91 |
| ACENAPHTHYLENE | ND | 1.8 | 0.91 |
| ANTHRACENE | ND | 1.8 | 0.91 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.91 |
| BENZO(A)PYRENE | ND | 1.8 | 0.91 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.91 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.91 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.91 |
| CHRYSENE | ND | 1.8 | 0.91 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.91 |
| FLUORANTHENE | ND | 1.8 | 0.91 |
| FLUORENE | ND | 1.8 | 0.91 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.91 |
| NAPHTHALENE | 0.93J | 1.8 | 0.91 |
| PHENANTHRENE | ND | 1.8 | 0.91 |
| PYRENE | ND | 1.8 | 0.91 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.91 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 31 | 18 | 9.0 |
| BUTYLBENZYLPHTHALATE | 20 | 18 | 9.0 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.0 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.0 |
| DIETHYLPHTHALATE | ND | 18 | 9.0 |
| DIMETHYLPHTHALATE | ND | 18 | 9.0 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.91 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 306 | 358.4 | 85.4 | 40-130 |
| 2-FLUOROBIPHENYL | 252 | 358.4 | 70.2 | 45-130 |
| TERPHENYL-D14 | 349 | 358.4 | 97.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-027-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 00:29 |
| Lab Samp ID: D004-03 | Dilution Factor: 1 |
| Lab File ID: RDJ208 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 14.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 0.99 |
| ACENAPHTHYLENE | ND | 2.0 | 0.99 |
| ANTHRACENE | ND | 2.0 | 0.99 |
| BENZO(A)ANTHRACENE | 1.2J | 2.0 | 0.99 |
| BENZO(A)PYRENE | ND | 2.0 | 0.99 |
| BENZO(B)FLUORANTHENE | 1.6J | 2.0 | 0.99 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 0.99 |
| BENZO(G,H,I)PERYLENE | 1.2J | 2.0 | 0.99 |
| CHRYSENE | 1.1J | 2.0 | 0.99 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 0.99 |
| FLUORANTHENE | 2.1 | 2.0 | 0.99 |
| FLUORENE | ND | 2.0 | 0.99 |
| INDENO(1,2,3-CD)PYRENE | 1.2J | 2.0 | 0.99 |
| NAPHTHALENE | ND | 2.0 | 0.99 |
| PHENANTHRENE | ND | 2.0 | 0.99 |
| PYRENE | 1.8J | 2.0 | 0.99 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 17J | 19 | 9.8 |
| BUTYLBENZYLPHTHALATE | 19J | 19 | 9.8 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.8 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.8 |
| DIETHYLPHTHALATE | ND | 19 | 9.8 |
| DIMETHYLPHTHALATE | ND | 19 | 9.8 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 0.99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 238 | 387.6 | 61.3 | 40-130 |
| 2-FLUOROBIPHENYL | 202 | 387.6 | 52.1 | 45-130 |
| TERPHENYL-D14 | 267 | 387.6 | 69.0 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-028-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 00:50 |
| Lab Samp ID: D004-04 | Dilution Factor: 1 |
| Lab File ID: RDJ209 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 9.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.94 |
| ACENAPHTHYLENE | ND | 1.9 | 0.94 |
| ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)PYRENE | ND | 1.9 | 0.94 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.94 |
| CHRYSENE | ND | 1.9 | 0.94 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.94 |
| FLUORANTHENE | ND | 1.9 | 0.94 |
| FLUORENE | ND | 1.9 | 0.94 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.94 |
| NAPHTHALENE | ND | 1.9 | 0.94 |
| PHENANTHRENE | ND | 1.9 | 0.94 |
| PYRENE | ND | 1.9 | 0.94 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 25 | 18 | 9.3 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.3 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.3 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.3 |
| DIETHYLPHTHALATE | ND | 18 | 9.3 |
| DIMETHYLPHTHALATE | ND | 18 | 9.3 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.94 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 264 | 367.1 | 71.9 | 40-130 |
| 2-FLUOROBIPHENYL | 224 | 367.1 | 61.0 | 45-130 |
| TERPHENYL-D14 | 315 | 367.1 | 85.7 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-107-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 01:10 |
| Lab Samp ID: D004-05 | Dilution Factor: 1 |
| Lab File ID: RDJ210 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 12.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.97 |
| ACENAPHTHYLENE | ND | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)PYRENE | 1.3J | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | 2.2 | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | 1.7J | 1.9 | 0.97 |
| CHRYSENE | 1.6J | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | 2.3 | 1.9 | 0.97 |
| FLUORENE | ND | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | 1.4J | 1.9 | 0.97 |
| NAPHTHALENE | ND | 1.9 | 0.97 |
| PHENANTHRENE | 1.3J | 1.9 | 0.97 |
| PYRENE | 2.1 | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 32 | 19 | 9.5 |
| BUTYLBENZYLPHTHALATE | 10J | 19 | 9.5 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.5 |
| DIETHYLPHTHALATE | ND | 19 | 9.5 |
| DIMETHYLPHTHALATE | ND | 19 | 9.5 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 290 | 378.8 | 76.7 | 40-130 |
| 2-FLUOROBIPHENYL | 249 | 378.8 | 65.7 | 45-130 |
| TERPHENYL-D14 | 300 | 378.8 | 79.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-111-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 01:31 |
| Lab Samp ID: D004-06 | Dilution Factor: 1 |
| Lab File ID: RDJ211 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 20.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.1 | 1.1 |
| ACENAPHTHYLENE | ND | 2.1 | 1.1 |
| ANTHRACENE | ND | 2.1 | 1.1 |
| BENZO(A)ANTHRACENE | ND | 2.1 | 1.1 |
| BENZO(A)PYRENE | ND | 2.1 | 1.1 |
| BENZO(B)FLUORANTHENE | 1.8J | 2.1 | 1.1 |
| BENZO(K)FLUORANTHENE | ND | 2.1 | 1.1 |
| BENZO(G,H,I)PERYLENE | 1.4J | 2.1 | 1.1 |
| CHRYSENE | 1.5J | 2.1 | 1.1 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.1 | 1.1 |
| FLUORANTHENE | 1.8J | 2.1 | 1.1 |
| FLUORENE | ND | 2.1 | 1.1 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.1 | 1.1 |
| NAPHTHALENE | ND | 2.1 | 1.1 |
| PHENANTHRENE | ND | 2.1 | 1.1 |
| PYRENE | 1.7J | 2.1 | 1.1 |
| 2-METHYLNAPHTHALENE | ND | 2.1 | 1.1 |
| 1-METHYLNAPHTHALENE | ND | 2.1 | 1.1 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 31 | 21 | 11 |
| BUTYLBENZYLPHTHALATE | ND | 21 | 11 |
| DI-N-BUTYLPHTHALATE | ND | 21 | 11 |
| DI-N-OCTYLPHTHALATE | ND | 21 | 11 |
| DIETHYLPHTHALATE | ND | 21 | 11 |
| DIMETHYLPHTHALATE | ND | 21 | 11 |
| N-NITROSODIMETHYLAMINE | ND | 2.1 | 1.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 219 | 420.3 | 52.2 | 40-130 |
| 2-FLUOROBIPHENYL | 194 | 420.3 | 46.1 | 45-130 |
| TERPHENYL-D14 | 247 | 420.3 | 58.8 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-112-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 01:51 |
| Lab Samp ID: D004-07 | Dilution Factor: 1 |
| Lab File ID: RDJ212 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 9.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.94 |
| ACENAPHTHYLENE | ND | 1.9 | 0.94 |
| ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)PYRENE | ND | 1.9 | 0.94 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.94 |
| CHRYSENE | ND | 1.9 | 0.94 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.94 |
| FLUORANTHENE | ND | 1.9 | 0.94 |
| FLUORENE | ND | 1.9 | 0.94 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.94 |
| NAPHTHALENE | ND | 1.9 | 0.94 |
| PHENANTHRENE | ND | 1.9 | 0.94 |
| PYRENE | ND | 1.9 | 0.94 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 38 | 18 | 9.3 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.3 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.3 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.3 |
| DIETHYLPHTHALATE | ND | 18 | 9.3 |
| DIMETHYLPHTHALATE | ND | 18 | 9.3 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.94 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 304 | 367.9 | 82.6 | 40-130 |
| 2-FLUOROBIPHENYL | 259 | 367.9 | 70.4 | 45-130 |
| TERPHENYL-D14 | 347 | 367.9 | 94.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-113-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 02:12 |
| Lab Samp ID: D004-08 | Dilution Factor: 1 |
| Lab File ID: RDJ213 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 8.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)PYRENE | ND | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.93 |
| CHRYSENE | ND | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | ND | 1.9 | 0.93 |
| FLUORENE | ND | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | ND | 1.9 | 0.93 |
| PYRENE | ND | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 18J | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 235 | 364.7 | 64.4 | 40-130 |
| 2-FLUOROBIPHENYL | 221 | 364.7 | 60.5 | 45-130 |
| TERPHENYL-D14 | 341 | 364.7 | 93.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-138-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 02:32 |
| Lab Samp ID: D004-09 | Dilution Factor: 1 |
| Lab File ID: RDJ214 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 11.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.96 |
| ACENAPHTHYLENE | ND | 1.9 | 0.96 |
| ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)PYRENE | ND | 1.9 | 0.96 |
| BENZO(B)FLUORANTHENE | 1.2J | 1.9 | 0.96 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.96 |
| CHRYSENE | ND | 1.9 | 0.96 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.96 |
| FLUORANTHENE | 1.1J | 1.9 | 0.96 |
| FLUORENE | ND | 1.9 | 0.96 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.96 |
| NAPHTHALENE | ND | 1.9 | 0.96 |
| PHENANTHRENE | ND | 1.9 | 0.96 |
| PYRENE | 1.1J | 1.9 | 0.96 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 32 | 19 | 9.5 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.5 |
| DIETHYLPHTHALATE | ND | 19 | 9.5 |
| DIMETHYLPHTHALATE | ND | 19 | 9.5 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.96 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 314 | 376.2 | 83.4 | 40-130 |
| 2-FLUOROBIPHENYL | 271 | 376.2 | 72.1 | 45-130 |
| TERPHENYL-D14 | 339 | 376.2 | 90.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-194-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 02:53 |
| Lab Samp ID: D004-10 | Dilution Factor: 1 |
| Lab File ID: RDJ215 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 11.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.96 |
| ACENAPHTHYLENE | ND | 1.9 | 0.96 |
| ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)PYRENE | ND | 1.9 | 0.96 |
| BENZO(B)FLUORANTHENE | 1.6J | 1.9 | 0.96 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(G,H,I)PERYLENE | 1.0J | 1.9 | 0.96 |
| CHRYSENE | 1.2J | 1.9 | 0.96 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.96 |
| FLUORANTHENE | 1.8J | 1.9 | 0.96 |
| FLUORENE | ND | 1.9 | 0.96 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.96 |
| NAPHTHALENE | ND | 1.9 | 0.96 |
| PHENANTHRENE | ND | 1.9 | 0.96 |
| PYRENE | 1.6J | 1.9 | 0.96 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 27 | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.96 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 324 | 374.9 | 86.4 | 40-130 |
| 2-FLUOROBIPHENYL | 279 | 374.9 | 74.3 | 45-130 |
| TERPHENYL-D14 | 334 | 374.9 | 89.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/13/12 |
| Batch No. : 12D004 | Date Extracted: 04/13/12 14:19 |
| Sample ID: MBLK1S | Date Analyzed: 04/16/12 20:45 |
| Lab Samp ID: SVD027SB | Dilution Factor: 1 |
| Lab File ID: RDJ197 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 285 | 333.3 | 85.6 | 40-130 |
| 2-FLUOROBIPHENYL | 241 | 333.3 | 72.2 | 45-130 |
| TERPHENYL-D14 | 325 | 333.3 | 97.4 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVD027SB | SVD027SX | SVD027SY | | |
| LAB FILE ID: | RDJ197 | RDJ200 | RDJ201 | | |
| DATE EXTRACTED: | 04/13/1214:19 | 04/13/1214:19 | 04/13/1214:19 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/16/1220:45 | 04/16/1221:46 | 04/16/1222:06 | DATE RECEIVED: | 04/13/12 |
| PREP. BATCH: | SVD027S | SVD027S | SVD027S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 267 | 80 | 333 | 247 | 74 | 8 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 305 | 92 | 333 | 280 | 84 | 9 | 20-130 | 50 |
| Anthracene | ND | 333 | 282 | 85 | 333 | 255 | 77 | 10 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 349 | 105 | 333 | 298 | 89 | 16 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 334 | 100 | 333 | 281 | 84 | 17 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 351 | 105 | 333 | 310 | 93 | 12 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 353 | 106 | 333 | 306 | 92 | 14 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 364 | 109 | 333 | 319 | 96 | 13 | 30-140 | 50 |
| Chrysene | ND | 333 | 331 | 99 | 333 | 283 | 85 | 16 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 370 | 111 | 333 | 325 | 97 | 13 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 348 | 105 | 333 | 302 | 91 | 14 | 30-130 | 50 |
| Fluorene | ND | 333 | 295 | 88 | 333 | 261 | 78 | 12 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 375 | 112 | 333 | 327 | 98 | 14 | 20-160 | 50 |
| Naphthalene | ND | 333 | 261 | 78 | 333 | 242 | 73 | 7 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 283 | 85 | 333 | 260 | 78 | 8 | 20-130 | 50 |
| Pyrene | ND | 333 | 333 | 100 | 333 | 289 | 87 | 14 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 284 | 85 | 333 | 267 | 80 | 6 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 283 | 85 | 333 | 267 | 80 | 6 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 351 | 105 | 333 | 302 | 91 | 15 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 338 | 101 | 333 | 284 | 85 | 17 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 319 | 96 | 333 | 278 | 83 | 14 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 315 | 95 | 333 | 271 | 81 | 15 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 314 | 94 | 333 | 271 | 81 | 15 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 286 | 86 | 333 | 249 | 75 | 14 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 286 | 86 | 333 | 266 | 80 | 7 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 262 | 79 | 333 | 261 | 78 | 40-130 |
| 2-Fluorobiphenyl | 333 | 218 | 65 | 333 | 221 | 66 | 45-130 |
| Terphenyl-d14 | 333 | 309 | 93 | 333 | 285 | 86 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: 7.0

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-026-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D004-02 | D004-02M | D004-02S | | |
| LAB FILE ID: | RDJ207 | RDJ204 | RDJ205 | | |
| DATE EXTRACTED: | 04/13/1214:19 | 04/13/1214:19 | 04/13/1214:19 | DATE COLLECTED: | 04/02/12 |
| DATE ANALYZED: | 04/17/1200:09 | 04/16/1223:07 | 04/16/1223:28 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | SVD027S | SVD027S | SVD027S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 358 | 321 | 90 | 358 | 240 | 67 | 29 | 10-130 | 50 |
| Acenaphthylene | ND | 358 | 368 | 103 | 358 | 277 | 77 | 28 | 20-130 | 50 |
| Anthracene | ND | 358 | 327 | 91 | 358 | 259 | 72 | 23 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 358 | 336 | 94 | 358 | 265 | 74 | 24 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 358 | 360 | 101 | 358 | 279 | 78 | 25 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 358 | 385 | 107 | 358 | 308 | 86 | 22 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 358 | 393 | 110 | 358 | 287 | 80 | 31 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 358 | 384 | 107 | 358 | 290 | 81 | 28 | 30-140 | 50 |
| Chrysene | ND | 358 | 320 | 89 | 358 | 254 | 71 | 23 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 358 | 398 | 111 | 358 | 303 | 85 | 27 | 30-130 | 50 |
| Fluoranthene | ND | 358 | 370 | 103 | 358 | 291 | 81 | 24 | 30-130 | 50 |
| Fluorene | ND | 358 | 349 | 97 | 358 | 256 | 71 | 31 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 358 | 397 | 111 | 358 | 299 | 83 | 28 | 20-160 | 50 |
| Naphthalene | 0.928J | 358 | 294 | 82 | 358 | 246 | 68 | 18 | 10-130 | 50 |
| Phenanthrene | ND | 358 | 337 | 94 | 358 | 262 | 73 | 25 | 20-130 | 50 |
| Pyrene | ND | 358 | 351 | 98 | 358 | 277 | 77 | 24 | 10-160 | 50 |
| 2-Methylnaphthalene | ND | 358 | 338 | 94 | 358 | 269 | 75 | 23 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 358 | 338 | 94 | 358 | 266 | 74 | 24 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | 30.6 | 358 | 658 | 175* | 358 | 842 | 226* | 25 | 20-150 | 50 |
| Butylbenzylphthalate | 19.7 | 358 | 368 | 97 | 358 | 306 | 80 | 19 | 20-150 | 50 |
| Di-n-butylphthalate | ND | 358 | 347 | 97 | 358 | 267 | 74 | 26 | 20-150 | 50 |
| Di-n-octylphthalate | ND | 358 | 373 | 104 | 358 | 280 | 78 | 29 | 10-150 | 50 |
| Diethylphthalate | ND | 358 | 353 | 99 | 358 | 260 | 73 | 30 | 20-150 | 50 |
| Dimethylphthalate | ND | 358 | 339 | 94 | 358 | 246 | 69 | 32 | 20-150 | 50 |
| N-Nitrosodimethylamine | ND | 358 | 330 | 92 | 358 | 262 | 73 | 23 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 358 | 328 | 91 | 358 | 257 | 72 | 40-130 |
| 2-Fluorobiphenyl | 358 | 269 | 75 | 358 | 211 | 59 | 45-130 |
| Terphenyl-d14 | 358 | 308 | 86 | 358 | 248 | 69 | 45-135 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/06/12 14:05 |
| Sample ID: SL-025-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 05:26 |
| Lab Samp ID: D004-01 | Dilution Factor: 1 |
| Lab File ID: LD10040A | Matrix : SOIL |
| Ext Btch ID: DSD007S | % Moisture : 8.2 |
| Calib. Ref.: LD10034A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.87J | 1.1 | 0.54 |
| EFH(C12-C14) | 0.88J | 1.1 | 0.54 |
| EFH(C15-C20) | 1.4 | 1.1 | 0.54 |
| EFH(C21-C30) | 12 | 1.1 | 0.54 |
| EFH(C30-C40) | 19 | 1.1 | 0.54 |
| TOTAL EFH(C8-C40) | 34 | 1.1 | 0.54 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.40 | 10.89 | 67.9 | 50-150 |
| HEXACOSANE | 2.44 | 2.723 | 89.7 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/06/12 14:05 |
| Sample ID: SL-026-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 05:43 |
| Lab Samp ID: D004-02 | Dilution Factor: 1 |
| Lab File ID: LD10041A | Matrix : SOIL |
| Ext Btch ID: DSD007S | % Moisture : 7.0 |
| Calib. Ref.: LD10034A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.54 |
| EFH(C12-C14) | ND | 1.1 | 0.54 |
| EFH(C15-C20) | ND | 1.1 | 0.54 |
| EFH(C21-C30) | 3.2 | 1.1 | 0.54 |
| EFH(C30-C40) | 3.8 | 1.1 | 0.54 |
| TOTAL EFH(C8-C40) | 7.0 | 1.1 | 0.54 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.37 | 10.75 | 59.2 | 50-150 |
| HEXACOSANE | 2.22 | 2.688 | 82.4 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/06/12 14:05 |
| Sample ID: SL-027-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 05:59 |
| Lab Samp ID: D004-03 | Dilution Factor: 1 |
| Lab File ID: LD10042A | Matrix : SOIL |
| Ext Btch ID: DSD007S | % Moisture : 14.0 |
| Calib. Ref.: LD10034A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.75J | 1.2 | 0.58 |
| EFH(C12-C14) | ND | 1.2 | 0.58 |
| EFH(C15-C20) | 2.1 | 1.2 | 0.58 |
| EFH(C21-C30) | 13 | 1.2 | 0.58 |
| EFH(C30-C40) | 23 | 1.2 | 0.58 |
| TOTAL EFH(C8-C40) | 39 | 1.2 | 0.58 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 8.03 | 11.63 | 69.0 | 50-150 |
| HEXACOSANE | 2.94 | 2.907 | 101 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/06/12 14:05 |
| Sample ID: SL-028-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 06:16 |
| Lab Samp ID: D004-04 | Dilution Factor: 1 |
| Lab File ID: LD10043A | Matrix : SOIL |
| Ext Btch ID: DSD007S | % Moisture : 9.2 |
| Calib. Ref.: LD10034A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.60J | 1.1 | 0.55 |
| EFH(C12-C14) | ND | 1.1 | 0.55 |
| EFH(C15-C20) | ND | 1.1 | 0.55 |
| EFH(C21-C30) | 4.5 | 1.1 | 0.55 |
| EFH(C30-C40) | 7.4 | 1.1 | 0.55 |
| TOTAL EFH(C8-C40) | 13 | 1.1 | 0.55 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.55 | 11.01 | 68.5 | 50-150 |
| HEXACOSANE | 2.36 | 2.753 | 85.6 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/06/12 |
| Batch No. : 12D004 | Date Extracted: 04/06/12 14:05 |
| Sample ID: MBLK1S | Date Analyzed: 04/11/12 00:03 |
| Lab Samp ID: DSD007SB | Dilution Factor: 1 |
| Lab File ID: LD10021A | Matrix : SOIL |
| Ext Btch ID: DSD007S | % Moisture : NA |
| Calib. Ref.: LD10011A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.23 | 10.00 | 72.3 | 50-150 |
| HEXACOSANE | 2.03 | 2.500 | 81.2 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSD007SB | DSD007SL | DSD007SC | | |
| LAB FILE ID: | LD10021A | LD10019A | LD10020A | | |
| DATE EXTRACTED: | 04/06/1214:05 | 04/06/1214:05 | 04/06/1214:05 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1200:03 | 04/10/1223:29 | 04/10/1223:46 | DATE RECEIVED: | 04/06/12 |
| PREP. BATCH: | DSD007S | DSD007S | DSD007S | | |
| CALIB. REF: | LD10011A | LD10011A | LD10011A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 42.9 | 86 | 50.0 | 40.5 | 81 | 6 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 7.60 | 76 | 10.0 | 7.80 | 78 | 50-150 |
| Hexacosane | 2.50 | 2.00 | 80 | 2.50 | 2.05 | 82 | 50-150 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/03/12 11:00 |
| Sample ID: SL-025-NBZ-SS-0.0-0.5 | Date Analyzed: 04/04/12 13:16 |
| Lab Samp ID: D004-01 | Dilution Factor: 1 |
| Lab File ID: BD04007A | Matrix : SOIL |
| Ext Btch ID: MED001S | % Moisture : 8.2 |
| Calib. Ref.: BD04002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 540 | 270 |
| ISOPROPANOL | ND | 540 | 270 |
| METHANOL | ND | 540 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/03/12 11:00 |
| Sample ID: SL-026-NBZ-SS-0.0-0.5 | Date Analyzed: 04/04/12 13:42 |
| Lab Samp ID: D004-02 | Dilution Factor: 1 |
| Lab File ID: BD04008A | Matrix : SOIL |
| Ext Btch ID: MED001S | % Moisture : 7.0 |
| Calib. Ref.: BD04002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 540 | 270 |
| ISOPROPANOL | ND | 540 | 270 |
| METHANOL | ND | 540 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/03/12 11:00 |
| Sample ID: SL-027-NBZ-SS-0.0-0.5 | Date Analyzed: 04/04/12 14:05 |
| Lab Samp ID: D004-03 | Dilution Factor: 1 |
| Lab File ID: BD04009A | Matrix : SOIL |
| Ext Btch ID: MED001S | % Moisture : 14.0 |
| Calib. Ref.: BD04002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 580 | 290 |
| ISOPROPANOL | ND | 580 | 290 |
| METHANOL | ND | 580 | 290 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/03/12 11:00 |
| Sample ID: SL-028-NBZ-SS-0.0-0.5 | Date Analyzed: 04/04/12 14:20 |
| Lab Samp ID: D004-04 | Dilution Factor: 1 |
| Lab File ID: BD04010A | Matrix : SOIL |
| Ext Btch ID: MED001S | % Moisture : 9.2 |
| Calib. Ref.: BD04002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 550 | 280 |
| ISOPROPANOL | ND | 550 | 280 |
| METHANOL | ND | 550 | 280 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D004 | Date Extracted: 04/03/12 11:00 |
| Sample ID: MBLK1S | Date Analyzed: 04/04/12 11:21 |
| Lab Samp ID: MED001SB | Dilution Factor: 1 |
| Lab File ID: BD04003A | Matrix : SOIL |
| Ext Btch ID: MED001S | % Moisture : NA |
| Calib. Ref.: BD04002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 500 | 250 |
| ISOPROPANOL | ND | 500 | 250 |
| METHANOL | ND | 500 | 250 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | MED001SB | MED001SL | MED001SC | | |
| LAB FILE ID: | BD04003A | BD04004A | BD04005A | | |
| DATE EXTRACTED: | 04/03/1211:00 | 04/03/1211:00 | 04/03/1211:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/04/1211:21 | 04/04/1211:51 | 04/04/1212:15 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | MED001S | MED001S | MED001S | | |
| CALIB. REF: | BD04002A | BD04002A | BD04002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 9200 | 92 | 10000 | 8600 | 86 | 7 | 50-150 | 50 |
| Isopropanol | ND | 10000 | 9560 | 96 | 10000 | 10300 | 103 | 7 | 50-150 | 50 |
| Methanol | ND | 10000 | 11400 | 114 | 10000 | 11500 | 115 | 1 | 50-150 | 50 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/03/12 10:30 |
| Sample ID: SL-025-NBZ-SS-0.0-0.5 | Date Analyzed: 04/03/12 14:58 |
| Lab Samp ID: D004-01 | Dilution Factor: 1 |
| Lab File ID: TD03019A | Matrix : SOIL |
| Ext Btch ID: PED001S | % Moisture : 8.2 |
| Calib. Ref.: TD03013A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.2 |
| ETHYLENE GLYCOL | ND | 11 | 5.4 |
| PROPYLENE GLYCOL | ND | 11 | 5.4 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/02/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/02/12 |
| Batch No. | : 12D004 | Date Extracted | : 04/03/12 10:30 |
| Sample ID | : SL-026-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/03/12 15:12 |
| Lab Samp ID | : D004-02 | Dilution Factor | : 1 |
| Lab File ID | : TD03020A | Matrix | : SOIL |
| Ext Btch ID | : PED001S | % Moisture | : 7.0 |
| Calib. Ref. | : TD03013A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.1 |
| ETHYLENE GLYCOL | ND | 11 | 5.4 |
| PROPYLENE GLYCOL | ND | 11 | 5.4 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/03/12 10:30 |
| Sample ID: SL-027-NBZ-SS-0.0-0.5 | Date Analyzed: 04/03/12 15:23 |
| Lab Samp ID: D004-03 | Dilution Factor: 1 |
| Lab File ID: TD03021A | Matrix : SOIL |
| Ext Btch ID: PED001S | % Moisture : 14.0 |
| Calib. Ref.: TD03013A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 17 | 8.7 |
| ETHYLENE GLYCOL | ND | 12 | 5.8 |
| PROPYLENE GLYCOL | ND | 12 | 5.8 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/02/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/02/12 |
| Batch No. | : 12D004 | Date Extracted | : 04/03/12 10:30 |
| Sample ID | : SL-028-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/03/12 15:35 |
| Lab Samp ID | : D004-04 | Dilution Factor | : 1 |
| Lab File ID | : TD03022A | Matrix | : SOIL |
| Ext Btch ID | : PED001S | % Moisture | : 9.2 |
| Calib. Ref. | : TD03013A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 17 | 8.3 |
| ETHYLENE GLYCOL | ND | 11 | 5.5 |
| PROPYLENE GLYCOL | ND | 11 | 5.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D004 | Date Extracted: 04/03/12 10:30 |
| Sample ID: MBLK1S | Date Analyzed: 04/03/12 13:47 |
| Lab Samp ID: PED001SB | Dilution Factor: 1 |
| Lab File ID: TD03015A | Matrix : SOIL |
| Ext Btch ID: PED001S | % Moisture : NA |
| Calib. Ref.: TD03013A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.5 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 5.0 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PED001SB | PED001SL | PED001SC | | |
| LAB FILE ID: | TD03015A | TD03016A | TD03017A | | |
| DATE EXTRACTED: | 04/03/1210:30 | 04/03/1210:30 | 04/03/1210:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/03/1213:47 | 04/03/1214:11 | 04/03/1214:22 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | PED001S | PED001S | PED001S | | |
| CALIB. REF: | TD03013A | TD03013A | TD03013A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 48.5 | 97 | 50.0 | 48.5 | 97 | 0 | 50-150 | 50 |
| Ethylene Glycol | ND | 50.0 | 50.4 | 101 | 50.0 | 49.5 | 99 | 2 | 50-150 | 50 |
| Propylene Glycol | ND | 25.0 | 24.5 | 98 | 25.0 | 24.4 | 98 | 0 | 50-150 | 50 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/12/12 15:04 |
| Sample ID: SL-025-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 13:11 |
| Lab Samp ID: D004-01 | Dilution Factor: 1 |
| Lab File ID: LD26011A | Matrix : SOIL |
| Ext Btch ID: CPD030S | % Moisture : 8.2 |
| Calib. Ref.: LD26004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.82 | 0.19 | 0.093 \| 0.093 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| HEPTACHLOR | 0.75 \| (ND) | 0.19 | 0.093 \| 0.093 |
| DELTA-BHC | (ND) \| 0.27 | 0.19 | 0.093 \| 0.093 |
| ALDRIN | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| HEPTACHLOR EPOXIDE | 0.12J \| (ND) | 0.19 | 0.093 \| 0.093 |
| ENDOSULFAN I | (ND) \| 0.32 | 0.19 | 0.093 \| 0.093 |
| 4,4'-DDE | 0.29J \| (0.33J) | 0.37 | 0.19 \| 0.19 |
| DIELDRIN | 0.35J \| (ND) | 0.37 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.59 \| (ND) | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDT | (ND) \| 4.2 | 0.37 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | 2.5 \| (ND) | 0.37 | 0.19 \| 0.19 |
| ENDRIN KETONE | 1.1 \| (ND) | 0.37 | 0.19 \| 0.19 |
| METHOXYCHLOR | 2.8 \| (3.7) | 1.9 | 0.93 \| 0.93 |
| MIREX | (ND) \| 1.1 | 0.37 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.2 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.455 \| (5.363) | 5.809 | 76.7 \| (92.3) | 50-130 |
| DECACHLOROBIPHENYL | 4.323 \| (5.277) | 5.809 | 74.4 \| (90.8) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/12/12 15:04 |
| Sample ID: SL-026-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 13:32 |
| Lab Samp ID: D004-02 | Dilution Factor: 1 |
| Lab File ID: LD26012A | Matrix : SOIL |
| Ext Btch ID: CPD030S | % Moisture : 7.0 |
| Calib. Ref.: LD26004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.12J | 0.18 | 0.091 \| 0.091 |
| BETA-BHC | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| HEPTACHLOR | 0.46 \| (ND) | 0.18 | 0.091 \| 0.091 |
| DELTA-BHC | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| ALDRIN | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| ENDOSULFAN I | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| 4,4'-DDE | (ND) \| 0.19J | 0.37 | 0.18 \| 0.18 |
| DIELDRIN | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDRIN | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDD | (ND) \| 1.2 | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN II | 0.69 \| (ND) | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDT | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | 2.9 \| (ND) | 0.37 | 0.18 \| 0.18 |
| ENDRIN KETONE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| METHOXYCHLOR | 2.0 \| (ND) | 1.8 | 0.91 \| 0.91 |
| MIREX | (ND) \| 0.23J | 0.37 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 7.1 | 3.5 \| 3.5 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.962 \| (5.251) | 5.734 | 69.1 \| (91.6) | 50-130 |
| DECACHLOROBIPHENYL | 4.073 \| (4.632) | 5.734 | 71.0 \| (80.8) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/12/12 15:04 |
| Sample ID: SL-027-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 14:36 |
| Lab Samp ID: D004-03 | Dilution Factor: 1 |
| Lab File ID: LD26015A | Matrix : SOIL |
| Ext Btch ID: CPD030S | % Moisture : 14.0 |
| Calib. Ref.: LD26004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.27 | 0.20 | 0.099 \| 0.099 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| BETA-BHC | 1.3 \| (ND) | 0.20 | 0.099 \| 0.099 |
| HEPTACHLOR | 0.32 \| (ND) | 0.20 | 0.099 \| 0.099 |
| DELTA-BHC | (ND) \| 0.12J | 0.20 | 0.099 \| 0.099 |
| ALDRIN | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| HEPTACHLOR EPOXIDE | 0.17J \| (ND) | 0.20 | 0.099 \| 0.099 |
| ENDOSULFAN I | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| 4,4'-DDE | 0.24J \| (0.29J) | 0.40 | 0.20 \| 0.20 |
| DIELDRIN | 0.70 \| (ND) | 0.40 | 0.20 \| 0.20 |
| ENDRIN | 0.20J \| (ND) | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDD | 0.23J \| (0.87) | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN II | 0.62 \| (ND) | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDT | (ND) \| 0.43 | 0.40 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | 1.4 \| (ND) | 0.40 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| METHOXYCHLOR | 8.1 \| (ND) | 2.0 | 0.99 \| 0.99 |
| MIREX | (ND) \| 0.32J | 0.40 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.7 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.0 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (5.234) \| 5.135 | 6.201 | (84.4) \| 82.8 | 50-130 |
| DECACHLOROBIPHENYL | 4.345 \| (7.203) | 6.201 | 70.1 \| (116) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/12/12 15:04 |
| Sample ID: SL-028-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 14:58 |
| Lab Samp ID: D004-04 | Dilution Factor: 1 |
| Lab File ID: LD26016A | Matrix : SOIL |
| Ext Btch ID: CPD030S | % Moisture : 9.2 |
| Calib. Ref.: LD26004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.41 | 0.19 | 0.094\|0.094 |
| GAMMA-BHC (LINDANE) | (ND)\|0.21 | 0.19 | 0.094\|0.094 |
| BETA-BHC | (ND)\|ND | 0.19 | 0.094\|0.094 |
| HEPTACHLOR | 0.31\|(ND) | 0.19 | 0.094\|0.094 |
| DELTA-BHC | (ND)\|0.63 | 0.19 | 0.094\|0.094 |
| ALDRIN | (ND)\|ND | 0.19 | 0.094\|0.094 |
| HEPTACHLOR EPOXIDE | 0.16J\|(ND) | 0.19 | 0.094\|0.094 |
| ENDOSULFAN I | (ND)\|ND | 0.19 | 0.094\|0.094 |
| 4,4'-DDE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| DIELDRIN | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.37 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDOSULFAN II | 0.31J\|(ND) | 0.37 | 0.19\|0.19 |
| 4,4'-DDT | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (3.9)\|0.89 | 0.37 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| METHOXYCHLOR | 1.8J\|(ND) | 1.9 | 0.94\|0.94 |
| MIREX | (ND)\|ND | 0.37 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.3 | 3.6\|3.6 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.026\|(5.292) | 5.873 | 68.6\|(90.1) | 50-130 |
| DECACHLOROBIPHENYL | 3.753\|(4.586) | 5.873 | 63.9\|(78.1) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/12/12 15:04 |
| Sample ID: SL-107-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 15:19 |
| Lab Samp ID: D004-05 | Dilution Factor: 1 |
| Lab File ID: LD26017A | Matrix : SOIL |
| Ext Btch ID: CPD030S | % Moisture : 12.0 |
| Calib. Ref.: LD26004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.56 | 0.19 | 0.097\|0.097 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.19 | 0.097\|0.097 |
| BETA-BHC | (ND)\|ND | 0.19 | 0.097\|0.097 |
| HEPTACHLOR | 0.69\|(ND) | 0.19 | 0.097\|0.097 |
| DELTA-BHC | 0.49\|(ND) | 0.19 | 0.097\|0.097 |
| ALDRIN | (ND)\|ND | 0.19 | 0.097\|0.097 |
| HEPTACHLOR EPOXIDE | 0.33\|(ND) | 0.19 | 0.097\|0.097 |
| ENDOSULFAN I | (ND)\|0.27 | 0.19 | 0.097\|0.097 |
| 4,4'-DDE | 0.46\|(ND) | 0.39 | 0.19\|0.19 |
| DIELDRIN | 0.34J\|(ND) | 0.39 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.39 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.39 | 0.19\|0.19 |
| ENDOSULFAN II | (ND)\|0.22J | 0.39 | 0.19\|0.19 |
| 4,4'-DDT | 0.45\|(0.97) | 0.39 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | (ND)\|0.27J | 0.39 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.39 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|0.34J | 0.39 | 0.19\|0.19 |
| METHOXYCHLOR | 1.1J\|(ND) | 1.9 | 0.97\|0.97 |
| MIREX | (ND)\|ND | 0.39 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.5 | 3.7\|3.7 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.9 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.383\|(5.668) | 6.060 | 72.3\|(93.5) | 50-130 |
| DECACHLOROBIPHENYL | 4.834\|(10.12) | 6.060 | 79.8\|(167*) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/12/12 15:04 |
| Sample ID: SL-111-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 15:40 |
| Lab Samp ID: D004-06 | Dilution Factor: 1 |
| Lab File ID: LD26018A | Matrix : SOIL |
| Ext Btch ID: CPD030S | % Moisture : 20.7 |
| Calib. Ref.: LD26004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.35 \| (ND) | 0.21 | 0.11 \| 0.11 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.44 | 0.21 | 0.11 \| 0.11 |
| BETA-BHC | (ND) \| 0.62 | 0.21 | 0.11 \| 0.11 |
| HEPTACHLOR | 0.36 \| (ND) | 0.21 | 0.11 \| 0.11 |
| DELTA-BHC | (ND) \| ND | 0.21 | 0.11 \| 0.11 |
| ALDRIN | (ND) \| 0.26 | 0.21 | 0.11 \| 0.11 |
| HEPTACHLOR EPOXIDE | 0.16J \| (ND) | 0.21 | 0.11 \| 0.11 |
| ENDOSULFAN I | 0.12J \| (ND) | 0.21 | 0.11 \| 0.11 |
| 4,4'-DDE | (1.5) \| 1.4 | 0.43 | 0.21 \| 0.21 |
| DIELDRIN | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| ENDRIN | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| 4,4'-DDD | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| ENDOSULFAN II | 0.41J \| (ND) | 0.43 | 0.21 \| 0.21 |
| 4,4'-DDT | (2.2) \| 2.0 | 0.43 | 0.21 \| 0.21 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| ENDRIN KETONE | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| METHOXYCHLOR | (ND) \| 1.7J | 2.1 | 1.1 \| 1.1 |
| MIREX | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| TOXAPHENE | (ND) \| ND | 8.3 | 4.2 \| 4.2 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.3 | 2.1 \| 2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.193 \| (5.742) | 6.725 | 77.2 \| (85.4) | 50-130 |
| DECACHLOROBIPHENYL | 4.933 \| (5.475) | 6.725 | 73.4 \| (81.4) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/12/12 15:04 |
| Sample ID: SL-112-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 16:01 |
| Lab Samp ID: D004-07 | Dilution Factor: 1 |
| Lab File ID: LD26019A | Matrix : SOIL |
| Ext Btch ID: CPD030S | % Moisture : 9.4 |
| Calib. Ref.: LD26004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| BETA-BHC | 1.9 \| (ND) | 0.19 | 0.094 \| 0.094 |
| HEPTACHLOR | 0.35 \| (ND) | 0.19 | 0.094 \| 0.094 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| ALDRIN | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| ENDOSULFAN I | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| 4,4'-DDE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN II | (ND) \| 0.21J | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDT | 0.22J \| (ND) | 0.38 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| ND | 1.9 | 0.94 \| 0.94 |
| MIREX | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.3 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.8 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.250 \| (5.663) | 5.886 | 72.2 \| (96.2) | 50-130 |
| DECACHLOROBIPHENYL | 4.286 \| (4.964) | 5.886 | 72.8 \| (84.3) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/12/12 15:04 |
| Sample ID: SL-113-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 16:23 |
| Lab Samp ID: D004-08 | Dilution Factor: 1 |
| Lab File ID: LD26020A | Matrix : SOIL |
| Ext Btch ID: CPD030S | % Moisture : 8.6 |
| Calib. Ref.: LD26004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.30 | 0.19 | 0.093\|0.093 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.19 | 0.093\|0.093 |
| BETA-BHC | (ND)\|ND | 0.19 | 0.093\|0.093 |
| HEPTACHLOR | 0.34\|(ND) | 0.19 | 0.093\|0.093 |
| DELTA-BHC | (ND)\|ND | 0.19 | 0.093\|0.093 |
| ALDRIN | (ND)\|ND | 0.19 | 0.093\|0.093 |
| HEPTACHLOR EPOXIDE | 0.21\|(ND) | 0.19 | 0.093\|0.093 |
| ENDOSULFAN I | (ND)\|0.18J | 0.19 | 0.093\|0.093 |
| 4,4'-DDE | 0.29J\|(ND) | 0.37 | 0.19\|0.19 |
| DIELDRIN | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.37 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDOSULFAN II | (ND)\|ND | 0.37 | 0.19\|0.19 |
| 4,4'-DDT | 0.36J\|(0.41) | 0.37 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | 0.19J\|(ND) | 0.37 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| METHOXYCHLOR | (ND)\|ND | 1.9 | 0.93\|0.93 |
| MIREX | (ND)\|ND | 0.37 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.2 | 3.6\|3.6 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.442\|(5.672) | 5.835 | 76.1\|(97.2) | 50-130 |
| DECACHLOROBIPHENYL | 4.794\|(7.441) | 5.835 | 82.2\|(128*) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/12/12 15:04 |
| Sample ID: SL-138-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 16:44 |
| Lab Samp ID: D004-09 | Dilution Factor: 1 |
| Lab File ID: LD26021A | Matrix : SOIL |
| Ext Btch ID: CPD030S | % Moisture : 11.4 |
| Calib. Ref.: LD26004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.33 | 0.19 | 0.096\|0.096 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.19 | 0.096\|0.096 |
| BETA-BHC | (ND)\|ND | 0.19 | 0.096\|0.096 |
| HEPTACHLOR | 0.39\|(ND) | 0.19 | 0.096\|0.096 |
| DELTA-BHC | (ND)\|ND | 0.19 | 0.096\|0.096 |
| ALDRIN | (ND)\|ND | 0.19 | 0.096\|0.096 |
| HEPTACHLOR EPOXIDE | 0.18J\|(ND) | 0.19 | 0.096\|0.096 |
| ENDOSULFAN I | (ND)\|0.33 | 0.19 | 0.096\|0.096 |
| 4,4'-DDE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| DIELDRIN | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.38 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDOSULFAN II | (ND)\|ND | 0.38 | 0.19\|0.19 |
| 4,4'-DDT | 0.34J\|(0.37J) | 0.38 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | 0.23J\|(ND) | 0.38 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| METHOXYCHLOR | (ND)\|ND | 1.9 | 0.96\|0.96 |
| MIREX | (ND)\|ND | 0.38 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.4 | 3.7\|3.7 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.196\|(5.372) | 6.019 | 69.7\|(89.3) | 50-130 |
| DECACHLOROBIPHENYL | 4.552\|(5.475) | 6.019 | 75.6\|(91.0) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/12/12 15:04 |
| Sample ID: SL-194-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 17:06 |
| Lab Samp ID: D004-10 | Dilution Factor: 1 |
| Lab File ID: LD26022A | Matrix : SOIL |
| Ext Btch ID: CPD030S | % Moisture : 11.1 |
| Calib. Ref.: LD26004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.19 | 0.19 | 0.096\|0.096 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.19 | 0.096\|0.096 |
| BETA-BHC | (ND)\|ND | 0.19 | 0.096\|0.096 |
| HEPTACHLOR | 0.43\|(ND) | 0.19 | 0.096\|0.096 |
| DELTA-BHC | (ND)\|ND | 0.19 | 0.096\|0.096 |
| ALDRIN | (ND)\|ND | 0.19 | 0.096\|0.096 |
| HEPTACHLOR EPOXIDE | 0.50\|(ND) | 0.19 | 0.096\|0.096 |
| ENDOSULFAN I | (ND)\|ND | 0.19 | 0.096\|0.096 |
| 4,4'-DDE | (0.69)\|0.39 | 0.38 | 0.19\|0.19 |
| DIELDRIN | 0.32J\|(ND) | 0.38 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.38 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDOSULFAN II | (ND)\|ND | 0.38 | 0.19\|0.19 |
| 4,4'-DDT | 0.29J\|(0.84) | 0.38 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | 0.19J\|(ND) | 0.38 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| METHOXYCHLOR | (ND)\|ND | 1.9 | 0.96\|0.96 |
| MIREX | (ND)\|ND | 0.38 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.4 | 3.7\|3.7 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.520\|(5.448) | 5.999 | 75.3\|(90.8) | 50-130 |
| DECACHLOROBIPHENYL | 4.801\|(5.020) | 5.999 | 80.0\|(83.7) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D004 | Date Extracted: 04/12/12 15:04 |
| Sample ID: MBLK1S | Date Analyzed: 04/26/12 12:07 |
| Lab Samp ID: CPD030SB | Dilution Factor: 1 |
| Lab File ID: LD26008A | Matrix : SOIL |
| Ext Btch ID: CPD030S | % Moisture : NA |
| Calib. Ref.: LD26004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| BETA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| HEPTACHLOR | 0.14J \| (ND) | 0.17 | 0.085 \| 0.085 |
| DELTA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| ALDRIN | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| ENDOSULFAN I | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| 4,4'-DDE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| DIELDRIN | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| 4,4'-DDD | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDOSULFAN II | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| 4,4'-DDT | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN KETONE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| METHOXYCHLOR | (ND) \| ND | 1.7 | 0.85 \| 0.85 |
| MIREX | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| TOXAPHENE | (ND) \| ND | 6.6 | 3.3 \| 3.3 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.4 | 1.7 \| 1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.766 \| (4.832) | 5.333 | 89.4 \| (90.6) | 50-130 |
| DECACHLOROBIPHENYL | (5.077) \| 5.029 | 5.333 | (95.2) \| 94.3 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPD030SB CPD030SL CPD030SC
LAB FILE ID: LD26008A LD26009A LD26010A
DATE EXTRACTED: 04/12/1215:04 04/12/1215:04 04/12/1215:04 DATE COLLECTED: NA
DATE ANALYZED: 04/26/1212:07 04/26/1212:29 04/26/1212:50 DATE RECEIVED: 04/12/12
PREP. BATCH: CPD030S CPD030S CPD030S
CALIB. REF: LD26004A LD26004A LD26004A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND) \| ND | 2.67 | 2.29 \| (2.35) | 86 \| (88) | 2.67 | 2.29 \| (2.35) | 86 \| (88) | 0 \| (0) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND) \| ND | 2.67 | 2.23 \| (2.36) | 84 \| (88) | 2.67 | 2.22 \| (2.32) | 83 \| (87) | 0 \| (2) | 40-130 | 50 |
| beta-BHC | (ND) \| ND | 2.67 | (2.63) \| 2.34 | (99) \| 88 | 2.67 | (2.63) \| 2.10 | (99) \| 79 | (0) \| 11 | 50-140 | 50 |
| Heptachlor | 0.14J \| (ND) | 2.67 | (2.44) \| 2.39 | (91) \| 90 | 2.67 | (2.43) \| 2.36 | (91) \| 88 | (0) \| 1 | 30-130 | 50 |
| delta-BHC | (ND) \| ND | 2.67 | 2.51 \| (2.65) | 94 \| (99) | 2.67 | 2.52 \| (2.56) | 94 \| (96) | 0 \| (3) | 30-150 | 50 |
| Aldrin | (ND) \| ND | 2.67 | 2.15 \| (2.25) | 81 \| (84) | 2.67 | 2.11 \| (2.17) | 79 \| (81) | 2 \| (4) | 30-130 | 50 |
| Heptachlor Epoxide | (ND) \| ND | 2.67 | 2.27 \| (2.34) | 85 \| (88) | 2.67 | (2.28) \| 2.22 | (85) \| 83 | (0) \| 5 | 60-140 | 50 |
| Endosulfan I | (ND) \| ND | 2.67 | 1.92 \| (2.25) | 72 \| (84) | 2.67 | 1.91 \| (2.19) | 72 \| (82) | 1 \| (3) | 50-150 | 50 |
| 4,4'-DDE | (ND) \| ND | 2.67 | (2.49) \| 2.38 | (93) \| 89 | 2.67 | (2.48) \| 2.38 | (93) \| 89 | (0) \| 0 | 50-150 | 50 |
| Dieldrin | (ND) \| ND | 2.67 | (2.49) \| 2.22 | (93) \| 83 | 2.67 | (2.52) \| 2.22 | (94) \| 83 | (1) \| 0 | 60-130 | 50 |
| Endrin | (ND) \| ND | 2.67 | (2.37) \| 2.26 | (89) \| 85 | 2.67 | (2.45) \| 2.26 | (92) \| 85 | (3) \| 0 | 50-140 | 50 |
| 4,4'-DDD | (ND) \| ND | 2.67 | (2.40) \| 2.25 | (90) \| 84 | 2.67 | (2.49) \| 2.26 | (93) \| 85 | (4) \| 0 | 50-160 | 50 |
| Endosulfan II | (ND) \| ND | 2.67 | (2.44) \| 2.38 | (91) \| 89 | 2.67 | (2.51) \| 2.42 | (94) \| 91 | (3) \| 2 | 60-150 | 50 |
| 4,4'-DDT | (ND) \| ND | 2.67 | (2.89) \| 2.48 | (108) \| 93 | 2.67 | (2.92) \| 2.49 | (109) \| 93 | (1) \| 0 | 60-140 | 50 |
| Endrin aldehyde | (ND) \| ND | 2.67 | (2.40) \| 2.29 | (90) \| 86 | 2.67 | (2.37) \| 2.25 | (89) \| 84 | (1) \| 2 | 50-160 | 50 |
| Endosulfan Sulfate | (ND) \| ND | 2.67 | (2.61) \| 2.55 | (98) \| 96 | 2.67 | (2.62) \| 2.55 | (98) \| 96 | (0) \| 0 | 70-140 | 50 |
| Endrin Ketone | (ND) \| ND | 2.67 | (2.52) \| 2.48 | (94) \| 93 | 2.67 | (2.54) \| 2.45 | (95) \| 92 | (1) \| 1 | 70-160 | 50 |
| Methoxychlor | (ND) \| ND | 26.7 | 24.9 \| (25.1) | 93 \| (94) | 26.7 | 25.3 \| (25.4) | 95 \| (95) | 2 \| (1) | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 4.508 \| (4.568) | 84.5 \| (85.7) | 5.333 | 4.523 \| (4.613) | 84.8 \| (86.5) | 50-130 |
| Decachlorobiphenyl | 5.333 | (4.887) \| 4.823 | (91.6) \| 90.4 | 5.333 | 4.891 \| (4.905) | 91.7 \| (92.0) | 20-120 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: 7.0

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-026-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D004-02 | D004-02M | D004-02S | | |
| LAB FILE ID: | LD26012A | LD26013A | LD26014A | | |
| DATE EXTRACTED: | 04/12/1215:04 | 04/12/1215:04 | 04/12/1215:04 | DATE COLLECTED: | 04/02/12 |
| DATE ANALYZED: | 04/26/1213:32 | 04/26/1213:54 | 04/26/1214:15 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | CPD030S | CPD030S | CPD030S | | |
| CALIB. REF: | LD26004A | LD26004A | LD26004A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND) \| ND | 2.87 | (2.59) \| 2.54 | (90) \| 88 | 2.87 | 2.55 \| (2.58) | 89 \| (90) | 2 \| (2) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND) \| 0.12J | 2.87 | 2.38 \| (2.50) | 83 \| (83) | 2.87 | 2.37 \| (2.58) | 83 \| (86) | 0 \| (3) | 20-150 | 50 |
| beta-BHC | (ND) \| ND | 2.87 | (3.01) \| 2.50 | (105) \| 87 | 2.87 | (3.03) \| 2.18 | (106) \| 76 | (1) \| 14 | 50-140 | 50 |
| Heptachlor | 0.46 \| (ND) | 2.87 | 2.74 \| (2.47) | 79 \| (86) | 2.87 | 2.62 \| (2.43) | 75 \| (85) | 4 \| (2) | 20-140 | 50 |
| delta-BHC | (ND) \| ND | 2.87 | 2.84 \| (3.06) | 99 \| (107) | 2.87 | 2.88 \| (4.22) | 100 \| (147) | 1 \| (32) | 30-150 | 50 |
| Aldrin | (ND) \| ND | 2.87 | (2.32) \| 2.06 | (81) \| 72 | 2.87 | 2.23 \| (2.24) | 78 \| (78) | 4 \| (8) | 20-160 | 50 |
| Heptachlor Epoxide | (ND) \| ND | 2.87 | (2.56) \| 2.24 | (89) \| 78 | 2.87 | (2.38) \| 2.37 | (83) \| 83 | (7) \| 6 | 40-140 | 50 |
| Endosulfan I | (ND) \| ND | 2.87 | 1.84 \| (2.12) | 64 \| (74) | 2.87 | 1.64 \| (2.15) | 57 \| (75) | 11 \| (1) | 50-160 | 50 |
| 4,4'-DDE | (ND) \| 0.19J | 2.87 | (2.69) \| 2.90 | (94) \| 94 | 2.87 | (2.39) \| 2.45 | (83) \| 79 | (12) \| 17 | 50-150 | 50 |
| Dieldrin | (ND) \| ND | 2.87 | 2.46 \| (2.80) | 86 \| (98) | 2.87 | (2.84) \| 2.30 | (99) \| 80 | (14) \| 20 | 10-160 | 50 |
| Endrin | (ND) \| ND | 2.87 | (2.43) \| 2.26 | (85) \| 79 | 2.87 | (2.49) \| 2.02 | (87) \| 70 | (2) \| 11 | 20-160 | 50 |
| 4,4'-DDD | (ND) \| 1.2 | 2.87 | (2.27) \| 3.40 | (79) \| 77 | 2.87 | (2.31) \| 3.11 | (80) \| 67 | (2) \| 9 | 50-160 | 50 |
| Endosulfan II | 0.69 \| (ND) | 2.87 | 3.83 \| (2.26) | 109 \| (79) | 2.87 | 3.59 \| (2.22) | 101 \| (77) | 6 \| (2) | 40-160 | 50 |
| 4,4'-DDT | (ND) \| ND | 2.87 | (3.61) \| 2.59 | (126) \| 90 | 2.87 | (3.50) \| 2.72 | (122) \| 95 | (3) \| 5 | 30-160 | 50 |
| Endrin aldehyde | (ND) \| ND | 2.87 | (2.86) \| 2.11 | (100) \| 73 | 2.87 | 1.91 \| (2.38) | 67 \| (83) | 40 \| (12) | 50-140 | 50 |
| Endosulfan Sulfate | 2.9 \| (ND) | 2.87 | 5.67 \| (3.62) | 96 \| (126) | 2.87 | 5.00 \| (3.66) | 73 \| (127) | 13 \| (1) | 40-160 | 50 |
| Endrin Ketone | (ND) \| ND | 2.87 | (2.71) \| 2.24 | (94) \| 78 | 2.87 | (2.23) \| 2.19 | (78) \| 76 | (19) \| 2 | 50-160 | 50 |
| Methoxychlor | 2.0 \| (ND) | 28.7 | 27.4 \| (26.0) | 88 \| (91) | 28.7 | 26.0 \| (25.7) | 84 \| (90) | 5 \| (1) | 60-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.734 | 4.647 \| (5.278) | 81.0 \| (92.0) | 5.734 | 4.528 \| (5.256) | 79.0 \| (91.7) | 50-130 |
| Decachlorobiphenyl | 5.734 | 4.429 \| (5.590) | 77.2 \| (97.5) | 5.734 | 4.387 \| (4.825) | 76.5 \| (84.1) | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/12/12 11:03 |
| Sample ID: SL-025-NBZ-SS-0.0-0.5 | Date Analyzed: 04/16/12 09:44 |
| Lab Samp ID: D004-01 | Dilution Factor: 1 |
| Lab File ID: KD12099A | Matrix : SOIL |
| Ext Btch ID: CPD029S | % Moisture : 8.2 |
| Calib. Ref.: KD12092A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.901)\|4.781 | 5.809 | (119)\|82.3 | 45-120 |
| TETRACHLORO-M-XYLENE | (8.027)\|5.401 | 5.809 | (138)\|93.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/12/12 11:03 |
| Sample ID: SL-026-NBZ-SS-0.0-0.5 | Date Analyzed: 04/16/12 10:38 |
| Lab Samp ID: D004-02 | Dilution Factor: 1 |
| Lab File ID: KD12100A | Matrix : SOIL |
| Ext Btch ID: CPD029S | % Moisture : 7.0 |
| Calib. Ref.: KD12092A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.567)\|4.784 | 5.734 | (115)\|83.4 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.337)\|4.770 | 5.734 | (128)\|83.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/12/12 11:03 |
| Sample ID: SL-027-NBZ-SS-0.0-0.5 | Date Analyzed: 04/16/12 13:20 |
| Lab Samp ID: D004-03 | Dilution Factor: 1 |
| Lab File ID: KD12103A | Matrix : SOIL |
| Ext Btch ID: CPD029S | % Moisture : 14.0 |
| Calib. Ref.: KD12092A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5460 | (3.5J)\|3.4J | 3.8 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.049)\|5.139 | 6.201 | (114)\|82.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (8.361)\|5.765 | 6.201 | (135)\|93.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/12/12 11:03 |
| Sample ID: SL-028-NBZ-SS-0.0-0.5 | Date Analyzed: 04/16/12 14:14 |
| Lab Samp ID: D004-04 | Dilution Factor: 1 |
| Lab File ID: KD12104A | Matrix : SOIL |
| Ext Btch ID: CPD029S | % Moisture : 9.2 |
| Calib. Ref.: KD12092A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.349)\|4.644 | 5.873 | (108)\|79.1 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.595)\|4.512 | 5.873 | (112)\|76.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/12/12 11:03 |
| Sample ID: SL-107-NBZ-SS-0.0-0.5 | Date Analyzed: 04/16/12 15:09 |
| Lab Samp ID: D004-05 | Dilution Factor: 1 |
| Lab File ID: KD12105A | Matrix : SOIL |
| Ext Btch ID: CPD029S | % Moisture : 12.0 |
| Calib. Ref.: KD12092A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (2.2J)\|2.1J | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.069)\|5.147 | 6.060 | (117)\|84.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (8.400)\|5.452 | 6.060 | (139)\|90.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/02/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/02/12 |
| Batch No. | : 12D004 | Date Extracted | : 04/12/12 11:03 |
| Sample ID | : SL-111-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/16/12 19:06 |
| Lab Samp ID | : D004-06 | Dilution Factor | : 1 |
| Lab File ID | : KD12111A | Matrix | : SOIL |
| Ext Btch ID | : CPD029S | % Moisture | : 20.7 |
| Calib. Ref. | : KD12107A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1221 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1232 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1242 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1248 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1254 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1260 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1262 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1268 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 5432 | (ND)\|ND | 4.2 | 2.1\|2.1 |
| AROCLOR 5442 | (ND)\|ND | 4.2 | 2.1\|2.1 |
| AROCLOR 5460 | (3.9J)\|3.3J | 4.2 | 2.1\|2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 8.352\|(6.045) | 6.725 | 124*\|(89.9) | 45-120 |
| TETRACHLORO-M-XYLENE | (9.092)\|6.411 | 6.725 | (135)\|95.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/12/12 11:03 |
| Sample ID: SL-112-NBZ-SS-0.0-0.5 | Date Analyzed: 04/16/12 20:01 |
| Lab Samp ID: D004-07 | Dilution Factor: 1 |
| Lab File ID: KD12112A | Matrix : SOIL |
| Ext Btch ID: CPD029S | % Moisture : 9.4 |
| Calib. Ref.: KD12107A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.015)\|5.040 | 5.886 | (119)\|85.6 | 45-120 |
| TETRACHLORO-M-XYLENE | (8.124)\|5.402 | 5.886 | (138)\|91.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/12/12 11:03 |
| Sample ID: SL-113-NBZ-SS-0.0-0.5 | Date Analyzed: 04/16/12 20:55 |
| Lab Samp ID: D004-08 | Dilution Factor: 1 |
| Lab File ID: KD12113A | Matrix : SOIL |
| Ext Btch ID: CPD029S | % Moisture : 8.6 |
| Calib. Ref.: KD12107A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.047\|(5.101) | 5.835 | 121*\|(87.4) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.993)\|5.252 | 5.835 | (137)\|90.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/12/12 11:03 |
| Sample ID: SL-138-NBZ-SS-0.0-0.5 | Date Analyzed: 04/16/12 21:49 |
| Lab Samp ID: D004-09 | Dilution Factor: 1 |
| Lab File ID: KD12114A | Matrix : SOIL |
| Ext Btch ID: CPD029S | % Moisture : 11.4 |
| Calib. Ref.: KD12107A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.152)\|5.086 | 6.019 | (119)\|84.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (9.115)\|5.657 | 6.019 | (151)\|94.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/02/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/02/12 |
| Batch No. | : 12D004 | Date Extracted | : 04/12/12 11:03 |
| Sample ID | : SL-194-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/16/12 22:43 |
| Lab Samp ID | : D004-10 | Dilution Factor | : 1 |
| Lab File ID | : KD12115A | Matrix | : SOIL |
| Ext Btch ID | : CPD029S | % Moisture | : 11.1 |
| Calib. Ref. | : KD12107A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.479\|(5.431) | 5.999 | 125*\|(90.5) | 45-120 |
| TETRACHLORO-M-XYLENE | (8.198)\|5.211 | 5.999 | (137)\|86.9 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D004 | Date Extracted: 04/12/12 11:03 |
| Sample ID: MBLK1S | Date Analyzed: 04/16/12 07:02 |
| Lab Samp ID: 60D029SB | Dilution Factor: 1 |
| Lab File ID: KD12096A | Matrix : SOIL |
| Ext Btch ID: CPD029S | % Moisture : NA |
| Calib. Ref.: KD12092A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 6.525\|(4.772) | 5.333 | 122*\|(89.5) | 45-120 |
| TETRACHLORO-M-XYLENE | (6.364)\|5.502 | 5.333 | (119)\|103 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60D029SB | 60D029SL | 60D029SC | | |
| LAB FILE ID: | KD12096A | KD12097A | KD12098A | | |
| DATE EXTRACTED: | 04/12/1211:03 | 04/12/1211:03 | 04/12/1211:03 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/16/1207:02 | 04/16/1207:56 | 04/16/1208:50 | DATE RECEIVED: | 04/12/12 |
| PREP. BATCH: | CPD029S | CPD029S | CPD029S | | |
| CALIB. REF: | KD12092A | KD12092A | KD12092A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (65.9)\|57.2 | (99)\|86 | 66.7 | (65.9)\|56.8 | (99)\|85 | (0)\|1 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (77.6)\|60.5 | (116)\|91 | 66.7 | (77.2)\|60.0 | (116)\|90 | (1)\|1 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | (66.0)\|64.3 | (99)\|96 | 66.7 | (67.2)\|65.9 | (101)\|99 | (2)\|2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | 6.527\|(4.776) | 122*\|(89.6) | 5.333 | 6.541\|(4.788) | 123*\|(89.8) | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (6.401)\|5.463 | (120)\|102 | 5.333 | (6.628)\|5.625 | (124)\|105 | 10-160 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 7.0

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-026-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D004-02 | D004-02M | D004-02S | | |
| LAB FILE ID: | KD12100A | KD12101A | KD12102A | | |
| DATE EXTRACTED: | 04/12/1211:03 | 04/12/1211:03 | 04/12/1211:03 | DATE COLLECTED: | 04/02/12 |
| DATE ANALYZED: | 04/16/1210:38 | 04/16/1211:32 | 04/16/1212:26 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | CPD029S | CPD029S | CPD029S | | |
| CALIB. REF: | KD12092A | KD12092A | KD12092A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 71.7 | (79.7)\|65.2 | (111)\|91 | 71.7 | (78.9)\|60.2 | (110)\|84 | (1)\|8 | 20-160 | 50 |
| Aroclor 1260 | (ND)\|ND | 71.7 | (82.9)\|80.5 | (116)\|112 | 71.7 | (81.8)\|75.8 | (114)\|106 | (1)\|6 | 20-160 | 50 |
| Aroclor 5460 | (ND)\|ND | 71.7 | (79.0)\|78.8 | (110)\|110 | 71.7 | 73.2\|(74.1) | 102\|(103) | 8\|(6) | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.734 | 7.193\|(5.131) | 125*\|(89.5) | 5.734 | 7.058\|(5.095) | 123*\|(88.8) | 45-120 |
| Tetrachloro-m-xylene | 5.734 | (8.640)\|5.388 | (151)\|94.0 | 5.734 | (8.227)\|5.350 | (143)\|93.3 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/07/12 11:15 |
| Sample ID: SL-025-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 08:19 |
| Lab Samp ID: D004-01 | Dilution Factor: 1 |
| Lab File ID: WD09059A | Matrix : SOIL |
| Ext Btch ID: HED004S | % Moisture : 8.2 |
| Calib. Ref.: WD09050A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| 2,4,5-T | (ND)\|0.42 | 0.19 | 0.093\|0.093 |
| 2,4,5-TP(SILVEX) | 0.21\|(ND) | 0.19 | 0.093\|0.093 |
| DALAPON | (ND)\|ND | 9.8 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.65\|0.65 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (71.51)\|54.83 | 163.4 | (43.8)\|33.6 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/07/12 11:15 |
| Sample ID: SL-026-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 08:42 |
| Lab Samp ID: D004-02 | Dilution Factor: 1 |
| Lab File ID: WD09060A | Matrix : SOIL |
| Ext Btch ID: HED004S | % Moisture : 7.0 |
| Calib. Ref.: WD09050A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 1.9\|1.9 |
| 2,4-DB | (ND)\|ND | 1.8 | 0.91\|0.91 |
| 2,4,5-T | (ND)\|0.80 | 0.18 | 0.091\|0.091 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.18 | 0.091\|0.091 |
| DALAPON | (ND)\|ND | 9.7 | 4.8\|4.8 |
| DICAMBA | (ND)\|ND | 1.3 | 0.65\|0.65 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.8 | 0.91\|0.91 |
| MCPA | 1100\|(ND) | 270 | 130\|130 |
| MCPP | (ND)\|220J | 270 | 130\|130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (146.0)\|116.4 | 161.3 | (90.5)\|72.2 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/07/12 11:15 |
| Sample ID: SL-027-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 09:47 |
| Lab Samp ID: D004-03 | Dilution Factor: 1 |
| Lab File ID: WD09063A | Matrix : SOIL |
| Ext Btch ID: HED004S | % Moisture : 14.0 |
| Calib. Ref.: WD09062A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 0.99\|0.99 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.099\|0.099 |
| 2,4,5-TP(SILVEX) | (ND)\|0.21 | 0.20 | 0.099\|0.099 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.70\|0.70 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 0.99\|0.99 |
| MCPA | (ND)\|ND | 290 | 150\|150 |
| MCPP | (ND)\|ND | 290 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (89.69)\|69.37 | 174.4 | (51.4)\|39.8 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/07/12 11:15 |
| Sample ID: SL-028-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 10:08 |
| Lab Samp ID: D004-04 | Dilution Factor: 1 |
| Lab File ID: WD09064A | Matrix : SOIL |
| Ext Btch ID: HED004S | % Moisture : 9.2 |
| Calib. Ref.: WD09062A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.94\|0.94 |
| 2,4,5-T | (ND)\|0.33 | 0.19 | 0.094\|0.094 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.094\|0.094 |
| DALAPON | (ND)\|ND | 9.9 | 5.0\|5.0 |
| DICAMBA | (ND)\|ND | 1.3 | 0.66\|0.66 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.94\|0.94 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|200J | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (103.3)\|83.72 | 165.2 | (62.6)\|50.7 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/07/12 11:15 |
| Sample ID: SL-107-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 10:29 |
| Lab Samp ID: D004-05 | Dilution Factor: 1 |
| Lab File ID: WD09065A | Matrix : SOIL |
| Ext Btch ID: HED004S | % Moisture : 12.0 |
| Calib. Ref.: WD09062A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.097\|0.097 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.097\|0.097 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.68\|0.68 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| MCPA | 1500\|(ND) | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (93.72)\|73.20 | 170.5 | (55.0)\|42.9 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/07/12 11:15 |
| Sample ID: SL-111-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 10:51 |
| Lab Samp ID: D004-06 | Dilution Factor: 1 |
| Lab File ID: WD09066A | Matrix : SOIL |
| Ext Btch ID: HED004S | % Moisture : 20.7 |
| Calib. Ref.: WD09062A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.5 | 2.3\|2.3 |
| 2,4-DB | (ND)\|ND | 2.1 | 1.1\|1.1 |
| 2,4,5-T | (ND)\|ND | 0.21 | 0.11\|0.11 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.21 | 0.11\|0.11 |
| DALAPON | (ND)\|ND | 11 | 5.7\|5.7 |
| DICAMBA | (ND)\|ND | 1.5 | 0.76\|0.76 |
| DICHLOROPROP | (ND)\|ND | 3.0 | 1.5\|1.5 |
| DINOSEB | (ND)\|ND | 2.1 | 1.1\|1.1 |
| MCPA | (ND)\|ND | 320 | 160\|160 |
| MCPP | (ND)\|ND | 320 | 160\|160 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (74.80)\|58.59 | 189.2 | (39.5)\|31.0 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/07/12 11:15 |
| Sample ID: SL-112-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 11:12 |
| Lab Samp ID: D004-07 | Dilution Factor: 1 |
| Lab File ID: WD09067A | Matrix : SOIL |
| Ext Btch ID: HED004S | % Moisture : 9.4 |
| Calib. Ref.: WD09062A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | 4.0 \| (ND) | 4.0 | 2.0 \| 2.0 |
| 2,4-DB | (ND) \| ND | 1.9 | 0.94 \| 0.94 |
| 2,4,5-T | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| 2,4,5-TP(SILVEX) | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| DALAPON | (ND) \| ND | 9.9 | 5.0 \| 5.0 |
| DICAMBA | (ND) \| 0.88J | 1.3 | 0.66 \| 0.66 |
| DICHLOROPROP | (ND) \| ND | 2.6 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.9 | 0.94 \| 0.94 |
| MCPA | (ND) \| 2100 | 280 | 140 \| 140 |
| MCPP | (ND) \| ND | 280 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (53.34) \| 39.37 | 165.6 | (32.2) \| 23.8 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/07/12 11:15 |
| Sample ID: SL-113-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 11:33 |
| Lab Samp ID: D004-08 | Dilution Factor: 1 |
| Lab File ID: WD09068A | Matrix : SOIL |
| Ext Btch ID: HED004S | % Moisture : 8.6 |
| Calib. Ref.: WD09062A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.093\|0.093 |
| 2,4,5-TP(SILVEX) | 0.28\|(ND) | 0.19 | 0.093\|0.093 |
| DALAPON | (ND)\|ND | 9.8 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.66\|0.66 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| MCPA | 1200\|(ND) | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (66.64)\|52.28 | 164.1 | (40.6)\|31.9 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/07/12 11:15 |
| Sample ID: SL-138-NBZ-SS-0.0-0.5 | Date Analyzed: 04/10/12 11:55 |
| Lab Samp ID: D004-09 | Dilution Factor: 1 |
| Lab File ID: WD09069A | Matrix : SOIL |
| Ext Btch ID: HED004S | % Moisture : 11.4 |
| Calib. Ref.: WD09062A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| 2,4,5-T | (ND)\|2.2 | 0.19 | 0.096\|0.096 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.096\|0.096 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.68\|0.68 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| MCPA | 1500\|(ND) | 280 | 140\|140 |
| MCPP | (ND)\|310 | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (83.12)\|62.61 | 169.3 | (49.1)\|37.0 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/02/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/02/12 |
| Batch No. | : 12D004 | Date Extracted | : 04/07/12 11:15 |
| Sample ID | : SL-194-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/10/12 12:16 |
| Lab Samp ID | : D004-10 | Dilution Factor | : 1 |
| Lab File ID | : WD09070A | Matrix | : SOIL |
| Ext Btch ID | : HED004S | % Moisture | : 11.1 |
| Calib. Ref. | : WD09062A | Instrument ID | : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 4.0 | 2.0 \| 2.0 |
| 2,4-DB | (ND) \| ND | 1.9 | 0.96 \| 0.96 |
| 2,4,5-T | 0.16J \| (ND) | 0.19 | 0.096 \| 0.096 |
| 2,4,5-TP(SILVEX) | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| DALAPON | (ND) \| ND | 10 | 5.1 \| 5.1 |
| DICAMBA | (ND) \| 0.86J | 1.3 | 0.67 \| 0.67 |
| DICHLOROPROP | (ND) \| ND | 2.7 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.9 | 0.96 \| 0.96 |
| MCPA | (ND) \| ND | 280 | 140 \| 140 |
| MCPP | (ND) \| ND | 280 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (91.25) \| 73.01 | 168.7 | (54.1) \| 43.3 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/07/12 |
| Batch No. : 12D004 | Date Extracted: 04/07/12 11:15 |
| Sample ID: MBLK1S | Date Analyzed: 04/09/12 19:22 |
| Lab Samp ID: HED004SB | Dilution Factor: 1 |
| Lab File ID: WD09026A | Matrix : SOIL |
| Ext Btch ID: HED004S | % Moisture : NA |
| Calib. Ref.: WD09020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (153.5)\|134.2 | 150.0 | (102)\|89.5 | 10-150 |

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Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: METHOD 8151A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HED004SB | HED004SL | HED004SC | | |
| LAB FILE ID: | WD09026A | WD09025A | WD09024A | | |
| DATE EXTRACTED: | 04/07/1211:15 | 04/07/1211:15 | 04/07/1211:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/09/1219:22 | 04/09/1218:59 | 04/09/1218:35 | DATE RECEIVED: | 04/07/12 |
| PREP. BATCH: | HED004S | HED004S | HED004S | | |
| CALIB. REF: | WD09020A | WD09020A | WD09020A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | (9.11)\|6.01 | (61)\|40 | 15.0 | (11.8)\|9.71 | (79)\|65 | (26)\|47 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 4.85\|(11.8) | 32\|(79) | 15.0 | 8.34\|(11.4) | 56\|(76) | 53*\|(3) | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | 9.55\|(10.8) | 64\|(72) | 15.0 | 11.5\|(11.9) | 77\|(79) | 19\|(10) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 15.0 | 17.1\|(18.9) | 114\|(126) | 15.0 | (16.0)\|14.0 | (107)\|93 | (7)\|30 | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | (21.3)\|10.4 | (142)\|69 | 15.0 | (15.9)\|11.8 | (106)\|79 | (29)\|13 | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (10.1)\|9.13 | (67)\|61 | 15.0 | (12.4)\|11.5 | (83)\|77 | (20)\|23 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | 11.8\|(13.3) | 79\|(89) | 15.0 | 13.9\|(16.1) | 93\|(107) | 16\|(19) | 60-160 | 50 |
| Dinoseb | (ND)\|ND | 15.0 | (12.0)\|10.8 | (80)\|72 | 15.0 | (11.5)\|10.0 | (77)\|67 | (4)\|8 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (741)\|347 | (99)\|46 | 750 | (858)\|504 | (114)\|67 | (15)\|37 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | (467)\|350 | (62)\|47 | 750 | (531)\|441 | (71)\|59 | (13)\|23 | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 | (112.5)\|93.82 | (75.0)\|62.5 | 150.0 | (134.8)\|117.1 | (89.9)\|78.1 | 10-150 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: 11.1
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-194-NBZ-SS-0.0-0.5
LAB SAMP ID: D004-10 D004-10M D004-10S
LAB FILE ID: WD09070A WD09071A WD09072A
DATE EXTRACTED: 04/07/1211:15 04/07/1211:15 04/07/1211:15 DATE COLLECTED: 04/02/12
DATE ANALYZED: 04/10/1212:16 04/10/1212:37 04/10/1212:59 DATE RECEIVED: 04/02/12
PREP. BATCH: HED004S HED004S HED004S
CALIB. REF: WD09062A WD09062A WD09062A

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 16.9 | (5.92)\|8.60 | (35)\|51 | 16.9 | (6.05)\|3.97J | (36)\|24* | (2)\|74* | 30-140 | 50 |
| 2,4-DB | (ND)\|ND | 16.9 | 9.99\|(8.09) | 59\|(48) | 16.9 | 3.41\|(8.26) | 20*\|(49) | 98*\|(2) | 30-160 | 50 |
| 2,4,5-T | 0.16J\|(ND) | 16.9 | 11.6\|(7.69) | 68\|(46) | 16.9 | 5.57\|(6.38) | 32\|(38) | 70*\|(19) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 16.9 | (14.4)\|34.3 | (85)\|203* | 16.9 | (8.02)\|23.7 | (48)\|140 | (57*)\|37 | 30-150 | 50 |
| Dalapon | (ND)\|ND | 16.9 | (9.54J)\|5.16J | (57)\|31 | 16.9 | (9.01J)\|ND | (53)\|0* | (6)\|200* | 10-160 | 50 |
| Dicamba | (ND)\|0.86J | 16.9 | (5.55)\|5.64 | (33*)\|28* | 16.9 | (6.01)\|6.00 | (36*)\|30* | (8)\|6 | 50-130 | 50 |
| Dichloroprop | (ND)\|ND | 16.9 | 5.83\|(12.6) | 35*\|(75) | 16.9 | 7.47\|(15.6) | 44*\|(92) | 25\|(21) | 60-150 | 50 |
| Dinoseb | (ND)\|ND | 16.9 | (16.1)\|4.90 | (95)\|29 | 16.9 | (11.0)\|16.2 | (65)\|96 | (38)\|107* | 10-130 | 50 |
| MCPA | (ND)\|ND | 844 | (1540)\|2220 | (183*)\|263* | 844 | (1380)\|1040 | (164*)\|123 | (11)\|72* | 10-160 | 50 |
| MCPP | (ND)\|ND | 844 | (288)\|433 | (34)\|51 | 844 | (311)\|ND | (37)\|0* | (8)\|200* | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 168.7 | (56.45)\|49.59 | (33.5)\|29.4 | 168.7 | (73.14)\|55.51 | (43.3)\|32.9 | 10-150 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/10/12 19:48 |
| Sample ID: SL-025-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 17:08 |
| Lab Samp ID: D004-01 | Dilution Factor: 1 |
| Lab File ID: XD11007A | Matrix : SOIL |
| Ext Btch ID: EXD008S | % Moisture : NA |
| Calib. Ref.: XD11002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1850 | 2000 | 92.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/10/12 19:48 |
| Sample ID: SL-026-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 17:42 |
| Lab Samp ID: D004-02 | Dilution Factor: 1 |
| Lab File ID: XD11008A | Matrix : SOIL |
| Ext Btch ID: EXD008S | % Moisture : NA |
| Calib. Ref.: XD11002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1950 | 2000 | 97.7 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/10/12 19:48 |
| Sample ID: SL-027-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 18:16 |
| Lab Samp ID: D004-03 | Dilution Factor: .99 |
| Lab File ID: XD11009A | Matrix : SOIL |
| Ext Btch ID: EXD008S | % Moisture : NA |
| Calib. Ref.: XD11002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1850 | 1980 | 93.7 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/10/12 19:48 |
| Sample ID: SL-028-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 18:50 |
| Lab Samp ID: D004-04 | Dilution Factor: .99 |
| Lab File ID: XD11010A | Matrix : SOIL |
| Ext Btch ID: EXD008S | % Moisture : NA |
| Calib. Ref.: XD11002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1860 | 1980 | 94.0 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D004 | Date Extracted: 04/10/12 19:48 |
| Sample ID: MBLK1S | Date Analyzed: 04/11/12 15:25 |
| Lab Samp ID: EXD008SB | Dilution Factor: 1 |
| Lab File ID: XD11004A | Matrix : SOIL |
| Ext Btch ID: EXD008S | % Moisture : NA |
| Calib. Ref.: XD11002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1910 | 2000 | 95.4 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD008SB | EXD008SL | EXD008SC | | |
| LAB FILE ID: | XD11004A | XD11005A | XD11006A | | |
| DATE EXTRACTED: | 04/10/1219:48 | 04/10/1219:48 | 04/10/1219:48 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1215:25 | 04/11/1215:59 | 04/11/1216:33 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | EXD008S | EXD008S | EXD008S | | |
| CALIB. REF: | XD11002A | XD11002A | XD11002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 1820 | 91 | 2000 | 1830 | 92 | 1 | 70-130 | 50 |
| RDX | ND | 2000 | 1910 | 95 | 2000 | 1920 | 96 | 1 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2070 | 103 | 2000 | 2060 | 103 | 0 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2010 | 100 | 2000 | 2040 | 102 | 1 | 70-130 | 50 |
| Tetryl | ND | 2000 | 1880 | 94 | 2000 | 1870 | 94 | 1 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 2150 | 108 | 2000 | 2160 | 108 | 0 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 1700 | 85 | 2000 | 1660 | 83 | 3 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 1820 | 91 | 2000 | 1880 | 94 | 3 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 1780 | 89 | 2000 | 1840 | 92 | 3 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 1940 | 97 | 2000 | 2000 | 100 | 3 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2070 | 103 | 2000 | 2050 | 102 | 1 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 1910 | 96 | 2000 | 1900 | 95 | 1 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1740 | 87 | 2000 | 1870 | 93 | 7 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 1910 | 95 | 2000 | 1740 | 87 | 9 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1860 | 93 | 2000 | 1920 | 96 | 3 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2080 | 104 | 2000 | 2050 | 102 | 1 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1930 | 96 | 2000 | 1890 | 95 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/02/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/02/12 |
| Batch No. | : 12D004 | Date Extracted | : 04/10/12 19:48 |
| Sample ID | : SL-025-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 19:28 |
| Lab Samp ID | : D004-01 | Dilution Factor | : 1 |
| Lab File ID | : PD11021A | Matrix | : SOIL |
| Ext Btch ID | : EXD008S | % Moisture | : NA |
| Calib. Ref. | : PD11013A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2350 | 2000 | 118 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/10/12 19:48 |
| Sample ID: SL-026-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 19:49 |
| Lab Samp ID: D004-02 | Dilution Factor: 1 |
| Lab File ID: PD11022A | Matrix : SOIL |
| Ext Btch ID: EXD008S | % Moisture : NA |
| Calib. Ref.: PD11013A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2360 | 2000 | 118 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/02/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/02/12 |
| Batch No. | : 12D004 | Date Extracted | : 04/10/12 19:48 |
| Sample ID | : SL-027-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 20:03 |
| Lab Samp ID | : D004-03 | Dilution Factor | : .99 |
| Lab File ID | : PD11023A | Matrix | : SOIL |
| Ext Btch ID | : EXD008S | % Moisture | : NA |
| Calib. Ref. | : PD11013A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2480 | 1980 | 125 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| Batch No. : 12D004 | Date Extracted: 04/10/12 19:48 |
| Sample ID: SL-028-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 20:17 |
| Lab Samp ID: D004-04 | Dilution Factor: .99 |
| Lab File ID: PD11024A | Matrix : SOIL |
| Ext Btch ID: EXD008S | % Moisture : NA |
| Calib. Ref.: PD11013A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2390 | 1980 | 121 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D004 | Date Extracted: 04/10/12 19:48 |
| Sample ID: MBLK1S | Date Analyzed: 04/11/12 15:23 |
| Lab Samp ID: EXD008SB | Dilution Factor: 1 |
| Lab File ID: PD11003A | Matrix : SOIL |
| Ext Btch ID: EXD008S | % Moisture : NA |
| Calib. Ref.: PD11002A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2300 | 2000 | 115 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD008SB | EXD008SX | EXD008SY | | |
| LAB FILE ID: | PD11003A | PD11004A | PD11005A | | |
| DATE EXTRACTED: | 04/10/1219:48 | 04/10/1219:48 | 04/10/1219:48 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1215:23 | 04/11/1215:37 | 04/11/1215:48 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | EXD008S | EXD008S | EXD008S | | |
| CALIB. REF: | PD11002A | PD11002A | PD11002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7080 | 94 | 7500 | 7200 | 96 | 2 | 50-150 | 50 |
| PETN | ND | 7500 | 6870 | 92 | 7500 | 7130 | 95 | 4 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2360 | 118 | 2000 | 2380 | 119 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/02/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/02/12 |
| SDG NO. | : 12D004 | Date Extracted | : 04/10/12 10:27 |
| Sample ID | : SL-025-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 19:22 |
| Lab Samp ID | : D004-01 | Dilution Factor | : 0.966 |
| Lab File ID | : 98D06089 | Matrix | : SOIL |
| Ext Btch ID | : IMD015S | % Moisture | : 8.2 |
| Calib. Ref. | : 98D06087 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10200 | 25.3 | 12.6 |
| Antimony | 0.226 | 0.210 | 0.105 |
| Arsenic | 4.15 | 0.421 | 0.210 |
| Barium | 74.4 | 0.421 | 0.210 |
| Beryllium | 0.495 | 0.105 | 0.0526 |
| Boron | ND | 5.26 | 2.63 |
| Cadmium | 0.148 | 0.105 | 0.0526 |
| Calcium | 2780 | 21.0 | 10.5 |
| Chromium | 16.6 | 0.421 | 0.210 |
| Cobalt | 6.03 | 0.105 | 0.0526 |
| Copper | 6.80 | 0.421 | 0.210 |
| Iron | 20000 | 21.0 | 10.5 |
| Lead | 5.69 | 0.210 | 0.105 |
| Magnesium | 4970 | 10.5 | 5.26 |
| Manganese | 350 | 0.526 | 0.263 |
| Molybdenum | 0.579 | 0.105 | 0.0526 |
| Nickel | 9.80 | 0.421 | 0.210 |
| Potassium | 2270 | 63.1 | 31.6 |
| Selenium | 0.284J | 0.421 | 0.210 |
| Silver | ND | 0.105 | 0.0526 |
| Sodium | 78.0J | 105 | 52.6 |
| Strontium | 15.2 | 0.526 | 0.263 |
| Thallium | 0.224 | 0.105 | 0.0526 |
| Tin | ND | 10.5 | 5.26 |
| Titanium | 984 | 1.05 | 0.526 |
| Vanadium | 35.1 | 0.105 | 0.0526 |
| Zinc | 47.2 | 3.16 | 1.58 |
| Lithium | 19.3 | 2.10 | 1.05 |
| Phosphorus | 286 | 12.6 | 6.31 |
| Zirconium | ND | 5.26 | 2.63 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/02/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/02/12 |
| SDG NO. | : 12D004 | Date Extracted | : 04/10/12 10:27 |
| Sample ID | : SL-026-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 19:27 |
| Lab Samp ID | : D004-02 | Dilution Factor | : 0.952 |
| Lab File ID | : 98D06090 | Matrix | : SOIL |
| Ext Btch ID | : IMD015S | % Moisture | : 7.0 |
| Calib. Ref. | : 98D06087 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10300 | 24.6 | 12.3 |
| Antimony | 0.194J | 0.205 | 0.102 |
| Arsenic | 4.66 | 0.409 | 0.205 |
| Barium | 61.0 | 0.409 | 0.205 |
| Beryllium | 0.384 | 0.102 | 0.0512 |
| Boron | ND | 5.12 | 2.56 |
| Cadmium | 0.104 | 0.102 | 0.0512 |
| Calcium | 2360 | 20.5 | 10.2 |
| Chromium | 14.8 | 0.409 | 0.205 |
| Cobalt | 5.32 | 0.102 | 0.0512 |
| Copper | 6.95 | 0.409 | 0.205 |
| Iron | 20000 | 20.5 | 10.2 |
| Lead | 5.50 | 0.205 | 0.102 |
| Magnesium | 4540 | 10.2 | 5.12 |
| Manganese | 261 | 0.512 | 0.256 |
| Molybdenum | 0.359 | 0.102 | 0.0512 |
| Nickel | 7.74 | 0.409 | 0.205 |
| Potassium | 1950 | 61.4 | 30.7 |
| Selenium | 0.205J | 0.409 | 0.205 |
| Silver | ND | 0.102 | 0.0512 |
| Sodium | 54.4J | 102 | 51.2 |
| Strontium | 13.7 | 0.512 | 0.256 |
| Thallium | 0.227 | 0.102 | 0.0512 |
| Tin | ND | 10.2 | 5.12 |
| Titanium | 912 | 1.02 | 0.512 |
| Vanadium | 32.5 | 0.102 | 0.0512 |
| Zinc | 45.0 | 3.07 | 1.54 |
| Lithium | 17.3 | 2.05 | 1.02 |
| Phosphorus | 223 | 12.3 | 6.14 |
| Zirconium | ND | 5.12 | 2.56 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/02/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/02/12 |
| SDG NO. | : 12D004 | Date Extracted | : 04/10/12 10:27 |
| Sample ID | : SL-027-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 19:31 |
| Lab Samp ID | : D004-03 | Dilution Factor | : 0.971 |
| Lab File ID | : 98D06091 | Matrix | : SOIL |
| Ext Btch ID | : IMD015S | % Moisture | : 14.0 |
| Calib. Ref. | : 98D06087 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10100 | 27.1 | 13.5 |
| Antimony | 0.182J | 0.226 | 0.113 |
| Arsenic | 9.94 | 0.452 | 0.226 |
| Barium | 98.2 | 0.452 | 0.226 |
| Beryllium | 0.451 | 0.113 | 0.0565 |
| Boron | ND | 5.65 | 2.82 |
| Cadmium | 0.227 | 0.113 | 0.0565 |
| Calcium | 2900 | 22.6 | 11.3 |
| Chromium | 12.0 | 0.452 | 0.226 |
| Cobalt | 4.35 | 0.113 | 0.0565 |
| Copper | 7.21 | 0.452 | 0.226 |
| Iron | 15900 | 22.6 | 11.3 |
| Lead | 12.7 | 0.226 | 0.113 |
| Magnesium | 3380 | 11.3 | 5.65 |
| Manganese | 280 | 0.565 | 0.282 |
| Molybdenum | 0.530 | 0.113 | 0.0565 |
| Nickel | 8.71 | 0.452 | 0.226 |
| Potassium | 3210 | 67.7 | 33.9 |
| Selenium | ND | 0.452 | 0.226 |
| Silver | ND | 0.113 | 0.0565 |
| Sodium | ND | 113 | 56.5 |
| Strontium | 23.8 | 0.565 | 0.282 |
| Thallium | 0.209 | 0.113 | 0.0565 |
| Tin | ND | 11.3 | 5.65 |
| Titanium | 733 | 1.13 | 0.565 |
| Vanadium | 24.5 | 0.113 | 0.0565 |
| Zinc | 49.3 | 3.39 | 1.69 |
| Lithium | 17.7 | 2.26 | 1.13 |
| Phosphorus | 306 | 13.5 | 6.77 |
| Zirconium | ND | 5.65 | 2.82 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/02/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/02/12 |
| SDG NO. : 12D004 | Date Extracted: 04/10/12 10:27 |
| Sample ID: SL-028-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 19:36 |
| Lab Samp ID: D004-04 | Dilution Factor: 0.971 |
| Lab File ID: 98D06092 | Matrix : SOIL |
| Ext Btch ID: IMD015S | % Moisture : 9.2 |
| Calib. Ref.: 98D06087 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 8960 | 25.7 | 12.8 |
| Antimony | 0.113J | 0.214 | 0.107 |
| Arsenic | 6.72 | 0.428 | 0.214 |
| Barium | 86.6 | 0.428 | 0.214 |
| Beryllium | 0.376 | 0.107 | 0.0535 |
| Boron | ND | 5.35 | 2.67 |
| Cadmium | 0.210 | 0.107 | 0.0535 |
| Calcium | 1770 | 21.4 | 10.7 |
| Chromium | 11.1 | 0.428 | 0.214 |
| Cobalt | 4.32 | 0.107 | 0.0535 |
| Copper | 5.62 | 0.428 | 0.214 |
| Iron | 16300 | 21.4 | 10.7 |
| Lead | 4.36 | 0.214 | 0.107 |
| Magnesium | 3340 | 10.7 | 5.35 |
| Manganese | 288 | 0.535 | 0.267 |
| Molybdenum | 0.404 | 0.107 | 0.0535 |
| Nickel | 7.64 | 0.428 | 0.214 |
| Potassium | 3310 | 64.2 | 32.1 |
| Selenium | ND | 0.428 | 0.214 |
| Silver | ND | 0.107 | 0.0535 |
| Sodium | ND | 107 | 53.5 |
| Strontium | 16.0 | 0.535 | 0.267 |
| Thallium | 0.209 | 0.107 | 0.0535 |
| Tin | ND | 10.7 | 5.35 |
| Titanium | 728 | 1.07 | 0.535 |
| Vanadium | 23.1 | 0.107 | 0.0535 |
| Zinc | 43.4 | 3.21 | 1.60 |
| Lithium | 18.3 | 2.14 | 1.07 |
| Phosphorus | 312 | 12.8 | 6.42 |
| Zirconium | ND | 5.35 | 2.67 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/02/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/02/12 |
| SDG NO. | : 12D004 | Date Extracted | : 04/10/12 10:27 |
| Sample ID | : SL-107-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 19:41 |
| Lab Samp ID | : D004-05 | Dilution Factor | : 0.966 |
| Lab File ID | : 98D06093 | Matrix | : SOIL |
| Ext Btch ID | : IMD015S | % Moisture | : 12.0 |
| Calib. Ref. | : 98D06087 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 7740 | 26.3 | 13.2 |
| Antimony | 0.142J | 0.220 | 0.110 |
| Arsenic | 2.41 | 0.439 | 0.220 |
| Barium | 65.2 | 0.439 | 0.220 |
| Beryllium | 0.306 | 0.110 | 0.0549 |
| Boron | ND | 5.49 | 2.74 |
| Cadmium | 0.175 | 0.110 | 0.0549 |
| Calcium | 2140 | 22.0 | 11.0 |
| Chromium | 10.3 | 0.439 | 0.220 |
| Cobalt | 3.60 | 0.110 | 0.0549 |
| Copper | 4.53 | 0.439 | 0.220 |
| Iron | 16200 | 22.0 | 11.0 |
| Lead | 11.0 | 0.220 | 0.110 |
| Magnesium | 3800 | 11.0 | 5.49 |
| Manganese | 223 | 0.549 | 0.274 |
| Molybdenum | 0.264 | 0.110 | 0.0549 |
| Nickel | 6.30 | 0.439 | 0.220 |
| Potassium | 3020 | 65.9 | 32.9 |
| Selenium | ND | 0.439 | 0.220 |
| Silver | ND | 0.110 | 0.0549 |
| Sodium | ND | 110 | 54.9 |
| Strontium | 8.01 | 0.549 | 0.274 |
| Thallium | 0.193 | 0.110 | 0.0549 |
| Tin | ND | 11.0 | 5.49 |
| Titanium | 822 | 1.10 | 0.549 |
| Vanadium | 21.8 | 0.110 | 0.0549 |
| Zinc | 57.7 | 3.29 | 1.65 |
| Lithium | 23.6 | 2.20 | 1.10 |
| Phosphorus | 349 | 13.2 | 6.59 |
| Zirconium | ND | 5.49 | 2.74 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/02/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/02/12 |
| SDG NO. | : 12D004 | Date Extracted | : 04/10/12 10:27 |
| Sample ID | : SL-111-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 19:45 |
| Lab Samp ID | : D004-06 | Dilution Factor | : 0.966 |
| Lab File ID | : 98D06094 | Matrix | : SOIL |
| Ext Btch ID | : IMD015S | % Moisture | : 20.7 |
| Calib. Ref. | : 98D06087 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 8730 | 29.2 | 14.6 |
| Antimony | 0.223J | 0.244 | 0.122 |
| Arsenic | 2.64 | 0.487 | 0.244 |
| Barium | 79.5 | 0.487 | 0.244 |
| Beryllium | 0.364 | 0.122 | 0.0609 |
| Boron | ND | 6.09 | 3.05 |
| Cadmium | 0.267 | 0.122 | 0.0609 |
| Calcium | 2510 | 24.4 | 12.2 |
| Chromium | 10.7 | 0.487 | 0.244 |
| Cobalt | 3.99 | 0.122 | 0.0609 |
| Copper | 6.27 | 0.487 | 0.244 |
| Iron | 16300 | 24.4 | 12.2 |
| Lead | 18.2 | 0.244 | 0.122 |
| Magnesium | 3720 | 12.2 | 6.09 |
| Manganese | 269 | 0.609 | 0.305 |
| Molybdenum | 0.500 | 0.122 | 0.0609 |
| Nickel | 7.91 | 0.487 | 0.244 |
| Potassium | 3070 | 73.1 | 36.5 |
| Selenium | ND | 0.487 | 0.244 |
| Silver | ND | 0.122 | 0.0609 |
| Sodium | ND | 122 | 60.9 |
| Strontium | 15.2 | 0.609 | 0.305 |
| Thallium | 0.205 | 0.122 | 0.0609 |
| Tin | ND | 12.2 | 6.09 |
| Titanium | 837 | 1.22 | 0.609 |
| Vanadium | 23.1 | 0.122 | 0.0609 |
| Zinc | 59.2 | 3.65 | 1.83 |
| Lithium | 21.5 | 2.44 | 1.22 |
| Phosphorus | 447 | 14.6 | 7.31 |
| Zirconium | ND | 6.09 | 3.05 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/02/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/02/12 |
| SDG NO. | : 12D004 | Date Extracted | : 04/10/12 10:27 |
| Sample ID | : SL-112-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 19:50 |
| Lab Samp ID | : D004-07 | Dilution Factor | : 0.980 |
| Lab File ID | : 98D06095 | Matrix | : SOIL |
| Ext Btch ID | : IMD015S | % Moisture | : 9.4 |
| Calib. Ref. | : 98D06087 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9540 | 26.0 | 13.0 |
| Antimony | 0.162J | 0.216 | 0.108 |
| Arsenic | 3.23 | 0.433 | 0.216 |
| Barium | 71.9 | 0.433 | 0.216 |
| Beryllium | 0.409 | 0.108 | 0.0541 |
| Boron | ND | 5.41 | 2.70 |
| Cadmium | 0.173 | 0.108 | 0.0541 |
| Calcium | 1940 | 21.6 | 10.8 |
| Chromium | 12.3 | 0.433 | 0.216 |
| Cobalt | 4.27 | 0.108 | 0.0541 |
| Copper | 5.15 | 0.433 | 0.216 |
| Iron | 18200 | 21.6 | 10.8 |
| Lead | 6.47 | 0.216 | 0.108 |
| Magnesium | 4260 | 10.8 | 5.41 |
| Manganese | 255 | 0.541 | 0.270 |
| Molybdenum | 0.398 | 0.108 | 0.0541 |
| Nickel | 7.44 | 0.433 | 0.216 |
| Potassium | 3220 | 64.9 | 32.5 |
| Selenium | ND | 0.433 | 0.216 |
| Silver | ND | 0.108 | 0.0541 |
| Sodium | ND | 108 | 54.1 |
| Strontium | 10.3 | 0.541 | 0.270 |
| Thallium | 0.220 | 0.108 | 0.0541 |
| Tin | ND | 10.8 | 5.41 |
| Titanium | 899 | 1.08 | 0.541 |
| Vanadium | 27.6 | 0.108 | 0.0541 |
| Zinc | 53.6 | 3.25 | 1.62 |
| Lithium | 23.5 | 2.16 | 1.08 |
| Phosphorus | 316 | 13.0 | 6.49 |
| Zirconium | ND | 5.41 | 2.70 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/02/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/02/12 |
| SDG NO. | : 12D004 | Date Extracted | : 04/10/12 10:27 |
| Sample ID | : SL-113-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 19:54 |
| Lab Samp ID | : D004-08 | Dilution Factor | : 1.00 |
| Lab File ID | : 98D06096 | Matrix | : SOIL |
| Ext Btch ID | : IMD015S | % Moisture | : 8.6 |
| Calib. Ref. | : 98D06087 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 8810 | 26.3 | 13.1 |
| Antimony | 0.123J | 0.219 | 0.109 |
| Arsenic | 3.36 | 0.438 | 0.219 |
| Barium | 75.2 | 0.438 | 0.219 |
| Beryllium | 0.387 | 0.109 | 0.0547 |
| Boron | ND | 5.47 | 2.74 |
| Cadmium | 0.146 | 0.109 | 0.0547 |
| Calcium | 1590 | 21.9 | 10.9 |
| Chromium | 10.3 | 0.438 | 0.219 |
| Cobalt | 3.75 | 0.109 | 0.0547 |
| Copper | 4.84 | 0.438 | 0.219 |
| Iron | 16500 | 21.9 | 10.9 |
| Lead | 7.05 | 0.219 | 0.109 |
| Magnesium | 3280 | 10.9 | 5.47 |
| Manganese | 233 | 0.547 | 0.274 |
| Molybdenum | 0.318 | 0.109 | 0.0547 |
| Nickel | 6.50 | 0.438 | 0.219 |
| Potassium | 3870 | 65.6 | 32.8 |
| Selenium | ND | 0.438 | 0.219 |
| Silver | ND | 0.109 | 0.0547 |
| Sodium | ND | 109 | 54.7 |
| Strontium | 11.0 | 0.547 | 0.274 |
| Thallium | 0.225 | 0.109 | 0.0547 |
| Tin | ND | 10.9 | 5.47 |
| Titanium | 899 | 1.09 | 0.547 |
| Vanadium | 20.9 | 0.109 | 0.0547 |
| Zinc | 54.3 | 3.28 | 1.64 |
| Lithium | 21.2 | 2.19 | 1.09 |
| Phosphorus | 327 | 13.1 | 6.56 |
| Zirconium | ND | 5.47 | 2.74 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/02/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/02/12 |
| SDG NO. | : 12D004 | Date Extracted | : 04/10/12 10:27 |
| Sample ID | : SL-138-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 19:59 |
| Lab Samp ID | : D004-09 | Dilution Factor | : 0.971 |
| Lab File ID | : 98D06097 | Matrix | : SOIL |
| Ext Btch ID | : IMD015S | % Moisture | : 11.4 |
| Calib. Ref. | : 98D06087 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9490 | 26.3 | 13.2 |
| Antimony | 0.174J | 0.219 | 0.110 |
| Arsenic | 2.76 | 0.438 | 0.219 |
| Barium | 65.6 | 0.438 | 0.219 |
| Beryllium | 0.360 | 0.110 | 0.0548 |
| Boron | ND | 5.48 | 2.74 |
| Cadmium | 0.102J | 0.110 | 0.0548 |
| Calcium | 1690 | 21.9 | 11.0 |
| Chromium | 9.90 | 0.438 | 0.219 |
| Cobalt | 3.37 | 0.110 | 0.0548 |
| Copper | 4.21 | 0.438 | 0.219 |
| Iron | 17200 | 21.9 | 11.0 |
| Lead | 6.42 | 0.219 | 0.110 |
| Magnesium | 3600 | 11.0 | 5.48 |
| Manganese | 219 | 0.548 | 0.274 |
| Molybdenum | 0.398 | 0.110 | 0.0548 |
| Nickel | 5.86 | 0.438 | 0.219 |
| Potassium | 2810 | 65.8 | 32.9 |
| Selenium | ND | 0.438 | 0.219 |
| Silver | ND | 0.110 | 0.0548 |
| Sodium | ND | 110 | 54.8 |
| Strontium | 14.0 | 0.548 | 0.274 |
| Thallium | 0.216 | 0.110 | 0.0548 |
| Tin | ND | 11.0 | 5.48 |
| Titanium | 886 | 1.10 | 0.548 |
| Vanadium | 23.2 | 0.110 | 0.0548 |
| Zinc | 47.7 | 3.29 | 1.64 |
| Lithium | 20.4 | 2.19 | 1.10 |
| Phosphorus | 209 | 13.2 | 6.58 |
| Zirconium | ND | 5.48 | 2.74 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/02/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/02/12 |
| SDG NO. | : 12D004 | Date Extracted | : 04/10/12 10:27 |
| Sample ID | : SL-194-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 19:04 |
| Lab Samp ID | : D004-10 | Dilution Factor | : 0.971 |
| Lab File ID | : 98D06085 | Matrix | : SOIL |
| Ext Btch ID | : IMD015S | % Moisture | : 11.1 |
| Calib. Ref. | : 98D06076 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9360 | 26.2 | 13.1 |
| Antimony | 0.219 | 0.218 | 0.109 |
| Arsenic | 2.90 | 0.437 | 0.218 |
| Barium | 90.6 | 0.437 | 0.218 |
| Beryllium | 0.429 | 0.109 | 0.0546 |
| Boron | ND | 5.46 | 2.73 |
| Cadmium | 0.269 | 0.109 | 0.0546 |
| Calcium | 2100 | 21.8 | 10.9 |
| Chromium | 12.8 | 0.437 | 0.218 |
| Cobalt | 4.36 | 0.109 | 0.0546 |
| Copper | 6.44 | 0.437 | 0.218 |
| Iron | 16000 | 21.8 | 10.9 |
| Lead | 8.90 | 0.218 | 0.109 |
| Magnesium | 3430 | 10.9 | 5.46 |
| Manganese | 263 | 0.546 | 0.273 |
| Molybdenum | 0.523 | 0.109 | 0.0546 |
| Nickel | 8.87 | 0.437 | 0.218 |
| Potassium | 3560 | 65.5 | 32.8 |
| Selenium | ND | 0.437 | 0.218 |
| Silver | 0.0697J | 0.109 | 0.0546 |
| Sodium | ND | 109 | 54.6 |
| Strontium | 18.4 | 0.546 | 0.273 |
| Thallium | 0.203 | 0.109 | 0.0546 |
| Tin | ND | 10.9 | 5.46 |
| Titanium | 774 | 1.09 | 0.546 |
| Vanadium | 25.6 | 0.109 | 0.0546 |
| Zinc | 45.3 | 3.28 | 1.64 |
| Lithium | 16.6 | 2.18 | 1.09 |
| Phosphorus | 392 | 13.1 | 6.55 |
| Zirconium | ND | 5.46 | 2.73 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| SDG NO. : 12D004 | Date Extracted: 04/10/12 10:27 |
| Sample ID: MBLK1S | Date Analyzed: 04/11/12 18:37 |
| Lab Samp ID: IMD015SB | Dilution Factor: 1 |
| Lab File ID: 98D06079 | Matrix : SOIL |
| Ext Btch ID: IMD015S | % Moisture : NA |
| Calib. Ref.: 98D06076 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D004
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IMD015SB | IMD015SL | IMD015SC | | |
| LAB FILE ID: | 98D06079 | 98D06080 | 98D06081 | | |
| DATIME EXTRCTD: | 04/10/1210:27 | 04/10/1210:27 | 04/10/1210:27 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/11/1218:37 | 04/11/1218:42 | 04/11/1218:46 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | IMD015S | IMD015S | IMD015S | | |
| CALIB. REF: | 98D06076 | 98D06076 | 98D06076 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2570 | 103 | 2500 | 2560 | 102 | 1 | 80-120 | 20 |
| Antimony | ND | 25.0 | 25.9 | 104 | 25.0 | 26.0 | 104 | 0 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 24.9 | 100 | 25.0 | 25.1 | 101 | 1 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.9 | 103 | 25.0 | 25.7 | 103 | 0 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 24.8 | 99 | 25.0 | 24.7 | 99 | 1 | 80-120 | 20 |
| Boron | ND | 25.0 | 25.8 | 103 | 25.0 | 25.7 | 103 | 0 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 25.0 | 100 | 25.0 | 24.9 | 99 | 0 | 80-120 | 20 |
| Calcium | ND | 2500 | 2620 | 105 | 2500 | 2650 | 106 | 1 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.8 | 99 | 25.0 | 24.9 | 100 | 0 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 24.9 | 100 | 25.0 | 25.6 | 102 | 3 | 80-120 | 20 |
| Copper | ND | 25.0 | 24.1 | 96 | 25.0 | 24.3 | 97 | 1 | 80-120 | 20 |
| Iron | ND | 2500 | 2660 | 106 | 2500 | 2630 | 105 | 1 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.1 | 100 | 25.0 | 24.6 | 99 | 2 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2550 | 102 | 2500 | 2540 | 102 | 0 | 80-120 | 20 |
| Manganese | ND | 25.0 | 24.8 | 99 | 25.0 | 25.3 | 101 | 2 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 25.2 | 101 | 25.0 | 25.3 | 101 | 0 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.3 | 97 | 25.0 | 24.4 | 98 | 1 | 80-120 | 20 |
| Potassium | ND | 2500 | 2690 | 107 | 2500 | 2690 | 108 | 0 | 80-120 | 20 |
| Selenium | ND | 25.0 | 24.5 | 98 | 25.0 | 24.5 | 98 | 0 | 80-120 | 20 |
| Silver | ND | 25.0 | 25.4 | 102 | 25.0 | 25.2 | 101 | 1 | 80-120 | 20 |
| Sodium | ND | 2500 | 2400 | 96 | 2500 | 2420 | 97 | 1 | 80-120 | 20 |
| Strontium | ND | 25.0 | 25.8 | 103 | 25.0 | 26.2 | 105 | 1 | 80-120 | 20 |
| Thallium | ND | 25.0 | 25.5 | 102 | 25.0 | 25.8 | 103 | 1 | 80-120 | 20 |
| Tin | ND | 25.0 | 27.5 | 110 | 25.0 | 27.8 | 111 | 1 | 80-120 | 20 |
| Titanium | ND | 25.0 | 25.2 | 101 | 25.0 | 25.5 | 102 | 1 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 25.0 | 100 | 25.0 | 25.1 | 101 | 0 | 80-120 | 20 |
| Zinc | ND | 50.0 | 48.7 | 97 | 50.0 | 49.3 | 99 | 1 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.5 | 102 | 25.0 | 25.2 | 101 | 1 | 80-120 | 20 |
| Phosphorus | ND | 250 | 249 | 100 | 250 | 245 | 98 | 2 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 25.3 | 101 | 25.0 | 25.5 | 102 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D004
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 11.1

| | | | | | |
|---|---|---|---|---|---|
| DILTN FACTR: | 0.971 | 0.990 | 0.980 | | |
| SAMPLE ID: | SL-194-NBZ-SS-0.0-0.5 | | | | |
| CONTROL NO.: | D004-10 | D004-10M | D004-10S | | |
| LAB FILE ID: | 98D06085 | 98D06082 | 98D06083 | | |
| DATIME EXTRCTD: | 04/10/1210:27 | 04/10/1210:27 | 04/10/1210:27 | DATE COLLECTED: | 04/02/12 |
| DATIME ANALYZD: | 04/11/1219:04 | 04/11/1218:51 | 04/11/1218:55 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | IMD015S | IMD015S | IMD015S | | |
| CALIB. REF: | 98D06076 | 98D06076 | 98D06076 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 9360 | 2780 | 13100 | 136* | 2760 | 13900 | 164* | 5 | 75-125 | 20 |
| Antimony | 0.219 | 27.8 | 24.1 | 86 | 27.6 | 22.6 | 81 | 7 | 75-125 | 20 |
| Arsenic | 2.90 | 27.8 | 29.8 | 97 | 27.6 | 28.7 | 94 | 4 | 75-125 | 20 |
| Barium | 90.6 | 27.8 | 130 | 142* | 27.6 | 130 | 142* | 0 | 75-125 | 20 |
| Beryllium | 0.429 | 27.8 | 28.3 | 100 | 27.6 | 26.9 | 96 | 5 | 75-125 | 20 |
| Boron | ND | 27.8 | 29.6 | 106 | 27.6 | 27.8 | 101 | 6 | 75-125 | 20 |
| Cadmium | 0.269 | 27.8 | 27.8 | 99 | 27.6 | 26.7 | 96 | 4 | 75-125 | 20 |
| Calcium | 2100 | 2780 | 4950 | 103 | 2760 | 4870 | 101 | 2 | 75-125 | 20 |
| Chromium | 12.8 | 27.8 | 39.8 | 97 | 27.6 | 39.2 | 96 | 2 | 75-125 | 20 |
| Cobalt | 4.36 | 27.8 | 30.3 | 93 | 27.6 | 29.6 | 92 | 2 | 75-125 | 20 |
| Copper | 6.44 | 27.8 | 32.1 | 92 | 27.6 | 30.8 | 89 | 4 | 75-125 | 20 |
| Iron | 16000 | 2780 | 19800 | 138* | 2760 | 19900 | 141* | 0 | 75-125 | 20 |
| Lead | 8.90 | 27.8 | 37.3 | 102 | 27.6 | 35.7 | 97 | 4 | 75-125 | 20 |
| Magnesium | 3430 | 2780 | 6380 | 106 | 2760 | 6280 | 104 | 1 | 75-125 | 20 |
| Manganese | 263 | 27.8 | 307 | 160* | 27.6 | 309 | 165* | 0 | 75-125 | 20 |
| Molybdenum | 0.523 | 27.8 | 28.4 | 100 | 27.6 | 27.4 | 97 | 4 | 75-125 | 20 |
| Nickel | 8.87 | 27.8 | 35.0 | 94 | 27.6 | 34.4 | 92 | 2 | 75-125 | 20 |
| Potassium | 3560 | 2780 | 6660 | 111 | 2760 | 6620 | 111 | 1 | 75-125 | 20 |
| Selenium | ND | 27.8 | 26.3 | 94 | 27.6 | 25.7 | 93 | 2 | 75-125 | 20 |
| Silver | 0.0697J | 27.8 | 27.9 | 100 | 27.6 | 26.8 | 97 | 4 | 75-125 | 20 |
| Sodium | ND | 2780 | 2540 | 91 | 2760 | 2480 | 90 | 2 | 75-125 | 20 |
| Strontium | 18.4 | 27.8 | 47.4 | 104 | 27.6 | 46.8 | 103 | 1 | 75-125 | 20 |
| Thallium | 0.203 | 27.8 | 29.3 | 104 | 27.6 | 27.6 | 99 | 6 | 75-125 | 20 |
| Tin | ND | 27.8 | 31.1 | 112 | 27.6 | 30.0 | 109 | 3 | 75-125 | 20 |
| Titanium | 774 | 27.8 | 866 | 332* | 27.6 | 910 | 494* | 5 | 75-125 | 20 |
| Vanadium | 25.6 | 27.8 | 54.7 | 105 | 27.6 | 53.8 | 102 | 2 | 75-125 | 20 |
| Zinc | 45.3 | 55.7 | 102 | 102 | 55.1 | 99.7 | 99 | 2 | 75-125 | 20 |
| Lithium | 16.6 | 27.8 | 46.3 | 107 | 27.6 | 45.8 | 106 | 1 | 75-125 | 20 |
| Phosphorus | 392 | 278 | 678 | 103 | 276 | 667 | 100 | 2 | 75-125 | 20 |
| Zirconium | ND | 27.8 | 14.5 | 52* | 27.6 | 15.7 | 57* | 8 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D004
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 11.1
DILTN FACTR: 0.971 0.971
SAMPLE ID: SL-194-NBZ-SS-0.0-0.5
CONTROL NO.: D004-10 D004-10A
LAB FILE ID: 98D06085 98D06084
DATIME EXTRCTD: 04/10/1210:27 04/10/1210:27 DATE COLLECTED: 04/02/12
DATIME ANALYZD: 04/11/1219:04 04/11/1218:59 DATE RECEIVED: 04/02/12
PREP. BATCH: IMD015S IMD015S
CALIB. REF: 98D06076 98D06076

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 9360 | 2730 | 12200 | 102 | 75-125 |
| Antimony | 0.219 | 27.3 | 27.5 | 100 | 75-125 |
| Arsenic | 2.90 | 27.3 | 28.1 | 92 | 75-125 |
| Barium | 90.6 | 27.3 | 123 | 119 | 75-125 |
| Beryllium | 0.429 | 27.3 | 26.7 | 96 | 75-125 |
| Boron | ND | 27.3 | 29.3 | 107 | 75-125 |
| Cadmium | 0.269 | 27.3 | 26.4 | 96 | 75-125 |
| Calcium | 2100 | 2730 | 4780 | 98 | 75-125 |
| Chromium | 12.8 | 27.3 | 37.1 | 89 | 75-125 |
| Cobalt | 4.36 | 27.3 | 28.6 | 89 | 75-125 |
| Copper | 6.44 | 27.3 | 29.9 | 86 | 75-125 |
| Iron | 16000 | 2730 | 18600 | 96 | 75-125 |
| Lead | 8.90 | 27.3 | 34.7 | 94 | 75-125 |
| Magnesium | 3430 | 2730 | 6000 | 94 | 75-125 |
| Manganese | 263 | 27.3 | 291 | 101 | 75-125 |
| Molybdenum | 0.523 | 27.3 | 27.5 | 99 | 75-125 |
| Nickel | 8.87 | 27.3 | 32.3 | 86 | 75-125 |
| Potassium | 3560 | 2730 | 6260 | 99 | 75-125 |
| Selenium | ND | 27.3 | 25.3 | 93 | 75-125 |
| Silver | 0.0697J | 27.3 | 26.3 | 96 | 75-125 |
| Sodium | ND | 2730 | 2410 | 88 | 75-125 |
| Strontium | 18.4 | 27.3 | 45.2 | 98 | 75-125 |
| Thallium | 0.203 | 27.3 | 26.7 | 97 | 75-125 |
| Tin | ND | 27.3 | 29.5 | 108 | 75-125 |
| Titanium | 774 | 27.3 | 812 | 140* | 75-125 |
| Vanadium | 25.6 | 27.3 | 50.5 | 92 | 75-125 |
| Zinc | 45.3 | 54.6 | 94.0 | 89 | 75-125 |
| Lithium | 16.6 | 27.3 | 43.6 | 99 | 75-125 |
| Phosphorus | 392 | 273 | 661 | 99 | 75-125 |
| Zirconium | ND | 27.3 | 25.3 | 93 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 11.1
DILUTION FACTOR: 0.971 4.85
SAMPLE ID: SL-194-NBZ-SS- SL-194-NBZ-SS-
EMAX SAMP ID: D004-10 D004-10J
LAB FILE ID: 98D06085 98D06086
DATE EXTRACTED: 04/10/1210:27 04/10/1210:27 DATE COLLECTED: 04/02/12
DATE ANALYZED: 04/11/1219:04 04/11/1219:08 DATE RECEIVED: 04/02/12
PREP. BATCH: IMD015S IMD015S
CALIB. REF: 98D06076 98D06076

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 9360 | 9640 | 3 | 10 |
| Antimony | 0.219 | ND | NA | 10 |
| Arsenic | 2.90 | 3.02 | 4 | 10 |
| Barium | 90.6 | 86.2 | 5 | 10 |
| Beryllium | 0.429 | 0.400J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.269 | ND | NA | 10 |
| Calcium | 2100 | 2170 | 3 | 10 |
| Chromium | 12.8 | 13.0 | 1 | 10 |
| Cobalt | 4.36 | 4.51 | 3 | 10 |
| Copper | 6.44 | 6.70 | 4 | 10 |
| Iron | 16000 | 16400 | 3 | 10 |
| Lead | 8.90 | 8.86 | 0 | 10 |
| Magnesium | 3430 | 3500 | 2 | 10 |
| Manganese | 263 | 276 | 5 | 10 |
| Molybdenum | 0.523 | 0.548 | 5 | 10 |
| Nickel | 8.87 | 9.20 | 4 | 10 |
| Potassium | 3560 | 3490 | 2 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | 0.0697J | ND | NA | 10 |
| Sodium | ND | ND | 0 | 10 |
| Strontium | 18.4 | 17.3 | 6 | 10 |
| Thallium | 0.203 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 774 | 757 | 2 | 10 |
| Vanadium | 25.6 | 25.6 | 0 | 10 |
| Zinc | 45.3 | 45.9 | 1 | 10 |
| Lithium | 16.6 | 14.8 | 11* | 10 |
| Phosphorus | 392 | 382 | 2 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D004
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD007SB | ND | 1 | NA | 0.100 | 0.0500 | 04/05/1217:35 | 04/05/1213:11 | M47D004010 | M47D004008 | HGD007S | NA | 04/05/12 |
| LCS1S | HGD007SL | 0.892 | 1 | NA | 0.100 | 0.0500 | 04/05/1217:37 | 04/05/1213:11 | M47D004011 | M47D004008 | HGD007S | NA | 04/05/12 |
| LCD1S | HGD007SC | 0.897 | 1 | NA | 0.100 | 0.0500 | 04/05/1217:39 | 04/05/1213:11 | M47D004012 | M47D004008 | HGD007S | NA | 04/05/12 |
| SL-025-NBZ-SS-0.0-0.5 | D004-01 | ND | 0.993 | 8.2 | 0.108 | 0.0541 | 04/05/1218:05 | 04/05/1213:11 | M47D004024 | M47D004020 | HGD007S | 04/02/12 | 04/02/12 |
| SL-026-NBZ-SS-0.0-0.5 | D004-02 | ND | 0.992 | 7.0 | 0.107 | 0.0533 | 04/05/1218:07 | 04/05/1213:11 | M47D004025 | M47D004020 | HGD007S | 04/02/12 | 04/02/12 |
| SL-027-NBZ-SS-0.0-0.5 | D004-03 | ND | 0.995 | 14.0 | 0.116 | 0.0578 | 04/05/1218:09 | 04/05/1213:11 | M47D004026 | M47D004020 | HGD007S | 04/02/12 | 04/02/12 |
| SL-028-NBZ-SS-0.0-0.5 | D004-04 | ND | 0.990 | 9.2 | 0.109 | 0.0545 | 04/05/1218:12 | 04/05/1213:11 | M47D004027 | M47D004020 | HGD007S | 04/02/12 | 04/02/12 |
| SL-107-NBZ-SS-0.0-0.5 | D004-05 | ND | 0.995 | 12.0 | 0.113 | 0.0565 | 04/05/1218:14 | 04/05/1213:11 | M47D004028 | M47D004020 | HGD007S | 04/02/12 | 04/02/12 |
| SL-111-NBZ-SS-0.0-0.5 | D004-06 | ND | 0.993 | 20.7 | 0.125 | 0.0626 | 04/05/1218:16 | 04/05/1213:11 | M47D004029 | M47D004020 | HGD007S | 04/02/12 | 04/02/12 |
| SL-112-NBZ-SS-0.0-0.5 | D004-07 | ND | 0.990 | 9.4 | 0.109 | 0.0546 | 04/05/1218:18 | 04/05/1213:11 | M47D004030 | M47D004020 | HGD007S | 04/02/12 | 04/02/12 |
| SL-113-NBZ-SS-0.0-0.5 | D004-08 | ND | 1.00 | 8.6 | 0.109 | 0.0547 | 04/05/1218:20 | 04/05/1213:11 | M47D004031 | M47D004020 | HGD007S | 04/02/12 | 04/02/12 |
| SL-138-NBZ-SS-0.0-0.5 | D004-09 | ND | 1.00 | 11.4 | 0.113 | 0.0564 | 04/05/1218:27 | 04/05/1213:11 | M47D004034 | M47D004032 | HGD007S | 04/02/12 | 04/02/12 |
| SL-194-NBZ-SS-0.0-0.5 | D004-10 | ND | 0.997 | 11.1 | 0.112 | 0.0561 | 04/05/1218:29 | 04/05/1213:11 | M47D004035 | M47D004032 | HGD007S | 04/02/12 | 04/02/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D004
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGD007SB | HGD007SL | HGD007SC | | |
| LAB FILE ID: | M47D004010 | M47D004011 | M47D004012 | | |
| DATIME EXTRCTD: | 04/05/1213:11 | 04/05/1213:11 | 04/05/1213:11 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/05/1217:35 | 04/05/1217:37 | 04/05/1217:39 | DATE RECEIVED: | 04/05/12 |
| PREP. BATCH: | HGD007S | HGD007S | HGD007S | | |
| CALIB. REF: | M47D004008 | M47D004008 | M47D004008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .892 | 107 | .833 | .897 | 108 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D004
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 71.3 |
| DILTN FACTR: | 0.992 | 0.992 | | |
| SAMPLE ID: | 129178-28-06 | | | |
| CONTROL NO.: | C301-06 | C301-06A | | |
| LAB FILE ID: | M47D004014 | M47D004013 | | |
| DATIME EXTRCTD: | 04/05/1213:11 | 04/05/1213:11 | DATE COLLECTED: | 03/28/12 |
| DATIME ANALYZD: | 04/05/1217:43 | 04/05/1217:41 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | HGD007S | HGD007S | | |
| CALIB. REF: | M47D004008 | M47D004008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | 2.88 | 3.14 | 109 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 71.3

| | | | | |
|---|---|---|---|---|
| DILUTION FACTOR: | 0.992 | 4.96 | | |
| SAMPLE ID: | 129178-28-06 | 129178-28-06DL | | |
| EMAX SAMP ID: | C301-06 | C301-06J | | |
| LAB FILE ID: | M47D004014 | M47D004015 | | |
| DATE EXTRACTED: | 04/05/1213:11 | 04/05/1213:11 | DATE COLLECTED: | 03/28/12 |
| DATE ANALYZED: | 04/05/1217:43 | 04/05/1217:46 | DATE RECEIVED: | 03/29/12 |
| PREP. BATCH: | HGD007S | HGD007S | | |
| CALIB. REF: | M47D004008 | M47D004008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D004
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD008SB | ND | 1 | NA | 20.0 | 10.0 | 04/09/1221:44 | 04/06/1210:15 | JD09026 | JD09025 | PCD008S | NA | 04/06/12 |
| LCS1S | PCD008SL | 280 | 1 | NA | 20.0 | 10.0 | 04/09/1222:26 | 04/06/1210:15 | JD09028 | JD09025 | PCD008S | NA | 04/06/12 |
| LCD1S | PCD008SC | 285 | 1 | NA | 20.0 | 10.0 | 04/09/1222:47 | 04/06/1210:15 | JD09029 | JD09025 | PCD008S | NA | 04/06/12 |
| SL-025-NBZ-SS-0.0-0.5 | D004-01 | ND | 1 | 8.2 | 21.8 | 10.9 | 04/09/1223:08 | 04/06/1210:15 | JD09030 | JD09025 | PCD008S | 04/02/1210:05 | 04/02/12 |
| SL-026-NBZ-SS-0.0-0.5 | D004-02 | ND | 1 | 7.0 | 21.5 | 10.8 | 04/09/1223:29 | 04/06/1210:15 | JD09031 | JD09025 | PCD008S | 04/02/1209:10 | 04/02/12 |
| SL-027-NBZ-SS-0.0-0.5 | D004-03 | ND | 1 | 14.0 | 23.3 | 11.6 | 04/09/1223:50 | 04/06/1210:15 | JD09032 | JD09025 | PCD008S | 04/02/1210:05 | 04/02/12 |
| SL-028-NBZ-SS-0.0-0.5 | D004-04 | ND | 1 | 9.2 | 22.0 | 11.0 | 04/10/1200:11 | 04/06/1210:15 | JD09033 | JD09025 | PCD008S | 04/02/1209:10 | 04/02/12 |
| SL-107-NBZ-SS-0.0-0.5 | D004-05 | ND | 1 | 12.0 | 22.7 | 11.4 | 04/10/1200:32 | 04/06/1210:15 | JD09034 | JD09025 | PCD008S | 04/02/1213:58 | 04/02/12 |
| SL-111-NBZ-SS-0.0-0.5 | D004-06 | ND | 1 | 20.7 | 25.2 | 12.6 | 04/10/1201:35 | 04/06/1210:15 | JD09037 | JD09036 | PCD008S | 04/02/1213:33 | 04/02/12 |
| SL-112-NBZ-SS-0.0-0.5 | D004-07 | ND | 1 | 9.4 | 22.1 | 11.0 | 04/10/1201:56 | 04/06/1210:15 | JD09038 | JD09036 | PCD008S | 04/02/1210:40 | 04/02/12 |
| SL-113-NBZ-SS-0.0-0.5 | D004-08 | ND | 1 | 8.6 | 21.9 | 10.9 | 04/10/1202:17 | 04/06/1210:15 | JD09039 | JD09036 | PCD008S | 04/02/1209:29 | 04/02/12 |
| SL-138-NBZ-SS-0.0-0.5 | D004-09 | ND | 1 | 11.4 | 22.6 | 11.3 | 04/10/1202:38 | 04/06/1210:15 | JD09040 | JD09036 | PCD008S | 04/02/1210:11 | 04/02/12 |
| SL-194-NBZ-SS-0.0-0.5 | D004-10 | ND | 1 | 11.1 | 22.5 | 11.2 | 04/10/1202:59 | 04/06/1210:15 | JD09041 | JD09036 | PCD008S | 04/02/1214:40 | 04/02/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD008SB | PCD008SL | PCD008SC | | |
| LAB FILE ID: | JD09026 | JD09028 | JD09029 | | |
| DATE EXTRACTED: | 04/06/1210:15 | 04/06/1210:15 | 04/06/1210:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/09/1221:44 | 04/09/1222:26 | 04/09/1222:47 | DATE RECEIVED: | 04/06/12 |
| PREP. BATCH: | PCD008S | PCD008S | PCD008S | | |
| CALIB. REF: | JD09025 | JD09025 | JD09025 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 280 | 112 | 250 | 285 | 114 | 2 | 85-115 | 15 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D004

Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CND003SB | ND | 1 | NA | 0.500 | 0.250 | 04/06/1217:46 | 04/06/1211:00 | CND00310 | CND00308 | CND003S | NA | 04/06/12 |
| LCS1S | CND003SL | 2.34 | 1 | NA | 0.500 | 0.250 | 04/06/1217:46 | 04/06/1211:00 | CND00311 | CND00308 | CND003S | NA | 04/06/12 |
| LCD1S | CND003SC | 2.30 | 1 | NA | 0.500 | 0.250 | 04/06/1217:46 | 04/06/1211:00 | CND00312 | CND00308 | CND003S | NA | 04/06/12 |
| SL-025-NBZ-SS-0.0-0.5 | D004-01 | ND | 1 | 8.2 | 0.545 | 0.272 | 04/06/1217:48 | 04/06/1211:00 | CND00317 | CND00308 | CND003S | 04/02/1210:05 | 04/02/12 |
| SL-025-NBZ-SS-0.0-0.5DUP | D004-01D | ND | 1 | 8.2 | 0.545 | 0.272 | 04/06/1217:48 | 04/06/1211:00 | CND00318 | CND00308 | CND003S | 04/02/1210:05 | 04/02/12 |
| SL-025-NBZ-SS-0.0-0.5MS | D004-01M | 2.47 | 1 | 8.2 | 0.545 | 0.272 | 04/06/1217:48 | 04/06/1211:00 | CND00319 | CND00308 | CND003S | 04/02/1210:05 | 04/02/12 |
| SL-026-NBZ-SS-0.0-0.5 | D004-02 | ND | 1 | 7.0 | 0.538 | 0.269 | 04/06/1217:49 | 04/06/1211:00 | CND00322 | CND00320 | CND003S | 04/02/1209:10 | 04/02/12 |
| SL-027-NBZ-SS-0.0-0.5 | D004-03 | ND | 1 | 14.0 | 0.581 | 0.291 | 04/06/1217:49 | 04/06/1211:00 | CND00323 | CND00320 | CND003S | 04/02/1210:05 | 04/02/12 |
| SL-028-NBZ-SS-0.0-0.5 | D004-04 | ND | 1 | 9.2 | 0.551 | 0.275 | 04/06/1217:49 | 04/06/1211:00 | CND00324 | CND00320 | CND003S | 04/02/1209:10 | 04/02/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D004
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CND003SL/C

DATE RECEIVED: 04/06/12
DATE EXTRACTED: 04/06/1211:00
DATE ANALYZED: 04/06/1217:46/17:46

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.34 | 94 | 2.50 | 2.30 | 92 | 2 | 85-125 | 20 |

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: 8.2

BATCH NO.: 12D004 DATE RECEIVED: 04/02/12
SAMPLE ID: SL-025-NBZ-SS-0.0-0.5MS DATE EXTRACTED: 04/06/1211:00
CONTROL NO.: D004-01M DATE ANALYZED: 04/06/1217:48

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Cyanide | ND | 2.70 | 2.47 | 91 | 75-125 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: 8.2

BATCH NO.: 12D004 DATE RECEIVED: 04/02/12
SAMPLE ID: SL-025-NBZ-SS-0.0-0.5DUP DATE EXTRACTED: 04/06/1211:00
CONTROL NO.: D004-01D DATE ANALYZED: 04/06/1217:48

ACCESSION:

| PARAMETER | SAMPLE (mg/kg) | DUP. SAMPLE (mg/kg) | RPD ( % ) | RPD LIMIT ( % ) |
|---|---|---|---|---|
| Cyanide | ND | ND | 0 | 20 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D004
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-025-NBZ-SS-0.0-0.5 | D004-01 | 6.36 | 1 | NA | NA | NA | 04/03/1216:31 | 04/03/1216:31 | 12PHD002S01 | PHD002S | PHD002S | 04/02/1210:05 | 04/02/12 |
| SL-025-NBZ-SS-0.0-0.5DUP | D004-01D | 6.33 | 1 | NA | NA | NA | 04/03/1216:32 | 04/03/1216:31 | 12PHD002S02 | PHD002S | PHD002S | 04/02/1210:05 | 04/02/12 |
| SL-026-NBZ-SS-0.0-0.5 | D004-02 | 6.72 | 1 | NA | NA | NA | 04/03/1216:34 | 04/03/1216:31 | 12PHD002S03 | PHD002S | PHD002S | 04/02/1209:10 | 04/02/12 |
| SL-027-NBZ-SS-0.0-0.5 | D004-03 | 7.14 | 1 | NA | NA | NA | 04/03/1216:37 | 04/03/1216:31 | 12PHD002S04 | PHD002S | PHD002S | 04/02/1210:05 | 04/02/12 |
| SL-028-NBZ-SS-0.0-0.5 | D004-04 | 6.97 | 1 | NA | NA | NA | 04/03/1216:38 | 04/03/1216:31 | 12PHD002S05 | PHD002S | PHD002S | 04/02/1209:10 | 04/02/12 |
| SL-107-NBZ-SS-0.0-0.5 | D004-05 | 6.76 | 1 | NA | NA | NA | 04/03/1216:40 | 04/03/1216:31 | 12PHD002S06 | PHD002S | PHD002S | 04/02/1213:58 | 04/02/12 |
| SL-111-NBZ-SS-0.0-0.5 | D004-06 | 6.31 | 1 | NA | NA | NA | 04/03/1216:43 | 04/03/1216:31 | 12PHD002S07 | PHD002S | PHD002S | 04/02/1213:33 | 04/02/12 |
| SL-112-NBZ-SS-0.0-0.5 | D004-07 | 6.33 | 1 | NA | NA | NA | 04/03/1216:45 | 04/03/1216:31 | 12PHD002S08 | PHD002S | PHD002S | 04/02/1210:40 | 04/02/12 |
| SL-113-NBZ-SS-0.0-0.5 | D004-08 | 6.64 | 1 | NA | NA | NA | 04/03/1216:47 | 04/03/1216:31 | 12PHD002S09 | PHD002S | PHD002S | 04/02/1209:29 | 04/02/12 |
| SL-138-NBZ-SS-0.0-0.5 | D004-09 | 6.56 | 1 | NA | NA | NA | 04/03/1216:48 | 04/03/1216:31 | 12PHD002S10 | PHD002S | PHD002S | 04/02/1210:11 | 04/02/12 |
| SL-194-NBZ-SS-0.0-0.5 | D004-10 | 6.69 | 1 | NA | NA | NA | 04/03/1216:49 | 04/03/1216:31 | 12PHD002S11 | PHD002S | PHD002S | 04/02/1214:40 | 04/02/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D004 DATE RECEIVED: 04/02/12
SAMPLE ID: SL-025-NBZ-SS-0.0-0.5DUP DATE EXTRACTED: 04/03/1216:31
CONTROL NO.: D004-01D DATE ANALYZED: 04/03/1216:32

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | RPD (pH Unit) | RPD LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 6.36 | 6.33 | 0.03 | 0.1 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D004
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD004SB | ND | 1 | NA | 1.00 | 0.500 | 04/05/1223:51 | 04/04/1216:37 | AD07-52 | AD07-50 | ICD004S | NA | 04/04/12 |
| LCS1S | ICD004SL | 5.87 | 1 | NA | 1.00 | 0.500 | 04/06/1200:07 | 04/04/1216:37 | AD07-53 | AD07-50 | ICD004S | NA | 04/04/12 |
| LCD1S | ICD004SC | 5.89 | 1 | NA | 1.00 | 0.500 | 04/06/1200:23 | 04/04/1216:37 | AD07-54 | AD07-50 | ICD004S | NA | 04/04/12 |
| SL-025-NBZ-SS-0.0-0.5 | D004-01 | ND | 1 | 8.2 | 1.09 | 0.545 | 04/06/1201:28 | 04/04/1216:37 | AD07-58 | AD07-50 | ICD004S | 04/02/1210:05 | 04/02/12 |
| SL-026-NBZ-SS-0.0-0.5 | D004-02 | ND | 1 | 7.0 | 1.08 | 0.538 | 04/06/1201:44 | 04/04/1216:37 | AD07-59 | AD07-50 | ICD004S | 04/02/1209:10 | 04/02/12 |
| SL-027-NBZ-SS-0.0-0.5 | D004-03 | ND | 1 | 14.0 | 1.16 | 0.581 | 04/06/1202:00 | 04/04/1216:37 | AD07-60 | AD07-50 | ICD004S | 04/02/1210:05 | 04/02/12 |
| SL-028-NBZ-SS-0.0-0.5 | D004-04 | ND | 1 | 9.2 | 1.10 | 0.551 | 04/06/1203:05 | 04/04/1216:37 | AD07-64 | AD07-62 | ICD004S | 04/02/1209:10 | 04/02/12 |
| SL-107-NBZ-SS-0.0-0.5 | D004-05 | ND | 1 | 12.0 | 1.14 | 0.568 | 04/06/1203:21 | 04/04/1216:37 | AD07-65 | AD07-62 | ICD004S | 04/02/1213:58 | 04/02/12 |
| SL-107-NBZ-SS-0.0-0.5MS | D004-05M | 7.01 | 1 | 12.0 | 1.14 | 0.568 | 04/06/1203:37 | 04/04/1216:37 | AD07-66 | AD07-62 | ICD004S | 04/02/1213:58 | 04/02/12 |
| SL-107-NBZ-SS-0.0-0.5MSD | D004-05S | 7.02 | 1 | 12.0 | 1.14 | 0.568 | 04/06/1203:53 | 04/04/1216:37 | AD07-67 | AD07-62 | ICD004S | 04/02/1213:58 | 04/02/12 |
| SL-111-NBZ-SS-0.0-0.5 | D004-06 | ND | 1 | 20.7 | 1.26 | 0.631 | 04/06/1204:09 | 04/04/1216:37 | AD07-68 | AD07-62 | ICD004S | 04/02/1213:33 | 04/02/12 |
| SL-112-NBZ-SS-0.0-0.5 | D004-07 | ND | 1 | 9.4 | 1.10 | 0.552 | 04/06/1204:26 | 04/04/1216:37 | AD07-69 | AD07-62 | ICD004S | 04/02/1210:40 | 04/02/12 |
| SL-113-NBZ-SS-0.0-0.5 | D004-08 | ND | 1 | 8.6 | 1.09 | 0.547 | 04/06/1204:42 | 04/04/1216:37 | AD07-70 | AD07-62 | ICD004S | 04/02/1209:29 | 04/02/12 |
| SL-138-NBZ-SS-0.0-0.5 | D004-09 | ND | 1 | 11.4 | 1.13 | 0.564 | 04/06/1204:58 | 04/04/1216:37 | AD07-71 | AD07-62 | ICD004S | 04/02/1210:11 | 04/02/12 |
| SL-194-NBZ-SS-0.0-0.5 | D004-10 | ND | 1 | 11.1 | 1.12 | 0.562 | 04/06/1205:14 | 04/04/1216:37 | AD07-72 | AD07-62 | ICD004S | 04/02/1214:40 | 04/02/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD004SB | ICD004SL | ICD004SC | | |
| LAB FILE ID: | AD07-52 | AD07-53 | AD07-54 | | |
| DATE EXTRACTED: | 04/04/1216:37 | 04/04/1216:37 | 04/04/1216:37 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/05/1223:51 | 04/06/1200:07 | 04/06/1200:23 | DATE RECEIVED: | 04/04/12 |
| PREP. BATCH: | ICD004S | ICD004S | ICD004S | | |
| CALIB. REF: | AD07-50 | AD07-50 | AD07-50 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 5.87 | 98 | 6.00 | 5.89 | 98 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: 300.0

MATRIX: SOIL % MOISTURE: 12.0

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-107-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D004-05 | D004-05M | D004-05S | | |
| LAB FILE ID: | AD07-65 | AD07-66 | AD07-67 | | |
| DATE EXTRACTED: | 04/04/1216:37 | 04/04/1216:37 | 04/04/1216:37 | DATE COLLECTED: | 04/02/12 13:58 |
| DATE ANALYZED: | 04/06/1203:21 | 04/06/1203:37 | 04/06/1203:53 | DATE RECEIVED: | 04/02/12 |
| PREP. BATCH: | ICD004S | ICD004S | ICD004S | | |
| CALIB. REF: | AD07-62 | AD07-62 | AD07-62 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.82 | 7.01 | 103 | 6.82 | 7.02 | 103 | 0 | 80-120 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D004
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD004SB | ND | 1 | NA | 1.50 | 0.750 | 04/05/1223:51 | 04/04/1216:37 | AD07-52 | AD07-50 | ICD004S | NA | 04/04/12 |
| LCS1S | ICD004SL | 25.6 | 1 | NA | 1.50 | 0.750 | 04/06/1200:07 | 04/04/1216:37 | AD07-53 | AD07-50 | ICD004S | NA | 04/04/12 |
| LCD1S | ICD004SC | 25.6 | 1 | NA | 1.50 | 0.750 | 04/06/1200:23 | 04/04/1216:37 | AD07-54 | AD07-50 | ICD004S | NA | 04/04/12 |
| SL-025-NBZ-SS-0.0-0.5 | D004-01 | ND | 1 | 8.2 | 1.63 | 0.817 | 04/06/1201:28 | 04/04/1216:37 | AD07-58 | AD07-50 | ICD004S | 04/02/1210:05 | 04/02/12 |
| SL-026-NBZ-SS-0.0-0.5 | D004-02 | 5.72 | 1 | 7.0 | 1.61 | 0.806 | 04/06/1201:44 | 04/04/1216:37 | AD07-59 | AD07-50 | ICD004S | 04/02/1209:10 | 04/02/12 |
| SL-027-NBZ-SS-0.0-0.5 | D004-03 | 4.28 | 1 | 14.0 | 1.74 | 0.872 | 04/06/1202:00 | 04/04/1216:37 | AD07-60 | AD07-50 | ICD004S | 04/02/1210:05 | 04/02/12 |
| SL-028-NBZ-SS-0.0-0.5 | D004-04 | 8.02 | 1 | 9.2 | 1.65 | 0.826 | 04/06/1203:05 | 04/04/1216:37 | AD07-64 | AD07-62 | ICD004S | 04/02/1209:10 | 04/02/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD004SB | ICD004SL | ICD004SC | | |
| LAB FILE ID: | AD07-52 | AD07-53 | AD07-54 | | |
| DATE EXTRACTED: | 04/04/1216:37 | 04/04/1216:37 | 04/04/1216:37 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/05/1223:51 | 04/06/1200:07 | 04/06/1200:23 | DATE RECEIVED: | 04/04/12 |
| PREP. BATCH: | ICD004S | ICD004S | ICD004S | | |
| CALIB. REF: | AD07-50 | AD07-50 | AD07-50 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 25.6 | 96 | 26.6 | 25.6 | 96 | 0 | 90-110 | 20 |

METHOD 6850
PERCHLORATE BY LC/MS

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D004
Matrix : SOIL
Instrument ID : G0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PLD001SB | ND | 1 | NA | 5.00 | 2.50 | 04/11/1213:08 | 04/10/1215:15 | ND11004 | ND11003 | PLD001S | NA | 04/10/12 |
| LCS1S | PLD001SL | 25.1 | 1 | NA | 5.00 | 2.50 | 04/11/1213:22 | 04/10/1215:15 | ND11005 | ND11003 | PLD001S | NA | 04/10/12 |
| LCD1S | PLD001SC | 23.0 | 1 | NA | 5.00 | 2.50 | 04/11/1213:37 | 04/10/1215:15 | ND11006 | ND11003 | PLD001S | NA | 04/10/12 |
| SL-111-NBZ-SS-0.0-0.5 | D004-06 | ND | 1 | 20.7 | 6.31 | 3.15 | 04/11/1213:51 | 04/10/1215:15 | ND11007 | ND11003 | PLD001S | 04/02/1213:33 | 04/02/12 |
| SL-138-NBZ-SS-0.0-0.5 | D004-09 | ND | 1 | 11.4 | 5.64 | 2.82 | 04/11/1214:05 | 04/10/1215:15 | ND11008 | ND11003 | PLD001S | 04/02/1210:11 | 04/02/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: METHOD 6850

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PLD001SB | PLD001SL | PLD001SC | | |
| LAB FILE ID: | ND11004 | ND11005 | ND11006 | | |
| DATE EXTRACTED: | 04/10/1215:15 | 04/10/1215:15 | 04/10/1215:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1213:08 | 04/11/1213:22 | 04/11/1213:37 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | PLD001S | PLD001S | PLD001S | | |
| CALIB. REF: | ND11003 | ND11003 | ND11003 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 25.0 | 25.1 | 101 | 25.0 | 23.0 | 92 | 9 | 85-115 | 15 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D004
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD005SB | ND | 1 | NA | 1.00 | 0.500 | 04/06/1219:11 | 04/05/1215:09 | ID07003 | ID07001 | HCD005S | NA | 04/05/12 |
| MBLK1S | HCD005SQ | ND | 1 | NA | 1.00 | 0.500 | 04/06/1219:22 | 04/05/1215:09 | ID07004 | ID07001 | HCD005S | NA | 04/05/12 |
| LCS1S | CSD005SL | 10.2 | 1 | NA | 1.00 | 0.500 | 04/06/1219:32 | 04/05/1215:09 | ID07005 | ID07001 | HCD005S | NA | 04/05/12 |
| LCS1S | CSD005SX | 9.99 | 1 | NA | 1.00 | 0.500 | 04/06/1219:43 | 04/05/1215:09 | ID07006 | ID07001 | HCD005S | NA | 04/05/12 |
| LCS2S | CID005SL | 365 | 20 | NA | 20.0 | 10.0 | 04/06/1219:53 | 04/05/1215:09 | ID07007 | ID07001 | HCD005S | NA | 04/05/12 |
| LCS2S | CID005SX | 372 | 20 | NA | 20.0 | 10.0 | 04/06/1220:03 | 04/05/1215:09 | ID07008 | ID07001 | HCD005S | NA | 04/05/12 |
| SL-025-NBZ-SS-0.0-0.5 | D004-01 | ND | 1 | 8.2 | 1.09 | 0.545 | 04/06/1220:35 | 04/05/1215:09 | ID07011 | ID07001 | HCD005S | 04/02/1210:05 | 04/02/12 |
| SL-025-NBZ-SS-0.0-0.5 | D004-01R | ND | 1 | 8.2 | 1.09 | 0.545 | 04/06/1220:45 | 04/05/1215:09 | ID07012 | ID07001 | HCD005S | 04/02/1210:05 | 04/02/12 |
| SL-026-NBZ-SS-0.0-0.5 | D004-02 | ND | 1 | 7.0 | 1.08 | 0.538 | 04/06/1223:42 | 04/05/1215:09 | ID07027 | ID07025 | HCD005S | 04/02/1209:10 | 04/02/12 |
| SL-026-NBZ-SS-0.0-0.5 | D004-02R | ND | 1 | 7.0 | 1.08 | 0.538 | 04/06/1223:52 | 04/05/1215:09 | ID07028 | ID07025 | HCD005S | 04/02/1209:10 | 04/02/12 |
| SL-027-NBZ-SS-0.0-0.5 | D004-03 | ND | 1 | 14.0 | 1.16 | 0.581 | 04/07/1200:03 | 04/05/1215:09 | ID07029 | ID07025 | HCD005S | 04/02/1210:05 | 04/02/12 |
| SL-027-NBZ-SS-0.0-0.5 | D004-03R | ND | 1 | 14.0 | 1.16 | 0.581 | 04/07/1200:13 | 04/05/1215:09 | ID07030 | ID07025 | HCD005S | 04/02/1210:05 | 04/02/12 |
| SL-028-NBZ-SS-0.0-0.5 | D004-04 | ND | 1 | 9.2 | 1.10 | 0.551 | 04/07/1200:23 | 04/05/1215:09 | ID07031 | ID07025 | HCD005S | 04/02/1209:10 | 04/02/12 |
| SL-028-NBZ-SS-0.0-0.5 | D004-04R | ND | 1 | 9.2 | 1.10 | 0.551 | 04/07/1200:34 | 04/05/1215:09 | ID07032 | ID07025 | HCD005S | 04/02/1209:10 | 04/02/12 |
| SL-107-NBZ-SS-0.0-0.5 | D004-05 | ND | 1 | 12.0 | 1.14 | 0.568 | 04/07/1200:44 | 04/05/1215:09 | ID07033 | ID07025 | HCD005S | 04/02/1213:58 | 04/02/12 |
| SL-107-NBZ-SS-0.0-0.5 | D004-05R | ND | 1 | 12.0 | 1.14 | 0.568 | 04/07/1200:55 | 04/05/1215:09 | ID07034 | ID07025 | HCD005S | 04/02/1213:58 | 04/02/12 |
| SL-111-NBZ-SS-0.0-0.5 | D004-06 | ND | 1 | 20.7 | 1.26 | 0.631 | 04/07/1201:05 | 04/05/1215:09 | ID07035 | ID07025 | HCD005S | 04/02/1213:33 | 04/02/12 |
| SL-111-NBZ-SS-0.0-0.5 | D004-06R | ND | 1 | 20.7 | 1.26 | 0.631 | 04/07/1201:15 | 04/05/1215:09 | ID07036 | ID07025 | HCD005S | 04/02/1213:33 | 04/02/12 |
| SL-112-NBZ-SS-0.0-0.5 | D004-07 | ND | 1 | 9.4 | 1.10 | 0.552 | 04/07/1201:57 | 04/05/1215:09 | ID07039 | ID07037 | HCD005S | 04/02/1210:40 | 04/02/12 |
| SL-112-NBZ-SS-0.0-0.5 | D004-07R | ND | 1 | 9.4 | 1.10 | 0.552 | 04/07/1202:07 | 04/05/1215:09 | ID07040 | ID07037 | HCD005S | 04/02/1210:40 | 04/02/12 |
| SL-113-NBZ-SS-0.0-0.5 | D004-08 | ND | 1 | 8.6 | 1.09 | 0.547 | 04/07/1202:18 | 04/05/1215:09 | ID07041 | ID07037 | HCD005S | 04/02/1209:29 | 04/02/12 |
| SL-113-NBZ-SS-0.0-0.5 | D004-08R | ND | 1 | 8.6 | 1.09 | 0.547 | 04/07/1202:28 | 04/05/1215:09 | ID07042 | ID07037 | HCD005S | 04/02/1209:29 | 04/02/12 |
| SL-138-NBZ-SS-0.0-0.5 | D004-09 | ND | 1 | 11.4 | 1.13 | 0.564 | 04/07/1202:39 | 04/05/1215:09 | ID07043 | ID07037 | HCD005S | 04/02/1210:11 | 04/02/12 |
| SL-138-NBZ-SS-0.0-0.5 | D004-09R | ND | 1 | 11.4 | 1.13 | 0.564 | 04/07/1202:49 | 04/05/1215:09 | ID07044 | ID07037 | HCD005S | 04/02/1210:11 | 04/02/12 |
| SL-194-NBZ-SS-0.0-0.5 | D004-10 | ND | 1 | 11.1 | 1.12 | 0.562 | 04/07/1202:59 | 04/05/1215:09 | ID07045 | ID07037 | HCD005S | 04/02/1214:40 | 04/02/12 |
| SL-194-NBZ-SS-0.0-0.5 | D004-10R | ND | 1 | 11.1 | 1.12 | 0.562 | 04/07/1203:10 | 04/05/1215:09 | ID07046 | ID07037 | HCD005S | 04/02/1214:40 | 04/02/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD005SQ CID005SX
LAB FILE ID: ID07004 ID07008
DATE EXTRACTED: 04/05/1215:09 04/05/1215:09 DATE COLLECTED: NA
DATE ANALYZED: 04/06/1219:22 04/06/1220:03 DATE RECEIVED: 04/05/12
PREP. BATCH: HCD005S HCD005S
CALIB. REF: ID07001 ID07001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 430 | 372 | 86 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D004
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD005SQ CSD005SX
LAB FILE ID: ID07004 ID07006
DATE EXTRACTED: 04/05/1215:09 04/05/1215:09 DATE COLLECTED: NA
DATE ANALYZED: 04/06/1219:22 04/06/1219:43 DATE RECEIVED: 04/05/12
PREP. BATCH: HCD005S HCD005S
CALIB. REF: ID07001 ID07001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 9.99 | 100 | 80-120 |

# SAMPLE DELIVERY GROUP

# 12D018

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-031-NBZ-SS-0.0-0.5 | Date Analyzed: 04/16/12 23:06 |
| Lab Samp ID: D018-01 | Dilution Factor: 1 |
| Lab File ID: RDH238 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 7.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 460 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 687 | 1085 | 63.3 | 35-130 |
| 2-FLUOROBIPHENYL | 184 | 361.5 | 50.9 | 45-130 |
| 2-FLUOROPHENOL | 627 | 1085 | 57.8 | 25-130 |
| NITROBENZENE-D5 | 187 | 361.5 | 51.6 | 40-130 |
| PHENOL-D5 | 701 | 1085 | 64.7 | 25-120 |
| TERPHENYL-D14 | 276 | 361.5 | 76.3 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-032-NBZ-SS-0.0-0.5 | Date Analyzed: 04/16/12 23:24 |
| Lab Samp ID: D018-02 | Dilution Factor: 1 |
| Lab File ID: RDH239 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 12.0 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 95 |
| 1,2-DICHLOROBENZENE | ND | 190 | 95 |
| 1,3-DICHLOROBENZENE | ND | 190 | 95 |
| 1,4-DICHLOROBENZENE | ND | 190 | 95 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 95 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 95 |
| 2,6-DINITROTOLUENE | ND | 190 | 95 |
| 2-CHLORONAPHTHALENE | ND | 190 | 95 |
| 2-CHLOROPHENOL | ND | 190 | 95 |
| 2-METHYLNAPHTHALENE | ND | 190 | 95 |
| 2-METHYLPHENOL | ND | 190 | 95 |
| 2-NITROANILINE | ND | 190 | 95 |
| 2-NITROPHENOL | ND | 190 | 95 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 95 |
| 3-NITROANILINE | ND | 190 | 95 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 95 |
| 4-CHLOROANILINE | ND | 190 | 95 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-METHYLPHENOL (1) | ND | 190 | 95 |
| 4-NITROANILINE | ND | 190 | 95 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 95 |
| ACENAPHTHYLENE | ND | 190 | 95 |
| ANTHRACENE | ND | 190 | 95 |
| BENZO(A)ANTHRACENE | ND | 190 | 95 |
| BENZO(A)PYRENE | ND | 190 | 95 |
| BENZO(B)FLUORANTHENE | ND | 190 | 95 |
| BENZO(K)FLUORANTHENE | ND | 190 | 95 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 95 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 95 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 95 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 95 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 95 |
| CHRYSENE | ND | 190 | 95 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 95 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 95 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 95 |
| DIBENZOFURAN | ND | 190 | 95 |
| DIETHYLPHTHALATE | ND | 190 | 95 |
| DIMETHYLPHTHALATE | ND | 190 | 95 |
| FLUORANTHENE | ND | 190 | 95 |
| FLUORENE | ND | 190 | 95 |
| HEXACHLOROBENZENE | ND | 190 | 95 |
| HEXACHLOROBUTADIENE | ND | 190 | 95 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 95 |
| HEXACHLOROETHANE | ND | 190 | 95 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 95 |
| ISOPHORONE | ND | 190 | 95 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 95 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 95 |
| NAPHTHALENE | ND | 190 | 95 |
| NITROBENZENE | ND | 190 | 95 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 95 |
| PHENOL | ND | 190 | 95 |
| PYRENE | ND | 190 | 95 |
| BENZYL ALCOHOL | ND | 190 | 95 |
| 1-METHYLNAPHTHALENE | ND | 190 | 95 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 95 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 95 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 940 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 95 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 95 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 900 | 1136 | 79.2 | 35-130 |
| 2-FLUOROBIPHENYL | 231 | 378.8 | 60.9 | 45-130 |
| 2-FLUOROPHENOL | 641 | 1136 | 56.4 | 25-130 |
| NITROBENZENE-D5 | 201 | 378.8 | 53.2 | 40-130 |
| PHENOL-D5 | 773 | 1136 | 68.0 | 25-120 |
| TERPHENYL-D14 | 333 | 378.8 | 87.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-033-NBZ-SS-0.0-0.5 | Date Analyzed: 04/16/12 23:43 |
| Lab Samp ID: D018-03 | Dilution Factor: 1 |
| Lab File ID: RDH240 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 8.9 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 370 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 909 | 1098 | 82.8 | 35-130 |
| 2-FLUOROBIPHENYL | 235 | 365.9 | 64.1 | 45-130 |
| 2-FLUOROPHENOL | 748 | 1098 | 68.1 | 25-130 |
| NITROBENZENE-D5 | 228 | 365.9 | 62.3 | 40-130 |
| PHENOL-D5 | 852 | 1098 | 77.7 | 25-120 |
| TERPHENYL-D14 | 364 | 365.9 | 99.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-034-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 00:02 |
| Lab Samp ID: D018-04 | Dilution Factor: 1 |
| Lab File ID: RDH241 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 16.4 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 400 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 400 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 400 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 400 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 400 | 200 |
| BENZIDINE | ND | 990 | 500 |
| BENZOIC ACID | ND | 800 | 400 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 969 | 1196 | 81.0 | 35-130 |
| 2-FLUOROBIPHENYL | 242 | 398.7 | 60.8 | 45-130 |
| 2-FLUOROPHENOL | 772 | 1196 | 64.6 | 25-130 |
| NITROBENZENE-D5 | 241 | 398.7 | 60.4 | 40-130 |
| PHENOL-D5 | 863 | 1196 | 72.2 | 25-120 |
| TERPHENYL-D14 | 364 | 398.7 | 91.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-035-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 00:20 |
| Lab Samp ID: D018-05 | Dilution Factor: 1 |
| Lab File ID: RDH242 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 11.9 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 95 |
| 1,2-DICHLOROBENZENE | ND | 190 | 95 |
| 1,3-DICHLOROBENZENE | ND | 190 | 95 |
| 1,4-DICHLOROBENZENE | ND | 190 | 95 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 95 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 95 |
| 2,6-DINITROTOLUENE | ND | 190 | 95 |
| 2-CHLORONAPHTHALENE | ND | 190 | 95 |
| 2-CHLOROPHENOL | ND | 190 | 95 |
| 2-METHYLNAPHTHALENE | ND | 190 | 95 |
| 2-METHYLPHENOL | ND | 190 | 95 |
| 2-NITROANILINE | ND | 190 | 95 |
| 2-NITROPHENOL | ND | 190 | 95 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 95 |
| 3-NITROANILINE | ND | 190 | 95 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 95 |
| 4-CHLOROANILINE | ND | 190 | 95 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-METHYLPHENOL (1) | ND | 190 | 95 |
| 4-NITROANILINE | ND | 190 | 95 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 95 |
| ACENAPHTHYLENE | ND | 190 | 95 |
| ANTHRACENE | ND | 190 | 95 |
| BENZO(A)ANTHRACENE | ND | 190 | 95 |
| BENZO(A)PYRENE | ND | 190 | 95 |
| BENZO(B)FLUORANTHENE | ND | 190 | 95 |
| BENZO(K)FLUORANTHENE | ND | 190 | 95 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 95 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 95 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 95 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 95 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 95 |
| CHRYSENE | ND | 190 | 95 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 95 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 95 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 95 |
| DIBENZOFURAN | ND | 190 | 95 |
| DIETHYLPHTHALATE | ND | 190 | 95 |
| DIMETHYLPHTHALATE | ND | 190 | 95 |
| FLUORANTHENE | ND | 190 | 95 |
| FLUORENE | ND | 190 | 95 |
| HEXACHLOROBENZENE | ND | 190 | 95 |
| HEXACHLOROBUTADIENE | ND | 190 | 95 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 95 |
| HEXACHLOROETHANE | ND | 190 | 95 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 95 |
| ISOPHORONE | ND | 190 | 95 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 95 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 95 |
| NAPHTHALENE | ND | 190 | 95 |
| NITROBENZENE | ND | 190 | 95 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 95 |
| PHENOL | ND | 190 | 95 |
| PYRENE | ND | 190 | 95 |
| BENZYL ALCOHOL | ND | 190 | 95 |
| 1-METHYLNAPHTHALENE | ND | 190 | 95 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 95 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 95 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 940 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 95 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 95 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 909 | 1135 | 80.1 | 35-130 |
| 2-FLUOROBIPHENYL | 235 | 378.3 | 62.1 | 45-130 |
| 2-FLUOROPHENOL | 763 | 1135 | 67.2 | 25-130 |
| NITROBENZENE-D5 | 235 | 378.3 | 62.0 | 40-130 |
| PHENOL-D5 | 833 | 1135 | 73.4 | 25-120 |
| TERPHENYL-D14 | 347 | 378.3 | 91.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-035-NBZ-SB-2.0-3.0 | Date Analyzed: 04/17/12 00:39 |
| Lab Samp ID: D018-07 | Dilution Factor: 1 |
| Lab File ID: RDH243 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 4.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 88 |
| 1,2-DICHLOROBENZENE | ND | 180 | 88 |
| 1,3-DICHLOROBENZENE | ND | 180 | 88 |
| 1,4-DICHLOROBENZENE | ND | 180 | 88 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 88 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 88 |
| 2,4-DICHLOROPHENOL | ND | 180 | 88 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 88 |
| 2,4-DINITROPHENOL | ND | 350 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 88 |
| 2,6-DINITROTOLUENE | ND | 180 | 88 |
| 2-CHLORONAPHTHALENE | ND | 180 | 88 |
| 2-CHLOROPHENOL | ND | 180 | 88 |
| 2-METHYLNAPHTHALENE | ND | 180 | 88 |
| 2-METHYLPHENOL | ND | 180 | 88 |
| 2-NITROANILINE | ND | 180 | 88 |
| 2-NITROPHENOL | ND | 180 | 88 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 88 |
| 3-NITROANILINE | ND | 180 | 88 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 88 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 88 |
| 4-CHLOROANILINE | ND | 180 | 88 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 88 |
| 4-METHYLPHENOL (1) | ND | 180 | 88 |
| 4-NITROANILINE | ND | 180 | 88 |
| 4-NITROPHENOL | ND | 350 | 180 |
| ACENAPHTHENE | ND | 180 | 88 |
| ACENAPHTHYLENE | ND | 180 | 88 |
| ANTHRACENE | ND | 180 | 88 |
| BENZO(A)ANTHRACENE | ND | 180 | 88 |
| BENZO(A)PYRENE | ND | 180 | 88 |
| BENZO(B)FLUORANTHENE | ND | 180 | 88 |
| BENZO(K)FLUORANTHENE | ND | 180 | 88 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 88 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 88 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 88 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 88 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 88 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 88 |
| CHRYSENE | ND | 180 | 88 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 88 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 88 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 88 |
| DIBENZOFURAN | ND | 180 | 88 |
| DIETHYLPHTHALATE | ND | 180 | 88 |
| DIMETHYLPHTHALATE | ND | 180 | 88 |
| FLUORANTHENE | ND | 180 | 88 |
| FLUORENE | ND | 180 | 88 |
| HEXACHLOROBENZENE | ND | 180 | 88 |
| HEXACHLOROBUTADIENE | ND | 180 | 88 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 88 |
| HEXACHLOROETHANE | ND | 180 | 88 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 88 |
| ISOPHORONE | ND | 180 | 88 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 88 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 88 |
| NAPHTHALENE | ND | 180 | 88 |
| NITROBENZENE | ND | 180 | 88 |
| PENTACHLOROPHENOL | ND | 350 | 180 |
| PHENANTHRENE | ND | 180 | 88 |
| PHENOL | ND | 180 | 88 |
| PYRENE | ND | 180 | 88 |
| BENZYL ALCOHOL | ND | 180 | 88 |
| 1-METHYLNAPHTHALENE | ND | 180 | 88 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 88 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 88 |
| ANILINE | ND | 350 | 180 |
| BENZIDINE | ND | 870 | 440 |
| BENZOIC ACID | ND | 700 | 350 |
| CARBAZOLE | ND | 180 | 88 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 88 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 919 | 1050 | 87.5 | 35-130 |
| 2-FLUOROBIPHENYL | 264 | 350.1 | 75.4 | 45-130 |
| 2-FLUOROPHENOL | 880 | 1050 | 83.7 | 25-130 |
| NITROBENZENE-D5 | 270 | 350.1 | 77.0 | 40-130 |
| PHENOL-D5 | 962 | 1050 | 91.6 | 25-120 |
| TERPHENYL-D14 | 366 | 350.1 | 105 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-108-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 00:58 |
| Lab Samp ID: D018-08 | Dilution Factor: 1 |
| Lab File ID: RDH244 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 5.7 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 89 |
| 1,2-DICHLOROBENZENE | ND | 180 | 89 |
| 1,3-DICHLOROBENZENE | ND | 180 | 89 |
| 1,4-DICHLOROBENZENE | ND | 180 | 89 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 89 |
| 2,4-DINITROPHENOL | ND | 350 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 89 |
| 2,6-DINITROTOLUENE | ND | 180 | 89 |
| 2-CHLORONAPHTHALENE | ND | 180 | 89 |
| 2-CHLOROPHENOL | ND | 180 | 89 |
| 2-METHYLNAPHTHALENE | ND | 180 | 89 |
| 2-METHYLPHENOL | ND | 180 | 89 |
| 2-NITROANILINE | ND | 180 | 89 |
| 2-NITROPHENOL | ND | 180 | 89 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 89 |
| 3-NITROANILINE | ND | 180 | 89 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 89 |
| 4-CHLOROANILINE | ND | 180 | 89 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-METHYLPHENOL (1) | ND | 180 | 89 |
| 4-NITROANILINE | ND | 180 | 89 |
| 4-NITROPHENOL | ND | 350 | 180 |
| ACENAPHTHENE | ND | 180 | 89 |
| ACENAPHTHYLENE | ND | 180 | 89 |
| ANTHRACENE | ND | 180 | 89 |
| BENZO(A)ANTHRACENE | ND | 180 | 89 |
| BENZO(A)PYRENE | ND | 180 | 89 |
| BENZO(B)FLUORANTHENE | ND | 180 | 89 |
| BENZO(K)FLUORANTHENE | ND | 180 | 89 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 89 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 89 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 89 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 89 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 89 |
| CHRYSENE | ND | 180 | 89 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 89 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 89 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 89 |
| DIBENZOFURAN | ND | 180 | 89 |
| DIETHYLPHTHALATE | ND | 180 | 89 |
| DIMETHYLPHTHALATE | ND | 180 | 89 |
| FLUORANTHENE | ND | 180 | 89 |
| FLUORENE | ND | 180 | 89 |
| HEXACHLOROBENZENE | ND | 180 | 89 |
| HEXACHLOROBUTADIENE | ND | 180 | 89 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 89 |
| HEXACHLOROETHANE | ND | 180 | 89 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 89 |
| ISOPHORONE | ND | 180 | 89 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 89 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 89 |
| NAPHTHALENE | ND | 180 | 89 |
| NITROBENZENE | ND | 180 | 89 |
| PENTACHLOROPHENOL | ND | 350 | 180 |
| PHENANTHRENE | ND | 180 | 89 |
| PHENOL | ND | 180 | 89 |
| PYRENE | ND | 180 | 89 |
| BENZYL ALCOHOL | ND | 180 | 89 |
| 1-METHYLNAPHTHALENE | ND | 180 | 89 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 89 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 89 |
| ANILINE | ND | 350 | 180 |
| BENZIDINE | ND | 880 | 450 |
| BENZOIC ACID | ND | 710 | 350 |
| CARBAZOLE | ND | 180 | 89 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 89 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 915 | 1060 | 86.3 | 35-130 |
| 2-FLUOROBIPHENYL | 267 | 353.4 | 75.4 | 45-130 |
| 2-FLUOROPHENOL | 871 | 1060 | 82.2 | 25-130 |
| NITROBENZENE-D5 | 274 | 353.4 | 77.6 | 40-130 |
| PHENOL-D5 | 964 | 1060 | 90.9 | 25-120 |
| TERPHENYL-D14 | 345 | 353.4 | 97.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-115-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 01:16 |
| Lab Samp ID: D018-09 | Dilution Factor: 1 |
| Lab File ID: RDH245 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 12.3 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 96 |
| 1,2-DICHLOROBENZENE | ND | 190 | 96 |
| 1,3-DICHLOROBENZENE | ND | 190 | 96 |
| 1,4-DICHLOROBENZENE | ND | 190 | 96 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 96 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 96 |
| 2,6-DINITROTOLUENE | ND | 190 | 96 |
| 2-CHLORONAPHTHALENE | ND | 190 | 96 |
| 2-CHLOROPHENOL | ND | 190 | 96 |
| 2-METHYLNAPHTHALENE | ND | 190 | 96 |
| 2-METHYLPHENOL | ND | 190 | 96 |
| 2-NITROANILINE | ND | 190 | 96 |
| 2-NITROPHENOL | ND | 190 | 96 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 96 |
| 3-NITROANILINE | ND | 190 | 96 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 96 |
| 4-CHLOROANILINE | ND | 190 | 96 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-METHYLPHENOL (1) | ND | 190 | 96 |
| 4-NITROANILINE | ND | 190 | 96 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 96 |
| ACENAPHTHYLENE | ND | 190 | 96 |
| ANTHRACENE | ND | 190 | 96 |
| BENZO(A)ANTHRACENE | ND | 190 | 96 |
| BENZO(A)PYRENE | ND | 190 | 96 |
| BENZO(B)FLUORANTHENE | ND | 190 | 96 |
| BENZO(K)FLUORANTHENE | ND | 190 | 96 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 96 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 96 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 96 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 96 |
| CHRYSENE | ND | 190 | 96 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 96 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 96 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 96 |
| DIBENZOFURAN | ND | 190 | 96 |
| DIETHYLPHTHALATE | ND | 190 | 96 |
| DIMETHYLPHTHALATE | ND | 190 | 96 |
| FLUORANTHENE | ND | 190 | 96 |
| FLUORENE | ND | 190 | 96 |
| HEXACHLOROBENZENE | ND | 190 | 96 |
| HEXACHLOROBUTADIENE | ND | 190 | 96 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 96 |
| HEXACHLOROETHANE | ND | 190 | 96 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 96 |
| ISOPHORONE | ND | 190 | 96 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 96 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 96 |
| NAPHTHALENE | ND | 190 | 96 |
| NITROBENZENE | ND | 190 | 96 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 96 |
| PHENOL | ND | 190 | 96 |
| PYRENE | ND | 190 | 96 |
| BENZYL ALCOHOL | ND | 190 | 96 |
| 1-METHYLNAPHTHALENE | ND | 190 | 96 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 96 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 96 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 950 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 96 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 96 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 947 | 1140 | 83.0 | 35-130 |
| 2-FLUOROBIPHENYL | 261 | 380.0 | 68.8 | 45-130 |
| 2-FLUOROPHENOL | 821 | 1140 | 72.0 | 25-130 |
| NITROBENZENE-D5 | 254 | 380.0 | 67.0 | 40-130 |
| PHENOL-D5 | 933 | 1140 | 81.8 | 25-120 |
| TERPHENYL-D14 | 349 | 380.0 | 91.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-122-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 01:35 |
| Lab Samp ID: D018-10 | Dilution Factor: 1 |
| Lab File ID: RDH246 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 12.1 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 96 |
| 1,2-DICHLOROBENZENE | ND | 190 | 96 |
| 1,3-DICHLOROBENZENE | ND | 190 | 96 |
| 1,4-DICHLOROBENZENE | ND | 190 | 96 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 96 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 96 |
| 2,6-DINITROTOLUENE | ND | 190 | 96 |
| 2-CHLORONAPHTHALENE | ND | 190 | 96 |
| 2-CHLOROPHENOL | ND | 190 | 96 |
| 2-METHYLNAPHTHALENE | ND | 190 | 96 |
| 2-METHYLPHENOL | ND | 190 | 96 |
| 2-NITROANILINE | ND | 190 | 96 |
| 2-NITROPHENOL | ND | 190 | 96 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 96 |
| 3-NITROANILINE | ND | 190 | 96 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 96 |
| 4-CHLOROANILINE | ND | 190 | 96 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-METHYLPHENOL (1) | ND | 190 | 96 |
| 4-NITROANILINE | ND | 190 | 96 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 96 |
| ACENAPHTHYLENE | ND | 190 | 96 |
| ANTHRACENE | ND | 190 | 96 |
| BENZO(A)ANTHRACENE | ND | 190 | 96 |
| BENZO(A)PYRENE | ND | 190 | 96 |
| BENZO(B)FLUORANTHENE | ND | 190 | 96 |
| BENZO(K)FLUORANTHENE | ND | 190 | 96 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 96 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 96 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 96 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 96 |
| CHRYSENE | ND | 190 | 96 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 96 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 96 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 96 |
| DIBENZOFURAN | ND | 190 | 96 |
| DIETHYLPHTHALATE | ND | 190 | 96 |
| DIMETHYLPHTHALATE | ND | 190 | 96 |
| FLUORANTHENE | ND | 190 | 96 |
| FLUORENE | ND | 190 | 96 |
| HEXACHLOROBENZENE | ND | 190 | 96 |
| HEXACHLOROBUTADIENE | ND | 190 | 96 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 96 |
| HEXACHLOROETHANE | ND | 190 | 96 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 96 |
| ISOPHORONE | ND | 190 | 96 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 96 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 96 |
| NAPHTHALENE | ND | 190 | 96 |
| NITROBENZENE | ND | 190 | 96 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 96 |
| PHENOL | ND | 190 | 96 |
| PYRENE | ND | 190 | 96 |
| BENZYL ALCOHOL | ND | 190 | 96 |
| 1-METHYLNAPHTHALENE | ND | 190 | 96 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 96 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 96 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 940 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 96 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 96 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 646 | 1138 | 56.8 | 35-130 |
| 2-FLUOROBIPHENYL | 165 | 379.2 | 43.5* | 45-130 |
| 2-FLUOROPHENOL | 590 | 1138 | 51.8 | 25-130 |
| NITROBENZENE-D5 | 173 | 379.2 | 45.6 | 40-130 |
| PHENOL-D5 | 647 | 1138 | 56.9 | 25-120 |
| TERPHENYL-D14 | 268 | 379.2 | 70.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-127-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 01:54 |
| Lab Samp ID: D018-11 | Dilution Factor: 1 |
| Lab File ID: RDH247 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 5.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 89 |
| 1,2-DICHLOROBENZENE | ND | 180 | 89 |
| 1,3-DICHLOROBENZENE | ND | 180 | 89 |
| 1,4-DICHLOROBENZENE | ND | 180 | 89 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 89 |
| 2,4-DINITROPHENOL | ND | 350 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 89 |
| 2,6-DINITROTOLUENE | ND | 180 | 89 |
| 2-CHLORONAPHTHALENE | ND | 180 | 89 |
| 2-CHLOROPHENOL | ND | 180 | 89 |
| 2-METHYLNAPHTHALENE | ND | 180 | 89 |
| 2-METHYLPHENOL | ND | 180 | 89 |
| 2-NITROANILINE | ND | 180 | 89 |
| 2-NITROPHENOL | ND | 180 | 89 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 89 |
| 3-NITROANILINE | ND | 180 | 89 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 89 |
| 4-CHLOROANILINE | ND | 180 | 89 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-METHYLPHENOL (1) | ND | 180 | 89 |
| 4-NITROANILINE | ND | 180 | 89 |
| 4-NITROPHENOL | ND | 350 | 180 |
| ACENAPHTHENE | ND | 180 | 89 |
| ACENAPHTHYLENE | ND | 180 | 89 |
| ANTHRACENE | ND | 180 | 89 |
| BENZO(A)ANTHRACENE | ND | 180 | 89 |
| BENZO(A)PYRENE | ND | 180 | 89 |
| BENZO(B)FLUORANTHENE | ND | 180 | 89 |
| BENZO(K)FLUORANTHENE | ND | 180 | 89 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 89 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 89 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 89 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 89 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 89 |
| CHRYSENE | ND | 180 | 89 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 89 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 89 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 89 |
| DIBENZOFURAN | ND | 180 | 89 |
| DIETHYLPHTHALATE | ND | 180 | 89 |
| DIMETHYLPHTHALATE | ND | 180 | 89 |
| FLUORANTHENE | ND | 180 | 89 |
| FLUORENE | ND | 180 | 89 |
| HEXACHLOROBENZENE | ND | 180 | 89 |
| HEXACHLOROBUTADIENE | ND | 180 | 89 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 89 |
| HEXACHLOROETHANE | ND | 180 | 89 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 89 |
| ISOPHORONE | ND | 180 | 89 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 89 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 89 |
| NAPHTHALENE | ND | 180 | 89 |
| NITROBENZENE | ND | 180 | 89 |
| PENTACHLOROPHENOL | ND | 350 | 180 |
| PHENANTHRENE | ND | 180 | 89 |
| PHENOL | ND | 180 | 89 |
| PYRENE | ND | 180 | 89 |
| BENZYL ALCOHOL | ND | 180 | 89 |
| 1-METHYLNAPHTHALENE | ND | 180 | 89 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 89 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 89 |
| ANILINE | ND | 350 | 180 |
| BENZIDINE | ND | 880 | 450 |
| BENZOIC ACID | ND | 710 | 350 |
| CARBAZOLE | ND | 180 | 89 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 89 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 799 | 1062 | 75.3 | 35-130 |
| 2-FLUOROBIPHENYL | 217 | 353.8 | 61.3 | 45-130 |
| 2-FLUOROPHENOL | 710 | 1062 | 66.8 | 25-130 |
| NITROBENZENE-D5 | 216 | 353.8 | 61.1 | 40-130 |
| PHENOL-D5 | 793 | 1062 | 74.7 | 25-120 |
| TERPHENYL-D14 | 313 | 353.8 | 88.4 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-140-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 02:12 |
| Lab Samp ID: D018-12 | Dilution Factor: 1 |
| Lab File ID: RDH248 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 13.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 97 |
| 1,2-DICHLOROBENZENE | ND | 190 | 97 |
| 1,3-DICHLOROBENZENE | ND | 190 | 97 |
| 1,4-DICHLOROBENZENE | ND | 190 | 97 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 97 |
| 2,4-DINITROPHENOL | ND | 390 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 97 |
| 2,6-DINITROTOLUENE | ND | 190 | 97 |
| 2-CHLORONAPHTHALENE | ND | 190 | 97 |
| 2-CHLOROPHENOL | ND | 190 | 97 |
| 2-METHYLNAPHTHALENE | ND | 190 | 97 |
| 2-METHYLPHENOL | ND | 190 | 97 |
| 2-NITROANILINE | ND | 190 | 97 |
| 2-NITROPHENOL | ND | 190 | 97 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 97 |
| 3-NITROANILINE | ND | 190 | 97 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 97 |
| 4-CHLOROANILINE | ND | 190 | 97 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-METHYLPHENOL (1) | ND | 190 | 97 |
| 4-NITROANILINE | ND | 190 | 97 |
| 4-NITROPHENOL | ND | 390 | 190 |
| ACENAPHTHENE | ND | 190 | 97 |
| ACENAPHTHYLENE | ND | 190 | 97 |
| ANTHRACENE | ND | 190 | 97 |
| BENZO(A)ANTHRACENE | ND | 190 | 97 |
| BENZO(A)PYRENE | ND | 190 | 97 |
| BENZO(B)FLUORANTHENE | ND | 190 | 97 |
| BENZO(K)FLUORANTHENE | ND | 190 | 97 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 97 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 97 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 97 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 97 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 97 |
| CHRYSENE | ND | 190 | 97 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 97 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 97 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 97 |
| DIBENZOFURAN | ND | 190 | 97 |
| DIETHYLPHTHALATE | ND | 190 | 97 |
| DIMETHYLPHTHALATE | ND | 190 | 97 |
| FLUORANTHENE | ND | 190 | 97 |
| FLUORENE | ND | 190 | 97 |
| HEXACHLOROBENZENE | ND | 190 | 97 |
| HEXACHLOROBUTADIENE | ND | 190 | 97 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 97 |
| HEXACHLOROETHANE | ND | 190 | 97 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 97 |
| ISOPHORONE | ND | 190 | 97 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 97 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 97 |
| NAPHTHALENE | ND | 190 | 97 |
| NITROBENZENE | ND | 190 | 97 |
| PENTACHLOROPHENOL | ND | 390 | 190 |
| PHENANTHRENE | ND | 190 | 97 |
| PHENOL | ND | 190 | 97 |
| PYRENE | ND | 190 | 97 |
| BENZYL ALCOHOL | ND | 190 | 97 |
| 1-METHYLNAPHTHALENE | ND | 190 | 97 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 97 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 97 |
| ANILINE | ND | 390 | 190 |
| BENZIDINE | ND | 960 | 490 |
| BENZOIC ACID | ND | 770 | 390 |
| CARBAZOLE | ND | 190 | 97 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 97 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 960 | 1160 | 82.7 | 35-130 |
| 2-FLUOROBIPHENYL | 265 | 386.7 | 68.4 | 45-130 |
| 2-FLUOROPHENOL | 834 | 1160 | 71.9 | 25-130 |
| NITROBENZENE-D5 | 255 | 386.7 | 66.0 | 40-130 |
| PHENOL-D5 | 958 | 1160 | 82.6 | 25-120 |
| TERPHENYL-D14 | 353 | 386.7 | 91.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-169-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 02:31 |
| Lab Samp ID: D018-13 | Dilution Factor: 1 |
| Lab File ID: RDH249 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 9.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 93 |
| 1,2-DICHLOROBENZENE | ND | 180 | 93 |
| 1,3-DICHLOROBENZENE | ND | 180 | 93 |
| 1,4-DICHLOROBENZENE | ND | 180 | 93 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 93 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 93 |
| 2,6-DINITROTOLUENE | ND | 180 | 93 |
| 2-CHLORONAPHTHALENE | ND | 180 | 93 |
| 2-CHLOROPHENOL | ND | 180 | 93 |
| 2-METHYLNAPHTHALENE | ND | 180 | 93 |
| 2-METHYLPHENOL | ND | 180 | 93 |
| 2-NITROANILINE | ND | 180 | 93 |
| 2-NITROPHENOL | ND | 180 | 93 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 93 |
| 3-NITROANILINE | ND | 180 | 93 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 93 |
| 4-CHLOROANILINE | ND | 180 | 93 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-METHYLPHENOL (1) | ND | 180 | 93 |
| 4-NITROANILINE | ND | 180 | 93 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 93 |
| ACENAPHTHYLENE | ND | 180 | 93 |
| ANTHRACENE | ND | 180 | 93 |
| BENZO(A)ANTHRACENE | ND | 180 | 93 |
| BENZO(A)PYRENE | ND | 180 | 93 |
| BENZO(B)FLUORANTHENE | ND | 180 | 93 |
| BENZO(K)FLUORANTHENE | ND | 180 | 93 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 93 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 93 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 93 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 93 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 93 |
| CHRYSENE | ND | 180 | 93 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 93 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 93 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 93 |
| DIBENZOFURAN | ND | 180 | 93 |
| DIETHYLPHTHALATE | ND | 180 | 93 |
| DIMETHYLPHTHALATE | ND | 180 | 93 |
| FLUORANTHENE | ND | 180 | 93 |
| FLUORENE | ND | 180 | 93 |
| HEXACHLOROBENZENE | ND | 180 | 93 |
| HEXACHLOROBUTADIENE | ND | 180 | 93 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 93 |
| HEXACHLOROETHANE | ND | 180 | 93 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 93 |
| ISOPHORONE | ND | 180 | 93 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 93 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 93 |
| NAPHTHALENE | ND | 180 | 93 |
| NITROBENZENE | ND | 180 | 93 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 93 |
| PHENOL | ND | 180 | 93 |
| PYRENE | ND | 180 | 93 |
| BENZYL ALCOHOL | ND | 180 | 93 |
| 1-METHYLNAPHTHALENE | ND | 180 | 93 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 93 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 93 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 920 | 460 |
| BENZOIC ACID | ND | 740 | 370 |
| CARBAZOLE | ND | 180 | 93 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 93 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 916 | 1106 | 82.8 | 35-130 |
| 2-FLUOROBIPHENYL | 221 | 368.7 | 60.1 | 45-130 |
| 2-FLUOROPHENOL | 652 | 1106 | 58.9 | 25-130 |
| NITROBENZENE-D5 | 202 | 368.7 | 54.9 | 40-130 |
| PHENOL-D5 | 777 | 1106 | 70.3 | 25-120 |
| TERPHENYL-D14 | 357 | 368.7 | 97.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-198-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 02:50 |
| Lab Samp ID: D018-14 | Dilution Factor: 1 |
| Lab File ID: RDH250 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 7.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 450 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 879 | 1082 | 81.2 | 35-130 |
| 2-FLUOROBIPHENYL | 234 | 360.7 | 64.8 | 45-130 |
| 2-FLUOROPHENOL | 696 | 1082 | 64.3 | 25-130 |
| NITROBENZENE-D5 | 218 | 360.7 | 60.4 | 40-130 |
| PHENOL-D5 | 803 | 1082 | 74.2 | 25-120 |
| TERPHENYL-D14 | 343 | 360.7 | 95.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/14/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: MBLK1S | Date Analyzed: 04/16/12 20:18 |
| Lab Samp ID: SVD028SB | Dilution Factor: 1 |
| Lab File ID: RDH229 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : NA |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 651 | 1000 | 65.1 | 35-130 |
| 2-FLUOROBIPHENYL | 206 | 333.3 | 61.9 | 45-130 |
| 2-FLUOROPHENOL | 674 | 1000 | 67.4 | 25-130 |
| NITROBENZENE-D5 | 199 | 333.3 | 59.7 | 40-130 |
| PHENOL-D5 | 722 | 1000 | 72.2 | 25-120 |
| TERPHENYL-D14 | 314 | 333.3 | 94.3 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVD028SB SVD028SL SVD028SC
LAB FILE ID: RDH229 RDH230 RDH231
DATE EXTRACTED: 04/14/1210:50 04/14/1210:50 04/14/1210:50 DATE COLLECTED: NA
DATE ANALYZED: 04/16/1220:18 04/16/1220:37 04/16/1220:56 DATE RECEIVED: 04/14/12
PREP. BATCH: SVD028S SVD028S SVD028S
CALIB. REF: RCH007 RCH007 RCH007

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 447 | 67 | 667 | 446 | 67 | 0 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 494 | 74 | 667 | 490 | 73 | 1 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 488 | 73 | 667 | 480 | 72 | 2 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 487 | 73 | 667 | 481 | 72 | 1 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 508 | 76 | 667 | 532 | 80 | 5 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 547 | 82 | 667 | 558 | 84 | 2 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 535 | 80 | 667 | 542 | 81 | 1 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 543 | 81 | 667 | 555 | 83 | 2 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 505 | 76 | 667 | 498 | 75 | 1 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 619 | 93 | 667 | 634 | 95 | 2 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 601 | 90 | 667 | 617 | 93 | 3 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 496 | 74 | 667 | 504 | 76 | 1 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 567 | 85 | 667 | 603 | 90 | 6 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 607 | 91 | 667 | 610 | 91 | 0 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 555 | 83 | 667 | 557 | 84 | 0 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 548 | 82 | 667 | 554 | 83 | 1 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 553 | 83 | 667 | 568 | 85 | 3 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 451 | 68 | 667 | 457 | 69 | 1 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 587 | 88 | 667 | 593 | 89 | 1 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 566 | 85 | 667 | 581 | 87 | 3 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 585 | 88 | 667 | 599 | 90 | 2 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 555 | 83 | 667 | 558 | 84 | 1 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 505 | 76 | 667 | 517 | 78 | 2 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 559 | 84 | 667 | 559 | 84 | 0 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 533 | 80 | 667 | 538 | 81 | 1 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 640 | 96 | 667 | 630 | 94 | 2 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 518 | 78 | 667 | 525 | 79 | 1 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 627 | 94 | 667 | 630 | 94 | 0 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 602 | 90 | 667 | 607 | 91 | 1 | 30-130 | 50 |
| Anthracene | ND | 667 | 553 | 83 | 667 | 549 | 82 | 1 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 614 | 92 | 667 | 597 | 89 | 3 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 580 | 87 | 667 | 559 | 84 | 4 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 629 | 94 | 667 | 615 | 92 | 2 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 620 | 93 | 667 | 597 | 90 | 4 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 642 | 96 | 667 | 632 | 95 | 2 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 599 | 90 | 667 | 612 | 92 | 2 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 618 | 93 | 667 | 612 | 92 | 1 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 570 | 85 | 667 | 567 | 85 | 1 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 647 | 97 | 667 | 624 | 94 | 4 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 656 | 98 | 667 | 646 | 97 | 2 | 40-150 | 50 |
| Chrysene | ND | 667 | 635 | 95 | 667 | 620 | 93 | 2 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 585 | 88 | 667 | 575 | 86 | 2 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 629 | 94 | 667 | 599 | 90 | 5 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 632 | 95 | 667 | 598 | 90 | 6 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 578 | 87 | 667 | 582 | 87 | 1 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 571 | 86 | 667 | 570 | 85 | 0 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 562 | 84 | 667 | 562 | 84 | 0 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 602 | 90 | 667 | 587 | 88 | 2 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 608 | 91 | 667 | 617 | 92 | 1 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 525 | 79 | 667 | 530 | 79 | 1 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 464 | 70 | 667 | 466 | 70 | 0 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 323 | 48 | 667 | 339 | 51 | 5 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 426 | 64 | 667 | 420 | 63 | 1 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 606 | 91 | 667 | 588 | 88 | 3 | 30-140 | 50 |
| Isophorone | ND | 667 | 566 | 85 | 667 | 574 | 86 | 1 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 506 | 76 | 667 | 512 | 77 | 1 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 428 | 64 | 667 | 430 | 65 | 1 | 30-140 | 50 |
| Naphthalene | ND | 667 | 596 | 89 | 667 | 590 | 88 | 1 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 560 | 84 | 667 | 566 | 85 | 1 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 524 | 79 | 667 | 536 | 80 | 2 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 579 | 87 | 667 | 580 | 87 | 0 | 30-130 | 50 |
| Phenol | ND | 667 | 578 | 87 | 667 | 575 | 86 | 1 | 30-130 | 50 |
| Pyrene | ND | 667 | 638 | 96 | 667 | 592 | 89 | 8 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 600 | 90 | 667 | 602 | 90 | 0 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 614 | 92 | 667 | 618 | 93 | 1 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 540 | 81 | 667 | 544 | 82 | 1 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 585 | 88 | 667 | 595 | 89 | 2 | 20-150 | 50 |
| Aniline | ND | 667 | 398 | 60 | 667 | 416 | 62 | 4 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1190 | 45 | 2670 | 1110 | 42 | 7 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 1720 | 65 | 2670 | 1400 | 52 | 21 | 10-130 | 50 |
| Carbazole | ND | 667 | 571 | 86 | 667 | 563 | 85 | 1 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 731 | 110 | 667 | 723 | 108 | 1 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 781 | 78 | 1000 | 773 | 77 | 35-130 |
| 2-Fluorobiphenyl | 333 | 232 | 69 | 333 | 225 | 67 | 45-130 |
| 2-Fluorophenol | 1000 | 788 | 79 | 1000 | 756 | 76 | 25-130 |
| Nitrobenzene-d5 | 333 | 237 | 71 | 333 | 229 | 69 | 40-130 |
| Phenol-d5 | 1000 | 848 | 85 | 1000 | 828 | 83 | 25-120 |
| Terphenyl-d14 | 333 | 307 | 92 | 333 | 290 | 87 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: 7.8

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-031-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D018-01 | D018-01M | D018-01S | | |
| LAB FILE ID: | RDH238 | RDH234 | RDH235 | | |
| DATE EXTRACTED: | 04/14/1210:50 | 04/14/1210:50 | 04/14/1210:50 | DATE COLLECTED: | 04/03/12 |
| DATE ANALYZED: | 04/16/1223:06 | 04/16/1221:51 | 04/16/1222:10 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | SVD028S | SVD028S | SVD028S | | |
| CALIB. REF: | RCH007 | RCH007 | RCH007 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 723 | 315 | 44 | 723 | 398 | 55 | 23 | 10-130 | 50 |
| 1,2-Dichlorobenzene | ND | 723 | 316 | 44 | 723 | 380 | 53 | 18 | 30-130 | 50 |
| 1,3-Dichlorobenzene | ND | 723 | 292 | 40 | 723 | 346 | 48 | 17 | 30-130 | 50 |
| 1,4-Dichlorobenzene | ND | 723 | 298 | 41 | 723 | 357 | 49 | 18 | 10-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 723 | 457 | 63 | 723 | 531 | 73 | 15 | 30-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 723 | 463 | 64 | 723 | 558 | 77 | 19 | 30-130 | 50 |
| 2,4-Dichlorophenol | ND | 723 | 405 | 56 | 723 | 509 | 70 | 23 | 30-130 | 50 |
| 2,4-Dimethylphenol | ND | 723 | 403 | 56 | 723 | 499 | 69 | 21 | 30-130 | 50 |
| 2,4-Dinitrophenol | ND | 723 | 458 | 63 | 723 | 553 | 76 | 19 | 10-130 | 50 |
| 2,4-Dinitrotoluene | ND | 723 | 594 | 82 | 723 | 697 | 96 | 16 | 20-130 | 50 |
| 2,6-Dinitrotoluene | ND | 723 | 528 | 73 | 723 | 638 | 88 | 19 | 30-130 | 50 |
| 2-Chloronaphthalene | ND | 723 | 421 | 58 | 723 | 521 | 72 | 21 | 30-130 | 50 |
| 2-Chlorophenol | ND | 723 | 418 | 58 | 723 | 524 | 72 | 23 | 20-130 | 50 |
| 2-Methylnaphthalene | ND | 723 | 445 | 62 | 723 | 558 | 77 | 22 | 30-130 | 50 |
| 2-Methylphenol | ND | 723 | 408 | 56 | 723 | 512 | 71 | 23 | 30-130 | 50 |
| 2-Nitroaniline | ND | 723 | 481 | 67 | 723 | 572 | 79 | 17 | 30-130 | 50 |
| 2-Nitrophenol | ND | 723 | 413 | 57 | 723 | 536 | 74 | 26 | 30-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 723 | 374 | 52 | 723 | 469 | 65 | 23 | 30-130 | 50 |
| 3-Nitroaniline | ND | 723 | 511 | 71 | 723 | 614 | 85 | 18 | 30-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 723 | 589 | 81 | 723 | 682 | 94 | 15 | 30-130 | 50 |
| 4-Bromophenyl-phenylether | ND | 723 | 557 | 77 | 723 | 652 | 90 | 16 | 30-130 | 50 |
| 4-Chloro-3-Methylphenol | ND | 723 | 470 | 65 | 723 | 564 | 78 | 18 | 20-130 | 50 |
| 4-Chloroaniline | ND | 723 | 383 | 53 | 723 | 473 | 65 | 21 | 30-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 723 | 472 | 65 | 723 | 571 | 79 | 19 | 30-130 | 50 |
| 4-Methylphenol | ND | 723 | 394 | 54 | 723 | 495 | 68 | 23 | 20-130 | 50 |
| 4-Nitroaniline | ND | 723 | 592 | 82 | 723 | 695 | 96 | 16 | 40-130 | 50 |
| 4-Nitrophenol | ND | 723 | 475 | 66 | 723 | 543 | 75 | 13 | 10-130 | 50 |
| Acenaphthene | ND | 723 | 498 | 69 | 723 | 609 | 84 | 20 | 20-130 | 50 |
| Acenaphthylene | ND | 723 | 472 | 65 | 723 | 581 | 80 | 21 | 20-130 | 50 |
| Anthracene | ND | 723 | 534 | 74 | 723 | 621 | 86 | 15 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 723 | 615 | 85 | 723 | 715 | 99 | 15 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 723 | 559 | 77 | 723 | 652 | 90 | 15 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 723 | 624 | 86 | 723 | 724 | 100 | 15 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 723 | 610 | 84 | 723 | 717 | 99 | 16 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 723 | 616 | 85 | 723 | 739 | 102 | 18 | 30-130 | 50 |
| bis(2-Chloroethoxy)methane | ND | 723 | 445 | 61 | 723 | 569 | 79 | 24 | 30-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 723 | 433 | 60 | 723 | 544 | 75 | 23 | 30-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 723 | 391 | 54 | 723 | 484 | 67 | 21 | 20-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 723 | 700 | 97 | 723 | 787 | 109 | 12 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 723 | 692 | 96 | 723 | 824 | 114 | 17 | 30-130 | 50 |
| Chrysene | ND | 723 | 641 | 89 | 723 | 744 | 103 | 15 | 30-130 | 50 |
| Di-n-butylphthalate | ND | 723 | 604 | 84 | 723 | 697 | 96 | 14 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 723 | 646 | 89 | 723 | 766 | 106 | 17 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 723 | 618 | 85 | 723 | 730 | 101 | 17 | 30-130 | 50 |
| Dibenzofuran | ND | 723 | 477 | 66 | 723 | 574 | 79 | 18 | 30-130 | 50 |
| Diethylphthalate | ND | 723 | 537 | 74 | 723 | 630 | 87 | 16 | 30-130 | 50 |
| Dimethylphthalate | ND | 723 | 487 | 67 | 723 | 586 | 81 | 18 | 30-130 | 50 |
| Fluoranthene | ND | 723 | 614 | 85 | 723 | 696 | 96 | 13 | 30-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 723 | 523 | 72 | 723 | 629 | 87 | 18 | 20-130 | 50 |
| Hexachlorobenzene | ND | 723 | 506 | 70 | 723 | 600 | 83 | 17 | 10-160 | 50 |
| Hexachlorobutadiene | ND | 723 | 317 | 44 | 723 | 393 | 54 | 21 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 723 | 231 | 32 | 723 | 287 | 40 | 22 | 10-130 | 50 |
| Hexachloroethane | ND | 723 | 246 | 34 | 723 | 297 | 41 | 19 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 723 | 589 | 82 | 723 | 700 | 97 | 17 | 20-130 | 50 |
| Isophorone | ND | 723 | 423 | 59 | 723 | 584 | 81 | 32 | 30-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 723 | 361 | 50 | 723 | 457 | 63 | 23 | 20-130 | 50 |
| n-Nitrosodiphenylamine | ND | 723 | 402 | 56 | 723 | 476 | 66 | 17 | 20-140 | 50 |
| Naphthalene | ND | 723 | 432 | 60 | 723 | 539 | 75 | 22 | 30-130 | 50 |
| Nitrobenzene | ND | 723 | 417 | 58 | 723 | 523 | 72 | 23 | 30-130 | 50 |
| Pentachlorophenol | ND | 723 | 554 | 77 | 723 | 659 | 91 | 17 | 10-130 | 50 |
| Phenanthrene | ND | 723 | 571 | 79 | 723 | 667 | 92 | 15 | 20-130 | 50 |
| Phenol | ND | 723 | 424 | 59 | 723 | 528 | 73 | 22 | 20-130 | 50 |
| Pyrene | ND | 723 | 600 | 83 | 723 | 706 | 98 | 16 | 10-160 | 50 |
| Benzyl Alcohol | ND | 723 | 434 | 60 | 723 | 563 | 78 | 26 | 30-130 | 50 |
| 1-Methylnaphthalene | ND | 723 | 456 | 63 | 723 | 575 | 79 | 23 | 20-130 | 50 |
| 1,2-Diphenylhydrazine | ND | 723 | 491 | 68 | 723 | 591 | 82 | 18 | 20-150 | 50 |
| 3,5-Dimethylphenol | ND | 723 | 459 | 63 | 723 | 554 | 77 | 19 | 20-130 | 50 |
| Aniline | ND | 723 | 248J | 34 | 723 | 322J | 45 | 26 | 10-150 | 50 |
| Benzidine | ND | 2890 | 97J | 3* | 2890 | 104J | 4* | 7 | 10-150 | 50 |
| Benzoic Acid | ND | 2890 | 915 | 32 | 2890 | 1490 | 52 | 48 | 10-130 | 50 |
| Carbazole | ND | 723 | 581 | 80 | 723 | 666 | 92 | 14 | 30-130 | 50 |
| N-Nitrosodimethylamine | ND | 723 | 547 | 76 | 723 | 683 | 95 | 22 | 20-130 | 50 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1080 | 796 | 73 | 1080 | 933 | 86 | 35-130 |
| 2-Fluorobiphenyl | 361 | 174 | 48 | 361 | 223 | 62 | 45-130 |
| 2-Fluorophenol | 1080 | 576 | 53 | 1080 | 737 | 68 | 25-130 |
| Nitrobenzene-d5 | 361 | 173 | 48 | 361 | 232 | 64 | 40-130 |
| Phenol-d5 | 1080 | 633 | 58 | 1080 | 806 | 74 | 25-120 |
| Terphenyl-d14 | 361 | 294 | 81 | 361 | 359 | 99 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-031-NBZ-SS-0.0-0.5 | Date Analyzed: 04/16/12 23:06 |
| Lab Samp ID: D018-01 | Dilution Factor: 1 |
| Lab File ID: RDH238 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 7.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | ND | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | ND | 1.8 | 0.92 |
| PYRENE | ND | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 22 | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 212 | 361.5 | 58.6 | 40-130 |
| 2-FLUOROBIPHENYL | 209 | 361.5 | 57.8 | 45-130 |
| TERPHENYL-D14 | 251 | 361.5 | 69.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-032-NBZ-SS-0.0-0.5 | Date Analyzed: 04/16/12 23:24 |
| Lab Samp ID: D018-02 | Dilution Factor: 1 |
| Lab File ID: RDH239 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 12.0 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | 1.1J | 1.9 | 0.97 |
| ACENAPHTHYLENE | 1.0J | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | 2.1 | 1.9 | 0.97 |
| BENZO(A)PYRENE | ND | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | 2.4 | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | 2.1 | 1.9 | 0.97 |
| CHRYSENE | 1.6J | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | 2.7 | 1.9 | 0.97 |
| FLUORENE | ND | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | 1.8J | 1.9 | 0.97 |
| NAPHTHALENE | 1.2J | 1.9 | 0.97 |
| PHENANTHRENE | 1.7J | 1.9 | 0.97 |
| PYRENE | 2.7 | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | 1.4J | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | 1.1J | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 60 | 19 | 9.5 |
| BUTYLBENZYLPHTHALATE | 16J | 19 | 9.5 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.5 |
| DIETHYLPHTHALATE | ND | 19 | 9.5 |
| DIMETHYLPHTHALATE | ND | 19 | 9.5 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 221 | 378.8 | 58.5 | 40-130 |
| 2-FLUOROBIPHENYL | 237 | 378.8 | 62.5 | 45-130 |
| TERPHENYL-D14 | 311 | 378.8 | 82.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-033-NBZ-SS-0.0-0.5 | Date Analyzed: 04/16/12 23:43 |
| Lab Samp ID: D018-03 | Dilution Factor: 1 |
| Lab File ID: RDH240 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 8.9 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)PYRENE | ND | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.93 |
| CHRYSENE | ND | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | ND | 1.9 | 0.93 |
| FLUORENE | ND | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | ND | 1.9 | 0.93 |
| PYRENE | ND | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 39 | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 255 | 365.9 | 69.7 | 40-130 |
| 2-FLUOROBIPHENYL | 256 | 365.9 | 70.0 | 45-130 |
| TERPHENYL-D14 | 325 | 365.9 | 88.8 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-034-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 00:02 |
| Lab Samp ID: D018-04 | Dilution Factor: 1 |
| Lab File ID: RDH241 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 16.4 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 1.0 |
| ACENAPHTHYLENE | ND | 2.0 | 1.0 |
| ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)PYRENE | ND | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | 1.9J | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | 1.6J | 2.0 | 1.0 |
| CHRYSENE | 1.1J | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 1.0 |
| FLUORANTHENE | 1.9J | 2.0 | 1.0 |
| FLUORENE | ND | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 1.0 |
| NAPHTHALENE | ND | 2.0 | 1.0 |
| PHENANTHRENE | 1.1J | 2.0 | 1.0 |
| PYRENE | 1.8J | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 24 | 20 | 10 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 261 | 398.7 | 65.4 | 40-130 |
| 2-FLUOROBIPHENYL | 255 | 398.7 | 63.8 | 45-130 |
| TERPHENYL-D14 | 358 | 398.7 | 89.8 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-035-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 00:20 |
| Lab Samp ID: D018-05 | Dilution Factor: 1 |
| Lab File ID: RDH242 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 11.9 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.96 |
| ACENAPHTHYLENE | ND | 1.9 | 0.96 |
| ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)PYRENE | ND | 1.9 | 0.96 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.96 |
| CHRYSENE | ND | 1.9 | 0.96 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.96 |
| FLUORANTHENE | 1.5J | 1.9 | 0.96 |
| FLUORENE | ND | 1.9 | 0.96 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.96 |
| NAPHTHALENE | ND | 1.9 | 0.96 |
| PHENANTHRENE | ND | 1.9 | 0.96 |
| PYRENE | ND | 1.9 | 0.96 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 21 | 19 | 9.5 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.5 |
| DIETHYLPHTHALATE | ND | 19 | 9.5 |
| DIMETHYLPHTHALATE | ND | 19 | 9.5 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.96 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 260 | 378.3 | 68.7 | 40-130 |
| 2-FLUOROBIPHENYL | 250 | 378.3 | 66.1 | 45-130 |
| TERPHENYL-D14 | 345 | 378.3 | 91.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-035-NBZ-SB-2.0-3.0 | Date Analyzed: 04/17/12 00:39 |
| Lab Samp ID: D018-07 | Dilution Factor: 1 |
| Lab File ID: RDH243 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 4.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | 1.0J | 1.8 | 0.89 |
| ACENAPHTHYLENE | 1.0J | 1.8 | 0.89 |
| ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.89 |
| BENZO(A)PYRENE | ND | 1.8 | 0.89 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.89 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.89 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.89 |
| CHRYSENE | ND | 1.8 | 0.89 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.89 |
| FLUORANTHENE | ND | 1.8 | 0.89 |
| FLUORENE | ND | 1.8 | 0.89 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.89 |
| NAPHTHALENE | 1.1J | 1.8 | 0.89 |
| PHENANTHRENE | ND | 1.8 | 0.89 |
| PYRENE | ND | 1.8 | 0.89 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 38 | 18 | 8.8 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 8.8 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 8.8 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 8.8 |
| DIETHYLPHTHALATE | ND | 18 | 8.8 |
| DIMETHYLPHTHALATE | ND | 18 | 8.8 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.89 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 301 | 350.1 | 86.0 | 40-130 |
| 2-FLUOROBIPHENYL | 283 | 350.1 | 80.8 | 45-130 |
| TERPHENYL-D14 | 373 | 350.1 | 107 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-108-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 00:58 |
| Lab Samp ID: D018-08 | Dilution Factor: 1 |
| Lab File ID: RDH244 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 5.7 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.90 |
| ACENAPHTHYLENE | ND | 1.8 | 0.90 |
| ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)PYRENE | ND | 1.8 | 0.90 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.90 |
| CHRYSENE | ND | 1.8 | 0.90 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.90 |
| FLUORANTHENE | ND | 1.8 | 0.90 |
| FLUORENE | ND | 1.8 | 0.90 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.90 |
| NAPHTHALENE | ND | 1.8 | 0.90 |
| PHENANTHRENE | ND | 1.8 | 0.90 |
| PYRENE | ND | 1.8 | 0.90 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 29 | 18 | 8.9 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 8.9 |
| DIETHYLPHTHALATE | ND | 18 | 8.9 |
| DIMETHYLPHTHALATE | ND | 18 | 8.9 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.90 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 303 | 353.4 | 85.8 | 40-130 |
| 2-FLUOROBIPHENYL | 291 | 353.4 | 82.3 | 45-130 |
| TERPHENYL-D14 | 332 | 353.4 | 93.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-115-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 01:16 |
| Lab Samp ID: D018-09 | Dilution Factor: 1 |
| Lab File ID: RDH245 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 12.3 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.97 |
| ACENAPHTHYLENE | ND | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)PYRENE | ND | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | 1.1J | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | 1.0J | 1.9 | 0.97 |
| CHRYSENE | ND | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | 1.1J | 1.9 | 0.97 |
| FLUORENE | ND | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.97 |
| NAPHTHALENE | ND | 1.9 | 0.97 |
| PHENANTHRENE | ND | 1.9 | 0.97 |
| PYRENE | 1.2J | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 31 | 19 | 9.6 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.6 |
| DIETHYLPHTHALATE | ND | 19 | 9.6 |
| DIMETHYLPHTHALATE | ND | 19 | 9.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 281 | 380.0 | 73.8 | 40-130 |
| 2-FLUOROBIPHENYL | 281 | 380.0 | 74.0 | 45-130 |
| TERPHENYL-D14 | 354 | 380.0 | 93.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-122-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 01:35 |
| Lab Samp ID: D018-10 | Dilution Factor: 1 |
| Lab File ID: RDH246 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 12.1 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.97 |
| ACENAPHTHYLENE | ND | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)PYRENE | ND | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.97 |
| CHRYSENE | ND | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | ND | 1.9 | 0.97 |
| FLUORENE | ND | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.97 |
| NAPHTHALENE | ND | 1.9 | 0.97 |
| PHENANTHRENE | ND | 1.9 | 0.97 |
| PYRENE | ND | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 15J | 19 | 9.6 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.6 |
| DIETHYLPHTHALATE | ND | 19 | 9.6 |
| DIMETHYLPHTHALATE | ND | 19 | 9.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 196 | 379.2 | 51.7 | 40-130 |
| 2-FLUOROBIPHENYL | 179 | 379.2 | 47.2 | 45-130 |
| TERPHENYL-D14 | 267 | 379.2 | 70.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-127-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 01:54 |
| Lab Samp ID: D018-11 | Dilution Factor: 1 |
| Lab File ID: RDH247 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 5.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.90 |
| ACENAPHTHYLENE | ND | 1.8 | 0.90 |
| ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)PYRENE | ND | 1.8 | 0.90 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.90 |
| CHRYSENE | ND | 1.8 | 0.90 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.90 |
| FLUORANTHENE | ND | 1.8 | 0.90 |
| FLUORENE | ND | 1.8 | 0.90 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.90 |
| NAPHTHALENE | ND | 1.8 | 0.90 |
| PHENANTHRENE | ND | 1.8 | 0.90 |
| PYRENE | ND | 1.8 | 0.90 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 16J | 18 | 8.9 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 8.9 |
| DIETHYLPHTHALATE | ND | 18 | 8.9 |
| DIMETHYLPHTHALATE | ND | 18 | 8.9 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.90 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 241 | 353.8 | 68.1 | 40-130 |
| 2-FLUOROBIPHENYL | 230 | 353.8 | 65.0 | 45-130 |
| TERPHENYL-D14 | 322 | 353.8 | 90.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-140-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 02:12 |
| Lab Samp ID: D018-12 | Dilution Factor: 1 |
| Lab File ID: RDH248 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 13.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 0.99 |
| ACENAPHTHYLENE | ND | 2.0 | 0.99 |
| ANTHRACENE | ND | 2.0 | 0.99 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 0.99 |
| BENZO(A)PYRENE | ND | 2.0 | 0.99 |
| BENZO(B)FLUORANTHENE | 1.5J | 2.0 | 0.99 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 0.99 |
| BENZO(G,H,I)PERYLENE | 1.1J | 2.0 | 0.99 |
| CHRYSENE | 1.1J | 2.0 | 0.99 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 0.99 |
| FLUORANTHENE | 1.5J | 2.0 | 0.99 |
| FLUORENE | ND | 2.0 | 0.99 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 0.99 |
| NAPHTHALENE | ND | 2.0 | 0.99 |
| PHENANTHRENE | ND | 2.0 | 0.99 |
| PYRENE | 1.4J | 2.0 | 0.99 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 37 | 19 | 9.7 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.7 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.7 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.7 |
| DIETHYLPHTHALATE | ND | 19 | 9.7 |
| DIMETHYLPHTHALATE | ND | 19 | 9.7 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 0.99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 287 | 386.7 | 74.3 | 40-130 |
| 2-FLUOROBIPHENYL | 289 | 386.7 | 74.7 | 45-130 |
| TERPHENYL-D14 | 336 | 386.7 | 87.0 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-169-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 02:31 |
| Lab Samp ID: D018-13 | Dilution Factor: 1 |
| Lab File ID: RDH249 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 9.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.94 |
| ACENAPHTHYLENE | ND | 1.9 | 0.94 |
| ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)PYRENE | ND | 1.9 | 0.94 |
| BENZO(B)FLUORANTHENE | 1.1J | 1.9 | 0.94 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.94 |
| CHRYSENE | ND | 1.9 | 0.94 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.94 |
| FLUORANTHENE | 1.1J | 1.9 | 0.94 |
| FLUORENE | ND | 1.9 | 0.94 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.94 |
| NAPHTHALENE | ND | 1.9 | 0.94 |
| PHENANTHRENE | ND | 1.9 | 0.94 |
| PYRENE | 1.1J | 1.9 | 0.94 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 29 | 18 | 9.3 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.3 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.3 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.3 |
| DIETHYLPHTHALATE | ND | 18 | 9.3 |
| DIMETHYLPHTHALATE | ND | 18 | 9.3 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.94 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 224 | 368.7 | 60.8 | 40-130 |
| 2-FLUOROBIPHENYL | 232 | 368.7 | 62.8 | 45-130 |
| TERPHENYL-D14 | 348 | 368.7 | 94.4 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: SL-198-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 02:50 |
| Lab Samp ID: D018-14 | Dilution Factor: 1 |
| Lab File ID: RDH250 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : 7.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | ND | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | ND | 1.8 | 0.92 |
| PYRENE | ND | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 35 | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | 9.3J | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 241 | 360.7 | 66.9 | 40-130 |
| 2-FLUOROBIPHENYL | 249 | 360.7 | 69.1 | 45-130 |
| TERPHENYL-D14 | 329 | 360.7 | 91.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/14/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:50 |
| Sample ID: MBLK1S | Date Analyzed: 04/16/12 20:18 |
| Lab Samp ID: SVD028SB | Dilution Factor: 1 |
| Lab File ID: RDH229 | Matrix : SOIL |
| Ext Btch ID: SVD028S | % Moisture : NA |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 219 | 333.3 | 65.8 | 40-130 |
| 2-FLUOROBIPHENYL | 217 | 333.3 | 65.1 | 45-130 |
| TERPHENYL-D14 | 323 | 333.3 | 97.0 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVD028SB | SVD028SX | SVD028SY | | |
| LAB FILE ID: | RDH229 | RDH232 | RDH233 | | |
| DATE EXTRACTED: | 04/14/1210:50 | 04/14/1210:50 | 04/14/1210:50 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/16/1220:18 | 04/16/1221:14 | 04/16/1221:33 | DATE RECEIVED: | 04/14/12 |
| PREP. BATCH: | SVD028S | SVD028S | SVD028S | | |
| CALIB. REF: | RCH007 | RCH007 | RCH007 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 296 | 89 | 333 | 281 | 84 | 5 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 310 | 93 | 333 | 294 | 88 | 6 | 20-130 | 50 |
| Anthracene | ND | 333 | 270 | 81 | 333 | 278 | 83 | 3 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 269 | 81 | 333 | 315 | 94 | 16 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 292 | 87 | 333 | 305 | 92 | 5 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 318 | 95 | 333 | 346 | 104 | 8 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 321 | 96 | 333 | 327 | 98 | 2 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 331 | 99 | 333 | 345 | 103 | 4 | 30-140 | 50 |
| Chrysene | ND | 333 | 272 | 82 | 333 | 316 | 95 | 15 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 320 | 96 | 333 | 336 | 101 | 5 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 305 | 91 | 333 | 331 | 99 | 8 | 30-130 | 50 |
| Fluorene | ND | 333 | 300 | 90 | 333 | 284 | 85 | 5 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 326 | 98 | 333 | 342 | 103 | 5 | 20-160 | 50 |
| Naphthalene | ND | 333 | 274 | 82 | 333 | 259 | 78 | 6 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 269 | 81 | 333 | 277 | 83 | 3 | 20-130 | 50 |
| Pyrene | ND | 333 | 289 | 87 | 333 | 316 | 95 | 9 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 281 | 84 | 333 | 265 | 80 | 6 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 290 | 87 | 333 | 275 | 83 | 5 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 267 | 80 | 333 | 308 | 92 | 14 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 264 | 79 | 333 | 301 | 90 | 13 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 278 | 83 | 333 | 296 | 89 | 6 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 284 | 85 | 333 | 295 | 88 | 4 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 287 | 86 | 333 | 274 | 82 | 5 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 287 | 86 | 333 | 275 | 83 | 4 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 311 | 93 | 333 | 288 | 87 | 7 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 241 | 72 | 333 | 223 | 67 | 40-130 |
| 2-Fluorobiphenyl | 333 | 234 | 70 | 333 | 219 | 66 | 45-130 |
| Terphenyl-d14 | 333 | 279 | 84 | 333 | 307 | 92 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: 7.8

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-031-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D018-01 | D018-01M | D018-01S | | |
| LAB FILE ID: | RDH238 | RDH236 | RDH237 | | |
| DATE EXTRACTED: | 04/14/1210:50 | 04/14/1210:50 | 04/14/1210:50 | DATE COLLECTED: | 04/03/12 |
| DATE ANALYZED: | 04/16/1223:06 | 04/16/1222:28 | 04/16/1222:47 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | SVD028S | SVD028S | SVD028S | | |
| CALIB. REF: | RCH007 | RCH007 | RCH007 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 361 | 257 | 71 | 361 | 273 | 76 | 6 | 10-130 | 50 |
| Acenaphthylene | ND | 361 | 269 | 74 | 361 | 287 | 79 | 6 | 20-130 | 50 |
| Anthracene | ND | 361 | 243 | 67 | 361 | 271 | 75 | 11 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 361 | 243 | 67 | 361 | 275 | 76 | 13 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 361 | 257 | 71 | 361 | 291 | 81 | 13 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 361 | 290 | 80 | 361 | 332 | 92 | 13 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 361 | 281 | 78 | 361 | 312 | 86 | 11 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 361 | 289 | 80 | 361 | 328 | 91 | 13 | 30-140 | 50 |
| Chrysene | ND | 361 | 241 | 67 | 361 | 270 | 75 | 11 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 361 | 287 | 79 | 361 | 326 | 90 | 13 | 30-130 | 50 |
| Fluoranthene | ND | 361 | 277 | 77 | 361 | 311 | 86 | 12 | 30-130 | 50 |
| Fluorene | ND | 361 | 265 | 73 | 361 | 290 | 80 | 9 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 361 | 288 | 80 | 361 | 328 | 91 | 13 | 20-160 | 50 |
| Naphthalene | ND | 361 | 212 | 59 | 361 | 210 | 58 | 1 | 10-130 | 50 |
| Phenanthrene | ND | 361 | 248 | 69 | 361 | 275 | 76 | 10 | 20-130 | 50 |
| Pyrene | ND | 361 | 260 | 72 | 361 | 291 | 80 | 11 | 10-160 | 50 |
| 2-Methylnaphthalene | ND | 361 | 234 | 65 | 361 | 238 | 66 | 2 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 361 | 243 | 67 | 361 | 249 | 69 | 2 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | 21.7 | 361 | 269 | 69 | 361 | 297 | 76 | 10 | 20-150 | 50 |
| Butylbenzylphthalate | ND | 361 | 264 | 73 | 361 | 299 | 83 | 13 | 20-150 | 50 |
| Di-n-butylphthalate | ND | 361 | 260 | 72 | 361 | 292 | 81 | 12 | 20-150 | 50 |
| Di-n-octylphthalate | ND | 361 | 278 | 77 | 361 | 318 | 88 | 13 | 10-150 | 50 |
| Diethylphthalate | ND | 361 | 256 | 71 | 361 | 285 | 79 | 11 | 20-150 | 50 |
| Dimethylphthalate | ND | 361 | 254 | 70 | 361 | 282 | 78 | 10 | 20-150 | 50 |
| N-Nitrosodimethylamine | ND | 361 | 266 | 73 | 361 | 255 | 70 | 4 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 361 | 233 | 64 | 361 | 205 | 57 | 40-130 |
| 2-Fluorobiphenyl | 361 | 220 | 61 | 361 | 207 | 57 | 45-130 |
| Terphenyl-d14 | 361 | 263 | 73 | 361 | 266 | 74 | 45-135 |

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/05/12 19:00 |
| Sample ID: SL-035-NBZ-SB-2.5 | Date Analyzed: 04/05/12 19:00 |
| Lab Samp ID: D018-06 | Dilution Factor: 1.14 |
| Lab File ID: ED04038A | Matrix : SOIL |
| Ext Btch ID: GMD003S | % Moisture : 4.6 |
| Calib. Ref.: ED04035A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 2.0 | 1.2 | 0.60 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 2.04 | 2.390 | 85.3 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 04/05/12 12:31

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D018 | Date Extracted: 04/05/12 16:13 |
| Sample ID: MBLK1S | Date Analyzed: 04/05/12 16:13 |
| Lab Samp ID: GMD003SB | Dilution Factor: 1 |
| Lab File ID: ED04034A | Matrix : SOIL |
| Ext Btch ID: GMD003S | % Moisture : NA |
| Calib. Ref.: ED04024A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.83 | 2.000 | 91.4 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 04/05/12 12:31

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: METHOD 5035/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | GMD003SB | GMD003SL | GMD003SC | | |
| LAB FILE ID: | ED04034A | ED04032A | ED04033A | | |
| DATE EXTRACTED: | 04/05/1216:13 | 04/05/1214:49 | 04/05/1215:31 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/05/1216:13 | 04/05/1214:49 | 04/05/1215:31 | DATE RECEIVED: | 04/05/12 |
| PREP. BATCH: | GMD003S | GMD003S | GMD003S | | |
| CALIB. REF: | ED04024A | ED04024A | ED04024A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 25.0 | 25.1 | 100 | 25.0 | 23.4 | 94 | 7 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 2.00 | 2.18 | 109 | 2.00 | 2.11 | 106 | 60-130 |

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/05/12 11:20 |
| Sample ID: TB-040312 | Date Analyzed: 04/05/12 11:20 |
| Lab Samp ID: D018-15 | Dilution Factor: 1 |
| Lab File ID: ED04027A | Matrix : WATER |
| Ext Btch ID: VA39D03 | % Moisture : NA |
| Calib. Ref.: ED04024A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 27J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 34.3 | 40.00 | 85.8 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D018 | Date Extracted: 04/04/12 18:33 |
| Sample ID: MBLK1W | Date Analyzed: 04/04/12 18:33 |
| Lab Samp ID: VA39D03B | Dilution Factor: 1 |
| Lab File ID: ED04003A | Matrix : WATER |
| Ext Btch ID: VA39D03 | % Moisture : NA |
| Calib. Ref.: ED04002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 34.9 | 40.00 | 87.1 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: METHOD 5030B/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VA39D03B | VA39D03L | VA39D03C | | |
| LAB FILE ID: | ED04003A | ED04004A | ED04005A | | |
| DATE EXTRACTED: | 04/04/1218:33 | 04/04/1219:15 | 04/04/1219:57 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/04/1218:33 | 04/04/1219:15 | 04/04/1219:57 | DATE RECEIVED: | 04/04/12 |
| PREP. BATCH: | VA39D03 | VA39D03 | VA39D03 | | |
| CALIB. REF: | ED04002A | ED04002A | ED04002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 500 | 448 | 90 | 500 | 464 | 93 | 3 | 60-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 40.0 | 40.2 | 100 | 40.0 | 39.5 | 99 | 60-130 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/06/12 11:00 |
| Sample ID: SL-031-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 12:14 |
| Lab Samp ID: D018-01 | Dilution Factor: 1 |
| Lab File ID: BD10007A | Matrix : SOIL |
| Ext Btch ID: MED002S | % Moisture : 7.8 |
| Calib. Ref.: BD10002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 540 | 270 |
| ISOPROPANOL | ND | 540 | 270 |
| METHANOL | ND | 540 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/06/12 11:00 |
| Sample ID: SL-032-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 12:29 |
| Lab Samp ID: D018-02 | Dilution Factor: 1 |
| Lab File ID: BD10008A | Matrix : SOIL |
| Ext Btch ID: MED002S | % Moisture : 12.0 |
| Calib. Ref.: BD10002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 570 | 280 |
| ISOPROPANOL | ND | 570 | 280 |
| METHANOL | ND | 570 | 280 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/06/12 11:00 |
| Sample ID: SL-033-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 12:49 |
| Lab Samp ID: D018-03 | Dilution Factor: 1 |
| Lab File ID: BD10009A | Matrix : SOIL |
| Ext Btch ID: MED002S | % Moisture : 8.9 |
| Calib. Ref.: BD10002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 550 | 270 |
| ISOPROPANOL | ND | 550 | 270 |
| METHANOL | ND | 550 | 270 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/06/12 11:00 |
| Sample ID: SL-034-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 13:08 |
| Lab Samp ID: D018-04 | Dilution Factor: 1 |
| Lab File ID: BD10010A | Matrix : SOIL |
| Ext Btch ID: MED002S | % Moisture : 16.4 |
| Calib. Ref.: BD10002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 600 | 300 |
| ISOPROPANOL | ND | 600 | 300 |
| METHANOL | ND | 600 | 300 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/06/12 11:00 |
| Sample ID: SL-035-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 13:25 |
| Lab Samp ID: D018-05 | Dilution Factor: 1 |
| Lab File ID: BD10011A | Matrix : SOIL |
| Ext Btch ID: MED002S | % Moisture : 11.9 |
| Calib. Ref.: BD10002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 570 | 280 |
| ISOPROPANOL | ND | 570 | 280 |
| METHANOL | ND | 570 | 280 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/06/12 11:00 |
| Sample ID: SL-035-NBZ-SB-2.0-3.0 | Date Analyzed: 04/09/12 13:41 |
| Lab Samp ID: D018-07 | Dilution Factor: 1 |
| Lab File ID: BD10012A | Matrix : SOIL |
| Ext Btch ID: MED002S | % Moisture : 4.8 |
| Calib. Ref.: BD10002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 530 | 260 |
| ISOPROPANOL | ND | 530 | 260 |
| METHANOL | ND | 530 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/06/12 |
| Batch No. : 12D018 | Date Extracted: 04/06/12 11:00 |
| Sample ID: MBLK1S | Date Analyzed: 04/09/12 10:32 |
| Lab Samp ID: MED002SB | Dilution Factor: 1 |
| Lab File ID: BD10003A | Matrix : SOIL |
| Ext Btch ID: MED002S | % Moisture : NA |
| Calib. Ref.: BD10002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 500 | 250 |
| ISOPROPANOL | ND | 500 | 250 |
| METHANOL | ND | 500 | 250 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | MED002SB | MED002SL | MED002SY | | |
| LAB FILE ID: | BD10003A | BD10004A | BD10006A | | |
| DATE EXTRACTED: | 04/06/1211:00 | 04/06/1211:00 | 04/06/1211:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/09/1210:32 | 04/09/1211:00 | 04/09/1211:38 | DATE RECEIVED: | 04/06/12 |
| PREP. BATCH: | MED002S | MED002S | MED002S | | |
| CALIB. REF: | BD10002A | BD10002A | BD10002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 11100 | 111 | 10000 | 9380 | 94 | 16 | 50-150 | 50 |
| Isopropanol | ND | 10000 | 9520 | 95 | 10000 | 10000 | 100 | 5 | 50-150 | 50 |
| Methanol | ND | 10000 | 9810 | 98 | 10000 | 9980 | 100 | 2 | 50-150 | 50 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/03/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/03/12 |
| Batch No. | : 12D018 | Date Extracted | : 04/06/12 11:00 |
| Sample ID | : SL-031-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/09/12 09:02 |
| Lab Samp ID | : D018-01 | Dilution Factor | : 1 |
| Lab File ID | : TD09007A | Matrix | : SOIL |
| Ext Btch ID | : PED002S | % Moisture | : 7.8 |
| Calib. Ref. | : TD09003A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.1 |
| ETHYLENE GLYCOL | ND | 11 | 5.4 |
| PROPYLENE GLYCOL | ND | 11 | 5.4 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/06/12 11:00 |
| Sample ID: SL-032-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 09:20 |
| Lab Samp ID: D018-02 | Dilution Factor: 1 |
| Lab File ID: TD09008A | Matrix : SOIL |
| Ext Btch ID: PED002S | % Moisture : 12.0 |
| Calib. Ref.: TD09003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 17 | 8.5 |
| ETHYLENE GLYCOL | ND | 11 | 5.7 |
| PROPYLENE GLYCOL | ND | 11 | 5.7 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/03/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/03/12 |
| Batch No. | : 12D018 | Date Extracted | : 04/06/12 11:00 |
| Sample ID | : SL-033-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/09/12 09:33 |
| Lab Samp ID | : D018-03 | Dilution Factor | : 1 |
| Lab File ID | : TD09009A | Matrix | : SOIL |
| Ext Btch ID | : PED002S | % Moisture | : 8.9 |
| Calib. Ref. | : TD09003A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 8.2 |
| ETHYLENE GLYCOL | ND | 11 | 5.5 |
| PROPYLENE GLYCOL | ND | 11 | 5.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/06/12 11:00 |
| Sample ID: SL-034-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 09:50 |
| Lab Samp ID: D018-04 | Dilution Factor: 1 |
| Lab File ID: TD09010A | Matrix : SOIL |
| Ext Btch ID: PED002S | % Moisture : 16.4 |
| Calib. Ref.: TD09003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 18 | 9.0 |
| ETHYLENE GLYCOL | ND | 12 | 6.0 |
| PROPYLENE GLYCOL | ND | 12 | 6.0 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/06/12 11:00 |
| Sample ID: SL-035-NBZ-SS-0.0-0.5 | Date Analyzed: 04/09/12 10:06 |
| Lab Samp ID: D018-05 | Dilution Factor: 1 |
| Lab File ID: TD09011A | Matrix : SOIL |
| Ext Btch ID: PED002S | % Moisture : 11.9 |
| Calib. Ref.: TD09003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 17 | 8.5 |
| ETHYLENE GLYCOL | ND | 11 | 5.7 |
| PROPYLENE GLYCOL | ND | 11 | 5.7 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/03/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/03/12 |
| Batch No. | : 12D018 | Date Extracted | : 04/06/12 11:00 |
| Sample ID | : SL-035-NBZ-SB-2.0-3.0 | Date Analyzed | : 04/09/12 10:23 |
| Lab Samp ID | : D018-07 | Dilution Factor | : 1 |
| Lab File ID | : TD09012A | Matrix | : SOIL |
| Ext Btch ID | : PED002S | % Moisture | : 4.8 |
| Calib. Ref. | : TD09003A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.9 |
| ETHYLENE GLYCOL | ND | 11 | 5.3 |
| PROPYLENE GLYCOL | ND | 11 | 5.3 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/06/12 |
| Batch No. : 12D018 | Date Extracted: 04/06/12 11:00 |
| Sample ID: MBLK1S | Date Analyzed: 04/09/12 08:43 |
| Lab Samp ID: PED002SB | Dilution Factor: 1 |
| Lab File ID: TD09006A | Matrix : SOIL |
| Ext Btch ID: PED002S | % Moisture : NA |
| Calib. Ref.: TD09003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.5 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 5.0 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PED002SB | PED002SL | PED002SC | | |
| LAB FILE ID: | TD09006A | TD09004A | TD09005A | | |
| DATE EXTRACTED: | 04/06/1211:00 | 04/06/1211:00 | 04/06/1211:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/09/1208:43 | 04/09/1207:36 | 04/09/1207:50 | DATE RECEIVED: | 04/06/12 |
| PREP. BATCH: | PED002S | PED002S | PED002S | | |
| CALIB. REF: | TD09003A | TD09003A | TD09003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 49.5 | 99 | 50.0 | 46.2 | 92 | 7 | 50-150 | 50 |
| Ethylene Glycol | ND | 50.0 | 51.1 | 102 | 50.0 | 47.1 | 94 | 8 | 50-150 | 50 |
| Propylene Glycol | ND | 25.0 | 28.8 | 115 | 25.0 | 26.5 | 106 | 8 | 50-150 | 50 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/06/12 14:05 |
| Sample ID: SL-031-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 02:53 |
| Lab Samp ID: D018-01 | Dilution Factor: 1 |
| Lab File ID: LD10031A | Matrix : SOIL |
| Ext Btch ID: DSD007S | % Moisture : 7.8 |
| Calib. Ref.: LD10022A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.61J | 1.1 | 0.54 |
| EFH(C12-C14) | ND | 1.1 | 0.54 |
| EFH(C15-C20) | 0.93J | 1.1 | 0.54 |
| EFH(C21-C30) | 5.0 | 1.1 | 0.54 |
| EFH(C30-C40) | 8.2 | 1.1 | 0.54 |
| TOTAL EFH(C8-C40) | 15 | 1.1 | 0.54 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.59 | 10.85 | 70.0 | 50-150 |
| HEXACOSANE | 2.48 | 2.711 | 91.5 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/06/12 14:05 |
| Sample ID: SL-032-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 03:10 |
| Lab Samp ID: D018-02 | Dilution Factor: 1 |
| Lab File ID: LD10032A | Matrix : SOIL |
| Ext Btch ID: DSD007S | % Moisture : 12.0 |
| Calib. Ref.: LD10022A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.62J | 1.1 | 0.57 |
| EFH(C12-C14) | ND | 1.1 | 0.57 |
| EFH(C15-C20) | 0.76J | 1.1 | 0.57 |
| EFH(C21-C30) | 5.3 | 1.1 | 0.57 |
| EFH(C30-C40) | 8.4 | 1.1 | 0.57 |
| TOTAL EFH(C8-C40) | 15 | 1.1 | 0.57 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.59 | 11.36 | 66.8 | 50-150 |
| HEXACOSANE | 2.41 | 2.841 | 84.8 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/06/12 14:05 |
| Sample ID: SL-033-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 03:27 |
| Lab Samp ID: D018-03 | Dilution Factor: 1 |
| Lab File ID: LD10033A | Matrix : SOIL |
| Ext Btch ID: DSD007S | % Moisture : 8.9 |
| Calib. Ref.: LD10022A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.61J | 1.1 | 0.55 |
| EFH(C12-C14) | ND | 1.1 | 0.55 |
| EFH(C15-C20) | 1.1J | 1.1 | 0.55 |
| EFH(C21-C30) | 10 | 1.1 | 0.55 |
| EFH(C30-C40) | 17 | 1.1 | 0.55 |
| TOTAL EFH(C8-C40) | 29 | 1.1 | 0.55 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.62 | 10.98 | 69.4 | 50-150 |
| HEXACOSANE | 2.48 | 2.744 | 90.2 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/06/12 14:05 |
| Sample ID: SL-034-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 04:18 |
| Lab Samp ID: D018-04 | Dilution Factor: 1 |
| Lab File ID: LD10036A | Matrix : SOIL |
| Ext Btch ID: DSD007S | % Moisture : 16.4 |
| Calib. Ref.: LD10034A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.70J | 1.2 | 0.60 |
| EFH(C12-C14) | ND | 1.2 | 0.60 |
| EFH(C15-C20) | 1.3 | 1.2 | 0.60 |
| EFH(C21-C30) | 6.9 | 1.2 | 0.60 |
| EFH(C30-C40) | 12 | 1.2 | 0.60 |
| TOTAL EFH(C8-C40) | 21 | 1.2 | 0.60 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 8.31 | 11.96 | 69.4 | 50-150 |
| HEXACOSANE | 2.52 | 2.990 | 84.4 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/06/12 14:05 |
| Sample ID: SL-035-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 04:35 |
| Lab Samp ID: D018-05 | Dilution Factor: 1 |
| Lab File ID: LD10037A | Matrix : SOIL |
| Ext Btch ID: DSD007S | % Moisture : 11.9 |
| Calib. Ref.: LD10034A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.61J | 1.1 | 0.57 |
| EFH(C12-C14) | ND | 1.1 | 0.57 |
| EFH(C15-C20) | 1.4 | 1.1 | 0.57 |
| EFH(C21-C30) | 9.3 | 1.1 | 0.57 |
| EFH(C30-C40) | 14 | 1.1 | 0.57 |
| TOTAL EFH(C8-C40) | 25 | 1.1 | 0.57 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.30 | 11.35 | 64.3 | 50-150 |
| HEXACOSANE | 2.47 | 2.838 | 87.2 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/06/12 14:05 |
| Sample ID: SL-035-NBZ-SB-2.0-3.0 | Date Analyzed: 04/11/12 04:52 |
| Lab Samp ID: D018-07 | Dilution Factor: 1 |
| Lab File ID: LD10038A | Matrix : SOIL |
| Ext Btch ID: DSD007S | % Moisture : 4.8 |
| Calib. Ref.: LD10034A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.54J | 1.1 | 0.53 |
| EFH(C12-C14) | ND | 1.1 | 0.53 |
| EFH(C15-C20) | ND | 1.1 | 0.53 |
| EFH(C21-C30) | 1.6 | 1.1 | 0.53 |
| EFH(C30-C40) | 1.4 | 1.1 | 0.53 |
| TOTAL EFH(C8-C40) | 3.5 | 1.1 | 0.53 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.23 | 10.50 | 68.8 | 50-150 |
| HEXACOSANE | 2.21 | 2.626 | 84.3 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/06/12 |
| Batch No. : 12D018 | Date Extracted: 04/06/12 14:05 |
| Sample ID: MBLK1S | Date Analyzed: 04/11/12 00:03 |
| Lab Samp ID: DSD007SB | Dilution Factor: 1 |
| Lab File ID: LD10021A | Matrix : SOIL |
| Ext Btch ID: DSD007S | % Moisture : NA |
| Calib. Ref.: LD10011A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.23 | 10.00 | 72.3 | 50-150 |
| HEXACOSANE | 2.03 | 2.500 | 81.2 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: METHOD 3550B/8015B EFH

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSD007SB | DSD007SL | DSD007SC | | |
| LAB FILE ID: | LD10021A | LD10019A | LD10020A | | |
| DATE EXTRACTED: | 04/06/1214:05 | 04/06/1214:05 | 04/06/1214:05 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1200:03 | 04/10/1223:29 | 04/10/1223:46 | DATE RECEIVED: | 04/06/12 |
| PREP. BATCH: | DSD007S | DSD007S | DSD007S | | |
| CALIB. REF: | LD10011A | LD10011A | LD10011A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 42.9 | 86 | 50.0 | 40.5 | 81 | 6 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 7.60 | 76 | 10.0 | 7.80 | 78 | 50-150 |
| Hexacosane | 2.50 | 2.00 | 80 | 2.50 | 2.05 | 82 | 50-150 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:52 |
| Sample ID: SL-031-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 22:25 |
| Lab Samp ID: D018-01 | Dilution Factor: 1 |
| Lab File ID: LD19030A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : 7.8 |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 2.3 \| (ND) | 0.18 | 0.092 \| 0.092 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| BETA-BHC | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR | 0.45 \| (ND) | 0.18 | 0.092 \| 0.092 |
| DELTA-BHC | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| ALDRIN | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR EPOXIDE | 0.32 \| (ND) | 0.18 | 0.092 \| 0.092 |
| ENDOSULFAN I | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| 4,4'-DDE | (0.75) \| 0.38 | 0.37 | 0.18 \| 0.18 |
| DIELDRIN | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDRIN | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDD | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN II | 0.25J \| (ND) | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDT | 0.50 \| (0.92) | 0.37 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | 0.51 \| (ND) | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDRIN KETONE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| METHOXYCHLOR | 1.7J \| (ND) | 1.8 | 0.92 \| 0.92 |
| MIREX | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 7.2 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.419 \| (7.291) | 5.784 | 93.7 \| (126) | 50-130 |
| DECACHLOROBIPHENYL | 5.108 \| (5.707) | 5.784 | 88.3 \| (98.7) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:52 |
| Sample ID: SL-032-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 22:46 |
| Lab Samp ID: D018-02 | Dilution Factor: 1 |
| Lab File ID: LD19031A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : 12.0 |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.53 | 0.19 | 0.097 \| 0.097 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.23 | 0.19 | 0.097 \| 0.097 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR | 0.49 \| (ND) | 0.19 | 0.097 \| 0.097 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| ALDRIN | (ND) \| 2.2 | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR EPOXIDE | 2.1 \| (ND) | 0.19 | 0.097 \| 0.097 |
| ENDOSULFAN I | (ND) \| 1.2 | 0.19 | 0.097 \| 0.097 |
| 4,4'-DDE | (1.5) \| 1.2 | 0.39 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.32J \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDT | 0.88 \| (1.2) | 0.39 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| 1.2 | 0.39 | 0.19 \| 0.19 |
| METHOXYCHLOR | 1.2J \| (ND) | 1.9 | 0.97 \| 0.97 |
| MIREX | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.5 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.228 \| (7.655) | 6.060 | 86.3 \| (126) | 50-130 |
| DECACHLOROBIPHENYL | 5.329 \| (6.154) | 6.060 | 87.9 \| (102) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:52 |
| Sample ID: SL-033-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 23:08 |
| Lab Samp ID: D018-03 | Dilution Factor: 1 |
| Lab File ID: LD19032A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : 8.9 |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.61 | 0.19 | 0.093\|0.093 |
| GAMMA-BHC (LINDANE) | (ND)\|0.22 | 0.19 | 0.093\|0.093 |
| BETA-BHC | (ND)\|ND | 0.19 | 0.093\|0.093 |
| HEPTACHLOR | 0.49\|(ND) | 0.19 | 0.093\|0.093 |
| DELTA-BHC | (ND)\|ND | 0.19 | 0.093\|0.093 |
| ALDRIN | (ND)\|ND | 0.19 | 0.093\|0.093 |
| HEPTACHLOR EPOXIDE | 0.50\|(ND) | 0.19 | 0.093\|0.093 |
| ENDOSULFAN I | (ND)\|ND | 0.19 | 0.093\|0.093 |
| 4,4'-DDE | (0.73)\|0.60 | 0.37 | 0.19\|0.19 |
| DIELDRIN | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.37 | 0.19\|0.19 |
| 4,4'-DDD | 0.32J\|(ND) | 0.37 | 0.19\|0.19 |
| ENDOSULFAN II | 0.29J\|(ND) | 0.37 | 0.19\|0.19 |
| 4,4'-DDT | 0.35J\|(0.60) | 0.37 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| METHOXYCHLOR | 1.5J\|(ND) | 1.9 | 0.93\|0.93 |
| MIREX | (ND)\|ND | 0.37 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.2 | 3.6\|3.6 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.050\|(7.634) | 5.854 | 86.3\|(130) | 50-130 |
| DECACHLOROBIPHENYL | 4.656\|(5.235) | 5.854 | 79.5\|(89.4) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:52 |
| Sample ID: SL-034-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 23:29 |
| Lab Samp ID: D018-04 | Dilution Factor: 1 |
| Lab File ID: LD19033A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : 16.4 |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.43 | 0.20 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| BETA-BHC | 2.1 \| (ND) | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR | 1.4 \| (ND) | 0.20 | 0.10 \| 0.10 |
| DELTA-BHC | 0.12J \| (ND) | 0.20 | 0.10 \| 0.10 |
| ALDRIN | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | 0.25 \| (ND) | 0.20 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| 0.12J | 0.20 | 0.10 \| 0.10 |
| 4,4'-DDE | (1.3) \| 1.3 | 0.41 | 0.20 \| 0.20 |
| DIELDRIN | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDRIN | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| 4,4'-DDD | (0.69) \| 0.50 | 0.41 | 0.20 \| 0.20 |
| ENDOSULFAN II | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| 4,4'-DDT | 1.2 \| (1.3) | 0.41 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | 0.55 \| (ND) | 0.41 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| METHOXYCHLOR | 1.2J \| (ND) | 2.0 | 1.0 \| 1.0 |
| MIREX | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.9 | 3.9 \| 3.9 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.1 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.447 \| (7.463) | 6.379 | 85.4 \| (117) | 50-130 |
| DECACHLOROBIPHENYL | 5.087 \| (5.834) | 6.379 | 79.7 \| (91.5) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:52 |
| Sample ID: SL-035-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 23:51 |
| Lab Samp ID: D018-05 | Dilution Factor: 1 |
| Lab File ID: LD19034A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : 11.9 |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| BETA-BHC | 0.26 \| (ND) | 0.19 | 0.096 \| 0.096 |
| HEPTACHLOR | 0.55 \| (ND) | 0.19 | 0.096 \| 0.096 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| ALDRIN | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| HEPTACHLOR EPOXIDE | 0.34 \| (ND) | 0.19 | 0.096 \| 0.096 |
| ENDOSULFAN I | (ND) \| 0.19 | 0.19 | 0.096 \| 0.096 |
| 4,4'-DDE | (0.74) \| 0.39 | 0.39 | 0.19 \| 0.19 |
| DIELDRIN | 0.33J \| (1.1) | 0.39 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDD | (0.43) \| 0.29J | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN II | 1.3 \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDT | (0.92) \| 0.79 | 0.39 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | 0.69 \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| ND | 1.9 | 0.96 \| 0.96 |
| MIREX | 0.52 \| (ND) | 0.39 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.5 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (5.421) \| 8.027 | 6.053 | (89.6) \| 133* | 50-130 |
| DECACHLOROBIPHENYL | 4.390 \| (5.407) | 6.053 | 72.5 \| (89.3) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:52 |
| Sample ID: SL-108-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 00:12 |
| Lab Samp ID: D018-08 | Dilution Factor: 1 |
| Lab File ID: LD19035A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : 5.7 |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.18 | 0.090 \| 0.090 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.18 | 0.090 \| 0.090 |
| BETA-BHC | 0.89 \| (ND) | 0.18 | 0.090 \| 0.090 |
| HEPTACHLOR | 0.48 \| (ND) | 0.18 | 0.090 \| 0.090 |
| DELTA-BHC | (ND) \| ND | 0.18 | 0.090 \| 0.090 |
| ALDRIN | (ND) \| ND | 0.18 | 0.090 \| 0.090 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.18 | 0.090 \| 0.090 |
| ENDOSULFAN I | (ND) \| ND | 0.18 | 0.090 \| 0.090 |
| 4,4'-DDE | 0.24J \| (ND) | 0.36 | 0.18 \| 0.18 |
| DIELDRIN | 0.52 \| (ND) | 0.36 | 0.18 \| 0.18 |
| ENDRIN | 0.31J \| (ND) | 0.36 | 0.18 \| 0.18 |
| 4,4'-DDD | (0.20J) \| 1.8 | 0.36 | 0.18 \| 0.18 |
| ENDOSULFAN II | 1.2 \| (ND) | 0.36 | 0.18 \| 0.18 |
| 4,4'-DDT | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | 0.37 \| (ND) | 0.36 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | 0.95 \| (ND) | 0.36 | 0.18 \| 0.18 |
| ENDRIN KETONE | 0.38 \| (ND) | 0.36 | 0.18 \| 0.18 |
| METHOXYCHLOR | (ND) \| 1.6J | 1.8 | 0.90 \| 0.90 |
| MIREX | 0.43 \| (ND) | 0.36 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 7.0 | 3.5 \| 3.5 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.6 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.898 \| (6.664) | 5.655 | 86.6 \| (118) | 50-130 |
| DECACHLOROBIPHENYL | 3.864 \| (5.590) | 5.655 | 68.3 \| (98.8) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:52 |
| Sample ID: SL-115-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 00:34 |
| Lab Samp ID: D018-09 | Dilution Factor: 1 |
| Lab File ID: LD19036A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : 12.3 |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.72\|(ND) | 0.19 | 0.097\|0.097 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.19 | 0.097\|0.097 |
| BETA-BHC | 0.87\|(ND) | 0.19 | 0.097\|0.097 |
| HEPTACHLOR | 0.75\|(ND) | 0.19 | 0.097\|0.097 |
| DELTA-BHC | (ND)\|ND | 0.19 | 0.097\|0.097 |
| ALDRIN | (ND)\|ND | 0.19 | 0.097\|0.097 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.19 | 0.097\|0.097 |
| ENDOSULFAN I | (ND)\|ND | 0.19 | 0.097\|0.097 |
| 4,4'-DDE | (ND)\|ND | 0.39 | 0.19\|0.19 |
| DIELDRIN | (ND)\|ND | 0.39 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.39 | 0.19\|0.19 |
| 4,4'-DDD | (0.45)\|0.35J | 0.39 | 0.19\|0.19 |
| ENDOSULFAN II | (ND)\|ND | 0.39 | 0.19\|0.19 |
| 4,4'-DDT | 0.35J\|(0.50) | 0.39 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.39 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.39 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.39 | 0.19\|0.19 |
| METHOXYCHLOR | (ND)\|2.0 | 1.9 | 0.97\|0.97 |
| MIREX | (ND)\|ND | 0.39 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.5 | 3.8\|3.8 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.9 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.496\|(7.293) | 6.081 | 90.4\|(120) | 50-130 |
| DECACHLOROBIPHENYL | 5.061\|(5.782) | 6.081 | 83.2\|(95.1) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:52 |
| Sample ID: SL-122-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 00:55 |
| Lab Samp ID: D018-10 | Dilution Factor: 1 |
| Lab File ID: LD19037A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : 12.1 |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.50 | 0.19 | 0.097 \| 0.097 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR | 0.78 \| (ND) | 0.19 | 0.097 \| 0.097 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| ALDRIN | (ND) \| 0.22 | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR EPOXIDE | 0.14J \| (ND) | 0.19 | 0.097 \| 0.097 |
| ENDOSULFAN I | (ND) \| 0.11J | 0.19 | 0.097 \| 0.097 |
| 4,4'-DDE | 0.46 \| (ND) | 0.39 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDD | (0.40) \| 0.30J | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN II | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDT | 0.34J \| (0.43) | 0.39 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | 0.37J \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | 0.32J \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| 1.6J | 1.9 | 0.97 \| 0.97 |
| MIREX | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.5 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (5.840) \| 7.962 | 6.067 | (96.3) \| 131* | 50-130 |
| DECACHLOROBIPHENYL | 4.992 \| (5.567) | 6.067 | 82.3 \| (91.8) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:52 |
| Sample ID: SL-127-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 01:16 |
| Lab Samp ID: D018-11 | Dilution Factor: 1 |
| Lab File ID: LD19038A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : 5.8 |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.50 | 0.18 | 0.090\|0.090 |
| GAMMA-BHC (LINDANE) | (ND)\|0.25 | 0.18 | 0.090\|0.090 |
| BETA-BHC | (ND)\|ND | 0.18 | 0.090\|0.090 |
| HEPTACHLOR | 0.43\|(ND) | 0.18 | 0.090\|0.090 |
| DELTA-BHC | (ND)\|0.24 | 0.18 | 0.090\|0.090 |
| ALDRIN | (ND)\|ND | 0.18 | 0.090\|0.090 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.18 | 0.090\|0.090 |
| ENDOSULFAN I | (ND)\|ND | 0.18 | 0.090\|0.090 |
| 4,4'-DDE | (0.52)\|0.34J | 0.36 | 0.18\|0.18 |
| DIELDRIN | 0.24J\|(ND) | 0.36 | 0.18\|0.18 |
| ENDRIN | (ND)\|ND | 0.36 | 0.18\|0.18 |
| 4,4'-DDD | (ND)\|ND | 0.36 | 0.18\|0.18 |
| ENDOSULFAN II | 0.38\|(ND) | 0.36 | 0.18\|0.18 |
| 4,4'-DDT | 0.21J\|(0.22J) | 0.36 | 0.18\|0.18 |
| ENDRIN ALDEHYDE | 0.42\|(ND) | 0.36 | 0.18\|0.18 |
| ENDOSULFAN SULFATE | 0.43\|(ND) | 0.36 | 0.18\|0.18 |
| ENDRIN KETONE | (ND)\|ND | 0.36 | 0.18\|0.18 |
| METHOXYCHLOR | (ND)\|ND | 1.8 | 0.90\|0.90 |
| MIREX | (ND)\|ND | 0.36 | 0.18\|0.18 |
| TOXAPHENE | (ND)\|ND | 7.0 | 3.5\|3.5 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.204\|(7.054) | 5.661 | 91.9\|(125) | 50-130 |
| DECACHLOROBIPHENYL | 4.480\|(5.288) | 5.661 | 79.1\|(93.4) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:52 |
| Sample ID: SL-140-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 01:38 |
| Lab Samp ID: D018-12 | Dilution Factor: 1 |
| Lab File ID: LD19039A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : 13.8 |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.61 | 0.20 | 0.099 \| 0.099 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| BETA-BHC | (ND) \| 0.22 | 0.20 | 0.099 \| 0.099 |
| HEPTACHLOR | 0.70 \| (ND) | 0.20 | 0.099 \| 0.099 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| ALDRIN | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| HEPTACHLOR EPOXIDE | 0.11J \| (ND) | 0.20 | 0.099 \| 0.099 |
| ENDOSULFAN I | (ND) \| 0.16J | 0.20 | 0.099 \| 0.099 |
| 4,4'-DDE | (0.87) \| 0.72 | 0.39 | 0.20 \| 0.20 |
| DIELDRIN | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDRIN | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| 0.34J | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN II | 0.55 \| (ND) | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDT | 0.89 \| (1.2) | 0.39 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | 0.76 \| (ND) | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| ND | 2.0 | 0.99 \| 0.99 |
| MIREX | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.7 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.890 \| (6.579) | 6.187 | 79.0 \| (106) | 50-130 |
| DECACHLOROBIPHENYL | 4.774 \| (6.390) | 6.187 | 77.2 \| (103) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:52 |
| Sample ID: SL-169-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 01:59 |
| Lab Samp ID: D018-13 | Dilution Factor: 1 |
| Lab File ID: LD19040A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : 9.6 |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| HEPTACHLOR | 0.47 \| (ND) | 0.19 | 0.094 \| 0.094 |
| DELTA-BHC | (ND) \| 0.71 | 0.19 | 0.094 \| 0.094 |
| ALDRIN | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| HEPTACHLOR EPOXIDE | 0.52 \| (ND) | 0.19 | 0.094 \| 0.094 |
| ENDOSULFAN I | (ND) \| 0.18J | 0.19 | 0.094 \| 0.094 |
| 4,4'-DDE | (0.85) \| 0.44 | 0.38 | 0.19 \| 0.19 |
| DIELDRIN | 0.74 \| (0.38J) | 0.38 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| 1.1 | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDD | (0.47) \| 4.4 | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN II | 2.2 \| (ND) | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDT | (0.28J) \| 0.62 | 0.38 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | 1.5 \| (ND) | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | 5.8 \| (ND) | 0.38 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| METHOXYCHLOR | 2.3 \| (ND) | 1.9 | 0.94 \| 0.94 |
| MIREX | 0.76 \| (ND) | 0.38 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.3 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.8 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.379 \| (7.633) | 5.899 | 91.2 \| (129) | 50-130 |
| DECACHLOROBIPHENYL | 4.400 \| (5.536) | 5.899 | 74.6 \| (93.8) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:52 |
| Sample ID: SL-198-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 02:21 |
| Lab Samp ID: D018-14 | Dilution Factor: 1 |
| Lab File ID: LD19041A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : 7.6 |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.50 | 0.18 | 0.092 \| 0.092 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.25 | 0.18 | 0.092 \| 0.092 |
| BETA-BHC | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR | 0.46 \| (ND) | 0.18 | 0.092 \| 0.092 |
| DELTA-BHC | (ND) \| 0.52 | 0.18 | 0.092 \| 0.092 |
| ALDRIN | 0.096J \| (ND) | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR EPOXIDE | 0.78 \| (ND) | 0.18 | 0.092 \| 0.092 |
| ENDOSULFAN I | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| 4,4'-DDE | 0.91 \| (ND) | 0.37 | 0.18 \| 0.18 |
| DIELDRIN | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDRIN | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDD | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN II | 0.47 \| (ND) | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDT | 0.88 \| (1.2) | 0.37 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | 1.2 \| (ND) | 0.37 | 0.18 \| 0.18 |
| ENDRIN KETONE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| METHOXYCHLOR | 4.4 \| (ND) | 1.8 | 0.92 \| 0.92 |
| MIREX | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 7.1 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (5.264) \| 8.440 | 5.772 | (91.2) \| 146* | 50-130 |
| DECACHLOROBIPHENYL | 3.913 \| (4.803) | 5.772 | 67.8 \| (83.2) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/14/12 |
| Batch No. : 12D018 | Date Extracted: 04/14/12 10:52 |
| Sample ID: MBLK1S | Date Analyzed: 04/19/12 21:20 |
| Lab Samp ID: CPD034SB | Dilution Factor: 1 |
| Lab File ID: LD19027A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : NA |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.11J | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.445\|(6.387) | 5.333 | 83.4\|(120) | 50-130 |
| DECACHLOROBIPHENYL | 4.764\|(5.308) | 5.333 | 89.3\|(99.5) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPD034SB CPD034SL CPD034SC
LAB FILE ID: LD19027A LD19028A LD19029A
DATE EXTRACTED: 04/14/1210:52 04/14/1210:52 04/14/1210:52 DATE COLLECTED: NA
DATE ANALYZED: 04/19/1221:20 04/19/1221:42 04/19/1222:03 DATE RECEIVED: 04/14/12
PREP. BATCH: CPD034S CPD034S CPD034S
CALIB. REF: LD19019A LD19019A LD19019A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|0.11J | 2.67 | (2.36)\|3.43 | (88)\|128 | 2.67 | (2.44)\|3.60 | (91)\|135 | (3)\|5 | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|ND | 2.67 | 2.67\|(3.19) | 100\|(119) | 2.67 | 2.83\|(3.34) | 106\|(125) | 6\|(5) | 40-130 | 50 |
| beta-BHC | (ND)\|ND | 2.67 | 2.27\|(2.54) | 85\|(95) | 2.67 | 2.46\|(2.61) | 92\|(98) | 8\|(3) | 50-140 | 50 |
| Heptachlor | (ND)\|ND | 2.67 | 3.14\|(3.37) | 118\|(126) | 2.67 | (3.29)\|3.25 | (123)\|122 | (5)\|4 | 30-130 | 50 |
| delta-BHC | (ND)\|ND | 2.67 | 3.12\|(3.43) | 117\|(128) | 2.67 | 3.22\|(3.32) | 121\|(124) | 3\|(3) | 30-150 | 50 |
| Aldrin | (ND)\|ND | 2.67 | 2.57\|(2.96) | 96\|(111) | 2.67 | 2.72\|(2.78) | 102\|(104) | 6\|(6) | 30-130 | 50 |
| Heptachlor Epoxide | (ND)\|ND | 2.67 | 2.73\|(2.82) | 102\|(106) | 2.67 | 2.54\|(2.74) | 95\|(103) | 7\|(3) | 60-140 | 50 |
| Endosulfan I | (ND)\|ND | 2.67 | 2.33\|(2.81) | 87\|(105) | 2.67 | 2.28\|(2.75) | 85\|(103) | 2\|(2) | 50-150 | 50 |
| 4,4'-DDE | (ND)\|ND | 2.67 | 2.87\|(2.88) | 107\|(108) | 2.67 | 2.91\|(2.99) | 109\|(112) | 1\|(4) | 50-150 | 50 |
| Dieldrin | (ND)\|ND | 2.67 | (3.12)\|2.77 | (117)\|104 | 2.67 | (2.90)\|2.69 | (109)\|101 | (7)\|3 | 60-130 | 50 |
| Endrin | (ND)\|ND | 2.67 | 2.73\|(2.86) | 102\|(107) | 2.67 | 2.67\|(2.82) | 100\|(106) | 2\|(1) | 50-140 | 50 |
| 4,4'-DDD | (ND)\|ND | 2.67 | 2.76\|(2.77) | 103\|(104) | 2.67 | 2.53\|(2.78) | 95\|(104) | 9\|(0) | 50-160 | 50 |
| Endosulfan II | (ND)\|ND | 2.67 | 2.75\|(3.05) | 103\|(114) | 2.67 | 2.81\|(2.99) | 105\|(112) | 2\|(2) | 60-150 | 50 |
| 4,4'-DDT | (ND)\|ND | 2.67 | (3.30)\|3.14 | (124)\|118 | 2.67 | (3.39)\|3.19 | (127)\|119 | (3)\|2 | 60-140 | 50 |
| Endrin aldehyde | (ND)\|ND | 2.67 | 2.57\|(2.82) | 96\|(106) | 2.67 | 2.68\|(2.91) | 100\|(109) | 4\|(3) | 50-160 | 50 |
| Endosulfan Sulfate | (ND)\|ND | 2.67 | 2.93\|(3.12) | 110\|(117) | 2.67 | 3.00\|(3.19) | 112\|(119) | 2\|(2) | 70-140 | 50 |
| Endrin Ketone | (ND)\|ND | 2.67 | 2.82\|(2.84) | 106\|(106) | 2.67 | 2.90\|(2.91) | 109\|(109) | 3\|(2) | 70-160 | 50 |
| Methoxychlor | (ND)\|ND | 26.7 | 27.5\|(30.0) | 103\|(112) | 26.7 | 27.5\|(30.2) | 103\|(113) | 0\|(1) | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 4.865\|(6.072) | 91.2\|(114) | 5.333 | 4.957\|(6.191) | 93.0\|(116) | 50-130 |
| Decachlorobiphenyl | 5.333 | 4.978\|(5.460) | 93.3\|(102) | 5.333 | 4.936\|(5.391) | 92.6\|(101) | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/15/12 10:24 |
| Sample ID: SL-031-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 16:46 |
| Lab Samp ID: D018-01 | Dilution Factor: 1 |
| Lab File ID: KD25010A | Matrix : SOIL |
| Ext Btch ID: CPD036S | % Moisture : 7.8 |
| Calib. Ref.: KD25002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.619)\|4.640 | 5.784 | (97.1)\|80.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.544)\|4.991 | 5.784 | (113)\|86.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/15/12 10:24 |
| Sample ID: SL-032-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 17:39 |
| Lab Samp ID: D018-02 | Dilution Factor: 1 |
| Lab File ID: KD25011A | Matrix : SOIL |
| Ext Btch ID: CPD036S | % Moisture : 12.0 |
| Calib. Ref.: KD25002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.037)\|4.935 | 6.060 | (99.6)\|81.4 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.066)\|5.698 | 6.060 | (117)\|94.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/15/12 10:24 |
| Sample ID: SL-033-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 18:32 |
| Lab Samp ID: D018-03 | Dilution Factor: 1 |
| Lab File ID: KD25012A | Matrix : SOIL |
| Ext Btch ID: CPD036S | % Moisture : 8.9 |
| Calib. Ref.: KD25002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.155)\|5.007 | 5.854 | (105)\|85.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.467)\|5.247 | 5.854 | (128)\|89.6 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/03/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/03/12 |
| Batch No. | : 12D018 | Date Extracted | : 04/15/12 10:24 |
| Sample ID | : SL-034-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/25/12 19:25 |
| Lab Samp ID | : D018-04 | Dilution Factor | : 1 |
| Lab File ID | : KD25013A | Matrix | : SOIL |
| Ext Btch ID | : CPD036S | % Moisture | : 16.4 |
| Calib. Ref. | : KD25002A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5460 | (4.1)\|3.8J | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.592)\|5.324 | 6.379 | (103)\|83.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.538)\|5.994 | 6.379 | (118)\|94.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/15/12 10:24 |
| Sample ID: SL-035-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 00:44 |
| Lab Samp ID: D018-05 | Dilution Factor: 1 |
| Lab File ID: KD25019A | Matrix : SOIL |
| Ext Btch ID: CPD036S | % Moisture : 11.9 |
| Calib. Ref.: KD25016A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.079)\|4.720 | 6.053 | (100)\|78.0 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.150)\|5.031 | 6.053 | (118)\|83.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/15/12 10:24 |
| Sample ID: SL-035-NBZ-SB-2.0-3.0 | Date Analyzed: 04/26/12 01:37 |
| Lab Samp ID: D018-07 | Dilution Factor: 1 |
| Lab File ID: KD25020A | Matrix : SOIL |
| Ext Btch ID: CPD036S | % Moisture : 4.8 |
| Calib. Ref.: KD25016A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.89\|0.89 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.705)\|4.600 | 5.602 | (102)\|82.1 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.299)\|4.564 | 5.602 | (112)\|81.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/15/12 10:24 |
| Sample ID: SL-108-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 02:30 |
| Lab Samp ID: D018-08 | Dilution Factor: 1 |
| Lab File ID: KD25021A | Matrix : SOIL |
| Ext Btch ID: CPD036S | % Moisture : 5.7 |
| Calib. Ref.: KD25016A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.464)\|4.417 | 5.655 | (96.6)\|78.1 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.382)\|4.343 | 5.655 | (113)\|76.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/15/12 10:24 |
| Sample ID: SL-115-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 03:23 |
| Lab Samp ID: D018-09 | Dilution Factor: 1 |
| Lab File ID: KD25022A | Matrix : SOIL |
| Ext Btch ID: CPD036S | % Moisture : 12.3 |
| Calib. Ref.: KD25016A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.725)\|5.291 | 6.081 | (111)\|87.0 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.773)\|5.614 | 6.081 | (128)\|92.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/15/12 10:24 |
| Sample ID: SL-122-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 04:16 |
| Lab Samp ID: D018-10 | Dilution Factor: 1 |
| Lab File ID: KD25023A | Matrix : SOIL |
| Ext Btch ID: CPD036S | % Moisture : 12.1 |
| Calib. Ref.: KD25016A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.043)\|5.072 | 6.067 | (99.6)\|83.6 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.308)\|5.383 | 6.067 | (120)\|88.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/15/12 10:24 |
| Sample ID: SL-127-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 05:09 |
| Lab Samp ID: D018-11 | Dilution Factor: 1 |
| Lab File ID: KD25024A | Matrix : SOIL |
| Ext Btch ID: CPD036S | % Moisture : 5.8 |
| Calib. Ref.: KD25016A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.768)\|4.621 | 5.661 | (102)\|81.6 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.964)\|4.483 | 5.661 | (105)\|79.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/15/12 10:24 |
| Sample ID: SL-140-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 06:02 |
| Lab Samp ID: D018-12 | Dilution Factor: 1 |
| Lab File ID: KD25025A | Matrix : SOIL |
| Ext Btch ID: CPD036S | % Moisture : 13.8 |
| Calib. Ref.: KD25016A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5460 | (2.2J)\|2.2J | 3.8 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.332)\|5.046 | 6.187 | (102)\|81.6 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.312)\|5.494 | 6.187 | (118)\|88.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/15/12 10:24 |
| Sample ID: SL-169-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 06:56 |
| Lab Samp ID: D018-13 | Dilution Factor: 1 |
| Lab File ID: KD25026A | Matrix : SOIL |
| Ext Btch ID: CPD036S | % Moisture : 9.6 |
| Calib. Ref.: KD25016A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.649\|(5.817) | 5.899 | 130*\|(98.6) | 45-120 |
| TETRACHLORO-M-XYLENE | (9.327)\|4.554 | 5.899 | (158)\|77.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/15/12 10:24 |
| Sample ID: SL-198-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 07:49 |
| Lab Samp ID: D018-14 | Dilution Factor: 1 |
| Lab File ID: KD25027A | Matrix : SOIL |
| Ext Btch ID: CPD036S | % Moisture : 7.6 |
| Calib. Ref.: KD25016A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.140)\|4.854 | 5.772 | (106)\|84.1 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.839)\|5.424 | 5.772 | (119)\|94.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/15/12 |
| Batch No. : 12D018 | Date Extracted: 04/15/12 10:24 |
| Sample ID: MBLK1S | Date Analyzed: 04/25/12 13:38 |
| Lab Samp ID: 60D036SB | Dilution Factor: 1 |
| Lab File ID: KD25007A | Matrix : SOIL |
| Ext Btch ID: CPD036S | % Moisture : NA |
| Calib. Ref.: KD25002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 6.979\|(5.706) | 5.333 | 131*\|(107) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.465)\|6.054 | 5.333 | (140)\|114 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: 60D036SB 60D036SL 60D036SC
LAB FILE ID: KD25007A KD25008A KD25009A
DATE EXTRACTED: 04/15/1210:24 04/15/1210:24 04/15/1210:24 DATE COLLECTED: NA
DATE ANALYZED: 04/25/1213:38 04/25/1214:31 04/25/1215:24 DATE RECEIVED: 04/15/12
PREP. BATCH: CPD036S CPD036S CPD036S
CALIB. REF: KD25002A KD25002A KD25002A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (79.7)\|62.3 | (120)\|93 | 66.7 | (65.3)\|57.9 | (98)\|87 | (20)\|7 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (88.2)\|82.3 | (132)\|123 | 66.7 | (68.9)\|65.5 | (103)\|98 | (25)\|23 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | 80.7\|(90.5) | 121\|(136) | 66.7 | 56.3\|(64.2) | 84\|(96) | 36\|(34) | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | 6.845\|(5.554) | 128*\|(104) | 5.333 | (5.535)\|4.626 | (104)\|86.7 | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (6.621)\|4.868 | (124)\|91.3 | 5.333 | (5.552)\|5.194 | (104)\|97.4 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 18:13 |
| Sample ID: SL-031-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 15:21 |
| Lab Samp ID: D018-01 | Dilution Factor: 1 |
| Lab File ID: WD11010A | Matrix : SOIL |
| Ext Btch ID: HED005S | % Moisture : 7.8 |
| Calib. Ref.: WD11003A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.8 | 0.92\|0.92 |
| 2,4,5-T | (ND)\|ND | 0.18 | 0.092\|0.092 |
| 2,4,5-TP(SILVEX) | 0.62\|(ND) | 0.18 | 0.092\|0.092 |
| DALAPON | (ND)\|ND | 9.8 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.65\|0.65 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.8 | 0.92\|0.92 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|630 | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (183.9)\|148.5 | 162.7 | (113)\|91.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 18:13 |
| Sample ID: SL-032-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 15:48 |
| Lab Samp ID: D018-02 | Dilution Factor: 1 |
| Lab File ID: WD11011A | Matrix : SOIL |
| Ext Btch ID: HED005S | % Moisture : 12.0 |
| Calib. Ref.: WD11003A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.097\|0.097 |
| 2,4,5-TP(SILVEX) | 0.11J\|(ND) | 0.19 | 0.097\|0.097 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.68\|0.68 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|730 | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (184.9)\|152.2 | 170.5 | (108)\|89.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 18:13 |
| Sample ID: SL-033-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 16:15 |
| Lab Samp ID: D018-03 | Dilution Factor: 1 |
| Lab File ID: WD11012A | Matrix : SOIL |
| Ext Btch ID: HED005S | % Moisture : 8.9 |
| Calib. Ref.: WD11003A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.093\|0.093 |
| 2,4,5-TP(SILVEX) | 0.37\|(ND) | 0.19 | 0.093\|0.093 |
| DALAPON | (ND)\|ND | 9.9 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.66\|0.66 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|830 | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (168.5)\|134.6 | 164.7 | (102)\|81.8 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 18:13 |
| Sample ID: SL-034-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 16:41 |
| Lab Samp ID: D018-04 | Dilution Factor: 1 |
| Lab File ID: WD11013A | Matrix : SOIL |
| Ext Btch ID: HED005S | % Moisture : 16.4 |
| Calib. Ref.: WD11003A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.3 | 2.2\|2.2 |
| 2,4-DB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| 2,4,5-T | (ND)\|1.8 | 0.20 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | 0.29\|(ND) | 0.20 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.4\|5.4 |
| DICAMBA | (ND)\|ND | 1.4 | 0.72\|0.72 |
| DICHLOROPROP | (ND)\|ND | 2.9 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| MCPA | (ND)\|ND | 300 | 150\|150 |
| MCPP | (ND)\|720 | 300 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (190.6)\|141.4 | 179.4 | (106)\|78.8 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 18:13 |
| Sample ID: SL-035-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 19:21 |
| Lab Samp ID: D018-05 | Dilution Factor: 1 |
| Lab File ID: WD11019A | Matrix : SOIL |
| Ext Btch ID: HED005S | % Moisture : 11.9 |
| Calib. Ref.: WD11015A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| 2,4,5-T | (ND)\|0.84 | 0.19 | 0.096\|0.096 |
| 2,4,5-TP(SILVEX) | 0.36\|(ND) | 0.19 | 0.096\|0.096 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.68\|0.68 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|930 | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (192.4)\|153.5 | 170.3 | (113)\|90.2 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 18:13 |
| Sample ID: SL-108-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 18:54 |
| Lab Samp ID: D018-08 | Dilution Factor: 1 |
| Lab File ID: WD11018A | Matrix : SOIL |
| Ext Btch ID: HED005S | % Moisture : 5.7 |
| Calib. Ref.: WD11015A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.8 | 1.9\|1.9 |
| 2,4-DB | (ND)\|ND | 1.8 | 0.90\|0.90 |
| 2,4,5-T | (ND)\|2.0 | 0.18 | 0.090\|0.090 |
| 2,4,5-TP(SILVEX) | 0.10J\|(ND) | 0.18 | 0.090\|0.090 |
| DALAPON | (ND)\|ND | 9.5 | 4.8\|4.8 |
| DICAMBA | (ND)\|ND | 1.3 | 0.64\|0.64 |
| DICHLOROPROP | (ND)\|ND | 2.5 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.8 | 0.90\|0.90 |
| MCPA | (ND)\|ND | 270 | 130\|130 |
| MCPP | (ND)\|360 | 270 | 130\|130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (213.9)\|165.8 | 159.1 | (134)\|104 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 18:13 |
| Sample ID: SL-115-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 19:47 |
| Lab Samp ID: D018-09 | Dilution Factor: 1 |
| Lab File ID: WD11020A | Matrix : SOIL |
| Ext Btch ID: HED005S | % Moisture : 12.3 |
| Calib. Ref.: WD11015A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| 2,4,5-T | (ND)\|2.0 | 0.19 | 0.097\|0.097 |
| 2,4,5-TP(SILVEX) | 0.29\|(ND) | 0.19 | 0.097\|0.097 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.68\|0.68 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|1.5J | 1.9 | 0.97\|0.97 |
| MCPA | (ND)\|ND | 290 | 140\|140 |
| MCPP | (ND)\|550 | 290 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (190.2)\|140.2 | 171.0 | (111)\|82.0 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 18:13 |
| Sample ID: SL-122-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 20:14 |
| Lab Samp ID: D018-10 | Dilution Factor: 1 |
| Lab File ID: WD11021A | Matrix : SOIL |
| Ext Btch ID: HED005S | % Moisture : 12.1 |
| Calib. Ref.: WD11015A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| 2,4,5-T | (ND)\|0.78 | 0.19 | 0.097\|0.097 |
| 2,4,5-TP(SILVEX) | 0.26\|(ND) | 0.19 | 0.097\|0.097 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.68\|0.68 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|400 | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (212.9)\|169.8 | 170.6 | (125)\|99.5 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 18:13 |
| Sample ID: SL-127-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 20:41 |
| Lab Samp ID: D018-11 | Dilution Factor: 1 |
| Lab File ID: WD11022A | Matrix : SOIL |
| Ext Btch ID: HED005S | % Moisture : 5.8 |
| Calib. Ref.: WD11015A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.8 | 1.9\|1.9 |
| 2,4-DB | (ND)\|ND | 1.8 | 0.90\|0.90 |
| 2,4,5-T | (ND)\|1.2 | 0.18 | 0.090\|0.090 |
| 2,4,5-TP(SILVEX) | 0.18J\|(ND) | 0.18 | 0.090\|0.090 |
| DALAPON | (ND)\|ND | 9.6 | 4.8\|4.8 |
| DICAMBA | (ND)\|ND | 1.3 | 0.64\|0.64 |
| DICHLOROPROP | (ND)\|ND | 2.5 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.8 | 0.90\|0.90 |
| MCPA | (ND)\|ND | 270 | 130\|130 |
| MCPP | (ND)\|760 | 270 | 130\|130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (200.3)\|149.4 | 159.2 | (126)\|93.8 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 18:13 |
| Sample ID: SL-140-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 21:07 |
| Lab Samp ID: D018-12 | Dilution Factor: 1 |
| Lab File ID: WD11023A | Matrix : SOIL |
| Ext Btch ID: HED005S | % Moisture : 13.8 |
| Calib. Ref.: WD11015A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 0.99\|0.99 |
| 2,4,5-T | (ND)\|1.8 | 0.20 | 0.099\|0.099 |
| 2,4,5-TP(SILVEX) | 0.56\|(ND) | 0.20 | 0.099\|0.099 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.70\|0.70 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 0.99\|0.99 |
| MCPA | (ND)\|ND | 290 | 150\|150 |
| MCPP | (ND)\|770 | 290 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (214.2)\|159.8 | 174.0 | (123)\|91.9 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 18:13 |
| Sample ID: SL-169-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 21:34 |
| Lab Samp ID: D018-13 | Dilution Factor: 1 |
| Lab File ID: WD11024A | Matrix : SOIL |
| Ext Btch ID: HED005S | % Moisture : 9.6 |
| Calib. Ref.: WD11015A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.94\|0.94 |
| 2,4,5-T | (ND)\|2.0 | 0.19 | 0.094\|0.094 |
| 2,4,5-TP(SILVEX) | 0.65\|(ND) | 0.19 | 0.094\|0.094 |
| DALAPON | (ND)\|ND | 10 | 5.0\|5.0 |
| DICAMBA | (ND)\|ND | 1.3 | 0.66\|0.66 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.94\|0.94 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|1600 | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (195.4)\|154.5 | 165.9 | (118)\|93.1 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 18:13 |
| Sample ID: SL-198-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 22:00 |
| Lab Samp ID: D018-14 | Dilution Factor: 1 |
| Lab File ID: WD11025A | Matrix : SOIL |
| Ext Btch ID: HED005S | % Moisture : 7.6 |
| Calib. Ref.: WD11015A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 1.9\|1.9 |
| 2,4-DB | (ND)\|ND | 1.8 | 0.92\|0.92 |
| 2,4,5-T | (ND)\|ND | 0.18 | 0.092\|0.092 |
| 2,4,5-TP(SILVEX) | 0.52\|(ND) | 0.18 | 0.092\|0.092 |
| DALAPON | (ND)\|ND | 9.7 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.65\|0.65 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.8 | 0.92\|0.92 |
| MCPA | 520\|(ND) | 270 | 140\|140 |
| MCPP | (ND)\|210J | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (199.8)\|146.2 | 162.3 | (123)\|90.0 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 18:13 |
| Sample ID: MBLK1S | Date Analyzed: 04/11/12 12:42 |
| Lab Samp ID: HED005SB | Dilution Factor: 1 |
| Lab File ID: WD11004A | Matrix : SOIL |
| Ext Btch ID: HED005S | % Moisture : NA |
| Calib. Ref.: WD11003A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | 0.20\|(ND) | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | 180J\|(ND) | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (172.8)\|139.4 | 150.0 | (115)\|93.0 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HED005SB | HED005SL | HED005SC | | |
| LAB FILE ID: | WD11004A | WD11005A | WD11006A | | |
| DATE EXTRACTED: | 04/10/1218:13 | 04/10/1218:13 | 04/10/1218:13 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1212:42 | 04/11/1213:09 | 04/11/1213:35 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | HED005S | HED005S | HED005S | | |
| CALIB. REF: | WD11003A | WD11003A | WD11003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | (16.4)\|14.4 | (109)\|96 | 15.0 | (17.6)\|15.5 | (117)\|103 | (7)\|7 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 14.4\|(20.3) | 96\|(135) | 15.0 | 15.8\|(16.4) | 105\|(109) | 9\|(21) | 20-160 | 50 |
| 2,4,5-T | 0.20\|(ND) | 15.0 | 15.3\|(17.0) | 102\|(113) | 15.0 | (16.7)\|16.7 | (111)\|111 | (9)\|2 | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 15.0 | (15.7)\|14.9 | (105)\|99 | 15.0 | (17.3)\|17.3 | (115)\|115 | (10)\|15 | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | 7.64J\|(11.0) | 51\|(73) | 15.0 | 7.82J\|(11.3) | 52\|(75) | 2\|(3) | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (15.0)\|13.6 | (100)\|91 | 15.0 | (16.5)\|15.4 | (110)\|103 | (10)\|12 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | (17.1)\|16.7 | (114)\|111 | 15.0 | (18.7)\|18.3 | (125)\|122 | (9)\|9 | 60-160 | 50 |
| Dinoseb | (ND)\|ND | 15.0 | (8.93)\|8.10 | (60)\|54 | 15.0 | (9.07)\|7.49 | (60)\|50 | (2)\|8 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (803)\|699 | (107)\|93 | 750 | (815)\|717 | (109)\|96 | (1)\|3 | 20-160 | 50 |
| MCPP | 180J\|(ND) | 750 | (1040)\|533 | (139)\|71 | 750 | (1120)\|603 | (149)\|80 | (7)\|12 | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 (162.2)\|134.5 | (108)\|89.7 | 150.0 | (180.6)\|149.7 | (120)\|99.8 | 10-150 | |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: 5.7

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-108-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D018-08 | D018-08M | D018-08S | | |
| LAB FILE ID: | WD11018A | WD11016A | WD11017A | | |
| DATE EXTRACTED: | 04/10/1218:13 | 04/10/1218:13 | 04/10/1218:13 | DATE COLLECTED: | 04/03/12 |
| DATE ANALYZED: | 04/11/1218:54 | 04/11/1218:01 | 04/11/1218:27 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | HED005S | HED005S | HED005S | | |
| CALIB. REF: | WD11015A | WD11015A | WD11015A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.9 | (18.1)\|17.6 | (114)\|111 | 15.9 | (17.7)\|17.7 | (111)\|111 | (2)\|1 | 30-140 | 50 |
| 2,4-DB | (ND)\|ND | 15.9 | (15.0)\|13.7 | (94)\|86 | 15.9 | (14.4)\|13.4 | (91)\|84 | (4)\|2 | 30-160 | 50 |
| 2,4,5-T | (ND)\|2.0 | 15.9 | 16.0\|(17.2) | 101\|(96) | 15.9 | 16.0\|(18.5) | 101\|(104) | 0\|(7) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | 0.10J\|(ND) | 15.9 | 16.7\|(18.7) | 104\|(118) | 15.9 | 16.7\|(18.9) | 104\|(119) | 0\|(1) | 30-150 | 50 |
| Dalapon | (ND)\|ND | 15.9 | 7.50J\|(15.5) | 47\|(97) | 15.9 | 7.61J\|(10.5) | 48\|(66) | 1\|(38) | 10-160 | 50 |
| Dicamba | (ND)\|ND | 15.9 | 16.5\|(16.6) | 104\|(104) | 15.9 | 16.7\|(17.0) | 105\|(107) | 1\|(2) | 50-130 | 50 |
| Dichloroprop | (ND)\|ND | 15.9 | 18.3\|(19.7) | 115\|(124) | 15.9 | 17.7\|(19.0) | 111\|(119) | 3\|(4) | 60-150 | 50 |
| Dinoseb | (ND)\|ND | 15.9 | (10.1)\|10.1 | (63)\|63 | 15.9 | (10.0)\|8.75 | (63)\|55 | (1)\|14 | 10-130 | 50 |
| MCPA | (ND)\|ND | 795 | (919)\|613 | (116)\|77 | 795 | (912)\|620 | (115)\|78 | (1)\|1 | 10-160 | 50 |
| MCPP | (ND)\|360 | 795 | (1050)\|602 | (132)\|30 | 795 | (1220)\|601 | (153)\|30 | (15)\|0 | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 159.1 (183.7)\|149.7 | (115)\|94.1 | 159.1 | (188.8)\|153.8 | (119)\|96.7 | 10-150 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 19:48 |
| Sample ID: SL-031-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 19:24 |
| Lab Samp ID: D018-01 | Dilution Factor: 1 |
| Lab File ID: XD11011A | Matrix : SOIL |
| Ext Btch ID: EXD008S | % Moisture : NA |
| Calib. Ref.: XD11002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1890 | 2000 | 94.3 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 19:48 |
| Sample ID: SL-032-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 19:58 |
| Lab Samp ID: D018-02 | Dilution Factor: .99 |
| Lab File ID: XD11012A | Matrix : SOIL |
| Ext Btch ID: EXD008S | % Moisture : NA |
| Calib. Ref.: XD11002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1840 | 1980 | 92.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 19:48 |
| Sample ID: SL-033-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 21:06 |
| Lab Samp ID: D018-03 | Dilution Factor: .99 |
| Lab File ID: XD11014A | Matrix : SOIL |
| Ext Btch ID: EXD008S | % Moisture : NA |
| Calib. Ref.: XD11013A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1900 | 1980 | 96.1 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 19:48 |
| Sample ID: SL-034-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 21:40 |
| Lab Samp ID: D018-04 | Dilution Factor: 1 |
| Lab File ID: XD11015A | Matrix : SOIL |
| Ext Btch ID: EXD008S | % Moisture : NA |
| Calib. Ref.: XD11013A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1910 | 2000 | 95.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 19:48 |
| Sample ID: SL-035-NBZ-SS-0.0-0.5 | Date Analyzed: 04/11/12 22:15 |
| Lab Samp ID: D018-05 | Dilution Factor: .99 |
| Lab File ID: XD11016A | Matrix : SOIL |
| Ext Btch ID: EXD008S | % Moisture : NA |
| Calib. Ref.: XD11013A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1890 | 1980 | 95.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 19:48 |
| Sample ID: SL-035-NBZ-SB-2.0-3.0 | Date Analyzed: 04/11/12 22:49 |
| Lab Samp ID: D018-07 | Dilution Factor: 1 |
| Lab File ID: XD11017A | Matrix : SOIL |
| Ext Btch ID: EXD008S | % Moisture : NA |
| Calib. Ref.: XD11013A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1900 | 2000 | 94.8 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 19:48 |
| Sample ID: MBLK1S | Date Analyzed: 04/11/12 15:25 |
| Lab Samp ID: EXD008SB | Dilution Factor: 1 |
| Lab File ID: XD11004A | Matrix : SOIL |
| Ext Btch ID: EXD008S | % Moisture : NA |
| Calib. Ref.: XD11002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1910 | 2000 | 95.4 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD008SB | EXD008SL | EXD008SC | | |
| LAB FILE ID: | XD11004A | XD11005A | XD11006A | | |
| DATE EXTRACTED: | 04/10/1219:48 | 04/10/1219:48 | 04/10/1219:48 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1215:25 | 04/11/1215:59 | 04/11/1216:33 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | EXD008S | EXD008S | EXD008S | | |
| CALIB. REF: | XD11002A | XD11002A | XD11002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 1820 | 91 | 2000 | 1830 | 92 | 1 | 70-130 | 50 |
| RDX | ND | 2000 | 1910 | 95 | 2000 | 1920 | 96 | 1 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2070 | 103 | 2000 | 2060 | 103 | 0 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2010 | 100 | 2000 | 2040 | 102 | 1 | 70-130 | 50 |
| Tetryl | ND | 2000 | 1880 | 94 | 2000 | 1870 | 94 | 1 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 2150 | 108 | 2000 | 2160 | 108 | 0 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 1700 | 85 | 2000 | 1660 | 83 | 3 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 1820 | 91 | 2000 | 1880 | 94 | 3 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 1780 | 89 | 2000 | 1840 | 92 | 3 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 1940 | 97 | 2000 | 2000 | 100 | 3 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2070 | 103 | 2000 | 2050 | 102 | 1 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 1910 | 96 | 2000 | 1900 | 95 | 1 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1740 | 87 | 2000 | 1870 | 93 | 7 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 1910 | 95 | 2000 | 1740 | 87 | 9 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1860 | 93 | 2000 | 1920 | 96 | 3 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2080 | 104 | 2000 | 2050 | 102 | 1 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1930 | 96 | 2000 | 1890 | 95 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 19:48 |
| Sample ID: SL-031-NBZ-SS-0.0-0.5 | Date Analyzed: 04/12/12 10:16 |
| Lab Samp ID: D018-01 | Dilution Factor: 1 |
| Lab File ID: PD11028A | Matrix : SOIL |
| Ext Btch ID: EXD008S | % Moisture : NA |
| Calib. Ref.: PD11027A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2430 | 2000 | 121 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 19:48 |
| Sample ID: SL-032-NBZ-SS-0.0-0.5 | Date Analyzed: 04/12/12 10:30 |
| Lab Samp ID: D018-02 | Dilution Factor: .99 |
| Lab File ID: PD11029A | Matrix : SOIL |
| Ext Btch ID: EXD008S | % Moisture : NA |
| Calib. Ref.: PD11027A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2680 | 1980 | 135 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/03/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/03/12 |
| Batch No. | : 12D018 | Date Extracted | : 04/10/12 19:48 |
| Sample ID | : SL-033-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/12/12 10:44 |
| Lab Samp ID | : D018-03 | Dilution Factor | : .99 |
| Lab File ID | : PD11030A | Matrix | : SOIL |
| Ext Btch ID | : EXD008S | % Moisture | : NA |
| Calib. Ref. | : PD11027A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2340 | 1980 | 118 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/03/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/03/12 |
| Batch No. | : 12D018 | Date Extracted | : 04/10/12 19:48 |
| Sample ID | : SL-034-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/12/12 10:58 |
| Lab Samp ID | : D018-04 | Dilution Factor | : 1 |
| Lab File ID | : PD11031A | Matrix | : SOIL |
| Ext Btch ID | : EXD008S | % Moisture | : NA |
| Calib. Ref. | : PD11027A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2350 | 2000 | 117 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/03/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/03/12 |
| Batch No. | : 12D018 | Date Extracted | : 04/10/12 19:48 |
| Sample ID | : SL-035-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/12/12 11:12 |
| Lab Samp ID | : D018-05 | Dilution Factor | : .99 |
| Lab File ID | : PD11032A | Matrix | : SOIL |
| Ext Btch ID | : EXD008S | % Moisture | : NA |
| Calib. Ref. | : PD11027A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2390 | 1980 | 121 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 19:48 |
| Sample ID: SL-035-NBZ-SB-2.0-3.0 | Date Analyzed: 04/12/12 11:26 |
| Lab Samp ID: D018-07 | Dilution Factor: 1 |
| Lab File ID: PD11033A | Matrix : SOIL |
| Ext Btch ID: EXD008S | % Moisture : NA |
| Calib. Ref.: PD11027A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2410 | 2000 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D018 | Date Extracted: 04/10/12 19:48 |
| Sample ID: MBLK1S | Date Analyzed: 04/11/12 15:23 |
| Lab Samp ID: EXD008SB | Dilution Factor: 1 |
| Lab File ID: PD11003A | Matrix : SOIL |
| Ext Btch ID: EXD008S | % Moisture : NA |
| Calib. Ref.: PD11002A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2300 | 2000 | 115 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD008SB | EXD008SX | EXD008SY | | |
| LAB FILE ID: | PD11003A | PD11004A | PD11005A | | |
| DATE EXTRACTED: | 04/10/1219:48 | 04/10/1219:48 | 04/10/1219:48 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1215:23 | 04/11/1215:37 | 04/11/1215:48 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | EXD008S | EXD008S | EXD008S | | |
| CALIB. REF: | PD11002A | PD11002A | PD11002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7080 | 94 | 7500 | 7200 | 96 | 2 | 50-150 | 50 |
| PETN | ND | 7500 | 6870 | 92 | 7500 | 7130 | 95 | 4 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2360 | 118 | 2000 | 2380 | 119 | 65-135 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D018
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD009SB | ND | 1 | NA | 20.0 | 10.0 | 04/10/1204:24 | 04/06/1210:30 | JD09045 | JD09044 | PCD009S | NA | 04/06/12 |
| LCS1S | PCD009SL | 280 | 1 | NA | 20.0 | 10.0 | 04/10/1205:06 | 04/06/1210:30 | JD09047 | JD09044 | PCD009S | NA | 04/06/12 |
| LCD1S | PCD009SC | 283 | 1 | NA | 20.0 | 10.0 | 04/10/1205:27 | 04/06/1210:30 | JD09048 | JD09044 | PCD009S | NA | 04/06/12 |
| SL-032-NBZ-SS-0.0-0.5 | D018-02 | ND | 1 | 12.0 | 22.7 | 11.4 | 04/10/1206:51 | 04/06/1210:30 | JD09052 | JD09044 | PCD009S | 04/03/1214:00 | 04/03/12 |
| SL-033-NBZ-SS-0.0-0.5 | D018-03 | ND | 1 | 8.9 | 22.0 | 11.0 | 04/10/1207:12 | 04/06/1210:30 | JD09053 | JD09044 | PCD009S | 04/03/1210:30 | 04/03/12 |
| SL-031-NBZ-SS-0.0-0.5 | D018-01 | ND | 1 | 7.8 | 21.7 | 10.8 | 04/10/1208:15 | 04/06/1210:30 | JD09056 | JD09055 | PCD009S | 04/03/1209:30 | 04/03/12 |
| SL-031-NBZ-SS-0.0-0.5MS | D018-01M | 287 | 1 | 7.8 | 21.7 | 10.8 | 04/10/1208:36 | 04/06/1210:30 | JD09057 | JD09055 | PCD009S | 04/03/1209:30 | 04/03/12 |
| SL-031-NBZ-SS-0.0-0.5MSD | D018-01S | 292 | 1 | 7.8 | 21.7 | 10.8 | 04/10/1208:57 | 04/06/1210:30 | JD09058 | JD09055 | PCD009S | 04/03/1209:30 | 04/03/12 |
| SL-034-NBZ-SS-0.0-0.5 | D018-04 | ND | 1 | 16.4 | 23.9 | 12.0 | 04/10/1209:18 | 04/06/1210:30 | JD09059 | JD09055 | PCD009S | 04/03/1211:22 | 04/03/12 |
| SL-035-NBZ-SS-0.0-0.5 | D018-05 | ND | 1 | 11.9 | 22.7 | 11.4 | 04/10/1209:39 | 04/06/1210:30 | JD09060 | JD09055 | PCD009S | 04/03/1214:30 | 04/03/12 |
| SL-035-NBZ-SB-2.0-3.0 | D018-07 | ND | 1 | 4.8 | 21.0 | 10.5 | 04/10/1210:00 | 04/06/1210:30 | JD09061 | JD09055 | PCD009S | 04/03/1214:30 | 04/03/12 |
| SL-108-NBZ-SS-0.0-0.5 | D018-08 | ND | 1 | 5.7 | 21.2 | 10.6 | 04/10/1210:21 | 04/06/1210:30 | JD09062 | JD09055 | PCD009S | 04/03/1209:45 | 04/03/12 |
| SL-115-NBZ-SS-0.0-0.5 | D018-09 | ND | 1 | 12.3 | 22.8 | 11.4 | 04/10/1210:42 | 04/06/1210:30 | JD09063 | JD09055 | PCD009S | 04/03/1214:32 | 04/03/12 |
| SL-122-NBZ-SS-0.0-0.5 | D018-10 | ND | 1 | 12.1 | 22.8 | 11.4 | 04/10/1211:03 | 04/06/1210:30 | JD09064 | JD09055 | PCD009S | 04/03/1211:03 | 04/03/12 |
| SL-127-NBZ-SS-0.0-0.5 | D018-11 | ND | 1 | 5.8 | 21.2 | 10.6 | 04/10/1212:06 | 04/06/1210:30 | JD09067 | JD09066 | PCD009S | 04/03/1210:10 | 04/03/12 |
| SL-140-NBZ-SS-0.0-0.5 | D018-12 | ND | 1 | 13.8 | 23.2 | 11.6 | 04/10/1212:27 | 04/06/1210:30 | JD09068 | JD09066 | PCD009S | 04/03/1214:06 | 04/03/12 |
| SL-169-NBZ-SS-0.0-0.5 | D018-13 | ND | 1 | 9.6 | 22.1 | 11.1 | 04/10/1212:48 | 04/06/1210:30 | JD09069 | JD09066 | PCD009S | 04/03/1209:11 | 04/03/12 |
| SL-198-NBZ-SS-0.0-0.5 | D018-14 | ND | 1 | 7.6 | 21.6 | 10.8 | 04/10/1213:09 | 04/06/1210:30 | JD09070 | JD09066 | PCD009S | 04/03/1215:26 | 04/03/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD009SB | PCD009SL | PCD009SC | | |
| LAB FILE ID: | JD09045 | JD09047 | JD09048 | | |
| DATE EXTRACTED: | 04/06/1210:30 | 04/06/1210:30 | 04/06/1210:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/10/1204:24 | 04/10/1205:06 | 04/10/1205:27 | DATE RECEIVED: | 04/06/12 |
| PREP. BATCH: | PCD009S | PCD009S | PCD009S | | |
| CALIB. REF: | JD09044 | JD09044 | JD09044 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 280 | 112 | 250 | 283 | 113 | 1 | 85-115 | 15 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 7.8 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-031-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D018-01 | D018-01M | D018-01S | | |
| LAB FILE ID: | JD09056 | JD09057 | JD09058 | | |
| DATE EXTRACTED: | 04/06/1210:30 | 04/06/1210:30 | 04/06/1210:30 | DATE COLLECTED: | 04/03/12 09:30 |
| DATE ANALYZED: | 04/10/1208:15 | 04/10/1208:36 | 04/10/1208:57 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | PCD009S | PCD009S | PCD009S | | |
| CALIB. REF: | JD09055 | JD09055 | JD09055 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 271 | 287 | 106 | 271 | 292 | 108 | 1 | 80-120 | 20 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/03/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/03/12 |
| SDG NO. | : 12D018 | Date Extracted | : 04/10/12 10:31 |
| Sample ID | : SL-031-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/19/12 16:28 |
| Lab Samp ID | : D018-01 | Dilution Factor | : 0.995 |
| Lab File ID | : 98D11043 | Matrix | : SOIL |
| Ext Btch ID | : IMD016S | % Moisture | : 7.8 |
| Calib. Ref. | : 98D11041 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9650 | 25.9 | 13.0 |
| Antimony | 0.151J | 0.216 | 0.108 |
| Arsenic | 11.4 | 0.432 | 0.216 |
| Barium | 72.8 | 0.432 | 0.216 |
| Beryllium | 0.409 | 0.108 | 0.0540 |
| Boron | ND | 5.40 | 2.70 |
| Cadmium | 0.193 | 0.108 | 0.0540 |
| Calcium | 2110 | 21.6 | 10.8 |
| Chromium | 12.0 | 0.432 | 0.216 |
| Cobalt | 4.28 | 0.108 | 0.0540 |
| Copper | 5.60 | 0.432 | 0.216 |
| Iron | 17300 | 21.6 | 10.8 |
| Lead | 10.9 | 0.216 | 0.108 |
| Magnesium | 4040 | 10.8 | 5.40 |
| Manganese | 251 | 0.540 | 0.270 |
| Molybdenum | 0.330 | 0.108 | 0.0540 |
| Nickel | 7.77 | 0.432 | 0.216 |
| Potassium | 3370 | 64.8 | 32.4 |
| Selenium | ND | 0.432 | 0.216 |
| Silver | ND | 0.108 | 0.0540 |
| Sodium | ND | 108 | 54.0 |
| Strontium | 11.9 | 0.540 | 0.270 |
| Thallium | 0.224 | 0.108 | 0.0540 |
| Tin | ND | 10.8 | 5.40 |
| Titanium | 922 | 1.08 | 0.540 |
| Vanadium | 24.7 | 0.108 | 0.0540 |
| Zinc | 51.9 | 3.24 | 1.62 |
| Lithium | 24.0 | 2.16 | 1.08 |
| Phosphorus | 343 | 13.0 | 6.48 |
| Zirconium | ND | 5.40 | 2.70 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/03/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/03/12 |
| SDG NO. | : 12D018 | Date Extracted | : 04/10/12 10:31 |
| Sample ID | : SL-032-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/19/12 16:32 |
| Lab Samp ID | : D018-02 | Dilution Factor | : 0.985 |
| Lab File ID | : 98D11044 | Matrix | : SOIL |
| Ext Btch ID | : IMD016S | % Moisture | : 12.0 |
| Calib. Ref. | : 98D11041 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10500 | 26.9 | 13.4 |
| Antimony | 0.155J | 0.224 | 0.112 |
| Arsenic | 3.24 | 0.448 | 0.224 |
| Barium | 78.9 | 0.448 | 0.224 |
| Beryllium | 0.407 | 0.112 | 0.0560 |
| Boron | ND | 5.60 | 2.80 |
| Cadmium | 0.217 | 0.112 | 0.0560 |
| Calcium | 2040 | 22.4 | 11.2 |
| Chromium | 11.2 | 0.448 | 0.224 |
| Cobalt | 4.19 | 0.112 | 0.0560 |
| Copper | 5.55 | 0.448 | 0.224 |
| Iron | 17600 | 22.4 | 11.2 |
| Lead | 9.34 | 0.224 | 0.112 |
| Magnesium | 3550 | 11.2 | 5.60 |
| Manganese | 253 | 0.560 | 0.280 |
| Molybdenum | 0.449 | 0.112 | 0.0560 |
| Nickel | 7.24 | 0.448 | 0.224 |
| Potassium | 3280 | 67.2 | 33.6 |
| Selenium | ND | 0.448 | 0.224 |
| Silver | ND | 0.112 | 0.0560 |
| Sodium | ND | 112 | 56.0 |
| Strontium | 15.5 | 0.560 | 0.280 |
| Thallium | 0.216 | 0.112 | 0.0560 |
| Tin | ND | 11.2 | 5.60 |
| Titanium | 907 | 1.12 | 0.560 |
| Vanadium | 25.6 | 0.112 | 0.0560 |
| Zinc | 52.8 | 3.36 | 1.68 |
| Lithium | 23.3 | 2.24 | 1.12 |
| Phosphorus | 332 | 13.4 | 6.72 |
| Zirconium | ND | 5.60 | 2.80 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/03/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/03/12 |
| SDG NO. | : 12D018 | Date Extracted | : 04/10/12 10:31 |
| Sample ID | : SL-033-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/19/12 16:37 |
| Lab Samp ID | : D018-03 | Dilution Factor | : 0.966 |
| Lab File ID | : 98D11045 | Matrix | : SOIL |
| Ext Btch ID | : IMD016S | % Moisture | : 8.9 |
| Calib. Ref. | : 98D11041 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10400 | 25.4 | 12.7 |
| Antimony | 0.116J | 0.212 | 0.106 |
| Arsenic | 3.63 | 0.424 | 0.212 |
| Barium | 67.9 | 0.424 | 0.212 |
| Beryllium | 0.451 | 0.106 | 0.0530 |
| Boron | ND | 5.30 | 2.65 |
| Cadmium | 0.221 | 0.106 | 0.0530 |
| Calcium | 2380 | 21.2 | 10.6 |
| Chromium | 9.87 | 0.424 | 0.212 |
| Cobalt | 4.12 | 0.106 | 0.0530 |
| Copper | 5.12 | 0.424 | 0.212 |
| Iron | 16600 | 21.2 | 10.6 |
| Lead | 8.16 | 0.212 | 0.106 |
| Magnesium | 3520 | 10.6 | 5.30 |
| Manganese | 253 | 0.530 | 0.265 |
| Molybdenum | 0.346 | 0.106 | 0.0530 |
| Nickel | 6.74 | 0.424 | 0.212 |
| Potassium | 2770 | 63.6 | 31.8 |
| Selenium | ND | 0.424 | 0.212 |
| Silver | ND | 0.106 | 0.0530 |
| Sodium | ND | 106 | 53.0 |
| Strontium | 15.5 | 0.530 | 0.265 |
| Thallium | 0.211 | 0.106 | 0.0530 |
| Tin | ND | 10.6 | 5.30 |
| Titanium | 872 | 1.06 | 0.530 |
| Vanadium | 22.7 | 0.106 | 0.0530 |
| Zinc | 48.4 | 3.18 | 1.59 |
| Lithium | 28.4 | 2.12 | 1.06 |
| Phosphorus | 285 | 12.7 | 6.36 |
| Zirconium | ND | 5.30 | 2.65 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/03/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/03/12 |
| SDG NO. | : 12D018 | Date Extracted | : 04/10/12 10:31 |
| Sample ID | : SL-034-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/19/12 16:42 |
| Lab Samp ID | : D018-04 | Dilution Factor | : 0.980 |
| Lab File ID | : 98D11046 | Matrix | : SOIL |
| Ext Btch ID | : IMD016S | % Moisture | : 16.4 |
| Calib. Ref. | : 98D11041 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9960 | 28.1 | 14.1 |
| Antimony | 0.158J | 0.234 | 0.117 |
| Arsenic | 2.87 | 0.469 | 0.234 |
| Barium | 80.8 | 0.469 | 0.234 |
| Beryllium | 0.381 | 0.117 | 0.0586 |
| Boron | ND | 5.86 | 2.93 |
| Cadmium | 0.207 | 0.117 | 0.0586 |
| Calcium | 2430 | 23.4 | 11.7 |
| Chromium | 10.2 | 0.469 | 0.234 |
| Cobalt | 4.08 | 0.117 | 0.0586 |
| Copper | 5.56 | 0.469 | 0.234 |
| Iron | 17200 | 23.4 | 11.7 |
| Lead | 12.7 | 0.234 | 0.117 |
| Magnesium | 3630 | 11.7 | 5.86 |
| Manganese | 269 | 0.586 | 0.293 |
| Molybdenum | 0.352 | 0.117 | 0.0586 |
| Nickel | 6.83 | 0.469 | 0.234 |
| Potassium | 3420 | 70.3 | 35.2 |
| Selenium | ND | 0.469 | 0.234 |
| Silver | ND | 0.117 | 0.0586 |
| Sodium | ND | 117 | 58.6 |
| Strontium | 15.9 | 0.586 | 0.293 |
| Thallium | 0.213 | 0.117 | 0.0586 |
| Tin | ND | 11.7 | 5.86 |
| Titanium | 869 | 1.17 | 0.586 |
| Vanadium | 23.9 | 0.117 | 0.0586 |
| Zinc | 55.7 | 3.52 | 1.76 |
| Lithium | 23.3 | 2.34 | 1.17 |
| Phosphorus | 410 | 14.1 | 7.03 |
| Zirconium | ND | 5.86 | 2.93 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| SDG NO. : 12D018 | Date Extracted: 04/10/12 10:31 |
| Sample ID: SL-035-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 16:46 |
| Lab Samp ID: D018-05 | Dilution Factor: 0.976 |
| Lab File ID: 98D11047 | Matrix : SOIL |
| Ext Btch ID: IMD016S | % Moisture : 11.9 |
| Calib. Ref.: 98D11041 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10900 | 26.6 | 13.3 |
| Antimony | 0.139J | 0.222 | 0.111 |
| Arsenic | 8.40 | 0.443 | 0.222 |
| Barium | 76.2 | 0.443 | 0.222 |
| Beryllium | 0.447 | 0.111 | 0.0554 |
| Boron | ND | 5.54 | 2.77 |
| Cadmium | 0.194 | 0.111 | 0.0554 |
| Calcium | 2890 | 22.2 | 11.1 |
| Chromium | 12.0 | 0.443 | 0.222 |
| Cobalt | 4.14 | 0.111 | 0.0554 |
| Copper | 5.64 | 0.443 | 0.222 |
| Iron | 16500 | 22.2 | 11.1 |
| Lead | 8.53 | 0.222 | 0.111 |
| Magnesium | 3560 | 11.1 | 5.54 |
| Manganese | 250 | 0.554 | 0.277 |
| Molybdenum | 0.438 | 0.111 | 0.0554 |
| Nickel | 7.46 | 0.443 | 0.222 |
| Potassium | 3610 | 66.5 | 33.2 |
| Selenium | ND | 0.443 | 0.222 |
| Silver | ND | 0.111 | 0.0554 |
| Sodium | ND | 111 | 55.4 |
| Strontium | 20.8 | 0.554 | 0.277 |
| Thallium | 0.217 | 0.111 | 0.0554 |
| Tin | ND | 11.1 | 5.54 |
| Titanium | 834 | 1.11 | 0.554 |
| Vanadium | 25.4 | 0.111 | 0.0554 |
| Zinc | 45.5 | 3.32 | 1.66 |
| Lithium | 19.3 | 2.22 | 1.11 |
| Phosphorus | 284 | 13.3 | 6.65 |
| Zirconium | ND | 5.54 | 2.77 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/03/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/03/12 |
| SDG NO. | : 12D018 | Date Extracted | : 04/10/12 10:31 |
| Sample ID | : SL-035-NBZ-SB-2.0-3.0 | Date Analyzed | : 04/19/12 16:51 |
| Lab Samp ID | : D018-07 | Dilution Factor | : 0.995 |
| Lab File ID | : 98D11048 | Matrix | : SOIL |
| Ext Btch ID | : IMD016S | % Moisture | : 4.8 |
| Calib. Ref. | : 98D11041 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 14400 | 25.1 | 12.5 |
| Antimony | ND | 0.209 | 0.105 |
| Arsenic | 7.23 | 0.418 | 0.209 |
| Barium | 71.3 | 0.418 | 0.209 |
| Beryllium | 0.655 | 0.105 | 0.0523 |
| Boron | ND | 5.23 | 2.61 |
| Cadmium | 0.105 | 0.105 | 0.0523 |
| Calcium | 1650 | 20.9 | 10.5 |
| Chromium | 11.2 | 0.418 | 0.209 |
| Cobalt | 4.41 | 0.105 | 0.0523 |
| Copper | 3.99 | 0.418 | 0.209 |
| Iron | 18100 | 20.9 | 10.5 |
| Lead | 4.22 | 0.209 | 0.105 |
| Magnesium | 3580 | 10.5 | 5.23 |
| Manganese | 182 | 0.523 | 0.261 |
| Molybdenum | 0.436 | 0.105 | 0.0523 |
| Nickel | 7.03 | 0.418 | 0.209 |
| Potassium | 2290 | 62.7 | 31.4 |
| Selenium | ND | 0.418 | 0.209 |
| Silver | ND | 0.105 | 0.0523 |
| Sodium | 57.8J | 105 | 52.3 |
| Strontium | 13.9 | 0.523 | 0.261 |
| Thallium | 0.234 | 0.105 | 0.0523 |
| Tin | ND | 10.5 | 5.23 |
| Titanium | 873 | 1.05 | 0.523 |
| Vanadium | 27.7 | 0.105 | 0.0523 |
| Zinc | 42.5 | 3.14 | 1.57 |
| Lithium | 21.4 | 2.09 | 1.05 |
| Phosphorus | 141 | 12.5 | 6.27 |
| Zirconium | ND | 5.23 | 2.61 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/03/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/03/12 |
| SDG NO. | : 12D018 | Date Extracted | : 04/10/12 10:31 |
| Sample ID | : SL-108-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/19/12 16:55 |
| Lab Samp ID | : D018-08 | Dilution Factor | : 1.00 |
| Lab File ID | : 98D11049 | Matrix | : SOIL |
| Ext Btch ID | : IMD016S | % Moisture | : 5.7 |
| Calib. Ref. | : 98D11041 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9050 | 25.5 | 12.7 |
| Antimony | ND | 0.212 | 0.106 |
| Arsenic | 3.72 | 0.424 | 0.212 |
| Barium | 61.1 | 0.424 | 0.212 |
| Beryllium | 0.387 | 0.106 | 0.0530 |
| Boron | ND | 5.30 | 2.65 |
| Cadmium | 0.158 | 0.106 | 0.0530 |
| Calcium | 2660 | 21.2 | 10.6 |
| Chromium | 8.39 | 0.424 | 0.212 |
| Cobalt | 3.73 | 0.106 | 0.0530 |
| Copper | 3.64 | 0.424 | 0.212 |
| Iron | 16400 | 21.2 | 10.6 |
| Lead | 6.42 | 0.212 | 0.106 |
| Magnesium | 3790 | 10.6 | 5.30 |
| Manganese | 242 | 0.530 | 0.265 |
| Molybdenum | 0.168 | 0.106 | 0.0530 |
| Nickel | 4.62 | 0.424 | 0.212 |
| Potassium | 2400 | 63.6 | 31.8 |
| Selenium | ND | 0.424 | 0.212 |
| Silver | ND | 0.106 | 0.0530 |
| Sodium | ND | 106 | 53.0 |
| Strontium | 8.96 | 0.530 | 0.265 |
| Thallium | 0.192 | 0.106 | 0.0530 |
| Tin | ND | 10.6 | 5.30 |
| Titanium | 734 | 1.06 | 0.530 |
| Vanadium | 21.4 | 0.106 | 0.0530 |
| Zinc | 45.3 | 3.18 | 1.59 |
| Lithium | 21.2 | 2.12 | 1.06 |
| Phosphorus | 314 | 12.7 | 6.36 |
| Zirconium | ND | 5.30 | 2.65 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/03/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/03/12 |
| SDG NO. | : 12D018 | Date Extracted | : 04/10/12 10:31 |
| Sample ID | : SL-115-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/19/12 17:00 |
| Lab Samp ID | : D018-09 | Dilution Factor | : 0.952 |
| Lab File ID | : 98D11050 | Matrix | : SOIL |
| Ext Btch ID | : IMD016S | % Moisture | : 12.3 |
| Calib. Ref. | : 98D11041 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11400 | 26.1 | 13.0 |
| Antimony | 0.192J | 0.217 | 0.109 |
| Arsenic | 3.21 | 0.434 | 0.217 |
| Barium | 91.6 | 0.434 | 0.217 |
| Beryllium | 0.437 | 0.109 | 0.0543 |
| Boron | ND | 5.43 | 2.71 |
| Cadmium | 0.276 | 0.109 | 0.0543 |
| Calcium | 2540 | 21.7 | 10.9 |
| Chromium | 18.8 | 0.434 | 0.217 |
| Cobalt | 5.60 | 0.109 | 0.0543 |
| Copper | 7.60 | 0.434 | 0.217 |
| Iron | 20400 | 21.7 | 10.9 |
| Lead | 11.0 | 0.217 | 0.109 |
| Magnesium | 6210 | 10.9 | 5.43 |
| Manganese | 291 | 0.543 | 0.271 |
| Molybdenum | 0.426 | 0.109 | 0.0543 |
| Nickel | 11.1 | 0.434 | 0.217 |
| Potassium | 3040 | 65.1 | 32.6 |
| Selenium | ND | 0.434 | 0.217 |
| Silver | ND | 0.109 | 0.0543 |
| Sodium | 61.5J | 109 | 54.3 |
| Strontium | 11.2 | 0.543 | 0.271 |
| Thallium | 0.231 | 0.109 | 0.0543 |
| Tin | ND | 10.9 | 5.43 |
| Titanium | 1030 | 1.09 | 0.543 |
| Vanadium | 37.5 | 0.109 | 0.0543 |
| Zinc | 57.4 | 3.26 | 1.63 |
| Lithium | 28.2 | 2.17 | 1.09 |
| Phosphorus | 431 | 13.0 | 6.51 |
| Zirconium | ND | 5.43 | 2.71 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/03/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/03/12 |
| SDG NO. | : 12D018 | Date Extracted | : 04/10/12 10:31 |
| Sample ID | : SL-122-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/19/12 17:04 |
| Lab Samp ID | : D018-10 | Dilution Factor | : 0.995 |
| Lab File ID | : 98D11051 | Matrix | : SOIL |
| Ext Btch ID | : IMD016S | % Moisture | : 12.1 |
| Calib. Ref. | : 98D11041 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10600 | 27.2 | 13.6 |
| Antimony | 0.158J | 0.226 | 0.113 |
| Arsenic | 3.29 | 0.453 | 0.226 |
| Barium | 72.3 | 0.453 | 0.226 |
| Beryllium | 0.381 | 0.113 | 0.0566 |
| Boron | ND | 5.66 | 2.83 |
| Cadmium | 0.195 | 0.113 | 0.0566 |
| Calcium | 2360 | 22.6 | 11.3 |
| Chromium | 16.5 | 0.453 | 0.226 |
| Cobalt | 5.19 | 0.113 | 0.0566 |
| Copper | 6.66 | 0.453 | 0.226 |
| Iron | 20500 | 22.6 | 11.3 |
| Lead | 8.00 | 0.226 | 0.113 |
| Magnesium | 5820 | 11.3 | 5.66 |
| Manganese | 272 | 0.566 | 0.283 |
| Molybdenum | 0.395 | 0.113 | 0.0566 |
| Nickel | 9.54 | 0.453 | 0.226 |
| Potassium | 2730 | 67.9 | 34.0 |
| Selenium | ND | 0.453 | 0.226 |
| Silver | ND | 0.113 | 0.0566 |
| Sodium | ND | 113 | 56.6 |
| Strontium | 10.1 | 0.566 | 0.283 |
| Thallium | 0.214 | 0.113 | 0.0566 |
| Tin | ND | 11.3 | 5.66 |
| Titanium | 1010 | 1.13 | 0.566 |
| Vanadium | 37.3 | 0.113 | 0.0566 |
| Zinc | 48.7 | 3.40 | 1.70 |
| Lithium | 23.5 | 2.26 | 1.13 |
| Phosphorus | 367 | 13.6 | 6.79 |
| Zirconium | ND | 5.66 | 2.83 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/03/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/03/12 |
| SDG NO. | : 12D018 | Date Extracted | : 04/10/12 10:31 |
| Sample ID | : SL-127-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/19/12 18:04 |
| Lab Samp ID | : D018-11 | Dilution Factor | : 0.976 |
| Lab File ID | : 98D11057 | Matrix | : SOIL |
| Ext Btch ID | : IMD016S | % Moisture | : 5.8 |
| Calib. Ref. | : 98D11053 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10400 | 24.9 | 12.4 |
| Antimony | ND | 0.207 | 0.104 |
| Arsenic | 4.16 | 0.414 | 0.207 |
| Barium | 71.5 | 0.414 | 0.207 |
| Beryllium | 0.497 | 0.104 | 0.0518 |
| Boron | ND | 5.18 | 2.59 |
| Cadmium | 0.207 | 0.104 | 0.0518 |
| Calcium | 3110 | 20.7 | 10.4 |
| Chromium | 9.32 | 0.414 | 0.207 |
| Cobalt | 4.31 | 0.104 | 0.0518 |
| Copper | 4.61 | 0.414 | 0.207 |
| Iron | 17600 | 20.7 | 10.4 |
| Lead | 6.05 | 0.207 | 0.104 |
| Magnesium | 4250 | 10.4 | 5.18 |
| Manganese | 308 | 0.518 | 0.259 |
| Molybdenum | 0.241 | 0.104 | 0.0518 |
| Nickel | 5.83 | 0.414 | 0.207 |
| Potassium | 3120 | 62.2 | 31.1 |
| Selenium | ND | 0.414 | 0.207 |
| Silver | ND | 0.104 | 0.0518 |
| Sodium | ND | 104 | 51.8 |
| Strontium | 8.08 | 0.518 | 0.259 |
| Thallium | 0.233 | 0.104 | 0.0518 |
| Tin | ND | 10.4 | 5.18 |
| Titanium | 828 | 1.04 | 0.518 |
| Vanadium | 23.4 | 0.104 | 0.0518 |
| Zinc | 50.4 | 3.11 | 1.55 |
| Lithium | 26.0 | 2.07 | 1.04 |
| Phosphorus | 331 | 12.4 | 6.22 |
| Zirconium | ND | 5.18 | 2.59 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/03/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/03/12 |
| SDG NO. | : 12D018 | Date Extracted | : 04/10/12 10:31 |
| Sample ID | : SL-140-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/19/12 18:08 |
| Lab Samp ID | : D018-12 | Dilution Factor | : 0.957 |
| Lab File ID | : 98D11058 | Matrix | : SOIL |
| Ext Btch ID | : IMD016S | % Moisture | : 13.8 |
| Calib. Ref. | : 98D11053 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12200 | 26.6 | 13.3 |
| Antimony | 0.216J | 0.222 | 0.111 |
| Arsenic | 3.23 | 0.444 | 0.222 |
| Barium | 77.2 | 0.444 | 0.222 |
| Beryllium | 0.429 | 0.111 | 0.0555 |
| Boron | ND | 5.55 | 2.78 |
| Cadmium | 0.230 | 0.111 | 0.0555 |
| Calcium | 2070 | 22.2 | 11.1 |
| Chromium | 18.8 | 0.444 | 0.222 |
| Cobalt | 5.54 | 0.111 | 0.0555 |
| Copper | 7.19 | 0.444 | 0.222 |
| Iron | 21000 | 22.2 | 11.1 |
| Lead | 12.2 | 0.222 | 0.111 |
| Magnesium | 6050 | 11.1 | 5.55 |
| Manganese | 293 | 0.555 | 0.278 |
| Molybdenum | 0.547 | 0.111 | 0.0555 |
| Nickel | 10.8 | 0.444 | 0.222 |
| Potassium | 2740 | 66.6 | 33.3 |
| Selenium | ND | 0.444 | 0.222 |
| Silver | ND | 0.111 | 0.0555 |
| Sodium | 65.3J | 111 | 55.5 |
| Strontium | 10.4 | 0.555 | 0.278 |
| Thallium | 0.242 | 0.111 | 0.0555 |
| Tin | ND | 11.1 | 5.55 |
| Titanium | 1100 | 1.11 | 0.555 |
| Vanadium | 39.0 | 0.111 | 0.0555 |
| Zinc | 54.6 | 3.33 | 1.67 |
| Lithium | 26.4 | 2.22 | 1.11 |
| Phosphorus | 454 | 13.3 | 6.66 |
| Zirconium | ND | 5.55 | 2.78 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/03/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/03/12 |
| SDG NO. : 12D018 | Date Extracted: 04/10/12 10:31 |
| Sample ID: SL-169-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 18:13 |
| Lab Samp ID: D018-13 | Dilution Factor: 0.957 |
| Lab File ID: 98D11059 | Matrix : SOIL |
| Ext Btch ID: IMD016S | % Moisture : 9.6 |
| Calib. Ref.: 98D11053 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10800 | 25.4 | 12.7 |
| Antimony | 0.150J | 0.212 | 0.106 |
| Arsenic | 12.5 | 0.423 | 0.212 |
| Barium | 70.9 | 0.423 | 0.212 |
| Beryllium | 0.453 | 0.106 | 0.0529 |
| Boron | ND | 5.29 | 2.65 |
| Cadmium | 0.177 | 0.106 | 0.0529 |
| Calcium | 2970 | 21.2 | 10.6 |
| Chromium | 12.8 | 0.423 | 0.212 |
| Cobalt | 4.60 | 0.106 | 0.0529 |
| Copper | 5.35 | 0.423 | 0.212 |
| Iron | 17200 | 21.2 | 10.6 |
| Lead | 9.84 | 0.212 | 0.106 |
| Magnesium | 3880 | 10.6 | 5.29 |
| Manganese | 273 | 0.529 | 0.265 |
| Molybdenum | 0.398 | 0.106 | 0.0529 |
| Nickel | 7.97 | 0.423 | 0.212 |
| Potassium | 3730 | 63.5 | 31.8 |
| Selenium | ND | 0.423 | 0.212 |
| Silver | ND | 0.106 | 0.0529 |
| Sodium | 58.4J | 106 | 52.9 |
| Strontium | 14.3 | 0.529 | 0.265 |
| Thallium | 0.240 | 0.106 | 0.0529 |
| Tin | ND | 10.6 | 5.29 |
| Titanium | 882 | 1.06 | 0.529 |
| Vanadium | 26.0 | 0.106 | 0.0529 |
| Zinc | 47.6 | 3.18 | 1.59 |
| Lithium | 24.0 | 2.12 | 1.06 |
| Phosphorus | 298 | 12.7 | 6.35 |
| Zirconium | ND | 5.29 | 2.65 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/03/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/03/12 |
| SDG NO. | : 12D018 | Date Extracted | : 04/10/12 10:31 |
| Sample ID | : SL-198-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/11/12 20:36 |
| Lab Samp ID | : D018-14 | Dilution Factor | : 0.980 |
| Lab File ID | : 98D06105 | Matrix | : SOIL |
| Ext Btch ID | : IMD016S | % Moisture | : 7.6 |
| Calib. Ref. | : 98D06099 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10400 | 25.5 | 12.7 |
| Antimony | 0.208J | 0.212 | 0.106 |
| Arsenic | 3.61 | 0.424 | 0.212 |
| Barium | 68.5 | 0.424 | 0.212 |
| Beryllium | 0.399 | 0.106 | 0.0530 |
| Boron | ND | 5.30 | 2.65 |
| Cadmium | 0.177 | 0.106 | 0.0530 |
| Calcium | 2420 | 21.2 | 10.6 |
| Chromium | 17.2 | 0.424 | 0.212 |
| Cobalt | 5.12 | 0.106 | 0.0530 |
| Copper | 6.96 | 0.424 | 0.212 |
| Iron | 19500 | 21.2 | 10.6 |
| Lead | 5.19 | 0.212 | 0.106 |
| Magnesium | 5500 | 10.6 | 5.30 |
| Manganese | 273 | 0.530 | 0.265 |
| Molybdenum | 0.409 | 0.106 | 0.0530 |
| Nickel | 9.83 | 0.424 | 0.212 |
| Potassium | 3330 | 63.6 | 31.8 |
| Selenium | ND | 0.424 | 0.212 |
| Silver | ND | 0.106 | 0.0530 |
| Sodium | ND | 106 | 53.0 |
| Strontium | 8.35 | 0.530 | 0.265 |
| Thallium | 0.236 | 0.106 | 0.0530 |
| Tin | ND | 10.6 | 5.30 |
| Titanium | 1000 | 1.06 | 0.530 |
| Vanadium | 35.7 | 0.106 | 0.0530 |
| Zinc | 49.0 | 3.18 | 1.59 |
| Lithium | 26.3 | 2.12 | 1.06 |
| Phosphorus | 385 | 12.7 | 6.36 |
| Zirconium | ND | 5.30 | 2.65 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/03/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/03/12 |
| SDG NO. | : 12D018 | Date Extracted | : 04/10/12 10:31 |
| Sample ID | : SL-198-NBZ-SS-0.0-0.5DL | Date Analyzed | : 04/11/12 20:40 |
| Lab Samp ID | : D018-14J | Dilution Factor | : 4.90 |
| Lab File ID | : 98D06106 | Matrix | : SOIL |
| Ext Btch ID | : IMD016S | % Moisture | : 7.6 |
| Calib. Ref. | : 98D06099 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10500 | 127 | 63.6 |
| Antimony | ND | 1.06 | 0.530 |
| Arsenic | 3.74 | 2.12 | 1.06 |
| Barium | 65.7 | 2.12 | 1.06 |
| Beryllium | 0.391J | 0.530 | 0.265 |
| Boron | ND | 26.5 | 13.3 |
| Cadmium | ND | 0.530 | 0.265 |
| Calcium | 2550 | 106 | 53.0 |
| Chromium | 17.8 | 2.12 | 1.06 |
| Cobalt | 5.31 | 0.530 | 0.265 |
| Copper | 7.57 | 2.12 | 1.06 |
| Iron | 20100 | 106 | 53.0 |
| Lead | 5.07 | 1.06 | 0.530 |
| Magnesium | 5600 | 53.0 | 26.5 |
| Manganese | 283 | 2.65 | 1.33 |
| Molybdenum | 0.391J | 0.530 | 0.265 |
| Nickel | 10.4 | 2.12 | 1.06 |
| Potassium | 3270 | 318 | 159 |
| Selenium | ND | 2.12 | 1.06 |
| Silver | ND | 0.530 | 0.265 |
| Sodium | ND | 530 | 265 |
| Strontium | 8.16 | 2.65 | 1.33 |
| Thallium | ND | 0.530 | 0.265 |
| Tin | ND | 53.0 | 26.5 |
| Titanium | 985 | 5.30 | 2.65 |
| Vanadium | 36.3 | 0.530 | 0.265 |
| Zinc | 50.8 | 15.9 | 7.95 |
| Lithium | 23.2 | 10.6 | 5.30 |
| Phosphorus | 375 | 63.6 | 31.8 |
| Zirconium | ND | 26.5 | 13.3 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| SDG NO. : 12D018 | Date Extracted: 04/10/12 10:31 |
| Sample ID: MBLK1S | Date Analyzed: 04/11/12 20:17 |
| Lab Samp ID: IMD016SB | Dilution Factor: 1 |
| Lab File ID: 98D06101 | Matrix : SOIL |
| Ext Btch ID: IMD016S | % Moisture : NA |
| Calib. Ref.: 98D06099 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D018
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IMD016SB | IMD016SL | IMD016SC | | |
| LAB FILE ID: | 98D06101 | 98D06102 | 98D06103 | | |
| DATIME EXTRCTD: | 04/10/1210:31 | 04/10/1210:31 | 04/10/1210:31 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/11/1220:17 | 04/11/1220:22 | 04/11/1220:27 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | IMD016S | IMD016S | IMD016S | | |
| CALIB. REF: | 98D06099 | 98D06099 | 98D06099 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2510 | 100 | 2500 | 2570 | 103 | 2 | 80-120 | 20 |
| Antimony | ND | 25.0 | 25.4 | 102 | 25.0 | 25.5 | 102 | 0 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 24.3 | 97 | 25.0 | 24.9 | 100 | 3 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.1 | 100 | 25.0 | 25.3 | 101 | 1 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 23.4 | 93 | 25.0 | 24.0 | 96 | 3 | 80-120 | 20 |
| Boron | ND | 25.0 | 24.2 | 97 | 25.0 | 24.9 | 100 | 3 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 24.2 | 97 | 25.0 | 24.6 | 98 | 2 | 80-120 | 20 |
| Calcium | ND | 2500 | 2570 | 103 | 2500 | 2630 | 105 | 2 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.0 | 96 | 25.0 | 24.6 | 98 | 2 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 23.5 | 94 | 25.0 | 24.9 | 100 | 6 | 80-120 | 20 |
| Copper | ND | 25.0 | 23.4 | 94 | 25.0 | 24.0 | 96 | 3 | 80-120 | 20 |
| Iron | ND | 2500 | 2600 | 104 | 2500 | 2660 | 106 | 2 | 80-120 | 20 |
| Lead | ND | 25.0 | 24.5 | 98 | 25.0 | 24.6 | 99 | 0 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2480 | 99 | 2500 | 2560 | 102 | 3 | 80-120 | 20 |
| Manganese | ND | 25.0 | 23.9 | 96 | 25.0 | 25.2 | 101 | 5 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 24.8 | 99 | 25.0 | 25.1 | 100 | 1 | 80-120 | 20 |
| Nickel | ND | 25.0 | 23.5 | 94 | 25.0 | 24.0 | 96 | 2 | 80-120 | 20 |
| Potassium | ND | 2500 | 2640 | 106 | 2500 | 2680 | 107 | 2 | 80-120 | 20 |
| Selenium | ND | 25.0 | 23.4 | 93 | 25.0 | 24.7 | 99 | 6 | 80-120 | 20 |
| Silver | ND | 25.0 | 25.0 | 100 | 25.0 | 24.8 | 99 | 1 | 80-120 | 20 |
| Sodium | ND | 2500 | 2310 | 92 | 2500 | 2360 | 94 | 2 | 80-120 | 20 |
| Strontium | ND | 25.0 | 25.1 | 100 | 25.0 | 26.0 | 104 | 3 | 80-120 | 20 |
| Thallium | ND | 25.0 | 24.5 | 98 | 25.0 | 26.1 | 104 | 6 | 80-120 | 20 |
| Tin | ND | 25.0 | 27.4 | 110 | 25.0 | 28.0 | 112 | 2 | 80-120 | 20 |
| Titanium | ND | 25.0 | 24.8 | 99 | 25.0 | 25.2 | 101 | 2 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 24.3 | 97 | 25.0 | 24.9 | 100 | 2 | 80-120 | 20 |
| Zinc | ND | 50.0 | 47.4 | 95 | 50.0 | 49.0 | 98 | 3 | 80-120 | 20 |
| Lithium | ND | 25.0 | 24.6 | 99 | 25.0 | 24.6 | 98 | 0 | 80-120 | 20 |
| Phosphorus | ND | 250 | 241 | 96 | 250 | 247 | 99 | 3 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 24.2 | 97 | 25.0 | 25.4 | 101 | 5 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D018
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 7.6
DILTN FACTR: 0.980 0.976 0.971
SAMPLE ID: SL-198-NBZ-SS-0.0-0.5
CONTROL NO.: D018-14 D018-14M D018-14S
LAB FILE ID: 98D06105 98D11060 98D11061
DATIME EXTRCTD: 04/10/1210:31 04/10/1210:31 04/10/1210:31 DATE COLLECTED: 04/03/12
DATIME ANALYZD: 04/11/1220:36 04/19/1218:17 04/19/1218:22 DATE RECEIVED: 04/03/12
PREP. BATCH: IMD016S IMD016S IMD016S
CALIB. REF: 98D06099 98D11053 98D11053

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 10400 | 2640 | 12300 | 74* | 2630 | 12200 | 72* | 1 | 75-125 | 20 |
| Antimony | 0.208J | 26.4 | 20.2 | 76 | 26.3 | 20.3 | 76 | 0 | 75-125 | 20 |
| Arsenic | 3.61 | 26.4 | 26.7 | 87 | 26.3 | 26.4 | 87 | 1 | 75-125 | 20 |
| Barium | 68.5 | 26.4 | 99.7 | 118 | 26.3 | 95.1 | 101 | 5 | 75-125 | 20 |
| Beryllium | 0.399 | 26.4 | 25.2 | 94 | 26.3 | 25.6 | 96 | 2 | 75-125 | 20 |
| Boron | ND | 26.4 | 25.5 | 96 | 26.3 | 25.8 | 98 | 1 | 75-125 | 20 |
| Cadmium | 0.177 | 26.4 | 25.0 | 94 | 26.3 | 24.6 | 93 | 1 | 75-125 | 20 |
| Calcium | 2420 | 2640 | 5020 | 98 | 2630 | 4860 | 93 | 3 | 75-125 | 20 |
| Chromium | 17.2 | 26.4 | 37.9 | 79 | 26.3 | 37.7 | 78 | 1 | 75-125 | 20 |
| Cobalt | 5.12 | 26.4 | 27.5 | 85 | 26.3 | 27.6 | 86 | 1 | 75-125 | 20 |
| Copper | 6.96 | 26.4 | 27.4 | 77 | 26.3 | 27.4 | 78 | 0 | 75-125 | 20 |
| Iron | 19500 | 2640 | 21000 | 59* | 2630 | 20800 | 50* | 1 | 75-125 | 20 |
| Lead | 5.19 | 26.4 | 31.4 | 99 | 26.3 | 31.2 | 99 | 1 | 75-125 | 20 |
| Magnesium | 5500 | 2640 | 7570 | 78 | 2630 | 7590 | 79 | 0 | 75-125 | 20 |
| Manganese | 273 | 26.4 | 291 | 68* | 26.3 | 280 | 29* | 4 | 75-125 | 20 |
| Molybdenum | 0.409 | 26.4 | 25.4 | 95 | 26.3 | 25.2 | 94 | 1 | 75-125 | 20 |
| Nickel | 9.83 | 26.4 | 30.6 | 78 | 26.3 | 30.4 | 78 | 0 | 75-125 | 20 |
| Potassium | 3330 | 2640 | 5780 | 93 | 2630 | 5720 | 91 | 1 | 75-125 | 20 |
| Selenium | ND | 26.4 | 23.8 | 90 | 26.3 | 23.5 | 89 | 1 | 75-125 | 20 |
| Silver | ND | 26.4 | 24.4 | 92 | 26.3 | 24.5 | 93 | 0 | 75-125 | 20 |
| Sodium | ND | 2640 | 2410 | 91 | 2630 | 2430 | 92 | 1 | 75-125 | 20 |
| Strontium | 8.35 | 26.4 | 34.3 | 98 | 26.3 | 34.3 | 99 | 0 | 75-125 | 20 |
| Thallium | 0.236 | 26.4 | 26.2 | 98 | 26.3 | 26.5 | 100 | 1 | 75-125 | 20 |
| Tin | ND | 26.4 | 28.7 | 109 | 26.3 | 29.0 | 110 | 1 | 75-125 | 20 |
| Titanium | 1000 | 26.4 | 974 | -110* | 26.3 | 941 | -237* | 3 | 75-125 | 20 |
| Vanadium | 35.7 | 26.4 | 56.8 | 80 | 26.3 | 55.9 | 77 | 2 | 75-125 | 20 |
| Zinc | 49.0 | 52.8 | 91.2 | 80 | 52.5 | 91.7 | 81 | 1 | 75-125 | 20 |
| Lithium | 26.3 | 26.4 | 50.8 | 93 | 26.3 | 50.7 | 93 | 0 | 75-125 | 20 |
| Phosphorus | 385 | 264 | 656 | 103 | 263 | 604 | 83 | 8 | 75-125 | 20 |
| Zirconium | ND | 26.4 | 14.4 | 55* | 26.3 | 14.5 | 55* | 1 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D018
METHOD: METHOD 6020

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 7.6 |
| DILTN FACTR: | 0.980 | 0.980 | | |
| SAMPLE ID: | SL-198-NBZ-SS-0.0-0.5 | | | |
| CONTROL NO.: | D018-14 | D018-14A | | |
| LAB FILE ID: | 98D06105 | 98D06104 | | |
| DATIME EXTRCTD: | 04/10/1210:31 | 04/10/1210:31 | DATE COLLECTED: | 04/03/12 |
| DATIME ANALYZD: | 04/11/1220:36 | 04/11/1220:31 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | IMD016S | IMD016S | | |
| CALIB. REF: | 98D06099 | 98D06099 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 10400 | 2650 | 12600 | 86 | 75-125 |
| Antimony | 0.208J | 26.5 | 26.7 | 100 | 75-125 |
| Arsenic | 3.61 | 26.5 | 27.7 | 91 | 75-125 |
| Barium | 68.5 | 26.5 | 96.6 | 106 | 75-125 |
| Beryllium | 0.399 | 26.5 | 25.0 | 93 | 75-125 |
| Boron | ND | 26.5 | 26.7 | 101 | 75-125 |
| Cadmium | 0.177 | 26.5 | 25.4 | 95 | 75-125 |
| Calcium | 2420 | 2650 | 4930 | 95 | 75-125 |
| Chromium | 17.2 | 26.5 | 40.2 | 87 | 75-125 |
| Cobalt | 5.12 | 26.5 | 27.9 | 86 | 75-125 |
| Copper | 6.96 | 26.5 | 28.9 | 83 | 75-125 |
| Iron | 19500 | 2650 | 21700 | 84 | 75-125 |
| Lead | 5.19 | 26.5 | 29.7 | 93 | 75-125 |
| Magnesium | 5500 | 2650 | 7760 | 85 | 75-125 |
| Manganese | 273 | 26.5 | 292 | 72* | 75-125 |
| Molybdenum | 0.409 | 26.5 | 26.6 | 99 | 75-125 |
| Nickel | 9.83 | 26.5 | 31.9 | 83 | 75-125 |
| Potassium | 3330 | 2650 | 5850 | 95 | 75-125 |
| Selenium | ND | 26.5 | 24.3 | 92 | 75-125 |
| Silver | ND | 26.5 | 25.4 | 96 | 75-125 |
| Sodium | ND | 2650 | 2270 | 85 | 75-125 |
| Strontium | 8.35 | 26.5 | 34.6 | 99 | 75-125 |
| Thallium | 0.236 | 26.5 | 25.8 | 96 | 75-125 |
| Tin | ND | 26.5 | 28.9 | 109 | 75-125 |
| Titanium | 1000 | 26.5 | 1010 | 44* | 75-125 |
| Vanadium | 35.7 | 26.5 | 59.1 | 88 | 75-125 |
| Zinc | 49.0 | 53.0 | 95.9 | 88 | 75-125 |
| Lithium | 26.3 | 26.5 | 50.6 | 92 | 75-125 |
| Phosphorus | 385 | 265 | 636 | 95 | 75-125 |
| Zirconium | ND | 26.5 | 25.2 | 95 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: METHOD 6020

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 7.6 |
| DILUTION FACTOR: | 0.980 | 4.90 | | |
| SAMPLE ID: | SL-198-NBZ-SS- | SL-198-NBZ-SS- | | |
| EMAX SAMP ID: | D018-14 | D018-14J | | |
| LAB FILE ID: | 98D06105 | 98D06106 | | |
| DATE EXTRACTED: | 04/10/1210:31 | 04/10/1210:31 | DATE COLLECTED: | 04/03/12 |
| DATE ANALYZED: | 04/11/1220:36 | 04/11/1220:40 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | IMD016S | IMD016S | | |
| CALIB. REF: | 98D06099 | 98D06099 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 10400 | 10500 | 1 | 10 |
| Antimony | 0.208J | ND | NA | 10 |
| Arsenic | 3.61 | 3.74 | 3 | 10 |
| Barium | 68.5 | 65.7 | 4 | 10 |
| Beryllium | 0.399 | 0.391J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.177 | ND | NA | 10 |
| Calcium | 2420 | 2550 | 5 | 10 |
| Chromium | 17.2 | 17.8 | 4 | 10 |
| Cobalt | 5.12 | 5.31 | 4 | 10 |
| Copper | 6.96 | 7.57 | 9 | 10 |
| Iron | 19500 | 20100 | 3 | 10 |
| Lead | 5.19 | 5.07 | 2 | 10 |
| Magnesium | 5500 | 5600 | 2 | 10 |
| Manganese | 273 | 283 | 4 | 10 |
| Molybdenum | 0.409 | 0.391J | NA | 10 |
| Nickel | 9.83 | 10.4 | 6 | 10 |
| Potassium | 3330 | 3270 | 2 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | ND | ND | 0 | 10 |
| Strontium | 8.35 | 8.16 | 2 | 10 |
| Thallium | 0.236 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 1000 | 985 | 2 | 10 |
| Vanadium | 35.7 | 36.3 | 2 | 10 |
| Zinc | 49.0 | 50.8 | 4 | 10 |
| Lithium | 26.3 | 23.2 | 12* | 10 |
| Phosphorus | 385 | 375 | 3 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D018
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD012SB | ND | 1 | NA | 0.100 | 0.0500 | 04/11/1220:29 | 04/11/1212:47 | M47D006043 | M47D006032 | HGD012S | NA | 04/11/12 |
| LCS1S | HGD012SL | 0.843 | 1 | NA | 0.100 | 0.0500 | 04/11/1220:35 | 04/11/1212:47 | M47D006046 | M47D006044 | HGD012S | NA | 04/11/12 |
| LCD1S | HGD012SC | 0.835 | 1 | NA | 0.100 | 0.0500 | 04/11/1220:37 | 04/11/1212:47 | M47D006047 | M47D006044 | HGD012S | NA | 04/11/12 |
| SL-031-NBZ-SS-0.0-0.5AS | D018-01A | 0.881 | 0.997 | 7.8 | 0.108 | 0.0541 | 04/11/1220:39 | 04/11/1212:47 | M47D006048 | M47D006044 | HGD012S | 04/03/12 | 04/03/12 |
| SL-031-NBZ-SS-0.0-0.5 | D018-01 | ND | 0.997 | 7.8 | 0.108 | 0.0541 | 04/11/1220:41 | 04/11/1212:47 | M47D006049 | M47D006044 | HGD012S | 04/03/12 | 04/03/12 |
| SL-031-NBZ-SS-0.0-0.5DL | D018-01J | ND | 4.98 | 7.8 | 0.540 | 0.270 | 04/11/1220:43 | 04/11/1212:47 | M47D006050 | M47D006044 | HGD012S | 04/03/12 | 04/03/12 |
| SL-032-NBZ-SS-0.0-0.5 | D018-02 | ND | 0.993 | 12.0 | 0.113 | 0.0564 | 04/11/1220:46 | 04/11/1212:47 | M47D006051 | M47D006044 | HGD012S | 04/03/12 | 04/03/12 |
| SL-033-NBZ-SS-0.0-0.5 | D018-03 | ND | 0.998 | 8.9 | 0.110 | 0.0548 | 04/11/1220:48 | 04/11/1212:47 | M47D006052 | M47D006044 | HGD012S | 04/03/12 | 04/03/12 |
| SL-034-NBZ-SS-0.0-0.5 | D018-04 | ND | 0.988 | 16.4 | 0.118 | 0.0591 | 04/11/1220:50 | 04/11/1212:47 | M47D006053 | M47D006044 | HGD012S | 04/03/12 | 04/03/12 |
| SL-035-NBZ-SS-0.0-0.5 | D018-05 | ND | 1.00 | 11.9 | 0.114 | 0.0568 | 04/11/1220:53 | 04/11/1212:47 | M47D006054 | M47D006044 | HGD012S | 04/03/12 | 04/03/12 |
| SL-035-NBZ-SB-2.0-3.0 | D018-07 | ND | 0.997 | 4.8 | 0.105 | 0.0524 | 04/11/1220:55 | 04/11/1212:47 | M47D006055 | M47D006044 | HGD012S | 04/03/12 | 04/03/12 |
| SL-108-NBZ-SS-0.0-0.5 | D018-08 | ND | 0.997 | 5.7 | 0.106 | 0.0529 | 04/11/1221:01 | 04/11/1212:47 | M47D006058 | M47D006056 | HGD012S | 04/03/12 | 04/03/12 |
| SL-115-NBZ-SS-0.0-0.5 | D018-09 | ND | 0.993 | 12.3 | 0.113 | 0.0566 | 04/11/1221:04 | 04/11/1212:47 | M47D006059 | M47D006056 | HGD012S | 04/03/12 | 04/03/12 |
| SL-122-NBZ-SS-0.0-0.5 | D018-10 | ND | 0.995 | 12.1 | 0.113 | 0.0566 | 04/11/1221:06 | 04/11/1212:47 | M47D006060 | M47D006056 | HGD012S | 04/03/12 | 04/03/12 |
| SL-127-NBZ-SS-0.0-0.5 | D018-11 | ND | 0.990 | 5.8 | 0.105 | 0.0525 | 04/11/1221:08 | 04/11/1212:47 | M47D006061 | M47D006056 | HGD012S | 04/03/12 | 04/03/12 |
| SL-140-NBZ-SS-0.0-0.5 | D018-12 | ND | 0.992 | 13.8 | 0.115 | 0.0575 | 04/11/1221:10 | 04/11/1212:47 | M47D006062 | M47D006056 | HGD012S | 04/03/12 | 04/03/12 |
| SL-169-NBZ-SS-0.0-0.5 | D018-13 | ND | 0.993 | 9.6 | 0.110 | 0.0549 | 04/11/1221:12 | 04/11/1212:47 | M47D006063 | M47D006056 | HGD012S | 04/03/12 | 04/03/12 |
| SL-198-NBZ-SS-0.0-0.5 | D018-14 | ND | 0.995 | 7.6 | 0.108 | 0.0538 | 04/11/1221:14 | 04/11/1212:47 | M47D006064 | M47D006056 | HGD012S | 04/03/12 | 04/03/12 |
| SL-031-NBZ-SS-0.0-0.5MS | D018-01M | 0.915 | 0.993 | 7.8 | 0.108 | 0.0539 | 04/11/1221:36 | 04/11/1212:47 | M47D006074 | M47D006068 | HGD012S | 04/03/12 | 04/03/12 |
| SL-031-NBZ-SS-0.0-0.5MSD | D018-01S | 0.911 | 1.00 | 7.8 | 0.108 | 0.0542 | 04/11/1221:38 | 04/11/1212:47 | M47D006075 | M47D006068 | HGD012S | 04/03/12 | 04/03/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D018
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGD012SB | HGD012SL | HGD012SC | | |
| LAB FILE ID: | M47D006043 | M47D006046 | M47D006047 | | |
| DATIME EXTRCTD: | 04/11/1212:47 | 04/11/1212:47 | 04/11/1212:47 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/11/1220:29 | 04/11/1220:35 | 04/11/1220:37 | DATE RECEIVED: | 04/11/12 |
| PREP. BATCH: | HGD012S | HGD012S | HGD012S | | |
| CALIB. REF: | M47D006032 | M47D006044 | M47D006044 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .843 | 101 | .833 | .835 | 100 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D018
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 7.8

| | | | | | |
|---|---|---|---|---|---|
| DILTN FACTR: | 0.997 | 0.993 | 1.00 | | |
| SAMPLE ID: | SL-031-NBZ-SS-0.0-0.5 | | | | |
| CONTROL NO.: | D018-01 | D018-01M | D018-01S | | |
| LAB FILE ID: | M47D006049 | M47D006074 | M47D006075 | | |
| DATIME EXTRCTD: | 04/11/1212:47 | 04/11/1212:47 | 04/11/1212:47 | DATE COLLECTED: | 04/03/12 |
| DATIME ANALYZD: | 04/11/1220:41 | 04/11/1221:36 | 04/11/1221:38 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | HGD012S | HGD012S | HGD012S | | |
| CALIB. REF: | M47D006044 | M47D006068 | M47D006068 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .897 | .915 | 102 | .903 | .911 | 101 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D018
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 7.8 |
| DILTN FACTR: | 0.997 | 0.997 | | |
| SAMPLE ID: | SL-031-NBZ-SS-0.0-0.5 | | | |
| CONTROL NO.: | D018-01 | D018-01A | | |
| LAB FILE ID: | M47D006049 | M47D006048 | | |
| DATIME EXTRCTD: | 04/11/1212:47 | 04/11/1212:47 | DATE COLLECTED: | 04/03/12 |
| DATIME ANALYZD: | 04/11/1220:41 | 04/11/1220:39 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | HGD012S | HGD012S | | |
| CALIB. REF: | M47D006044 | M47D006044 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .901 | .881 | 98 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 7.8 |
| DILUTION FACTOR: | 0.997 | 4.98 | | |
| SAMPLE ID: | SL-031-NBZ-SS-0.0-0 | SL-031-NBZ-SS-0.0-0 | | |
| EMAX SAMP ID: | D018-01 | D018-01J | | |
| LAB FILE ID: | M47D006049 | M47D006050 | | |
| DATE EXTRACTED: | 04/11/1212:47 | 04/11/1212:47 | DATE COLLECTED: | 04/03/12 |
| DATE ANALYZED: | 04/11/1220:41 | 04/11/1220:43 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | HGD012S | HGD012S | | |
| CALIB. REF: | M47D006044 | M47D006044 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D018
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD006SB | ND | 1 | NA | 1.00 | 0.500 | 04/10/1212:13 | 04/09/1216:42 | AD11-09 | AD11-07 | ICD006S | NA | 04/09/12 |
| LCS1S | ICD006SL | 5.78 | 1 | NA | 1.00 | 0.500 | 04/10/1212:30 | 04/09/1216:42 | AD11-10 | AD11-07 | ICD006S | NA | 04/09/12 |
| LCD1S | ICD006SC | 5.78 | 1 | NA | 1.00 | 0.500 | 04/10/1212:46 | 04/09/1216:42 | AD11-11 | AD11-07 | ICD006S | NA | 04/09/12 |
| SL-034-NBZ-SS-0.0-0.5 | D018-04 | ND | 1 | 16.4 | 1.20 | 0.598 | 04/10/1213:02 | 04/09/1216:42 | AD11-12 | AD11-07 | ICD006S | 04/03/1211:22 | 04/03/12 |
| SL-108-NBZ-SS-0.0-0.5 | D018-08 | ND | 1 | 5.7 | 1.06 | 0.530 | 04/10/1213:18 | 04/09/1216:42 | AD11-13 | AD11-07 | ICD006S | 04/03/1209:45 | 04/03/12 |
| SL-115-NBZ-SS-0.0-0.5 | D018-09 | ND | 1 | 12.3 | 1.14 | 0.570 | 04/10/1213:34 | 04/09/1216:42 | AD11-14 | AD11-07 | ICD006S | 04/03/1214:32 | 04/03/12 |
| SL-122-NBZ-SS-0.0-0.5 | D018-10 | ND | 1 | 12.1 | 1.14 | 0.569 | 04/10/1213:50 | 04/09/1216:42 | AD11-15 | AD11-07 | ICD006S | 04/03/1211:03 | 04/03/12 |
| SL-198-NBZ-SS-0.0-0.5 | D018-14 | ND | 1 | 7.6 | 1.08 | 0.541 | 04/10/1214:07 | 04/09/1216:42 | AD11-16 | AD11-07 | ICD006S | 04/03/1215:26 | 04/03/12 |
| SL-127-NBZ-SS-0.0-0.5 | D018-11 | ND | 1 | 5.8 | 1.06 | 0.531 | 04/10/1214:23 | 04/09/1216:42 | AD11-17 | AD11-07 | ICD006S | 04/03/1210:10 | 04/03/12 |
| SL-140-NBZ-SS-0.0-0.5 | D018-12 | ND | 1 | 13.8 | 1.16 | 0.580 | 04/10/1214:39 | 04/09/1216:42 | AD11-18 | AD11-07 | ICD006S | 04/03/1214:06 | 04/03/12 |
| SL-035-NBZ-SB-2.0-3.0 | D018-07 | ND | 1 | 4.8 | 1.05 | 0.525 | 04/10/1215:27 | 04/09/1216:42 | AD11-21 | AD11-19 | ICD006S | 04/03/1214:30 | 04/03/12 |
| SL-035-NBZ-SB-2.0-3.0MS | D018-07M | 6.45 | 1 | 4.8 | 1.05 | 0.525 | 04/10/1215:44 | 04/09/1216:42 | AD11-22 | AD11-19 | ICD006S | 04/03/1214:30 | 04/03/12 |
| SL-035-NBZ-SB-2.0-3.0MSD | D018-07S | 6.43 | 1 | 4.8 | 1.05 | 0.525 | 04/10/1216:00 | 04/09/1216:42 | AD11-23 | AD11-19 | ICD006S | 04/03/1214:30 | 04/03/12 |
| SL-031-NBZ-SS-0.0-0.5 | D018-01 | ND | 1 | 7.8 | 1.08 | 0.542 | 04/10/1216:16 | 04/09/1216:42 | AD11-24 | AD11-19 | ICD006S | 04/03/1209:30 | 04/03/12 |
| SL-032-NBZ-SS-0.0-0.5 | D018-02 | ND | 1 | 12.0 | 1.14 | 0.568 | 04/10/1216:32 | 04/09/1216:42 | AD11-25 | AD11-19 | ICD006S | 04/03/1214:00 | 04/03/12 |
| SL-033-NBZ-SS-0.0-0.5 | D018-03 | ND | 1 | 8.9 | 1.10 | 0.549 | 04/10/1216:48 | 04/09/1216:42 | AD11-26 | AD11-19 | ICD006S | 04/03/1210:30 | 04/03/12 |
| SL-035-NBZ-SS-0.0-0.5 | D018-05 | ND | 1 | 11.9 | 1.14 | 0.568 | 04/10/1217:04 | 04/09/1216:42 | AD11-27 | AD11-19 | ICD006S | 04/03/1214:30 | 04/03/12 |
| SL-169-NBZ-SS-0.0-0.5 | D018-13 | ND | 1 | 9.6 | 1.11 | 0.553 | 04/10/1217:20 | 04/09/1216:42 | AD11-28 | AD11-19 | ICD006S | 04/03/1209:11 | 04/03/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD006SB | ICD006SL | ICD006SC | | |
| LAB FILE ID: | AD11-09 | AD11-10 | AD11-11 | | |
| DATE EXTRACTED: | 04/09/1216:42 | 04/09/1216:42 | 04/09/1216:42 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/10/1212:13 | 04/10/1212:30 | 04/10/1212:46 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | ICD006S | ICD006S | ICD006S | | |
| CALIB. REF: | AD11-07 | AD11-07 | AD11-07 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 5.78 | 96 | 6.00 | 5.78 | 96 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 4.8 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-035-NBZ-SB-2.0-3.0 | | | | |
| LAB SAMP ID: | D018-07 | D018-07M | D018-07S | | |
| LAB FILE ID: | AD11-21 | AD11-22 | AD11-23 | | |
| DATE EXTRACTED: | 04/09/1216:42 | 04/09/1216:42 | 04/09/1216:42 | DATE COLLECTED: | 04/03/12 14:30 |
| DATE ANALYZED: | 04/10/1215:27 | 04/10/1215:44 | 04/10/1216:00 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | ICD006S | ICD006S | ICD006S | | |
| CALIB. REF: | AD11-19 | AD11-19 | AD11-19 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.30 | 6.45 | 102 | 6.30 | 6.43 | 102 | 0 | 80-120 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D018
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD006SB | ND | 1 | NA | 1.50 | 0.750 | 04/10/1212:13 | 04/09/1216:42 | AD11-09 | AD11-07 | ICD006S | NA | 04/09/12 |
| LCS1S | ICD006SL | 25.3 | 1 | NA | 1.50 | 0.750 | 04/10/1212:30 | 04/09/1216:42 | AD11-10 | AD11-07 | ICD006S | NA | 04/09/12 |
| LCD1S | ICD006SC | 25.3 | 1 | NA | 1.50 | 0.750 | 04/10/1212:46 | 04/09/1216:42 | AD11-11 | AD11-07 | ICD006S | NA | 04/09/12 |
| SL-034-NBZ-SS-0.0-0.5 | D018-04 | 12.1 | 1 | 16.4 | 1.79 | 0.897 | 04/10/1213:02 | 04/09/1216:42 | AD11-12 | AD11-07 | ICD006S | 04/03/1211:22 | 04/03/12 |
| SL-035-NBZ-SB-2.0-3.0 | D018-07 | 1.55J | 1 | 4.8 | 1.58 | 0.788 | 04/10/1215:27 | 04/09/1216:42 | AD11-21 | AD11-19 | ICD006S | 04/03/1214:30 | 04/03/12 |
| SL-035-NBZ-SB-2.0-3.0MS | D018-07M | 28.8 | 1 | 4.8 | 1.58 | 0.788 | 04/10/1215:44 | 04/09/1216:42 | AD11-22 | AD11-19 | ICD006S | 04/03/1214:30 | 04/03/12 |
| SL-035-NBZ-SB-2.0-3.0MSD | D018-07S | 28.9 | 1 | 4.8 | 1.58 | 0.788 | 04/10/1216:00 | 04/09/1216:42 | AD11-23 | AD11-19 | ICD006S | 04/03/1214:30 | 04/03/12 |
| SL-031-NBZ-SS-0.0-0.5 | D018-01 | 19.9 | 1 | 7.8 | 1.63 | 0.813 | 04/10/1216:16 | 04/09/1216:42 | AD11-24 | AD11-19 | ICD006S | 04/03/1209:30 | 04/03/12 |
| SL-032-NBZ-SS-0.0-0.5 | D018-02 | 9.95 | 1 | 12.0 | 1.70 | 0.852 | 04/10/1216:32 | 04/09/1216:42 | AD11-25 | AD11-19 | ICD006S | 04/03/1214:00 | 04/03/12 |
| SL-033-NBZ-SS-0.0-0.5 | D018-03 | 9.79 | 1 | 8.9 | 1.65 | 0.823 | 04/10/1216:48 | 04/09/1216:42 | AD11-26 | AD11-19 | ICD006S | 04/03/1210:30 | 04/03/12 |
| SL-035-NBZ-SS-0.0-0.5 | D018-05 | 11.2 | 1 | 11.9 | 1.70 | 0.851 | 04/10/1217:04 | 04/09/1216:42 | AD11-27 | AD11-19 | ICD006S | 04/03/1214:30 | 04/03/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD006SB | ICD006SL | ICD006SC | | |
| LAB FILE ID: | AD11-09 | AD11-10 | AD11-11 | | |
| DATE EXTRACTED: | 04/09/1216:42 | 04/09/1216:42 | 04/09/1216:42 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/10/1212:13 | 04/10/1212:30 | 04/10/1212:46 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | ICD006S | ICD006S | ICD006S | | |
| CALIB. REF: | AD11-07 | AD11-07 | AD11-07 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 25.3 | 95 | 26.6 | 25.3 | 95 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 4.8 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-035-NBZ-SB-2.0-3.0 | | | | |
| LAB SAMP ID: | D018-07 | D018-07M | D018-07S | | |
| LAB FILE ID: | AD11-21 | AD11-22 | AD11-23 | | |
| DATE EXTRACTED: | 04/09/1216:42 | 04/09/1216:42 | 04/09/1216:42 | DATE COLLECTED: | 04/03/12 14:30 |
| DATE ANALYZED: | 04/10/1215:27 | 04/10/1215:44 | 04/10/1216:00 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | ICD006S | ICD006S | ICD006S | | |
| CALIB. REF: | AD11-19 | AD11-19 | AD11-19 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | 1.55 | 27.9 | 28.8 | 97 | 27.9 | 28.9 | 98 | 1 | 80-120 | 20 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D018
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD006SB | ND | 1 | NA | 1.00 | 0.500 | 04/09/1213:43 | 04/06/1214:42 | ID09003 | ID09001 | HCD006S | NA | 04/06/12 |
| MBLK2S | HCD006SQ | ND | 1 | NA | 1.00 | 0.500 | 04/09/1213:54 | 04/06/1214:42 | ID09004 | ID09001 | HCD006S | NA | 04/06/12 |
| LCS1S | CSD006SL | 9.62 | 1 | NA | 1.00 | 0.500 | 04/09/1214:06 | 04/06/1214:42 | ID09005 | ID09001 | HCD006S | NA | 04/06/12 |
| LCS1S | CSD006SX | 9.95 | 1 | NA | 1.00 | 0.500 | 04/09/1214:16 | 04/06/1214:42 | ID09006 | ID09001 | HCD006S | NA | 04/06/12 |
| LCS2S | CID006SL | 254 | 10 | NA | 10.0 | 5.00 | 04/09/1214:27 | 04/06/1214:42 | ID09007 | ID09001 | HCD006S | NA | 04/06/12 |
| LCS2S | CID006SX | 261 | 10 | NA | 10.0 | 5.00 | 04/09/1214:37 | 04/06/1214:42 | ID09008 | ID09001 | HCD006S | NA | 04/06/12 |
| SL-031-NBZ-SS-0.0-0.5MS | D018-01G | 196 | 10 | 7.8 | 10.8 | 5.42 | 04/09/1218:29 | 04/06/1214:42 | ID09019 | ID09013 | HCD006S | 04/03/1209:30 | 04/03/12 |
| SL-031-NBZ-SS-0.0-0.5MS | D018-01G1 | 193 | 10 | 7.8 | 10.8 | 5.42 | 04/09/1218:40 | 04/06/1214:42 | ID09020 | ID09013 | HCD006S | 04/03/1209:30 | 04/03/12 |
| SL-031-NBZ-SS-0.0-0.5 | D018-01 | ND | 1 | 7.8 | 1.08 | 0.542 | 04/09/1218:50 | 04/06/1214:42 | ID09021 | ID09013 | HCD006S | 04/03/1209:30 | 04/03/12 |
| SL-031-NBZ-SS-0.0-0.5 | D018-01R | ND | 1 | 7.8 | 1.08 | 0.542 | 04/09/1219:01 | 04/06/1214:42 | ID09022 | ID09013 | HCD006S | 04/03/1209:30 | 04/03/12 |
| SL-031-NBZ-SS-0.0-0.5DUP | D018-01D | ND | 1 | 7.8 | 1.08 | 0.542 | 04/09/1219:11 | 04/06/1214:42 | ID09023 | ID09013 | HCD006S | 04/03/1209:30 | 04/03/12 |
| SL-031-NBZ-SS-0.0-0.5DUP | D018-01Z | ND | 1 | 7.8 | 1.08 | 0.542 | 04/09/1219:21 | 04/06/1214:42 | ID09024 | ID09013 | HCD006S | 04/03/1209:30 | 04/03/12 |
| SL-032-NBZ-SS-0.0-0.5 | D018-02 | ND | 1 | 12.0 | 1.14 | 0.568 | 04/09/1220:03 | 04/06/1214:42 | ID09027 | ID09025 | HCD006S | 04/03/1214:00 | 04/03/12 |
| SL-032-NBZ-SS-0.0-0.5 | D018-02R | ND | 1 | 12.0 | 1.14 | 0.568 | 04/09/1220:13 | 04/06/1214:42 | ID09028 | ID09025 | HCD006S | 04/03/1214:00 | 04/03/12 |
| SL-033-NBZ-SS-0.0-0.5 | D018-03 | ND | 1 | 8.9 | 1.10 | 0.549 | 04/09/1220:24 | 04/06/1214:42 | ID09029 | ID09025 | HCD006S | 04/03/1210:30 | 04/03/12 |
| SL-033-NBZ-SS-0.0-0.5 | D018-03R | ND | 1 | 8.9 | 1.10 | 0.549 | 04/09/1220:34 | 04/06/1214:42 | ID09030 | ID09025 | HCD006S | 04/03/1210:30 | 04/03/12 |
| SL-034-NBZ-SS-0.0-0.5 | D018-04 | ND | 1 | 16.4 | 1.20 | 0.598 | 04/09/1220:45 | 04/06/1214:42 | ID09031 | ID09025 | HCD006S | 04/03/1211:22 | 04/03/12 |
| SL-034-NBZ-SS-0.0-0.5 | D018-04R | ND | 1 | 16.4 | 1.20 | 0.598 | 04/09/1220:55 | 04/06/1214:42 | ID09032 | ID09025 | HCD006S | 04/03/1211:22 | 04/03/12 |
| SL-035-NBZ-SS-0.0-0.5 | D018-05 | ND | 1 | 11.9 | 1.14 | 0.568 | 04/09/1221:05 | 04/06/1214:42 | ID09033 | ID09025 | HCD006S | 04/03/1214:30 | 04/03/12 |
| SL-035-NBZ-SS-0.0-0.5 | D018-05R | ND | 1 | 11.9 | 1.14 | 0.568 | 04/09/1221:16 | 04/06/1214:42 | ID09034 | ID09025 | HCD006S | 04/03/1214:30 | 04/03/12 |
| SL-035-NBZ-SB-2.0-3.0 | D018-07 | ND | 1 | 4.8 | 1.05 | 0.525 | 04/09/1221:26 | 04/06/1214:42 | ID09035 | ID09025 | HCD006S | 04/03/1214:30 | 04/03/12 |
| SL-035-NBZ-SB-2.0-3.0 | D018-07R | ND | 1 | 4.8 | 1.05 | 0.525 | 04/09/1221:37 | 04/06/1214:42 | ID09036 | ID09025 | HCD006S | 04/03/1214:30 | 04/03/12 |
| SL-108-NBZ-SS-0.0-0.5 | D018-08 | ND | 1 | 5.7 | 1.06 | 0.530 | 04/09/1222:18 | 04/06/1214:42 | ID09039 | ID09037 | HCD006S | 04/03/1209:45 | 04/03/12 |
| SL-108-NBZ-SS-0.0-0.5 | D018-08R | ND | 1 | 5.7 | 1.06 | 0.530 | 04/09/1222:29 | 04/06/1214:42 | ID09040 | ID09037 | HCD006S | 04/03/1209:45 | 04/03/12 |
| SL-115-NBZ-SS-0.0-0.5 | D018-09 | ND | 1 | 12.3 | 1.14 | 0.570 | 04/09/1222:39 | 04/06/1214:42 | ID09041 | ID09037 | HCD006S | 04/03/1214:32 | 04/03/12 |
| SL-115-NBZ-SS-0.0-0.5 | D018-09R | ND | 1 | 12.3 | 1.14 | 0.570 | 04/09/1222:49 | 04/06/1214:42 | ID09042 | ID09037 | HCD006S | 04/03/1214:32 | 04/03/12 |
| SL-122-NBZ-SS-0.0-0.5 | D018-10 | ND | 1 | 12.1 | 1.14 | 0.569 | 04/09/1223:00 | 04/06/1214:42 | ID09043 | ID09037 | HCD006S | 04/03/1211:03 | 04/03/12 |
| SL-122-NBZ-SS-0.0-0.5 | D018-10R | ND | 1 | 12.1 | 1.14 | 0.569 | 04/09/1223:10 | 04/06/1214:42 | ID09044 | ID09037 | HCD006S | 04/03/1211:03 | 04/03/12 |
| SL-127-NBZ-SS-0.0-0.5 | D018-11 | ND | 1 | 5.8 | 1.06 | 0.531 | 04/09/1223:21 | 04/06/1214:42 | ID09045 | ID09037 | HCD006S | 04/03/1210:10 | 04/03/12 |
| SL-127-NBZ-SS-0.0-0.5 | D018-11R | ND | 1 | 5.8 | 1.06 | 0.531 | 04/09/1223:31 | 04/06/1214:42 | ID09046 | ID09037 | HCD006S | 04/03/1210:10 | 04/03/12 |
| SL-140-NBZ-SS-0.0-0.5 | D018-12 | ND | 1 | 13.8 | 1.16 | 0.580 | 04/09/1223:41 | 04/06/1214:42 | ID09047 | ID09037 | HCD006S | 04/03/1214:06 | 04/03/12 |
| SL-140-NBZ-SS-0.0-0.5 | D018-12R | ND | 1 | 13.8 | 1.16 | 0.580 | 04/09/1223:52 | 04/06/1214:42 | ID09048 | ID09037 | HCD006S | 04/03/1214:06 | 04/03/12 |
| SL-169-NBZ-SS-0.0-0.5 | D018-13 | ND | 1 | 9.6 | 1.11 | 0.553 | 04/10/1200:33 | 04/06/1214:42 | ID09051 | ID09049 | HCD006S | 04/03/1209:11 | 04/03/12 |
| SL-169-NBZ-SS-0.0-0.5 | D018-13R | ND | 1 | 9.6 | 1.11 | 0.553 | 04/10/1200:44 | 04/06/1214:42 | ID09052 | ID09049 | HCD006S | 04/03/1209:11 | 04/03/12 |
| SL-198-NBZ-SS-0.0-0.5 | D018-14 | ND | 1 | 7.6 | 1.08 | 0.541 | 04/10/1200:54 | 04/06/1214:42 | ID09053 | ID09049 | HCD006S | 04/03/1215:26 | 04/03/12 |
| SL-198-NBZ-SS-0.0-0.5 | D018-14R | ND | 1 | 7.6 | 1.08 | 0.541 | 04/10/1201:05 | 04/06/1214:42 | ID09054 | ID09049 | HCD006S | 04/03/1215:26 | 04/03/12 |
| SL-031-NBZ-SS-0.0-0.5MS | D018-01M | 10.6 | 1 | 7.8 | 1.08 | 0.542 | 04/10/1201:15 | 04/06/1214:42 | ID09055 | ID09049 | HCD006S | 04/03/1209:30 | 04/03/12 |
| SL-031-NBZ-SS-0.0-0.5MS | D018-01M1 | 11.3 | 1 | 7.8 | 1.08 | 0.542 | 04/10/1201:25 | 04/06/1214:42 | ID09056 | ID09049 | HCD006S | 04/03/1209:30 | 04/03/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 10
SAMPLE ID: MBLK2S
LAB SAMP ID: HCD006SQ CID006SX
LAB FILE ID: ID09004 ID09008
DATE EXTRACTED: 04/06/1214:42 04/06/1214:42 DATE COLLECTED: NA
DATE ANALYZED: 04/09/1213:54 04/09/1214:37 DATE RECEIVED: 04/06/12
PREP. BATCH: HCD006S HCD006S
CALIB. REF: ID09001 ID09001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 279 | 261 | 93 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK2S | | | |
| LAB SAMP ID: | HCD006SQ | CSD006SX | | |
| LAB FILE ID: | ID09004 | ID09006 | | |
| DATE EXTRACTED: | 04/06/1214:42 | 04/06/1214:42 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/09/1213:54 | 04/09/1214:16 | DATE RECEIVED: | 04/06/12 |
| PREP. BATCH: | HCD006S | HCD006S | | |
| CALIB. REF: | ID09001 | ID09001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 9.95 | 99 | 80-120 |

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: 7199

MATRIX: SOIL % MOISTURE: 7.8
DILUTION FACTOR: 1 10
SAMPLE ID: SL-031-NBZ-SS-0.0-0.5
LAB SAMP ID: D018-01R D018-01G1
LAB FILE ID: ID09022 ID09020
DATE EXTRACTED: 04/06/1214:42 04/06/1214:42 DATE COLLECTED: 04/03/12 09:30
DATE ANALYZED: 04/09/1219:01 04/09/1218:40 DATE RECEIVED: 04/03/12
PREP. BATCH: HCD006S HCD006S
CALIB. REF: ID09013 ID09013

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 226 | 193 | 85 | 75-125 |

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D018
METHOD: 7199

MATRIX: SOIL % MOISTURE: 7.8
DILUTION FACTOR: 1 1
SAMPLE ID: SL-031-NBZ-SS-0.0-0.5
LAB SAMP ID: D018-01R D018-01M1
LAB FILE ID: ID09022 ID09056
DATE EXTRACTED: 04/06/1214:42 04/06/1214:42 DATE COLLECTED: 04/03/12 09:30
DATE ANALYZED: 04/09/1219:01 04/10/1201:25 DATE RECEIVED: 04/03/12
PREP. BATCH: HCD006S HCD006S
CALIB. REF: ID09013 ID09049

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.8 | 11.3 | 104 | 75-125 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D018
Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CND004SB | ND | 1 | NA | 0.500 | 0.250 | 04/10/1219:37 | 04/10/1211:00 | CND00410 | CND00408 | CND004S | NA | 04/10/12 |
| LCS1S | CND004SL | 2.27 | 1 | NA | 0.500 | 0.250 | 04/10/1219:37 | 04/10/1211:00 | CND00411 | CND00408 | CND004S | NA | 04/10/12 |
| LCD1S | CND004SC | 2.19 | 1 | NA | 0.500 | 0.250 | 04/10/1219:37 | 04/10/1211:00 | CND00412 | CND00408 | CND004S | NA | 04/10/12 |
| SL-031-NBZ-SS-0.0-0.5 | D018-01 | ND | 1 | 7.8 | 0.542 | 0.271 | 04/10/1219:38 | 04/10/1211:00 | CND00413 | CND00408 | CND004S | 04/03/1209:30 | 04/03/12 |
| SL-032-NBZ-SS-0.0-0.5 | D018-02 | ND | 1 | 12.0 | 0.568 | 0.284 | 04/10/1219:38 | 04/10/1211:00 | CND00414 | CND00408 | CND004S | 04/03/1214:00 | 04/03/12 |
| SL-033-NBZ-SS-0.0-0.5 | D018-03 | ND | 1 | 8.9 | 0.549 | 0.274 | 04/10/1219:38 | 04/10/1211:00 | CND00415 | CND00408 | CND004S | 04/03/1210:30 | 04/03/12 |
| SL-034-NBZ-SS-0.0-0.5 | D018-04 | ND | 1 | 16.4 | 0.598 | 0.299 | 04/10/1219:38 | 04/10/1211:00 | CND00416 | CND00408 | CND004S | 04/03/1211:22 | 04/03/12 |
| SL-035-NBZ-SS-0.0-0.5 | D018-05 | ND | 1 | 11.9 | 0.568 | 0.284 | 04/10/1219:38 | 04/10/1211:00 | CND00417 | CND00408 | CND004S | 04/03/1214:30 | 04/03/12 |
| SL-035-NBZ-SB-2.0-3.0 | D018-07 | ND | 1 | 4.8 | 0.525 | 0.263 | 04/10/1219:39 | 04/10/1211:00 | CND00418 | CND00408 | CND004S | 04/03/1214:30 | 04/03/12 |
| SL-035-NBZ-SB-2.0-3.0DUP | D018-07D | ND | 1 | 4.8 | 0.525 | 0.263 | 04/10/1219:39 | 04/10/1211:00 | CND00419 | CND00408 | CND004S | 04/03/1214:30 | 04/03/12 |
| SL-035-NBZ-SB-2.0-3.0MS | D018-07M | 2.94 | 1 | 4.8 | 0.525 | 0.263 | 04/10/1219:40 | 04/10/1211:00 | CND00422 | CND00420 | CND004S | 04/03/1214:30 | 04/03/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D018
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CND004SL/C

DATE RECEIVED: 04/10/12
DATE EXTRACTED: 04/10/1211:00
DATE ANALYZED: 04/10/1219:37/19:37

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.27 | 91 | 2.50 | 2.19 | 88 | 4 | 85-125 | 20 |

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: 4.8

BATCH NO.: 12D018 DATE RECEIVED: 04/03/12
SAMPLE ID: SL-035-NBZ-SB-2.0-3.0MS DATE EXTRACTED: 04/10/1211:00
CONTROL NO.: D018-07M DATE ANALYZED: 04/10/1219:40

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Cyanide | ND | 2.61 | 2.94 | 113 | 75-125 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: 4.8

BATCH NO.: 12D018 DATE RECEIVED: 04/03/12
SAMPLE ID: SL-035-NBZ-SB-2.0-3.0DUP DATE EXTRACTED: 04/10/1211:00
CONTROL NO.: D018-07D DATE ANALYZED: 04/10/1219:39

ACCESSION:

| PARAMETER | SAMPLE (mg/kg) | DUP. SAMPLE (mg/kg) | RPD ( % ) | RPD LIMIT ( % ) |
|---|---|---|---|---|
| Cyanide | ND | ND | 0 | 20 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D018
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-031-NBZ-SS-0.0-0.5 | D018-01 | 6.51 | 1 | NA | NA | NA | 04/04/1217:04 | 04/04/1217:04 | 12PHD003S01 | PHD003S | PHD003S | 04/03/1209:30 | 04/03/12 |
| SL-031-NBZ-SS-0.0-0.5DUP | D018-01D | 6.49 | 1 | NA | NA | NA | 04/04/1217:05 | 04/04/1217:04 | 12PHD003S02 | PHD003S | PHD003S | 04/03/1209:30 | 04/03/12 |
| SL-032-NBZ-SS-0.0-0.5 | D018-02 | 6.12 | 1 | NA | NA | NA | 04/04/1217:08 | 04/04/1217:04 | 12PHD003S03 | PHD003S | PHD003S | 04/03/1214:00 | 04/03/12 |
| SL-033-NBZ-SS-0.0-0.5 | D018-03 | 6.37 | 1 | NA | NA | NA | 04/04/1217:10 | 04/04/1217:04 | 12PHD003S04 | PHD003S | PHD003S | 04/03/1210:30 | 04/03/12 |
| SL-034-NBZ-SS-0.0-0.5 | D018-04 | 6.32 | 1 | NA | NA | NA | 04/04/1217:13 | 04/04/1217:04 | 12PHD003S05 | PHD003S | PHD003S | 04/03/1211:22 | 04/03/12 |
| SL-035-NBZ-SS-0.0-0.5 | D018-05 | 6.74 | 1 | NA | NA | NA | 04/04/1217:15 | 04/04/1217:04 | 12PHD003S06 | PHD003S | PHD003S | 04/03/1214:30 | 04/03/12 |
| SL-035-NBZ-SB-2.0-3.0 | D018-07 | 6.82 | 1 | NA | NA | NA | 04/04/1217:16 | 04/04/1217:04 | 12PHD003S07 | PHD003S | PHD003S | 04/03/1214:30 | 04/03/12 |
| SL-108-NBZ-SS-0.0-0.5 | D018-08 | 6.50 | 1 | NA | NA | NA | 04/04/1217:19 | 04/04/1217:04 | 12PHD003S08 | PHD003S | PHD003S | 04/03/1209:45 | 04/03/12 |
| SL-115-NBZ-SS-0.0-0.5 | D018-09 | 6.75 | 1 | NA | NA | NA | 04/04/1217:21 | 04/04/1217:04 | 12PHD003S09 | PHD003S | PHD003S | 04/03/1214:32 | 04/03/12 |
| SL-122-NBZ-SS-0.0-0.5 | D018-10 | 6.65 | 1 | NA | NA | NA | 04/04/1217:22 | 04/04/1217:04 | 12PHD003S10 | PHD003S | PHD003S | 04/03/1211:03 | 04/03/12 |
| SL-127-NBZ-SS-0.0-0.5 | D018-11 | 6.98 | 1 | NA | NA | NA | 04/04/1217:25 | 04/04/1217:04 | 12PHD003S11 | PHD003S | PHD003S | 04/03/1210:10 | 04/03/12 |
| SL-140-NBZ-SS-0.0-0.5 | D018-12 | 5.64 | 1 | NA | NA | NA | 04/04/1217:27 | 04/04/1217:04 | 12PHD003S12 | PHD003S | PHD003S | 04/03/1214:06 | 04/03/12 |
| SL-169-NBZ-SS-0.0-0.5 | D018-13 | 6.70 | 1 | NA | NA | NA | 04/04/1217:29 | 04/04/1217:04 | 12PHD003S13 | PHD003S | PHD003S | 04/03/1209:11 | 04/03/12 |
| SL-198-NBZ-SS-0.0-0.5 | D018-14 | 6.52 | 1 | NA | NA | NA | 04/04/1217:32 | 04/04/1217:04 | 12PHD003S14 | PHD003S | PHD003S | 04/03/1215:26 | 04/03/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D018 DATE RECEIVED: 04/03/12
SAMPLE ID: SL-031-NBZ-SS-0.0-0.5DUP DATE EXTRACTED: 04/04/1217:04
CONTROL NO.: D018-01D DATE ANALYZED: 04/04/1217:05

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | RPD (pH Unit) | RPD LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 6.51 | 6.49 | 0.02 | 0.1 |

# SAMPLE DELIVERY GROUP

# 12D031

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/10/12 19:53 |
| Sample ID: TB-040412 | Date Analyzed: 04/10/12 19:53 |
| Lab Samp ID: D031-16 | Dilution Factor: 1 |
| Lab File ID: RDV067 | Matrix : WATER |
| Ext Btch ID: VO01D04 | % Moisture : NA |
| Calib. Ref.: RBV366 | Instrument ID : T-O01 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,1-TRICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,2-TRICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROETHENE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| 1,2,3-TRICHLOROBENZENE | ND | 1.0 | 0.30 |
| 1,2,3-TRICHLOROPROPANE | ND | 2.0 | 0.50 |
| 1,2,4-TRICHLOROBENZENE | ND | 1.0 | 0.30 |
| 1,2,4-TRIMETHYLBENZENE | ND | 1.0 | 0.20 |
| 1,2-DIBROMO-3-CHLOROPROPANE | ND | 2.0 | 0.50 |
| 1,2-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 1,2-DICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,2-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 1,2-DIBROMOETHANE (EDB) | ND | 1.0 | 0.20 |
| 1,3,5-TRIMETHYLBENZENE | ND | 1.0 | 0.20 |
| 1,3-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 1,4-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 2,2-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 2-CHLOROTOLUENE | ND | 1.0 | 0.20 |
| 4-CHLOROTOLUENE | ND | 1.0 | 0.20 |
| BENZENE | ND | 1.0 | 0.20 |
| BROMOBENZENE | ND | 1.0 | 0.20 |
| BROMOCHLOROMETHANE | ND | 1.0 | 0.20 |
| BROMODICHLOROMETHANE | ND | 1.0 | 0.20 |
| BROMOFORM | ND | 1.0 | 0.30 |
| BROMOMETHANE | ND | 1.0 | 0.30 |
| CARBON TETRACHLORIDE | ND | 1.0 | 0.20 |
| CHLOROBENZENE | ND | 1.0 | 0.20 |
| CHLOROETHANE | ND | 1.0 | 0.30 |
| CHLOROFORM | ND | 1.0 | 0.20 |
| CHLOROMETHANE | ND | 1.0 | 0.30 |
| CIS-1,2-DICHLOROETHENE | ND | 1.0 | 0.20 |
| CIS-1,3-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| DIBROMOCHLOROMETHANE | ND | 1.0 | 0.20 |
| DIBROMOMETHANE | ND | 1.0 | 0.20 |
| DICHLORODIFLUOROMETHANE | ND | 1.0 | 0.30 |
| ETHYLBENZENE | ND | 1.0 | 0.20 |
| HEXACHLOROBUTADIENE | ND | 1.0 | 0.30 |
| ISOPROPYL BENZENE | ND | 1.0 | 0.20 |
| M,P-XYLENE | ND | 2.0 | 0.40 |
| METHYL TERT-BUTYL ETHER (MTBE) | ND | 1.0 | 0.20 |
| METHYLENE CHLORIDE | ND | 1.0 | 0.50 |
| N-BUTYLBENZENE | ND | 1.0 | 0.20 |
| N-PROPYLBENZENE | ND | 1.0 | 0.20 |
| O-XYLENE | ND | 1.0 | 0.20 |
| P-ISOPROPYLTOLUENE | ND | 1.0 | 0.20 |
| SEC-BUTYLBENZENE | ND | 1.0 | 0.20 |
| STYRENE | ND | 1.0 | 0.20 |
| TERT-BUTYLBENZENE | ND | 1.0 | 0.20 |
| TETRACHLOROETHENE | ND | 1.0 | 0.20 |
| TOLUENE | ND | 1.0 | 0.20 |
| TRANS-1,2-DICHLOROETHENE | ND | 1.0 | 0.20 |
| TRANS-1,3-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| TRICHLOROETHENE | ND | 1.0 | 0.20 |
| TRICHLOROFLUOROMETHANE | ND | 1.0 | 0.30 |
| VINYL CHLORIDE | ND | 1.0 | 0.20 |
| ACETONE | ND | 10 | 5.0 |
| 2-BUTANONE (MEK) | ND | 10 | 4.0 |
| 2-HEXANONE | ND | 10 | 4.0 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 10 | 4.0 |
| FREON113 | ND | 1.0 | 0.30 |
| 2-CHLOROETHYL VINYL ETHER | ND | 2.0 | 1.0 |
| 2-CHLORO-1,1,1-TRIFLUOROETHANE | ND | 1.0 | 0.20 |
| CHLOROTRIFLUOROETHYLENE | ND | 1.0 | 0.20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 11.3 | 10.00 | 113 | 80-120 |
| 4-BROMOFLUOROBENZENE | 10.2 | 10.00 | 102 | 86-115 |
| TOLUENE-D8 | 10.2 | 10.00 | 102 | 88-110 |
| DIBROMOFLUOROMETHANE | 9.96 | 10.00 | 99.6 | 86-118 |

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D031 | Date Extracted: 04/10/12 15:25 |
| Sample ID: MBLK1W | Date Analyzed: 04/10/12 15:25 |
| Lab Samp ID: VO01D04B | Dilution Factor: 1 |
| Lab File ID: RDV058 | Matrix : WATER |
| Ext Btch ID: VO01D04 | % Moisture : NA |
| Calib. Ref.: RBV366 | Instrument ID : T-O01 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,1-TRICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,2-TRICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROETHENE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| 1,2,3-TRICHLOROBENZENE | ND | 1.0 | 0.30 |
| 1,2,3-TRICHLOROPROPANE | ND | 2.0 | 0.50 |
| 1,2,4-TRICHLOROBENZENE | ND | 1.0 | 0.30 |
| 1,2,4-TRIMETHYLBENZENE | ND | 1.0 | 0.20 |
| 1,2-DIBROMO-3-CHLOROPROPANE | ND | 2.0 | 0.50 |
| 1,2-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 1,2-DICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,2-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 1,2-DIBROMOETHANE (EDB) | ND | 1.0 | 0.20 |
| 1,3,5-TRIMETHYLBENZENE | ND | 1.0 | 0.20 |
| 1,3-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 1,4-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 2,2-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 2-CHLOROTOLUENE | ND | 1.0 | 0.20 |
| 4-CHLOROTOLUENE | ND | 1.0 | 0.20 |
| BENZENE | ND | 1.0 | 0.20 |
| BROMOBENZENE | ND | 1.0 | 0.20 |
| BROMOCHLOROMETHANE | ND | 1.0 | 0.20 |
| BROMODICHLOROMETHANE | ND | 1.0 | 0.20 |
| BROMOFORM | ND | 1.0 | 0.30 |
| BROMOMETHANE | ND | 1.0 | 0.30 |
| CARBON TETRACHLORIDE | ND | 1.0 | 0.20 |
| CHLOROBENZENE | ND | 1.0 | 0.20 |
| CHLOROETHANE | ND | 1.0 | 0.30 |
| CHLOROFORM | ND | 1.0 | 0.20 |
| CHLOROMETHANE | ND | 1.0 | 0.30 |
| CIS-1,2-DICHLOROETHENE | ND | 1.0 | 0.20 |
| CIS-1,3-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| DIBROMOCHLOROMETHANE | ND | 1.0 | 0.20 |
| DIBROMOMETHANE | ND | 1.0 | 0.20 |
| DICHLORODIFLUOROMETHANE | ND | 1.0 | 0.30 |
| ETHYLBENZENE | ND | 1.0 | 0.20 |
| HEXACHLOROBUTADIENE | ND | 1.0 | 0.30 |
| ISOPROPYL BENZENE | ND | 1.0 | 0.20 |
| M,P-XYLENE | ND | 2.0 | 0.40 |
| METHYL TERT-BUTYL ETHER (MTBE) | ND | 1.0 | 0.20 |
| METHYLENE CHLORIDE | ND | 1.0 | 0.50 |
| N-BUTYLBENZENE | ND | 1.0 | 0.20 |
| N-PROPYLBENZENE | ND | 1.0 | 0.20 |
| O-XYLENE | ND | 1.0 | 0.20 |
| P-ISOPROPYLTOLUENE | ND | 1.0 | 0.20 |
| SEC-BUTYLBENZENE | ND | 1.0 | 0.20 |
| STYRENE | ND | 1.0 | 0.20 |
| TERT-BUTYLBENZENE | ND | 1.0 | 0.20 |
| TETRACHLOROETHENE | ND | 1.0 | 0.20 |
| TOLUENE | ND | 1.0 | 0.20 |
| TRANS-1,2-DICHLOROETHENE | ND | 1.0 | 0.20 |
| TRANS-1,3-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| TRICHLOROETHENE | ND | 1.0 | 0.20 |
| TRICHLOROFLUOROMETHANE | ND | 1.0 | 0.30 |
| VINYL CHLORIDE | ND | 1.0 | 0.20 |
| ACETONE | ND | 10 | 5.0 |
| 2-BUTANONE (MEK) | ND | 10 | 4.0 |
| 2-HEXANONE | ND | 10 | 4.0 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 10 | 4.0 |
| FREON113 | ND | 1.0 | 0.30 |
| 2-CHLOROETHYL VINYL ETHER | ND | 2.0 | 1.0 |
| 2-CHLORO-1,1,1-TRIFLUOROETHANE | ND | 1.0 | 0.20 |
| CHLOROTRIFLUOROETHYLENE | ND | 1.0 | 0.20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 10.9 | 10.00 | 109 | 80-120 |
| 4-BROMOFLUOROBENZENE | 9.61 | 10.00 | 96.1 | 86-115 |
| TOLUENE-D8 | 10.2 | 10.00 | 102 | 88-110 |
| DIBROMOFLUOROMETHANE | 9.96 | 10.00 | 99.6 | 86-118 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: VO01D04B VO01D04L VO01D04Y
LAB FILE ID: RDV058 RDV054 RDV056
DATE EXTRACTED: 04/10/1215:25 04/10/1213:24 04/10/1214:22 DATE COLLECTED: NA
DATE ANALYZED: 04/10/1215:25 04/10/1213:24 04/10/1214:22 DATE RECEIVED: 04/10/12
PREP. BATCH: VO01D04 VO01D04 VO01D04
CALIB. REF: RBV366 RBV366 RBV366

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 10.0 | 10.1 | 101 | 10.0 | 9.47 | 95 | 7 | 70-130 | 30 |
| 1,1,1-Trichloroethane | ND | 10.0 | 10.4 | 104 | 10.0 | 9.66 | 97 | 8 | 70-130 | 30 |
| 1,1,2,2-Tetrachloroethane | ND | 10.0 | 11.1 | 111 | 10.0 | 9.72 | 97 | 13 | 70-130 | 30 |
| 1,1,2-Trichloroethane | ND | 10.0 | 10.2 | 102 | 10.0 | 9.35 | 94 | 8 | 70-130 | 30 |
| 1,1-Dichloroethane | ND | 10.0 | 10.8 | 108 | 10.0 | 10.2 | 102 | 6 | 70-130 | 30 |
| 1,1-Dichloroethene | ND | 10.0 | 10.2 | 102 | 10.0 | 9.58 | 96 | 6 | 60-130 | 30 |
| 1,1-Dichloropropene | ND | 10.0 | 9.86 | 99 | 10.0 | 9.31 | 93 | 6 | 70-140 | 30 |
| 1,2,3-Trichlorobenzene | ND | 10.0 | 11.3 | 113 | 10.0 | 11.0 | 110 | 3 | 60-130 | 30 |
| 1,2,3-Trichloropropane | ND | 10.0 | 10.9 | 109 | 10.0 | 9.71 | 97 | 12 | 70-140 | 30 |
| 1,2,4-Trichlorobenzene | ND | 10.0 | 11.3 | 113 | 10.0 | 10.9 | 109 | 3 | 60-140 | 30 |
| 1,2,4-Trimethylbenzene | ND | 10.0 | 10.7 | 107 | 10.0 | 10.0 | 100 | 6 | 70-130 | 30 |
| 1,2-Dibromo-3-chloropropane | ND | 10.0 | 10.6 | 106 | 10.0 | 9.43 | 94 | 11 | 60-130 | 30 |
| 1,2-Dichlorobenzene | ND | 10.0 | 10.6 | 106 | 10.0 | 9.91 | 99 | 6 | 70-130 | 30 |
| 1,2-Dichloroethane | ND | 10.0 | 10.7 | 107 | 10.0 | 10.0 | 100 | 7 | 70-130 | 30 |
| 1,2-Dichloropropane | ND | 10.0 | 10.5 | 105 | 10.0 | 9.72 | 97 | 8 | 70-130 | 30 |
| 1,2-Dibromoethane (EDB) | ND | 10.0 | 9.91 | 99 | 10.0 | 9.01 | 90 | 9 | 70-140 | 30 |
| 1,3,5-Trimethylbenzene | ND | 10.0 | 10.7 | 107 | 10.0 | 10.0 | 100 | 7 | 70-130 | 30 |
| 1,3-Dichlorobenzene | ND | 10.0 | 10.2 | 102 | 10.0 | 9.65 | 97 | 5 | 70-130 | 30 |
| 1,3-Dichloropropane | ND | 10.0 | 9.78 | 98 | 10.0 | 8.99 | 90 | 8 | 70-130 | 30 |
| 1,4-Dichlorobenzene | ND | 10.0 | 9.90 | 99 | 10.0 | 9.40 | 94 | 5 | 70-130 | 30 |
| 2,2-Dichloropropane | ND | 10.0 | 10.7 | 107 | 10.0 | 9.88 | 99 | 8 | 50-140 | 30 |
| 2-Chlorotoluene | ND | 10.0 | 10.5 | 105 | 10.0 | 9.67 | 97 | 8 | 70-130 | 30 |
| 4-Chlorotoluene | ND | 10.0 | 10.6 | 106 | 10.0 | 9.92 | 99 | 7 | 70-130 | 30 |
| Benzene | ND | 10.0 | 9.78 | 98 | 10.0 | 9.17 | 92 | 6 | 70-130 | 30 |
| Bromobenzene | ND | 10.0 | 10.1 | 101 | 10.0 | 9.41 | 94 | 7 | 70-130 | 30 |
| Bromochloromethane | ND | 10.0 | 10.8 | 108 | 10.0 | 9.81 | 98 | 10 | 70-130 | 30 |
| Bromodichloromethane | ND | 10.0 | 9.59 | 96 | 10.0 | 8.91 | 89 | 7 | 70-130 | 30 |
| Bromoform | ND | 10.0 | 11.1 | 111 | 10.0 | 9.84 | 98 | 12 | 60-140 | 30 |
| Bromomethane | ND | 10.0 | 10.0 | 100 | 10.0 | 9.52 | 95 | 5 | 50-140 | 30 |
| Carbon Tetrachloride | ND | 10.0 | 10.1 | 101 | 10.0 | 9.53 | 95 | 5 | 70-130 | 30 |
| Chlorobenzene | ND | 10.0 | 10.3 | 103 | 10.0 | 9.65 | 97 | 7 | 70-120 | 30 |
| Chloroethane | ND | 10.0 | 11.0 | 110 | 10.0 | 10.2 | 102 | 8 | 70-140 | 30 |
| Chloroform | ND | 10.0 | 10.5 | 105 | 10.0 | 9.85 | 98 | 7 | 70-130 | 30 |
| Chloromethane | ND | 10.0 | 9.18 | 92 | 10.0 | 8.56 | 86 | 7 | 60-130 | 30 |
| cis-1,2-Dichloroethene | ND | 10.0 | 9.51 | 95 | 10.0 | 8.73 | 87 | 9 | 70-130 | 30 |
| cis-1,3-Dichloropropene | ND | 10.0 | 9.95 | 100 | 10.0 | 9.26 | 93 | 7 | 70-130 | 30 |
| Dibromochloromethane | ND | 10.0 | 9.84 | 98 | 10.0 | 8.90 | 89 | 10 | 70-130 | 30 |
| Dibromomethane | ND | 10.0 | 10.3 | 103 | 10.0 | 9.44 | 94 | 8 | 70-140 | 30 |
| Dichlorodifluoromethane | ND | 10.0 | 8.98 | 90 | 10.0 | 8.71 | 87 | 3 | 50-140 | 30 |
| Ethylbenzene | ND | 10.0 | 10.2 | 102 | 10.0 | 9.60 | 96 | 6 | 70-130 | 30 |
| Hexachlorobutadiene | ND | 10.0 | 12.4 | 124 | 10.0 | 12.4 | 124 | 0 | 60-140 | 30 |
| Isopropyl Benzene | ND | 10.0 | 11.9 | 119 | 10.0 | 11.0 | 110 | 7 | 70-150 | 30 |
| m,p-Xylene | ND | 20.0 | 19.7 | 98 | 20.0 | 18.6 | 93 | 6 | 70-130 | 30 |
| Methyl tert-butyl Ether (MTBE) | ND | 10.0 | 10.3 | 103 | 10.0 | 9.09 | 91 | 13 | 70-140 | 30 |
| Methylene Chloride | ND | 10.0 | 10.7 | 107 | 10.0 | 9.87 | 99 | 8 | 70-130 | 30 |
| n-Butylbenzene | ND | 10.0 | 10.9 | 109 | 10.0 | 10.5 | 105 | 3 | 60-130 | 30 |
| n-Propylbenzene | ND | 10.0 | 10.5 | 105 | 10.0 | 9.90 | 99 | 6 | 70-140 | 30 |
| o-Xylene | ND | 10.0 | 9.83 | 98 | 10.0 | 9.23 | 92 | 6 | 70-130 | 30 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | ND | 10.0 | 11.4 | 114 | 10.0 | 10.9 | 109 | 4 | 70-140 | 30 |
| Sec-Butylbenzene | ND | 10.0 | 10.9 | 109 | 10.0 | 10.3 | 103 | 6 | 70-130 | 30 |
| Styrene | ND | 10.0 | 10.1 | 101 | 10.0 | 9.42 | 94 | 7 | 70-130 | 30 |
| Tert-Butylbenzene | ND | 10.0 | 10.4 | 104 | 10.0 | 9.85 | 98 | 6 | 70-130 | 30 |
| Tetrachloroethene | ND | 10.0 | 9.82 | 98 | 10.0 | 9.13 | 91 | 7 | 70-130 | 30 |
| Toluene | ND | 10.0 | 9.76 | 98 | 10.0 | 9.06 | 91 | 7 | 70-130 | 30 |
| Trans-1,2-Dichloroethene | ND | 10.0 | 9.96 | 100 | 10.0 | 9.16 | 92 | 8 | 70-130 | 30 |
| Trans-1,3-Dichloropropene | ND | 10.0 | 10.1 | 101 | 10.0 | 9.17 | 92 | 10 | 70-140 | 30 |
| Trichloroethene | ND | 10.0 | 9.93 | 99 | 10.0 | 9.23 | 92 | 7 | 70-130 | 30 |
| Trichlorofluoromethane | ND | 10.0 | 11.1 | 111 | 10.0 | 10.4 | 104 | 7 | 70-140 | 30 |
| Vinyl Chloride | ND | 10.0 | 10.8 | 108 | 10.0 | 10.2 | 102 | 6 | 60-150 | 30 |
| Acetone | ND | 50.0 | 55.8 | 112 | 50.0 | 48.5 | 97 | 14 | 50-150 | 30 |
| 2-Butanone (MEK) | ND | 50.0 | 58.8 | 118 | 50.0 | 50.3 | 101 | 16 | 60-140 | 30 |
| 2-Hexanone | ND | 50.0 | 55.6 | 111 | 50.0 | 49.5 | 99 | 12 | 70-140 | 30 |
| 4-Methyl-2-Pentanone (MIBK) | ND | 50.0 | 56.5 | 113 | 50.0 | 49.8 | 100 | 13 | 60-140 | 30 |
| Freon113 | ND | 10.0 | 11.3 | 113 | 10.0 | 10.8 | 108 | 4 | 70-140 | 30 |
| 2-Chloroethyl Vinyl Ether | ND | 10.0 | 7.97 | 80 | 10.0 | 7.13 | 71 | 11 | 30-160 | 30 |
| 2-Chloro-1,1,1-trifluoroethane | ND | 10.0 | 10.6 | 106 | 10.0 | 10.5 | 105 | 1 | 50-150 | 30 |
| Chlorotrifluoroethylene | ND | 10.0 | 9.19 | 92 | 10.0 | 10.1 | 101 | 9 | 50-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 10.0 | 10.6 | 106 | 10.0 | 10.2 | 102 | 80-120 |
| 4-Bromofluorobenzene | 10.0 | 9.44 | 94 | 10.0 | 9.41 | 94 | 86-115 |
| Toluene-d8 | 10.0 | 9.99 | 100 | 10.0 | 10.0 | 100 | 88-110 |
| Dibromofluoromethane | 10.0 | 10.1 | 101 | 10.0 | 9.71 | 97 | 86-118 |

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/11/12 12:26 |
| Sample ID: SL-020-NBZ-SB-3.0 | Date Analyzed: 04/11/12 12:26 |
| Lab Samp ID: D031-03N | Dilution Factor: 0.99 |
| Lab File ID: RDB159 | Matrix : SOIL |
| Ext Btch ID: VO03D09 | % Moisture : 10.8 |
| Calib. Ref.: RBB256 | Instrument ID : T-O03 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | ND | 5.5 | 1.1 |
| 1,1,1-TRICHLOROETHANE | ND | 5.5 | 1.1 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5.5 | 1.1 |
| 1,1,2-TRICHLOROETHANE | ND | 5.5 | 1.1 |
| 1,1-DICHLOROETHANE | ND | 5.5 | 1.1 |
| 1,1-DICHLOROETHENE | ND | 5.5 | 1.1 |
| 1,1-DICHLOROPROPENE | ND | 5.5 | 1.1 |
| 1,2,3-TRICHLOROBENZENE | ND | 5.5 | 2.2 |
| 1,2,3-TRICHLOROPROPANE | ND | 5.5 | 2.2 |
| 1,2,4-TRICHLOROBENZENE | ND | 5.5 | 2.2 |
| 1,2,4-TRIMETHYLBENZENE | ND | 5.5 | 1.1 |
| 1,2-DIBROMO-3-CHLOROPROPANE | ND | 5.5 | 2.2 |
| 1,2-DICHLOROBENZENE | ND | 5.5 | 1.1 |
| 1,2-DICHLOROETHANE | ND | 5.5 | 1.1 |
| 1,2-DICHLOROPROPANE | ND | 5.5 | 1.1 |
| 1,2-DIBROMOETHANE (EDB) | ND | 5.5 | 1.1 |
| 1,3,5-TRIMETHYLBENZENE | ND | 5.5 | 1.1 |
| 1,3-DICHLOROBENZENE | ND | 5.5 | 1.1 |
| 1,3-DICHLOROPROPANE | ND | 5.5 | 1.1 |
| 1,4-DICHLOROBENZENE | ND | 5.5 | 1.1 |
| 2,2-DICHLOROPROPANE | ND | 5.5 | 2.2 |
| 2-CHLOROTOLUENE | ND | 5.5 | 1.1 |
| 4-CHLOROTOLUENE | ND | 5.5 | 1.1 |
| BENZENE | ND | 5.5 | 1.1 |
| BROMOBENZENE | ND | 5.5 | 1.1 |
| BROMOCHLOROMETHANE | ND | 5.5 | 1.1 |
| BROMODICHLOROMETHANE | ND | 5.5 | 1.1 |
| BROMOFORM | ND | 5.5 | 2.2 |
| BROMOMETHANE | ND | 5.5 | 2.2 |
| CARBON TETRACHLORIDE | ND | 5.5 | 1.1 |
| CHLOROBENZENE | ND | 5.5 | 1.1 |
| CHLOROETHANE | ND | 5.5 | 2.2 |
| CHLOROFORM | ND | 5.5 | 1.1 |
| CHLOROMETHANE | ND | 5.5 | 2.2 |
| CIS-1,2-DICHLOROETHENE | ND | 5.5 | 1.1 |
| CIS-1,3-DICHLOROPROPENE | ND | 5.5 | 1.1 |
| DIBROMOCHLOROMETHANE | ND | 5.5 | 1.1 |
| DIBROMOMETHANE | ND | 5.5 | 1.1 |
| DICHLORODIFLUOROMETHANE | ND | 5.5 | 2.2 |
| ETHYLBENZENE | ND | 5.5 | 1.1 |
| HEXACHLOROBUTADIENE | ND | 5.5 | 2.2 |
| ISOPROPYL BENZENE | ND | 5.5 | 1.1 |
| M,P-XYLENE | ND | 5.5 | 2.2 |
| METHYL TERT-BUTYL ETHER (MTBE) | ND | 5.5 | 1.1 |
| METHYLENE CHLORIDE | 4.2J | 5.5 | 2.2 |
| N-BUTYLBENZENE | ND | 5.5 | 1.1 |
| N-PROPYLBENZENE | ND | 5.5 | 1.1 |
| O-XYLENE | ND | 5.5 | 1.1 |
| P-ISOPROPYLTOLUENE | ND | 5.5 | 1.1 |
| SEC-BUTYLBENZENE | ND | 5.5 | 1.1 |
| STYRENE | ND | 5.5 | 1.1 |
| TERT-BUTYLBENZENE | ND | 5.5 | 1.1 |
| TETRACHLOROETHENE | ND | 5.5 | 1.1 |
| TOLUENE | ND | 5.5 | 1.1 |
| TRANS-1,2-DICHLOROETHENE | ND | 5.5 | 1.1 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.5 | 1.1 |
| TRICHLOROETHENE | ND | 5.5 | 1.1 |
| TRICHLOROFLUOROMETHANE | ND | 5.5 | 2.2 |
| VINYL CHLORIDE | ND | 5.5 | 2.2 |
| ACETONE | ND | 11 | 5.5 |
| 2-BUTANONE (MEK) | ND | 11 | 5.5 |
| 2-HEXANONE | ND | 11 | 5.5 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 11 | 5.5 |
| FREON113 | ND | 5.5 | 2.2 |
| 2-CHLOROETHYL VINYL ETHER | ND | 5.5 | 2.2 |
| 2-CHLORO-1,1,1-TRIFLUOROETHANE | ND | 5.5 | 2.2 |
| CHLOROTRIFLUOROETHYLENE | ND | 5.5 | 2.2 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 55.6 | 55.49 | 100 | 80-120 |
| 4-BROMOFLUOROBENZENE | 57.2 | 55.49 | 103 | 74-121 |
| TOLUENE-D8 | 56.7 | 55.49 | 102 | 81-117 |
| DIBROMOFLUOROMETHANE | 58.5 | 55.49 | 105 | 80-120 |

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D031 | Date Extracted: 04/11/12 11:31 |
| Sample ID: MBLK1S | Date Analyzed: 04/11/12 11:31 |
| Lab Samp ID: VO03D09B | Dilution Factor: 1 |
| Lab File ID: RDB157 | Matrix : SOIL |
| Ext Btch ID: VO03D09 | % Moisture : NA |
| Calib. Ref.: RBB256 | Instrument ID : T-O03 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1,1-TRICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1,2-TRICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1-DICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1-DICHLOROETHENE | ND | 5.0 | 1.0 |
| 1,1-DICHLOROPROPENE | ND | 5.0 | 1.0 |
| 1,2,3-TRICHLOROBENZENE | ND | 5.0 | 2.0 |
| 1,2,3-TRICHLOROPROPANE | ND | 5.0 | 2.0 |
| 1,2,4-TRICHLOROBENZENE | ND | 5.0 | 2.0 |
| 1,2,4-TRIMETHYLBENZENE | ND | 5.0 | 1.0 |
| 1,2-DIBROMO-3-CHLOROPROPANE | ND | 5.0 | 2.0 |
| 1,2-DICHLOROBENZENE | ND | 5.0 | 1.0 |
| 1,2-DICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,2-DICHLOROPROPANE | ND | 5.0 | 1.0 |
| 1,2-DIBROMOETHANE (EDB) | ND | 5.0 | 1.0 |
| 1,3,5-TRIMETHYLBENZENE | ND | 5.0 | 1.0 |
| 1,3-DICHLOROBENZENE | ND | 5.0 | 1.0 |
| 1,3-DICHLOROPROPANE | ND | 5.0 | 1.0 |
| 1,4-DICHLOROBENZENE | ND | 5.0 | 1.0 |
| 2,2-DICHLOROPROPANE | ND | 5.0 | 2.0 |
| 2-CHLOROTOLUENE | ND | 5.0 | 1.0 |
| 4-CHLOROTOLUENE | ND | 5.0 | 1.0 |
| BENZENE | ND | 5.0 | 1.0 |
| BROMOBENZENE | ND | 5.0 | 1.0 |
| BROMOCHLOROMETHANE | ND | 5.0 | 1.0 |
| BROMODICHLOROMETHANE | ND | 5.0 | 1.0 |
| BROMOFORM | ND | 5.0 | 2.0 |
| BROMOMETHANE | ND | 5.0 | 2.0 |
| CARBON TETRACHLORIDE | ND | 5.0 | 1.0 |
| CHLOROBENZENE | ND | 5.0 | 1.0 |
| CHLOROETHANE | ND | 5.0 | 2.0 |
| CHLOROFORM | ND | 5.0 | 1.0 |
| CHLOROMETHANE | ND | 5.0 | 2.0 |
| CIS-1,2-DICHLOROETHENE | ND | 5.0 | 1.0 |
| CIS-1,3-DICHLOROPROPENE | ND | 5.0 | 1.0 |
| DIBROMOCHLOROMETHANE | ND | 5.0 | 1.0 |
| DIBROMOMETHANE | ND | 5.0 | 1.0 |
| DICHLORODIFLUOROMETHANE | ND | 5.0 | 2.0 |
| ETHYLBENZENE | ND | 5.0 | 1.0 |
| HEXACHLOROBUTADIENE | ND | 5.0 | 2.0 |
| ISOPROPYL BENZENE | ND | 5.0 | 1.0 |
| M,P-XYLENE | ND | 5.0 | 2.0 |
| METHYL TERT-BUTYL ETHER (MTBE) | ND | 5.0 | 1.0 |
| METHYLENE CHLORIDE | ND | 5.0 | 2.0 |
| N-BUTYLBENZENE | ND | 5.0 | 1.0 |
| N-PROPYLBENZENE | ND | 5.0 | 1.0 |
| O-XYLENE | ND | 5.0 | 1.0 |
| P-ISOPROPYLTOLUENE | ND | 5.0 | 1.0 |
| SEC-BUTYLBENZENE | ND | 5.0 | 1.0 |
| STYRENE | ND | 5.0 | 1.0 |
| TERT-BUTYLBENZENE | ND | 5.0 | 1.0 |
| TETRACHLOROETHENE | ND | 5.0 | 1.0 |
| TOLUENE | ND | 5.0 | 1.0 |
| TRANS-1,2-DICHLOROETHENE | ND | 5.0 | 1.0 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.0 | 1.0 |
| TRICHLOROETHENE | ND | 5.0 | 1.0 |
| TRICHLOROFLUOROMETHANE | ND | 5.0 | 2.0 |
| VINYL CHLORIDE | ND | 5.0 | 2.0 |
| ACETONE | ND | 10 | 5.0 |
| 2-BUTANONE (MEK) | ND | 10 | 5.0 |
| 2-HEXANONE | ND | 10 | 5.0 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 10 | 5.0 |
| FREON113 | ND | 5.0 | 2.0 |
| 2-CHLOROETHYL VINYL ETHER | ND | 5.0 | 2.0 |
| 2-CHLORO-1,1,1-TRIFLUOROETHANE | ND | 5.0 | 2.0 |
| CHLOROTRIFLUOROETHYLENE | ND | 5.0 | 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 47.3 | 50.00 | 94.5 | 80-120 |
| 4-BROMOFLUOROBENZENE | 47.5 | 50.00 | 94.9 | 74-121 |
| TOLUENE-D8 | 49.0 | 50.00 | 98.0 | 81-117 |
| DIBROMOFLUOROMETHANE | 52.3 | 50.00 | 105 | 80-120 |

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D031 | Date Extracted: 04/11/12 13:53 |
| Sample ID: MBLK2S | Date Analyzed: 04/11/12 13:53 |
| Lab Samp ID: VPD010SB | Dilution Factor: 1 |
| Lab File ID: RDB162 | Matrix : SOIL |
| Ext Btch ID: VO03D09 | % Moisture : NA |
| Calib. Ref.: RBB256 | Instrument ID : T-O03 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1,1-TRICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1,2-TRICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1-DICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1-DICHLOROETHENE | ND | 5.0 | 1.0 |
| 1,1-DICHLOROPROPENE | ND | 5.0 | 1.0 |
| 1,2,3-TRICHLOROBENZENE | ND | 5.0 | 2.0 |
| 1,2,3-TRICHLOROPROPANE | ND | 5.0 | 2.0 |
| 1,2,4-TRICHLOROBENZENE | ND | 5.0 | 2.0 |
| 1,2,4-TRIMETHYLBENZENE | ND | 5.0 | 1.0 |
| 1,2-DIBROMO-3-CHLOROPROPANE | ND | 5.0 | 2.0 |
| 1,2-DICHLOROBENZENE | ND | 5.0 | 1.0 |
| 1,2-DICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,2-DICHLOROPROPANE | ND | 5.0 | 1.0 |
| 1,2-DIBROMOETHANE (EDB) | ND | 5.0 | 1.0 |
| 1,3,5-TRIMETHYLBENZENE | ND | 5.0 | 1.0 |
| 1,3-DICHLOROBENZENE | ND | 5.0 | 1.0 |
| 1,3-DICHLOROPROPANE | ND | 5.0 | 1.0 |
| 1,4-DICHLOROBENZENE | ND | 5.0 | 1.0 |
| 2,2-DICHLOROPROPANE | ND | 5.0 | 2.0 |
| 2-CHLOROTOLUENE | ND | 5.0 | 1.0 |
| 4-CHLOROTOLUENE | ND | 5.0 | 1.0 |
| BENZENE | ND | 5.0 | 1.0 |
| BROMOBENZENE | ND | 5.0 | 1.0 |
| BROMOCHLOROMETHANE | ND | 5.0 | 1.0 |
| BROMODICHLOROMETHANE | ND | 5.0 | 1.0 |
| BROMOFORM | ND | 5.0 | 2.0 |
| BROMOMETHANE | ND | 5.0 | 2.0 |
| CARBON TETRACHLORIDE | ND | 5.0 | 1.0 |
| CHLOROBENZENE | ND | 5.0 | 1.0 |
| CHLOROETHANE | ND | 5.0 | 2.0 |
| CHLOROFORM | ND | 5.0 | 1.0 |
| CHLOROMETHANE | ND | 5.0 | 2.0 |
| CIS-1,2-DICHLOROETHENE | ND | 5.0 | 1.0 |
| CIS-1,3-DICHLOROPROPENE | ND | 5.0 | 1.0 |
| DIBROMOCHLOROMETHANE | ND | 5.0 | 1.0 |
| DIBROMOMETHANE | ND | 5.0 | 1.0 |
| DICHLORODIFLUOROMETHANE | ND | 5.0 | 2.0 |
| ETHYLBENZENE | ND | 5.0 | 1.0 |
| HEXACHLOROBUTADIENE | ND | 5.0 | 2.0 |
| ISOPROPYL BENZENE | ND | 5.0 | 1.0 |
| M,P-XYLENE | ND | 5.0 | 2.0 |
| METHYL TERT-BUTYL ETHER (MTBE) | ND | 5.0 | 1.0 |
| METHYLENE CHLORIDE | ND | 5.0 | 2.0 |
| N-BUTYLBENZENE | ND | 5.0 | 1.0 |
| N-PROPYLBENZENE | ND | 5.0 | 1.0 |
| O-XYLENE | ND | 5.0 | 1.0 |
| P-ISOPROPYLTOLUENE | ND | 5.0 | 1.0 |
| SEC-BUTYLBENZENE | ND | 5.0 | 1.0 |
| STYRENE | ND | 5.0 | 1.0 |
| TERT-BUTYLBENZENE | ND | 5.0 | 1.0 |
| TETRACHLOROETHENE | ND | 5.0 | 1.0 |
| TOLUENE | ND | 5.0 | 1.0 |
| TRANS-1,2-DICHLOROETHENE | ND | 5.0 | 1.0 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.0 | 1.0 |
| TRICHLOROETHENE | ND | 5.0 | 1.0 |
| TRICHLOROFLUOROMETHANE | ND | 5.0 | 2.0 |
| VINYL CHLORIDE | ND | 5.0 | 2.0 |
| ACETONE | ND | 10 | 5.0 |
| 2-BUTANONE (MEK) | ND | 10 | 5.0 |
| 2-HEXANONE | ND | 10 | 5.0 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 10 | 5.0 |
| FREON113 | ND | 5.0 | 2.0 |
| 2-CHLOROETHYL VINYL ETHER | ND | 5.0 | 2.0 |
| 2-CHLORO-1,1,1-TRIFLUOROETHANE | ND | 5.0 | 2.0 |
| CHLOROTRIFLUOROETHYLENE | ND | 5.0 | 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 48.7 | 50.00 | 97.5 | 80-120 |
| 4-BROMOFLUOROBENZENE | 48.5 | 50.00 | 96.9 | 74-121 |
| TOLUENE-D8 | 49.1 | 50.00 | 98.1 | 81-117 |
| DIBROMOFLUOROMETHANE | 53.1 | 50.00 | 106 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 5035/8260B

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: VO03D09B VO03D09L VO03D09C
LAB FILE ID: RDB157 RDB152 RDB153
DATE EXTRACTED: 04/11/1211:31 04/11/1208:42 04/11/1209:17 DATE COLLECTED: NA
DATE ANALYZED: 04/11/1211:31 04/11/1208:42 04/11/1209:17 DATE RECEIVED: 04/11/12
PREP. BATCH: VO03D09 VO03D09 VO03D09
CALIB. REF: RBB256 RBB256 RBB256

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 50.0 | 47.9 | 96 | 50.0 | 47.0 | 94 | 2 | 70-130 | 50 |
| 1,1,1-Trichloroethane | ND | 50.0 | 42.8 | 86 | 50.0 | 42.3 | 85 | 1 | 60-130 | 50 |
| 1,1,2,2-Tetrachloroethane | ND | 50.0 | 59.3 | 119 | 50.0 | 54.8 | 110 | 8 | 70-150 | 50 |
| 1,1,2-Trichloroethane | ND | 50.0 | 52.8 | 106 | 50.0 | 50.5 | 101 | 4 | 70-140 | 50 |
| 1,1-Dichloroethane | ND | 50.0 | 50.4 | 101 | 50.0 | 48.8 | 98 | 3 | 70-140 | 50 |
| 1,1-Dichloroethene | ND | 50.0 | 48.2 | 96 | 50.0 | 46.8 | 94 | 3 | 60-130 | 50 |
| 1,1-Dichloropropene | ND | 50.0 | 50.0 | 100 | 50.0 | 49.2 | 98 | 2 | 70-130 | 50 |
| 1,2,3-Trichlorobenzene | ND | 50.0 | 38.7 | 77 | 50.0 | 39.1 | 78 | 1 | 60-150 | 50 |
| 1,2,3-Trichloropropane | ND | 50.0 | 58.8 | 118 | 50.0 | 52.3 | 105 | 12 | 60-150 | 50 |
| 1,2,4-Trichlorobenzene | ND | 50.0 | 43.2 | 86 | 50.0 | 44.4 | 89 | 3 | 60-140 | 50 |
| 1,2,4-Trimethylbenzene | ND | 50.0 | 42.3 | 85 | 50.0 | 41.6 | 83 | 2 | 70-130 | 50 |
| 1,2-Dibromo-3-chloropropane | ND | 50.0 | 51.5 | 103 | 50.0 | 45.9 | 92 | 12 | 50-150 | 50 |
| 1,2-Dichlorobenzene | ND | 50.0 | 51.8 | 104 | 50.0 | 51.0 | 102 | 1 | 70-130 | 50 |
| 1,2-Dichloroethane | ND | 50.0 | 46.2 | 92 | 50.0 | 44.6 | 89 | 4 | 60-140 | 50 |
| 1,2-Dichloropropane | ND | 50.0 | 51.9 | 104 | 50.0 | 51.5 | 103 | 1 | 70-130 | 50 |
| 1,2-Dibromoethane (EDB) | ND | 50.0 | 49.6 | 99 | 50.0 | 47.0 | 94 | 5 | 50-150 | 50 |
| 1,3,5-Trimethylbenzene | ND | 50.0 | 42.4 | 85 | 50.0 | 41.6 | 83 | 2 | 70-130 | 50 |
| 1,3-Dichlorobenzene | ND | 50.0 | 53.6 | 107 | 50.0 | 52.6 | 105 | 2 | 70-130 | 50 |
| 1,3-Dichloropropane | ND | 50.0 | 56.8 | 114 | 50.0 | 53.9 | 108 | 5 | 70-140 | 50 |
| 1,4-Dichlorobenzene | ND | 50.0 | 53.7 | 107 | 50.0 | 52.9 | 106 | 2 | 70-130 | 50 |
| 2,2-Dichloropropane | ND | 50.0 | 42.6 | 85 | 50.0 | 41.2 | 82 | 3 | 40-140 | 50 |
| 2-Chlorotoluene | ND | 50.0 | 44.2 | 88 | 50.0 | 42.9 | 86 | 3 | 70-130 | 50 |
| 4-Chlorotoluene | ND | 50.0 | 44.4 | 89 | 50.0 | 43.6 | 87 | 2 | 70-130 | 50 |
| Benzene | ND | 50.0 | 49.8 | 100 | 50.0 | 49.7 | 99 | 0 | 70-130 | 50 |
| Bromobenzene | ND | 50.0 | 49.3 | 99 | 50.0 | 47.6 | 95 | 4 | 70-130 | 50 |
| Bromochloromethane | ND | 50.0 | 51.9 | 104 | 50.0 | 50.2 | 100 | 3 | 60-150 | 50 |
| Bromodichloromethane | ND | 50.0 | 49.8 | 100 | 50.0 | 47.7 | 95 | 4 | 60-130 | 50 |
| Bromoform | ND | 50.0 | 58.9 | 118 | 50.0 | 54.1 | 108 | 9 | 60-130 | 50 |
| Bromomethane | ND | 50.0 | 44.1 | 88 | 50.0 | 45.0 | 90 | 2 | 40-160 | 50 |
| Carbon Tetrachloride | ND | 50.0 | 41.3 | 83 | 50.0 | 41.6 | 83 | 1 | 50-130 | 50 |
| Chlorobenzene | ND | 50.0 | 48.2 | 96 | 50.0 | 47.0 | 94 | 3 | 70-130 | 50 |
| Chloroethane | ND | 50.0 | 45.5 | 91 | 50.0 | 45.8 | 92 | 1 | 60-150 | 50 |
| Chloroform | ND | 50.0 | 49.6 | 99 | 50.0 | 47.3 | 95 | 5 | 70-130 | 50 |
| Chloromethane | ND | 50.0 | 47.5 | 95 | 50.0 | 49.0 | 98 | 3 | 50-150 | 50 |
| cis-1,2-Dichloroethene | ND | 50.0 | 52.7 | 105 | 50.0 | 51.1 | 102 | 3 | 70-130 | 50 |
| cis-1,3-Dichloropropene | ND | 50.0 | 52.2 | 104 | 50.0 | 51.3 | 103 | 2 | 60-130 | 50 |
| Dibromochloromethane | ND | 50.0 | 54.4 | 109 | 50.0 | 51.6 | 103 | 5 | 70-130 | 50 |
| Dibromomethane | ND | 50.0 | 52.0 | 104 | 50.0 | 50.0 | 100 | 4 | 70-130 | 50 |
| Dichlorodifluoromethane | ND | 50.0 | 39.1 | 78 | 50.0 | 38.0 | 76 | 3 | 50-130 | 50 |
| Ethylbenzene | ND | 50.0 | 47.5 | 95 | 50.0 | 45.7 | 91 | 4 | 70-130 | 50 |
| Hexachlorobutadiene | ND | 50.0 | 36.6 | 73 | 50.0 | 37.8 | 76 | 3 | 50-140 | 50 |
| Isopropyl Benzene | ND | 50.0 | 43.8 | 88 | 50.0 | 42.4 | 85 | 3 | 70-140 | 50 |
| m,p-Xylene | ND | 100 | 91.2 | 91 | 100 | 88.4 | 88 | 3 | 70-140 | 50 |
| Methyl tert-butyl Ether (MTBE) | ND | 50.0 | 54.8 | 110 | 50.0 | 51.4 | 103 | 7 | 60-150 | 50 |
| Methylene Chloride | ND | 50.0 | 54.7 | 109 | 50.0 | 53.6 | 107 | 2 | 70-130 | 50 |
| n-Butylbenzene | ND | 50.0 | 46.9 | 94 | 50.0 | 46.9 | 94 | 0 | 50-150 | 50 |
| n-Propylbenzene | ND | 50.0 | 49.3 | 99 | 50.0 | 48.2 | 96 | 2 | 70-130 | 50 |
| o-Xylene | ND | 50.0 | 45.4 | 91 | 50.0 | 45.0 | 90 | 1 | 70-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | ND | 50.0 | 44.1 | 88 | 50.0 | 43.5 | 87 | 1 | 60-140 | 50 |
| Sec-Butylbenzene | ND | 50.0 | 44.7 | 89 | 50.0 | 44.6 | 89 | 0 | 70-130 | 50 |
| Styrene | ND | 50.0 | 48.7 | 97 | 50.0 | 48.0 | 96 | 1 | 60-140 | 50 |
| Tert-Butylbenzene | ND | 50.0 | 49.0 | 98 | 50.0 | 48.7 | 97 | 1 | 70-130 | 50 |
| Tetrachloroethene | ND | 50.0 | 48.9 | 98 | 50.0 | 48.5 | 97 | 1 | 70-130 | 50 |
| Toluene | ND | 50.0 | 47.1 | 94 | 50.0 | 46.5 | 93 | 1 | 70-130 | 50 |
| Trans-1,2-Dichloroethene | ND | 50.0 | 46.9 | 94 | 50.0 | 45.6 | 91 | 3 | 70-130 | 50 |
| Trans-1,3-Dichloropropene | ND | 50.0 | 53.6 | 107 | 50.0 | 51.4 | 103 | 4 | 60-140 | 50 |
| Trichloroethene | ND | 50.0 | 50.1 | 100 | 50.0 | 49.8 | 100 | 1 | 70-130 | 50 |
| Trichlorofluoromethane | ND | 50.0 | 36.0 | 72 | 50.0 | 36.3 | 73 | 1 | 70-140 | 50 |
| Vinyl Chloride | ND | 50.0 | 53.6 | 107 | 50.0 | 54.3 | 109 | 1 | 60-150 | 50 |
| Acetone | ND | 250 | 274 | 110 | 250 | 244 | 98 | 12 | 40-160 | 50 |
| 2-Butanone (MEK) | ND | 250 | 283 | 113 | 250 | 254 | 102 | 11 | 50-160 | 50 |
| 2-Hexanone | ND | 250 | 269 | 108 | 250 | 246 | 98 | 9 | 60-160 | 50 |
| 4-Methyl-2-Pentanone (MIBK) | ND | 250 | 261 | 104 | 250 | 244 | 98 | 6 | 70-160 | 50 |
| Freon113 | ND | 50.0 | 51.5 | 103 | 50.0 | 50.1 | 100 | 3 | 50-140 | 50 |
| 2-Chloroethyl Vinyl Ether | ND | 50.0 | 56.4 | 113 | 50.0 | 53.8 | 108 | 5 | 50-150 | 50 |
| 2-Chloro-1,1,1-trifluoroethane | ND | 50.0 | 55.2 | 110 | 50.0 | 51.2 | 102 | 7 | 50-150 | 50 |
| Chlorotrifluoroethylene | ND | 50.0 | 55.0 | 110 | 50.0 | 52.7 | 105 | 4 | 50-150 | 50 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 50.0 | 48.3 | 97 | 50.0 | 47.1 | 94 | 80-120 |
| 4-Bromofluorobenzene | 50.0 | 48.5 | 97 | 50.0 | 47.8 | 96 | 74-121 |
| Toluene-d8 | 50.0 | 48.6 | 97 | 50.0 | 49.4 | 99 | 81-117 |
| Dibromofluoromethane | 50.0 | 52.0 | 104 | 50.0 | 51.3 | 103 | 80-120 |

METHOD 5030B/8260B SIM
VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/10/12 22:01 |
| Sample ID: TB-040412 | Date Analyzed: 04/10/12 22:01 |
| Lab Samp ID: D031-16 | Dilution Factor: 1 |
| Lab File ID: RDY033 | Matrix : WATER |
| Ext Btch ID: VOF5D03 | % Moisture : NA |
| Calib. Ref.: RKY092 | Instrument ID : TOF5 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,4-DIOXANE | ND | 4.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 3.99 | 5.000 | 79.9 | 50-150 |

METHOD 5030B/8260B SIM
VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D031 | Date Extracted: 04/10/12 21:30 |
| Sample ID: MBLK1W | Date Analyzed: 04/10/12 21:30 |
| Lab Samp ID: VOF5D03B | Dilution Factor: 1 |
| Lab File ID: RDY032 | Matrix : WATER |
| Ext Btch ID: VOF5D03 | % Moisture : NA |
| Calib. Ref.: RKY092 | Instrument ID : TOF5 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,4-DIOXANE | ND | 4.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 3.85 | 5.000 | 77.0 | 50-150 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: 5030B/8260B SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VOF5D03B | VOF5D03L | VOF5D03C | | |
| LAB FILE ID: | RDY032 | RDY029 | RDY030 | | |
| DATE EXTRACTED: | 04/10/1221:30 | 04/10/1219:59 | 04/10/1220:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/10/1221:30 | 04/10/1219:59 | 04/10/1220:30 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | VOF5D03 | VOF5D03 | VOF5D03 | | |
| CALIB. REF: | RKY092 | RKY092 | RKY092 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ND | 50.0 | 49.9 | 100 | 50.0 | 50.6 | 101 | 1 | 50-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 5.00 | 4.60 | 92 | 5.00 | 4.28 | 86 | 50-150 |

METHOD 5035/8260B SIM
VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/10/12 18:28 |
| Sample ID: SL-020-NBZ-SB-3.0 | Date Analyzed: 04/10/12 18:28 |
| Lab Samp ID: D031-03R | Dilution Factor: 1.02 |
| Lab File ID: RDY026 | Matrix : SOIL |
| Ext Btch ID: VOF5D02 | % Moisture : 10.8 |
| Calib. Ref.: RJY282 | Instrument ID : TOF5 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,4-DIOXANE | ND | 11 | 5.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 20.1 | 22.87 | 87.7 | 50-150 |

METHOD 5035/8260B SIM
VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D031 | Date Extracted: 04/10/12 15:30 |
| Sample ID: MBLK1S | Date Analyzed: 04/10/12 15:30 |
| Lab Samp ID: VOF5D02B | Dilution Factor: 1 |
| Lab File ID: RDY021 | Matrix : SOIL |
| Ext Btch ID: VOF5D02 | % Moisture : NA |
| Calib. Ref.: RJY282 | Instrument ID : TOF5 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,4-DIOXANE | ND | 10 | 5.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 20.3 | 20.00 | 101 | 50-150 |

METHOD 5035/8260B SIM
VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D031 | Date Extracted: 04/10/12 17:58 |
| Sample ID: MBLK2S | Date Analyzed: 04/10/12 17:58 |
| Lab Samp ID: VPD009SB | Dilution Factor: 1 |
| Lab File ID: RDY025 | Matrix : SOIL |
| Ext Btch ID: VOF5D02 | % Moisture : NA |
| Calib. Ref.: RJY282 | Instrument ID : TOF5 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,4-DIOXANE | ND | 10 | 5.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 19.9 | 20.00 | 99.4 | 50-150 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: 5035/8260B SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | VOF5D02B | VOF5D02L | VOF5D02C | | |
| LAB FILE ID: | RDY021 | RDY018 | RDY019 | | |
| DATE EXTRACTED: | 04/10/1215:30 | 04/10/1213:59 | 04/10/1214:29 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/10/1215:30 | 04/10/1213:59 | 04/10/1214:29 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | VOF5D02 | VOF5D02 | VOF5D02 | | |
| CALIB. REF: | RJY282 | RJY282 | RJY282 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ND | 200 | 223 | 112 | 200 | 220 | 110 | 2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 20.0 | 21.6 | 108 | 20.0 | 18.1 | 91 | 50-150 |

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/09/12 14:30 |
| Sample ID: EB-NBZ-SB-040412 | Date Analyzed: 04/12/12 19:45 |
| Lab Samp ID: D031-01 | Dilution Factor: 1.05 |
| Lab File ID: RDL114 | Matrix : WATER |
| Ext Btch ID: SVD018W | % Moisture : NA |
| Calib. Ref.: RBL115 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 11 | 5.2 |
| 1,2-DICHLOROBENZENE | ND | 11 | 5.2 |
| 1,3-DICHLOROBENZENE | ND | 11 | 5.2 |
| 1,4-DICHLOROBENZENE | ND | 11 | 5.2 |
| 2,4,5-TRICHLOROPHENOL | ND | 11 | 5.2 |
| 2,4,6-TRICHLOROPHENOL | ND | 11 | 5.2 |
| 2,4-DICHLOROPHENOL | ND | 11 | 5.2 |
| 2,4-DIMETHYLPHENOL | ND | 11 | 5.2 |
| 2,4-DINITROPHENOL | ND | 21 | 5.2 |
| 2,4-DINITROTOLUENE | ND | 11 | 5.2 |
| 2,6-DINITROTOLUENE | ND | 11 | 5.2 |
| 2-CHLORONAPHTHALENE | ND | 11 | 5.2 |
| 2-CHLOROPHENOL | ND | 11 | 5.2 |
| 2-METHYLNAPHTHALENE | ND | 11 | 5.2 |
| 2-METHYLPHENOL | ND | 11 | 5.2 |
| 2-NITROANILINE | ND | 11 | 5.2 |
| 2-NITROPHENOL | ND | 11 | 5.2 |
| 3,3'-DICHLOROBENZIDINE | ND | 11 | 5.2 |
| 3-NITROANILINE | ND | 11 | 5.2 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 21 | 5.2 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 11 | 5.2 |
| 4-CHLORO-3-METHYLPHENOL | ND | 11 | 5.2 |
| 4-CHLOROANILINE | ND | 11 | 5.2 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 11 | 5.2 |
| 4-METHYLPHENOL (1) | ND | 11 | 5.2 |
| 4-NITROANILINE | ND | 11 | 5.2 |
| 4-NITROPHENOL | ND | 21 | 5.2 |
| ACENAPHTHENE | ND | 11 | 5.2 |
| ACENAPHTHYLENE | ND | 11 | 5.2 |
| ANTHRACENE | ND | 11 | 5.2 |
| BENZO(A)ANTHRACENE | ND | 11 | 5.2 |
| BENZO(A)PYRENE | ND | 11 | 5.2 |
| BENZO(B)FLUORANTHENE | ND | 11 | 5.2 |
| BENZO(K)FLUORANTHENE | ND | 11 | 5.2 |
| BENZO(G,H,I)PERYLENE | ND | 11 | 5.2 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 11 | 5.2 |
| BIS(2-CHLOROETHYL)ETHER | ND | 11 | 5.2 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 11 | 5.2 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 21 | 5.2 |
| BUTYLBENZYLPHTHALATE | ND | 11 | 5.2 |
| CHRYSENE | ND | 11 | 5.2 |
| DI-N-BUTYLPHTHALATE | ND | 11 | 5.2 |
| DI-N-OCTYLPHTHALATE | ND | 11 | 5.2 |
| DIBENZO(A,H)ANTHRACENE | ND | 11 | 5.2 |
| DIBENZOFURAN | ND | 11 | 5.2 |
| DIETHYLPHTHALATE | ND | 11 | 5.2 |
| DIMETHYLPHTHALATE | ND | 11 | 5.2 |
| FLUORANTHENE | ND | 11 | 5.2 |
| FLUORENE | ND | 11 | 5.2 |
| HEXACHLOROBENZENE | ND | 11 | 5.2 |
| HEXACHLOROBUTADIENE | ND | 11 | 5.2 |
| HEXACHLOROCYCLOPENTADIENE | ND | 21 | 5.2 |
| HEXACHLOROETHANE | ND | 11 | 5.2 |
| INDENO(1,2,3-CD)PYRENE | ND | 11 | 5.2 |
| ISOPHORONE | ND | 11 | 5.2 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 11 | 5.2 |
| N-NITROSODIPHENYLAMINE (2) | ND | 11 | 5.2 |
| NAPHTHALENE | ND | 11 | 5.2 |
| NITROBENZENE | ND | 11 | 5.2 |
| PENTACHLOROPHENOL | ND | 21 | 5.2 |
| PHENANTHRENE | ND | 11 | 5.2 |
| PHENOL | ND | 11 | 5.2 |
| PYRENE | ND | 11 | 5.2 |
| BENZYL ALCOHOL | ND | 11 | 5.2 |
| 1-METHYLNAPHTHALENE | ND | 11 | 5.2 |
| 1,2-DIPHENYLHYDRAZINE | ND | 11 | 5.2 |
| 3,5-DIMETHYLPHENOL | ND | 21 | 5.2 |
| ANILINE | ND | 21 | 11 |
| BENZIDINE | ND | 52 | 21 |
| BENZOIC ACID | ND | 42 | 21 |
| CARBAZOLE | ND | 11 | 5.2 |
| N-NITROSODIMETHYLAMINE | ND | 11 | 5.2 |
| TETRALIN | ND | 11 | 11 |
| 2-BUTOXYETHANOL | ND | 11 | 11 |
| 2-PHENOXYETHANOL | ND | 11 | 11 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 52.8 | 63.00 | 83.8 | 30-130 |
| 2-FLUOROBIPHENYL | 16.8 | 21.00 | 80.2 | 45-130 |
| 2-FLUOROPHENOL | 39.5 | 63.00 | 62.7 | 20-130 |
| NITROBENZENE-D5 | 16.9 | 21.00 | 80.4 | 40-130 |
| PHENOL-D5 | 46.7 | 63.00 | 74.2 | 20-120 |
| TERPHENYL-D14 | 21.4 | 21.00 | 102 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/09/12 14:30 |
| Sample ID: EB-NBZ-SS-040412 | Date Analyzed: 04/12/12 20:11 |
| Lab Samp ID: D031-02 | Dilution Factor: .97 |
| Lab File ID: RDL115 | Matrix : WATER |
| Ext Btch ID: SVD018W | % Moisture : NA |
| Calib. Ref.: RBL115 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 9.7 | 4.9 |
| 1,2-DICHLOROBENZENE | ND | 9.7 | 4.9 |
| 1,3-DICHLOROBENZENE | ND | 9.7 | 4.9 |
| 1,4-DICHLOROBENZENE | ND | 9.7 | 4.9 |
| 2,4,5-TRICHLOROPHENOL | ND | 9.7 | 4.9 |
| 2,4,6-TRICHLOROPHENOL | ND | 9.7 | 4.9 |
| 2,4-DICHLOROPHENOL | ND | 9.7 | 4.9 |
| 2,4-DIMETHYLPHENOL | ND | 9.7 | 4.9 |
| 2,4-DINITROPHENOL | ND | 19 | 4.9 |
| 2,4-DINITROTOLUENE | ND | 9.7 | 4.9 |
| 2,6-DINITROTOLUENE | ND | 9.7 | 4.9 |
| 2-CHLORONAPHTHALENE | ND | 9.7 | 4.9 |
| 2-CHLOROPHENOL | ND | 9.7 | 4.9 |
| 2-METHYLNAPHTHALENE | ND | 9.7 | 4.9 |
| 2-METHYLPHENOL | ND | 9.7 | 4.9 |
| 2-NITROANILINE | ND | 9.7 | 4.9 |
| 2-NITROPHENOL | ND | 9.7 | 4.9 |
| 3,3'-DICHLOROBENZIDINE | ND | 9.7 | 4.9 |
| 3-NITROANILINE | ND | 9.7 | 4.9 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 19 | 4.9 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 9.7 | 4.9 |
| 4-CHLORO-3-METHYLPHENOL | ND | 9.7 | 4.9 |
| 4-CHLOROANILINE | ND | 9.7 | 4.9 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 9.7 | 4.9 |
| 4-METHYLPHENOL (1) | ND | 9.7 | 4.9 |
| 4-NITROANILINE | ND | 9.7 | 4.9 |
| 4-NITROPHENOL | ND | 19 | 4.9 |
| ACENAPHTHENE | ND | 9.7 | 4.9 |
| ACENAPHTHYLENE | ND | 9.7 | 4.9 |
| ANTHRACENE | ND | 9.7 | 4.9 |
| BENZO(A)ANTHRACENE | ND | 9.7 | 4.9 |
| BENZO(A)PYRENE | ND | 9.7 | 4.9 |
| BENZO(B)FLUORANTHENE | ND | 9.7 | 4.9 |
| BENZO(K)FLUORANTHENE | ND | 9.7 | 4.9 |
| BENZO(G,H,I)PERYLENE | ND | 9.7 | 4.9 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 9.7 | 4.9 |
| BIS(2-CHLOROETHYL)ETHER | ND | 9.7 | 4.9 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 9.7 | 4.9 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 19 | 4.9 |
| BUTYLBENZYLPHTHALATE | ND | 9.7 | 4.9 |
| CHRYSENE | ND | 9.7 | 4.9 |
| DI-N-BUTYLPHTHALATE | ND | 9.7 | 4.9 |
| DI-N-OCTYLPHTHALATE | ND | 9.7 | 4.9 |
| DIBENZO(A,H)ANTHRACENE | ND | 9.7 | 4.9 |
| DIBENZOFURAN | ND | 9.7 | 4.9 |
| DIETHYLPHTHALATE | ND | 9.7 | 4.9 |
| DIMETHYLPHTHALATE | ND | 9.7 | 4.9 |
| FLUORANTHENE | ND | 9.7 | 4.9 |
| FLUORENE | ND | 9.7 | 4.9 |
| HEXACHLOROBENZENE | ND | 9.7 | 4.9 |
| HEXACHLOROBUTADIENE | ND | 9.7 | 4.9 |
| HEXACHLOROCYCLOPENTADIENE | ND | 19 | 4.9 |
| HEXACHLOROETHANE | ND | 9.7 | 4.9 |
| INDENO(1,2,3-CD)PYRENE | ND | 9.7 | 4.9 |
| ISOPHORONE | ND | 9.7 | 4.9 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 9.7 | 4.9 |
| N-NITROSODIPHENYLAMINE (2) | ND | 9.7 | 4.9 |
| NAPHTHALENE | ND | 9.7 | 4.9 |
| NITROBENZENE | ND | 9.7 | 4.9 |
| PENTACHLOROPHENOL | ND | 19 | 4.9 |
| PHENANTHRENE | ND | 9.7 | 4.9 |
| PHENOL | ND | 9.7 | 4.9 |
| PYRENE | ND | 9.7 | 4.9 |
| BENZYL ALCOHOL | ND | 9.7 | 4.9 |
| 1-METHYLNAPHTHALENE | ND | 9.7 | 4.9 |
| 1,2-DIPHENYLHYDRAZINE | ND | 9.7 | 4.9 |
| 3,5-DIMETHYLPHENOL | ND | 19 | 4.9 |
| ANILINE | ND | 19 | 9.7 |
| BENZIDINE | ND | 48 | 19 |
| BENZOIC ACID | ND | 39 | 19 |
| CARBAZOLE | ND | 9.7 | 4.9 |
| N-NITROSODIMETHYLAMINE | ND | 9.7 | 4.9 |
| TETRALIN | ND | 9.7 | 9.7 |
| 2-BUTOXYETHANOL | ND | 9.7 | 9.7 |
| 2-PHENOXYETHANOL | ND | 9.7 | 9.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 43.7 | 58.20 | 75.0 | 30-130 |
| 2-FLUOROBIPHENYL | 15.6 | 19.40 | 80.6 | 45-130 |
| 2-FLUOROPHENOL | 37.8 | 58.20 | 64.9 | 20-130 |
| NITROBENZENE-D5 | 15.0 | 19.40 | 77.3 | 40-130 |
| PHENOL-D5 | 42.5 | 58.20 | 73.1 | 20-120 |
| TERPHENYL-D14 | 19.6 | 19.40 | 101 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D031 | Date Extracted: 04/09/12 14:30 |
| Sample ID: MBLK1W | Date Analyzed: 04/12/12 18:27 |
| Lab Samp ID: SVD018WB | Dilution Factor: 1 |
| Lab File ID: RDL111 | Matrix : WATER |
| Ext Btch ID: SVD018W | % Moisture : NA |
| Calib. Ref.: RBL115 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 10 | 5.0 |
| 1,2-DICHLOROBENZENE | ND | 10 | 5.0 |
| 1,3-DICHLOROBENZENE | ND | 10 | 5.0 |
| 1,4-DICHLOROBENZENE | ND | 10 | 5.0 |
| 2,4,5-TRICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4,6-TRICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4-DICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4-DIMETHYLPHENOL | ND | 10 | 5.0 |
| 2,4-DINITROPHENOL | ND | 20 | 5.0 |
| 2,4-DINITROTOLUENE | ND | 10 | 5.0 |
| 2,6-DINITROTOLUENE | ND | 10 | 5.0 |
| 2-CHLORONAPHTHALENE | ND | 10 | 5.0 |
| 2-CHLOROPHENOL | ND | 10 | 5.0 |
| 2-METHYLNAPHTHALENE | ND | 10 | 5.0 |
| 2-METHYLPHENOL | ND | 10 | 5.0 |
| 2-NITROANILINE | ND | 10 | 5.0 |
| 2-NITROPHENOL | ND | 10 | 5.0 |
| 3,3'-DICHLOROBENZIDINE | ND | 10 | 5.0 |
| 3-NITROANILINE | ND | 10 | 5.0 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 20 | 5.0 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 10 | 5.0 |
| 4-CHLORO-3-METHYLPHENOL | ND | 10 | 5.0 |
| 4-CHLOROANILINE | ND | 10 | 5.0 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 10 | 5.0 |
| 4-METHYLPHENOL (1) | ND | 10 | 5.0 |
| 4-NITROANILINE | ND | 10 | 5.0 |
| 4-NITROPHENOL | ND | 20 | 5.0 |
| ACENAPHTHENE | ND | 10 | 5.0 |
| ACENAPHTHYLENE | ND | 10 | 5.0 |
| ANTHRACENE | ND | 10 | 5.0 |
| BENZO(A)ANTHRACENE | ND | 10 | 5.0 |
| BENZO(A)PYRENE | ND | 10 | 5.0 |
| BENZO(B)FLUORANTHENE | ND | 10 | 5.0 |
| BENZO(K)FLUORANTHENE | ND | 10 | 5.0 |
| BENZO(G,H,I)PERYLENE | ND | 10 | 5.0 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 10 | 5.0 |
| BIS(2-CHLOROETHYL)ETHER | ND | 10 | 5.0 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 10 | 5.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 20 | 5.0 |
| BUTYLBENZYLPHTHALATE | ND | 10 | 5.0 |
| CHRYSENE | ND | 10 | 5.0 |
| DI-N-BUTYLPHTHALATE | ND | 10 | 5.0 |
| DI-N-OCTYLPHTHALATE | ND | 10 | 5.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 10 | 5.0 |
| DIBENZOFURAN | ND | 10 | 5.0 |
| DIETHYLPHTHALATE | ND | 10 | 5.0 |
| DIMETHYLPHTHALATE | ND | 10 | 5.0 |
| FLUORANTHENE | ND | 10 | 5.0 |
| FLUORENE | ND | 10 | 5.0 |
| HEXACHLOROBENZENE | ND | 10 | 5.0 |
| HEXACHLOROBUTADIENE | ND | 10 | 5.0 |
| HEXACHLOROCYCLOPENTADIENE | ND | 20 | 5.0 |
| HEXACHLOROETHANE | ND | 10 | 5.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 10 | 5.0 |
| ISOPHORONE | ND | 10 | 5.0 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 10 | 5.0 |
| N-NITROSODIPHENYLAMINE (2) | ND | 10 | 5.0 |
| NAPHTHALENE | ND | 10 | 5.0 |
| NITROBENZENE | ND | 10 | 5.0 |
| PENTACHLOROPHENOL | ND | 20 | 5.0 |
| PHENANTHRENE | ND | 10 | 5.0 |
| PHENOL | ND | 10 | 5.0 |
| PYRENE | ND | 10 | 5.0 |
| BENZYL ALCOHOL | ND | 10 | 5.0 |
| 1-METHYLNAPHTHALENE | ND | 10 | 5.0 |
| 1,2-DIPHENYLHYDRAZINE | ND | 10 | 5.0 |
| 3,5-DIMETHYLPHENOL | ND | 20 | 5.0 |
| ANILINE | ND | 20 | 10 |
| BENZIDINE | ND | 50 | 20 |
| BENZOIC ACID | ND | 40 | 20 |
| CARBAZOLE | ND | 10 | 5.0 |
| N-NITROSODIMETHYLAMINE | ND | 10 | 5.0 |
| TETRALIN | ND | 10 | 10 |
| 2-BUTOXYETHANOL | ND | 10 | 10 |
| 2-PHENOXYETHANOL | ND | 10 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 52.3 | 60.00 | 87.2 | 30-130 |
| 2-FLUOROBIPHENYL | 14.9 | 20.00 | 74.3 | 45-130 |
| 2-FLUOROPHENOL | 39.8 | 60.00 | 66.3 | 20-130 |
| NITROBENZENE-D5 | 14.2 | 20.00 | 70.8 | 40-130 |
| PHENOL-D5 | 44.2 | 60.00 | 73.7 | 20-120 |
| TERPHENYL-D14 | 22.7 | 20.00 | 113 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 3520C/8270C

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: SVD018WB SVD018WL SVD018WC
LAB FILE ID: RDL111 RDL112 RDL113
DATE EXTRACTED: 04/09/1214:30 04/09/1214:30 04/09/1214:30 DATE COLLECTED: NA
DATE ANALYZED: 04/12/1218:27 04/12/1218:53 04/12/1219:19 DATE RECEIVED: 04/09/12
PREP. BATCH: SVD018W SVD018W SVD018W
CALIB. REF: RBL115 RBL115 RBL115

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 40.0 | 30.5 | 76 | 40.0 | 31.9 | 80 | 5 | 30-130 | 30 |
| 1,2-Dichlorobenzene | ND | 40.0 | 28.3 | 71 | 40.0 | 28.5 | 71 | 1 | 30-130 | 30 |
| 1,3-Dichlorobenzene | ND | 40.0 | 23.6 | 59 | 40.0 | 25.2 | 63 | 7 | 30-130 | 30 |
| 1,4-Dichlorobenzene | ND | 40.0 | 28.1 | 70 | 40.0 | 29.0 | 72 | 3 | 30-130 | 30 |
| 2,4,5-Trichlorophenol | ND | 40.0 | 33.2 | 83 | 40.0 | 35.6 | 89 | 7 | 30-130 | 30 |
| 2,4,6-Trichlorophenol | ND | 40.0 | 35.2 | 88 | 40.0 | 34.1 | 85 | 3 | 30-130 | 30 |
| 2,4-Dichlorophenol | ND | 40.0 | 32.1 | 80 | 40.0 | 35.5 | 89 | 10 | 40-130 | 30 |
| 2,4-Dimethylphenol | ND | 40.0 | 32.1 | 80 | 40.0 | 33.2 | 83 | 3 | 30-130 | 30 |
| 2,4-Dinitrophenol | ND | 40.0 | 38.9 | 97 | 40.0 | 41.7 | 104 | 7 | 30-130 | 30 |
| 2,4-Dinitrotoluene | ND | 40.0 | 42.3 | 106 | 40.0 | 43.5 | 109 | 3 | 40-130 | 30 |
| 2,6-Dinitrotoluene | ND | 40.0 | 38.3 | 96 | 40.0 | 38.5 | 96 | 0 | 40-130 | 30 |
| 2-Chloronaphthalene | ND | 40.0 | 29.9 | 75 | 40.0 | 32.6 | 81 | 9 | 40-130 | 30 |
| 2-Chlorophenol | ND | 40.0 | 27.2 | 68 | 40.0 | 29.2 | 73 | 7 | 30-130 | 30 |
| 2-Methylnaphthalene | ND | 40.0 | 35.2 | 88 | 40.0 | 38.2 | 95 | 8 | 40-130 | 30 |
| 2-Methylphenol | ND | 40.0 | 26.9 | 67 | 40.0 | 29.6 | 74 | 9 | 30-130 | 30 |
| 2-Nitroaniline | ND | 40.0 | 28.0 | 70 | 40.0 | 28.2 | 70 | 1 | 40-130 | 30 |
| 2-Nitrophenol | ND | 40.0 | 36.7 | 92 | 40.0 | 40.0 | 100 | 9 | 40-130 | 30 |
| 3,3'-Dichlorobenzidine | ND | 40.0 | 34.6 | 87 | 40.0 | 37.9 | 95 | 9 | 20-140 | 30 |
| 3-Nitroaniline | ND | 40.0 | 34.3 | 86 | 40.0 | 35.4 | 88 | 3 | 30-130 | 30 |
| 4,6-Dinitro-2-Methylphenol | ND | 40.0 | 40.8 | 102 | 40.0 | 43.5 | 109 | 6 | 40-130 | 30 |
| 4-Bromophenyl-phenylether | ND | 40.0 | 36.4 | 91 | 40.0 | 38.1 | 95 | 4 | 50-130 | 30 |
| 4-Chloro-3-Methylphenol | ND | 40.0 | 32.7 | 82 | 40.0 | 34.0 | 85 | 4 | 30-130 | 30 |
| 4-Chloroaniline | ND | 40.0 | 27.4 | 68 | 40.0 | 29.3 | 73 | 7 | 30-130 | 30 |
| 4-Chlorophenyl-phenylether | ND | 40.0 | 39.3 | 98 | 40.0 | 38.1 | 95 | 3 | 50-130 | 30 |
| 4-Methylphenol | ND | 40.0 | 28.4 | 71 | 40.0 | 30.0 | 75 | 5 | 30-130 | 30 |
| 4-Nitroaniline | ND | 40.0 | 37.5 | 94 | 40.0 | 38.5 | 96 | 3 | 30-130 | 30 |
| 4-Nitrophenol | ND | 40.0 | 34.7 | 87 | 40.0 | 37.1 | 93 | 7 | 30-130 | 30 |
| Acenaphthene | ND | 40.0 | 33.0 | 83 | 40.0 | 35.2 | 88 | 6 | 40-130 | 30 |
| Acenaphthylene | ND | 40.0 | 33.6 | 84 | 40.0 | 33.9 | 85 | 1 | 40-130 | 30 |
| Anthracene | ND | 40.0 | 37.7 | 94 | 40.0 | 39.1 | 98 | 4 | 50-130 | 30 |
| Benzo(a)anthracene | ND | 40.0 | 34.4 | 86 | 40.0 | 36.1 | 90 | 5 | 50-130 | 30 |
| Benzo(a)pyrene | ND | 40.0 | 36.9 | 92 | 40.0 | 35.8 | 89 | 3 | 50-130 | 30 |
| Benzo(b)fluoranthene | ND | 40.0 | 39.7 | 99 | 40.0 | 39.3 | 98 | 1 | 40-140 | 30 |
| Benzo(k)fluoranthene | ND | 40.0 | 40.9 | 102 | 40.0 | 39.8 | 99 | 3 | 40-130 | 30 |
| Benzo(g,h,i)perylene | ND | 40.0 | 42.1 | 105 | 40.0 | 44.4 | 111 | 5 | 40-130 | 30 |
| bis(2-Chloroethoxy)methane | ND | 40.0 | 29.1 | 73 | 40.0 | 30.8 | 77 | 6 | 40-130 | 30 |
| bis(2-Chloroethyl)ether | ND | 40.0 | 29.1 | 73 | 40.0 | 30.4 | 76 | 4 | 30-130 | 30 |
| bis(2-Chloroisopropyl)ether | ND | 40.0 | 23.2 | 58 | 40.0 | 26.1 | 65 | 11 | 20-130 | 30 |
| bis(2-Ethylhexyl)phthalate | ND | 40.0 | 38.0 | 95 | 40.0 | 38.7 | 97 | 2 | 20-140 | 30 |
| Butylbenzylphthalate | ND | 40.0 | 36.7 | 92 | 40.0 | 38.3 | 96 | 4 | 40-130 | 30 |
| Chrysene | ND | 40.0 | 37.8 | 94 | 40.0 | 40.4 | 101 | 7 | 40-130 | 30 |
| Di-n-butylphthalate | ND | 40.0 | 36.6 | 91 | 40.0 | 39.9 | 100 | 9 | 30-160 | 30 |
| Di-n-octylphthalate | ND | 40.0 | 38.5 | 96 | 40.0 | 37.6 | 94 | 2 | 20-150 | 30 |
| Dibenzo(a,h)anthracene | ND | 40.0 | 44.8 | 112 | 40.0 | 45.3 | 113 | 1 | 40-130 | 30 |
| Dibenzofuran | ND | 40.0 | 33.7 | 84 | 40.0 | 34.7 | 87 | 3 | 40-130 | 30 |
| Diethylphthalate | ND | 40.0 | 36.0 | 90 | 40.0 | 36.7 | 92 | 2 | 30-140 | 30 |
| Dimethylphthalate | ND | 40.0 | 35.7 | 89 | 40.0 | 34.9 | 87 | 2 | 30-130 | 30 |
| Fluoranthene | ND | 40.0 | 41.1 | 103 | 40.0 | 41.1 | 103 | 0 | 40-130 | 30 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 40.0 | 36.4 | 91 | 40.0 | 37.1 | 93 | 2 | 40-130 | 30 |
| Hexachlorobenzene | ND | 40.0 | 33.4 | 84 | 40.0 | 33.1 | 83 | 1 | 30-130 | 30 |
| Hexachlorobutadiene | ND | 40.0 | 26.1 | 65 | 40.0 | 28.9 | 72 | 11 | 10-130 | 30 |
| Hexachlorocyclopentadiene | ND | 40.0 | 21.3 | 53 | 40.0 | 20.3 | 51 | 5 | 10-130 | 30 |
| Hexachloroethane | ND | 40.0 | 25.1 | 63 | 40.0 | 26.4 | 66 | 5 | 20-130 | 30 |
| Indeno(1,2,3-cd)pyrene | ND | 40.0 | 42.7 | 107 | 40.0 | 43.6 | 109 | 2 | 50-130 | 30 |
| Isophorone | ND | 40.0 | 32.4 | 81 | 40.0 | 33.9 | 85 | 5 | 40-130 | 30 |
| n-Nitroso-di-n-propylamine | ND | 40.0 | 22.9 | 57 | 40.0 | 24.1 | 60 | 5 | 30-130 | 30 |
| n-Nitrosodiphenylamine | ND | 40.0 | 30.0 | 75 | 40.0 | 29.8 | 74 | 1 | 10-150 | 30 |
| Naphthalene | ND | 40.0 | 32.0 | 80 | 40.0 | 33.4 | 84 | 4 | 20-130 | 30 |
| Nitrobenzene | ND | 40.0 | 28.6 | 72 | 40.0 | 31.9 | 80 | 11 | 30-130 | 30 |
| Pentachlorophenol | ND | 40.0 | 34.5 | 86 | 40.0 | 37.1 | 93 | 7 | 30-130 | 30 |
| Phenanthrene | ND | 40.0 | 39.2 | 98 | 40.0 | 39.4 | 98 | 1 | 40-130 | 30 |
| Phenol | ND | 40.0 | 27.2 | 68 | 40.0 | 27.4 | 68 | 1 | 20-130 | 30 |
| Pyrene | ND | 40.0 | 43.0 | 107 | 40.0 | 44.4 | 111 | 3 | 40-130 | 30 |
| Benzyl Alcohol | ND | 40.0 | 29.1 | 73 | 40.0 | 31.2 | 78 | 7 | 30-130 | 30 |
| 1-Methylnaphthalene | ND | 40.0 | 37.7 | 94 | 40.0 | 40.5 | 101 | 7 | 40-130 | 30 |
| 1,2-Diphenylhydrazine | ND | 40.0 | 26.3 | 66 | 40.0 | 27.8 | 69 | 5 | 30-130 | 30 |
| 3,5-Dimethylphenol | ND | 40.0 | 29.2 | 73 | 40.0 | 28.7 | 72 | 2 | 20-150 | 30 |
| Aniline | ND | 40.0 | 21.1 | 53 | 40.0 | 22.7 | 57 | 8 | 10-130 | 30 |
| Benzidine | ND | 80.0 | 42.8J | 54 | 80.0 | 47.1J | 59 | 10 | 20-130 | 30 |
| Benzoic Acid | ND | 80.0 | 54.3 | 68 | 80.0 | 59.3 | 74 | 9 | 10-130 | 30 |
| Carbazole | ND | 40.0 | 37.1 | 93 | 40.0 | 40.0 | 100 | 7 | 50-130 | 30 |
| N-Nitrosodimethylamine | ND | 40.0 | 30.1 | 75 | 40.0 | 29.9 | 75 | 1 | 30-150 | 30 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 60.0 | 53.7 | 90 | 60.0 | 53.8 | 90 | 30-130 |
| 2-Fluorobiphenyl | 20.0 | 15.2 | 76 | 20.0 | 15.6 | 78 | 45-130 |
| 2-Fluorophenol | 60.0 | 36.3 | 61 | 60.0 | 36.1 | 60 | 20-130 |
| Nitrobenzene-d5 | 20.0 | 13.7 | 69 | 20.0 | 15.0 | 75 | 40-130 |
| Phenol-d5 | 60.0 | 40.6 | 68 | 60.0 | 42.7 | 71 | 20-120 |
| Terphenyl-d14 | 20.0 | 20.1 | 101 | 20.0 | 21.9 | 109 | 45-135 |

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-020-NBZ-SB-2.5-3.5 | Date Analyzed: 04/17/12 20:16 |
| Lab Samp ID: D031-04 | Dilution Factor: 1 |
| Lab File ID: RDH281 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 11.7 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 95 |
| 1,2-DICHLOROBENZENE | ND | 190 | 95 |
| 1,3-DICHLOROBENZENE | ND | 190 | 95 |
| 1,4-DICHLOROBENZENE | ND | 190 | 95 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 95 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 95 |
| 2,6-DINITROTOLUENE | ND | 190 | 95 |
| 2-CHLORONAPHTHALENE | ND | 190 | 95 |
| 2-CHLOROPHENOL | ND | 190 | 95 |
| 2-METHYLNAPHTHALENE | ND | 190 | 95 |
| 2-METHYLPHENOL | ND | 190 | 95 |
| 2-NITROANILINE | ND | 190 | 95 |
| 2-NITROPHENOL | ND | 190 | 95 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 95 |
| 3-NITROANILINE | ND | 190 | 95 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 95 |
| 4-CHLOROANILINE | ND | 190 | 95 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-METHYLPHENOL (1) | ND | 190 | 95 |
| 4-NITROANILINE | ND | 190 | 95 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 95 |
| ACENAPHTHYLENE | ND | 190 | 95 |
| ANTHRACENE | ND | 190 | 95 |
| BENZO(A)ANTHRACENE | ND | 190 | 95 |
| BENZO(A)PYRENE | ND | 190 | 95 |
| BENZO(B)FLUORANTHENE | ND | 190 | 95 |
| BENZO(K)FLUORANTHENE | ND | 190 | 95 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 95 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 95 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 95 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 95 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 95 |
| CHRYSENE | ND | 190 | 95 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 95 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 95 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 95 |
| DIBENZOFURAN | ND | 190 | 95 |
| DIETHYLPHTHALATE | ND | 190 | 95 |
| DIMETHYLPHTHALATE | ND | 190 | 95 |
| FLUORANTHENE | ND | 190 | 95 |
| FLUORENE | ND | 190 | 95 |
| HEXACHLOROBENZENE | ND | 190 | 95 |
| HEXACHLOROBUTADIENE | ND | 190 | 95 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 95 |
| HEXACHLOROETHANE | ND | 190 | 95 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 95 |
| ISOPHORONE | ND | 190 | 95 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 95 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 95 |
| NAPHTHALENE | ND | 190 | 95 |
| NITROBENZENE | ND | 190 | 95 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 95 |
| PHENOL | ND | 190 | 95 |
| PYRENE | ND | 190 | 95 |
| BENZYL ALCOHOL | ND | 190 | 95 |
| 1-METHYLNAPHTHALENE | ND | 190 | 95 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 95 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 95 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 940 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 95 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 95 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 622 | 1133 | 54.9 | 35-130 |
| 2-FLUOROBIPHENYL | 167 | 377.5 | 44.3* | 45-130 |
| 2-FLUOROPHENOL | 547 | 1133 | 48.3 | 25-130 |
| NITROBENZENE-D5 | 165 | 377.5 | 43.8 | 40-130 |
| PHENOL-D5 | 604 | 1133 | 53.3 | 25-120 |
| TERPHENYL-D14 | 275 | 377.5 | 72.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-020-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 20:35 |
| Lab Samp ID: D031-05 | Dilution Factor: 1 |
| Lab File ID: RDH282 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 9.7 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 93 |
| 1,2-DICHLOROBENZENE | ND | 180 | 93 |
| 1,3-DICHLOROBENZENE | ND | 180 | 93 |
| 1,4-DICHLOROBENZENE | ND | 180 | 93 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 93 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 93 |
| 2,6-DINITROTOLUENE | ND | 180 | 93 |
| 2-CHLORONAPHTHALENE | ND | 180 | 93 |
| 2-CHLOROPHENOL | ND | 180 | 93 |
| 2-METHYLNAPHTHALENE | ND | 180 | 93 |
| 2-METHYLPHENOL | ND | 180 | 93 |
| 2-NITROANILINE | ND | 180 | 93 |
| 2-NITROPHENOL | ND | 180 | 93 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 93 |
| 3-NITROANILINE | ND | 180 | 93 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 93 |
| 4-CHLOROANILINE | ND | 180 | 93 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-METHYLPHENOL (1) | ND | 180 | 93 |
| 4-NITROANILINE | ND | 180 | 93 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 93 |
| ACENAPHTHYLENE | ND | 180 | 93 |
| ANTHRACENE | ND | 180 | 93 |
| BENZO(A)ANTHRACENE | ND | 180 | 93 |
| BENZO(A)PYRENE | ND | 180 | 93 |
| BENZO(B)FLUORANTHENE | ND | 180 | 93 |
| BENZO(K)FLUORANTHENE | ND | 180 | 93 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 93 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 93 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 93 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 93 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 93 |
| CHRYSENE | ND | 180 | 93 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 93 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 93 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 93 |
| DIBENZOFURAN | ND | 180 | 93 |
| DIETHYLPHTHALATE | ND | 180 | 93 |
| DIMETHYLPHTHALATE | ND | 180 | 93 |
| FLUORANTHENE | ND | 180 | 93 |
| FLUORENE | ND | 180 | 93 |
| HEXACHLOROBENZENE | ND | 180 | 93 |
| HEXACHLOROBUTADIENE | ND | 180 | 93 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 93 |
| HEXACHLOROETHANE | ND | 180 | 93 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 93 |
| ISOPHORONE | ND | 180 | 93 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 93 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 93 |
| NAPHTHALENE | ND | 180 | 93 |
| NITROBENZENE | ND | 180 | 93 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 93 |
| PHENOL | ND | 180 | 93 |
| PYRENE | ND | 180 | 93 |
| BENZYL ALCOHOL | ND | 180 | 93 |
| 1-METHYLNAPHTHALENE | ND | 180 | 93 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 93 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 93 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 920 | 470 |
| BENZOIC ACID | ND | 740 | 370 |
| CARBAZOLE | ND | 180 | 93 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 93 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 891 | 1107 | 80.4 | 35-130 |
| 2-FLUOROBIPHENYL | 267 | 369.1 | 72.3 | 45-130 |
| 2-FLUOROPHENOL | 685 | 1107 | 61.8 | 25-130 |
| NITROBENZENE-D5 | 234 | 369.1 | 63.5 | 40-130 |
| PHENOL-D5 | 820 | 1107 | 74.1 | 25-120 |
| TERPHENYL-D14 | 300 | 369.1 | 81.3 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-097-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 20:53 |
| Lab Samp ID: D031-06 | Dilution Factor: 1 |
| Lab File ID: RDH283 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 6.7 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 90 |
| 1,2-DICHLOROBENZENE | ND | 180 | 90 |
| 1,3-DICHLOROBENZENE | ND | 180 | 90 |
| 1,4-DICHLOROBENZENE | ND | 180 | 90 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 90 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 90 |
| 2,4-DICHLOROPHENOL | ND | 180 | 90 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 90 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 90 |
| 2,6-DINITROTOLUENE | ND | 180 | 90 |
| 2-CHLORONAPHTHALENE | ND | 180 | 90 |
| 2-CHLOROPHENOL | ND | 180 | 90 |
| 2-METHYLNAPHTHALENE | ND | 180 | 90 |
| 2-METHYLPHENOL | ND | 180 | 90 |
| 2-NITROANILINE | ND | 180 | 90 |
| 2-NITROPHENOL | ND | 180 | 90 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 90 |
| 3-NITROANILINE | ND | 180 | 90 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 90 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 90 |
| 4-CHLOROANILINE | ND | 180 | 90 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 90 |
| 4-METHYLPHENOL (1) | ND | 180 | 90 |
| 4-NITROANILINE | ND | 180 | 90 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 90 |
| ACENAPHTHYLENE | ND | 180 | 90 |
| ANTHRACENE | ND | 180 | 90 |
| BENZO(A)ANTHRACENE | ND | 180 | 90 |
| BENZO(A)PYRENE | ND | 180 | 90 |
| BENZO(B)FLUORANTHENE | ND | 180 | 90 |
| BENZO(K)FLUORANTHENE | ND | 180 | 90 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 90 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 90 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 90 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 90 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 90 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 90 |
| CHRYSENE | ND | 180 | 90 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 90 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 90 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 90 |
| DIBENZOFURAN | ND | 180 | 90 |
| DIETHYLPHTHALATE | ND | 180 | 90 |
| DIMETHYLPHTHALATE | ND | 180 | 90 |
| FLUORANTHENE | ND | 180 | 90 |
| FLUORENE | ND | 180 | 90 |
| HEXACHLOROBENZENE | ND | 180 | 90 |
| HEXACHLOROBUTADIENE | ND | 180 | 90 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 90 |
| HEXACHLOROETHANE | ND | 180 | 90 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 90 |
| ISOPHORONE | ND | 180 | 90 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 90 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 90 |
| NAPHTHALENE | ND | 180 | 90 |
| NITROBENZENE | ND | 180 | 90 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 90 |
| PHENOL | ND | 180 | 90 |
| PYRENE | ND | 180 | 90 |
| BENZYL ALCOHOL | ND | 180 | 90 |
| 1-METHYLNAPHTHALENE | ND | 180 | 90 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 90 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 90 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 890 | 450 |
| BENZOIC ACID | ND | 710 | 360 |
| CARBAZOLE | ND | 180 | 90 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 90 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 887 | 1072 | 82.7 | 35-130 |
| 2-FLUOROBIPHENYL | 215 | 357.2 | 60.2 | 45-130 |
| 2-FLUOROPHENOL | 640 | 1072 | 59.7 | 25-130 |
| NITROBENZENE-D5 | 200 | 357.2 | 56.1 | 40-130 |
| PHENOL-D5 | 764 | 1072 | 71.2 | 25-120 |
| TERPHENYL-D14 | 326 | 357.2 | 91.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-099-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 21:12 |
| Lab Samp ID: D031-07 | Dilution Factor: 1 |
| Lab File ID: RDH284 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 8.2 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 460 |
| BENZOIC ACID | ND | 730 | 360 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 825 | 1089 | 75.8 | 35-130 |
| 2-FLUOROBIPHENYL | 234 | 363.1 | 64.4 | 45-130 |
| 2-FLUOROPHENOL | 682 | 1089 | 62.6 | 25-130 |
| NITROBENZENE-D5 | 220 | 363.1 | 60.6 | 40-130 |
| PHENOL-D5 | 790 | 1089 | 72.6 | 25-120 |
| TERPHENYL-D14 | 278 | 363.1 | 76.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-100-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 21:30 |
| Lab Samp ID: D031-08 | Dilution Factor: 1 |
| Lab File ID: RDH285 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 7.7 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 460 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 868 | 1083 | 80.1 | 35-130 |
| 2-FLUOROBIPHENYL | 233 | 361.1 | 64.6 | 45-130 |
| 2-FLUOROPHENOL | 748 | 1083 | 69.1 | 25-130 |
| NITROBENZENE-D5 | 233 | 361.1 | 64.7 | 40-130 |
| PHENOL-D5 | 841 | 1083 | 77.7 | 25-120 |
| TERPHENYL-D14 | 352 | 361.1 | 97.4 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-104-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 21:49 |
| Lab Samp ID: D031-09 | Dilution Factor: 1 |
| Lab File ID: RDH286 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 7.1 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 90 |
| 1,2-DICHLOROBENZENE | ND | 180 | 90 |
| 1,3-DICHLOROBENZENE | ND | 180 | 90 |
| 1,4-DICHLOROBENZENE | ND | 180 | 90 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 90 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 90 |
| 2,4-DICHLOROPHENOL | ND | 180 | 90 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 90 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 90 |
| 2,6-DINITROTOLUENE | ND | 180 | 90 |
| 2-CHLORONAPHTHALENE | ND | 180 | 90 |
| 2-CHLOROPHENOL | ND | 180 | 90 |
| 2-METHYLNAPHTHALENE | ND | 180 | 90 |
| 2-METHYLPHENOL | ND | 180 | 90 |
| 2-NITROANILINE | ND | 180 | 90 |
| 2-NITROPHENOL | ND | 180 | 90 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 90 |
| 3-NITROANILINE | ND | 180 | 90 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 90 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 90 |
| 4-CHLOROANILINE | ND | 180 | 90 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 90 |
| 4-METHYLPHENOL (1) | ND | 180 | 90 |
| 4-NITROANILINE | ND | 180 | 90 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 90 |
| ACENAPHTHYLENE | ND | 180 | 90 |
| ANTHRACENE | ND | 180 | 90 |
| BENZO(A)ANTHRACENE | ND | 180 | 90 |
| BENZO(A)PYRENE | ND | 180 | 90 |
| BENZO(B)FLUORANTHENE | ND | 180 | 90 |
| BENZO(K)FLUORANTHENE | ND | 180 | 90 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 90 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 90 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 90 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 90 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 90 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 90 |
| CHRYSENE | ND | 180 | 90 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 90 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 90 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 90 |
| DIBENZOFURAN | ND | 180 | 90 |
| DIETHYLPHTHALATE | ND | 180 | 90 |
| DIMETHYLPHTHALATE | ND | 180 | 90 |
| FLUORANTHENE | ND | 180 | 90 |
| FLUORENE | ND | 180 | 90 |
| HEXACHLOROBENZENE | ND | 180 | 90 |
| HEXACHLOROBUTADIENE | ND | 180 | 90 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 90 |
| HEXACHLOROETHANE | ND | 180 | 90 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 90 |
| ISOPHORONE | ND | 180 | 90 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 90 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 90 |
| NAPHTHALENE | ND | 180 | 90 |
| NITROBENZENE | ND | 180 | 90 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 90 |
| PHENOL | ND | 180 | 90 |
| PYRENE | ND | 180 | 90 |
| BENZYL ALCOHOL | ND | 180 | 90 |
| 1-METHYLNAPHTHALENE | ND | 180 | 90 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 90 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 90 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 890 | 450 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 90 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 90 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 924 | 1076 | 85.8 | 35-130 |
| 2-FLUOROBIPHENYL | 243 | 358.8 | 67.8 | 45-130 |
| 2-FLUOROPHENOL | 695 | 1076 | 64.6 | 25-130 |
| NITROBENZENE-D5 | 227 | 358.8 | 63.2 | 40-130 |
| PHENOL-D5 | 826 | 1076 | 76.7 | 25-120 |
| TERPHENYL-D14 | 318 | 358.8 | 88.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-110-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 22:08 |
| Lab Samp ID: D031-10 | Dilution Factor: 1 |
| Lab File ID: RDH287 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 7.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 450 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 861 | 1082 | 79.5 | 35-130 |
| 2-FLUOROBIPHENYL | 235 | 360.7 | 65.1 | 45-130 |
| 2-FLUOROPHENOL | 640 | 1082 | 59.2 | 25-130 |
| NITROBENZENE-D5 | 212 | 360.7 | 58.8 | 40-130 |
| PHENOL-D5 | 767 | 1082 | 70.8 | 25-120 |
| TERPHENYL-D14 | 296 | 360.7 | 81.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-114-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 22:26 |
| Lab Samp ID: D031-11 | Dilution Factor: 1 |
| Lab File ID: RDH288 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 8.2 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 460 |
| BENZOIC ACID | ND | 730 | 360 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 916 | 1089 | 84.1 | 35-130 |
| 2-FLUOROBIPHENYL | 262 | 363.1 | 72.0 | 45-130 |
| 2-FLUOROPHENOL | 726 | 1089 | 66.7 | 25-130 |
| NITROBENZENE-D5 | 243 | 363.1 | 67.0 | 40-130 |
| PHENOL-D5 | 846 | 1089 | 77.6 | 25-120 |
| TERPHENYL-D14 | 315 | 363.1 | 86.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-120-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 22:45 |
| Lab Samp ID: D031-12 | Dilution Factor: 1 |
| Lab File ID: RDH289 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 7.5 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 450 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 897 | 1081 | 83.0 | 35-130 |
| 2-FLUOROBIPHENYL | 201 | 360.3 | 55.8 | 45-130 |
| 2-FLUOROPHENOL | 617 | 1081 | 57.0 | 25-130 |
| NITROBENZENE-D5 | 201 | 360.3 | 55.7 | 40-130 |
| PHENOL-D5 | 709 | 1081 | 65.6 | 25-120 |
| TERPHENYL-D14 | 334 | 360.3 | 92.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-155-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 23:03 |
| Lab Samp ID: D031-13 | Dilution Factor: 1 |
| Lab File ID: RDH290 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 8.1 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 460 |
| BENZOIC ACID | ND | 730 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 879 | 1088 | 80.8 | 35-130 |
| 2-FLUOROBIPHENYL | 205 | 362.7 | 56.6 | 45-130 |
| 2-FLUOROPHENOL | 544 | 1088 | 50.0 | 25-130 |
| NITROBENZENE-D5 | 180 | 362.7 | 49.8 | 40-130 |
| PHENOL-D5 | 683 | 1088 | 62.8 | 25-120 |
| TERPHENYL-D14 | 319 | 362.7 | 88.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-181-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 23:22 |
| Lab Samp ID: D031-14 | Dilution Factor: 1 |
| Lab File ID: RDH291 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 8.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 370 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 882 | 1096 | 80.5 | 35-130 |
| 2-FLUOROBIPHENYL | 225 | 365.5 | 61.6 | 45-130 |
| 2-FLUOROPHENOL | 686 | 1096 | 62.6 | 25-130 |
| NITROBENZENE-D5 | 224 | 365.5 | 61.3 | 40-130 |
| PHENOL-D5 | 780 | 1096 | 71.1 | 25-120 |
| TERPHENYL-D14 | 321 | 365.5 | 87.8 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-187-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 23:41 |
| Lab Samp ID: D031-15 | Dilution Factor: 1 |
| Lab File ID: RDH292 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 8.4 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 360 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 856 | 1092 | 78.4 | 35-130 |
| 2-FLUOROBIPHENYL | 210 | 363.9 | 57.8 | 45-130 |
| 2-FLUOROPHENOL | 603 | 1092 | 55.2 | 25-130 |
| NITROBENZENE-D5 | 193 | 363.9 | 53.0 | 40-130 |
| PHENOL-D5 | 697 | 1092 | 63.9 | 25-120 |
| TERPHENYL-D14 | 325 | 363.9 | 89.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: MBLK1S | Date Analyzed: 04/17/12 17:10 |
| Lab Samp ID: SVD031SB | Dilution Factor: 1 |
| Lab File ID: RDH271 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : NA |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 679 | 1000 | 67.9 | 35-130 |
| 2-FLUOROBIPHENYL | 254 | 333.3 | 76.3 | 45-130 |
| 2-FLUOROPHENOL | 825 | 1000 | 82.5 | 25-130 |
| NITROBENZENE-D5 | 260 | 333.3 | 77.9 | 40-130 |
| PHENOL-D5 | 872 | 1000 | 87.2 | 25-120 |
| TERPHENYL-D14 | 319 | 333.3 | 95.8 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVD031SB SVD031SL SVD031SC
LAB FILE ID: RDH271 RDH272 RDH273
DATE EXTRACTED: 04/17/1211:42 04/17/1211:42 04/17/1211:42 DATE COLLECTED: NA
DATE ANALYZED: 04/17/1217:10 04/17/1217:28 04/17/1217:47 DATE RECEIVED: 04/17/12
PREP. BATCH: SVD031S SVD031S SVD031S
CALIB. REF: RCH007 RCH007 RCH007

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 534 | 80 | 667 | 468 | 70 | 13 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 496 | 74 | 667 | 442 | 66 | 12 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 498 | 75 | 667 | 439 | 66 | 12 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 494 | 74 | 667 | 441 | 66 | 11 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 588 | 88 | 667 | 512 | 77 | 14 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 635 | 95 | 667 | 554 | 83 | 14 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 601 | 90 | 667 | 533 | 80 | 12 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 593 | 89 | 667 | 527 | 79 | 12 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 500 | 75 | 667 | 549 | 82 | 9 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 682 | 102 | 667 | 634 | 95 | 7 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 656 | 98 | 667 | 587 | 88 | 11 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 528 | 79 | 667 | 462 | 69 | 13 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 567 | 85 | 667 | 506 | 76 | 11 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 651 | 98 | 667 | 577 | 87 | 12 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 549 | 82 | 667 | 487 | 73 | 12 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 619 | 93 | 667 | 540 | 81 | 14 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 624 | 94 | 667 | 578 | 87 | 8 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 553 | 83 | 667 | 504 | 76 | 9 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 597 | 90 | 667 | 537 | 81 | 11 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 612 | 92 | 667 | 590 | 89 | 4 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 667 | 100 | 667 | 564 | 85 | 17 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 606 | 91 | 667 | 521 | 78 | 15 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 575 | 86 | 667 | 493 | 74 | 15 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 643 | 96 | 667 | 566 | 85 | 13 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 535 | 80 | 667 | 471 | 71 | 13 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 650 | 98 | 667 | 629 | 94 | 3 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 547 | 82 | 667 | 540 | 81 | 1 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 646 | 97 | 667 | 572 | 86 | 12 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 697 | 104 | 667 | 568 | 85 | 20 | 30-130 | 50 |
| Anthracene | ND | 667 | 574 | 86 | 667 | 500 | 75 | 14 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 677 | 102 | 667 | 598 | 90 | 12 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 653 | 98 | 667 | 569 | 85 | 14 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 673 | 101 | 667 | 604 | 91 | 11 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 709 | 106 | 667 | 619 | 93 | 14 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 754 | 113 | 667 | 637 | 96 | 17 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 638 | 96 | 667 | 570 | 85 | 11 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 612 | 92 | 667 | 546 | 82 | 11 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 686 | 103 | 667 | 608 | 91 | 12 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 646 | 97 | 667 | 570 | 86 | 12 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 668 | 100 | 667 | 594 | 89 | 12 | 40-150 | 50 |
| Chrysene | ND | 667 | 713 | 107 | 667 | 629 | 94 | 12 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 598 | 90 | 667 | 546 | 82 | 9 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 588 | 88 | 667 | 570 | 86 | 3 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 701 | 105 | 667 | 597 | 90 | 16 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 623 | 93 | 667 | 546 | 82 | 13 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 617 | 93 | 667 | 545 | 82 | 12 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 621 | 93 | 667 | 544 | 82 | 13 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 651 | 98 | 667 | 607 | 91 | 7 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 655 | 98 | 667 | 575 | 86 | 13 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 572 | 86 | 667 | 492 | 74 | 15 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 575 | 86 | 667 | 504 | 76 | 13 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 417 | 63 | 667 | 375 | 56 | 11 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 452 | 68 | 667 | 399 | 60 | 12 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 709 | 106 | 667 | 605 | 91 | 16 | 30-140 | 50 |
| Isophorone | ND | 667 | 605 | 91 | 667 | 527 | 79 | 14 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 514 | 77 | 667 | 452 | 68 | 13 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 452 | 68 | 667 | 378 | 57 | 18 | 30-140 | 50 |
| Naphthalene | ND | 667 | 638 | 96 | 667 | 563 | 84 | 13 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 611 | 92 | 667 | 549 | 82 | 11 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 584 | 88 | 667 | 533 | 80 | 9 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 603 | 90 | 667 | 524 | 79 | 14 | 30-130 | 50 |
| Phenol | ND | 667 | 574 | 86 | 667 | 508 | 76 | 12 | 30-130 | 50 |
| Pyrene | ND | 667 | 626 | 94 | 667 | 529 | 79 | 17 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 584 | 88 | 667 | 520 | 78 | 12 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 662 | 99 | 667 | 593 | 89 | 11 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 534 | 80 | 667 | 443 | 66 | 19 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 591 | 89 | 667 | 574 | 86 | 3 | 20-150 | 50 |
| Aniline | ND | 667 | 421 | 63 | 667 | 359 | 54 | 16 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1500 | 56 | 2670 | 1630 | 61 | 8 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 1030 | 38 | 2670 | 1210 | 46 | 17 | 10-130 | 50 |
| Carbazole | ND | 667 | 591 | 89 | 667 | 546 | 82 | 8 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 728 | 109 | 667 | 653 | 98 | 11 | 30-150 | 50 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 811 | 81 | 1000 | 794 | 79 | 35-130 |
| 2-Fluorobiphenyl | 333 | 244 | 73 | 333 | 244 | 73 | 45-130 |
| 2-Fluorophenol | 1000 | 763 | 76 | 1000 | 757 | 76 | 25-130 |
| Nitrobenzene-d5 | 333 | 245 | 74 | 333 | 253 | 76 | 40-130 |
| Phenol-d5 | 1000 | 809 | 81 | 1000 | 819 | 82 | 25-120 |
| Terphenyl-d14 | 333 | 311 | 93 | 333 | 303 | 91 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-020-NBZ-SB-2.5-3.5 | Date Analyzed: 04/17/12 20:16 |
| Lab Samp ID: D031-04 | Dilution Factor: 1 |
| Lab File ID: RDH281 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 11.7 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.96 |
| ACENAPHTHYLENE | ND | 1.9 | 0.96 |
| ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)PYRENE | ND | 1.9 | 0.96 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.96 |
| CHRYSENE | ND | 1.9 | 0.96 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.96 |
| FLUORANTHENE | ND | 1.9 | 0.96 |
| FLUORENE | ND | 1.9 | 0.96 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.96 |
| NAPHTHALENE | ND | 1.9 | 0.96 |
| PHENANTHRENE | ND | 1.9 | 0.96 |
| PYRENE | ND | 1.9 | 0.96 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 14J | 19 | 9.5 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.5 |
| DIETHYLPHTHALATE | ND | 19 | 9.5 |
| DIMETHYLPHTHALATE | ND | 19 | 9.5 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.96 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 179 | 377.5 | 47.4 | 40-130 |
| 2-FLUOROBIPHENYL | 182 | 377.5 | 48.2 | 45-130 |
| TERPHENYL-D14 | 291 | 377.5 | 77.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-020-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 20:35 |
| Lab Samp ID: D031-05 | Dilution Factor: 1 |
| Lab File ID: RDH282 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 9.7 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.94 |
| ACENAPHTHYLENE | 1.3J | 1.9 | 0.94 |
| ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)ANTHRACENE | 2.1 | 1.9 | 0.94 |
| BENZO(A)PYRENE | ND | 1.9 | 0.94 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.94 |
| CHRYSENE | 1.8J | 1.9 | 0.94 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.94 |
| FLUORANTHENE | 3.3 | 1.9 | 0.94 |
| FLUORENE | 2.9 | 1.9 | 0.94 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.94 |
| NAPHTHALENE | 1.3J | 1.9 | 0.94 |
| PHENANTHRENE | 2.1 | 1.9 | 0.94 |
| PYRENE | 3.1 | 1.9 | 0.94 |
| 2-METHYLNAPHTHALENE | 1.3J | 1.9 | 0.94 |
| 1-METHYLNAPHTHALENE | 1.2J | 1.9 | 0.94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 48 | 18 | 9.3 |
| BUTYLBENZYLPHTHALATE | 18J | 18 | 9.3 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.3 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.3 |
| DIETHYLPHTHALATE | ND | 18 | 9.3 |
| DIMETHYLPHTHALATE | ND | 18 | 9.3 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.94 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 246 | 369.1 | 66.5 | 40-130 |
| 2-FLUOROBIPHENYL | 270 | 369.1 | 73.0 | 45-130 |
| TERPHENYL-D14 | 302 | 369.1 | 81.8 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-097-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 20:53 |
| Lab Samp ID: D031-06 | Dilution Factor: 1 |
| Lab File ID: RDH283 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 6.7 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.91 |
| ACENAPHTHYLENE | ND | 1.8 | 0.91 |
| ANTHRACENE | ND | 1.8 | 0.91 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.91 |
| BENZO(A)PYRENE | ND | 1.8 | 0.91 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.91 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.91 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.91 |
| CHRYSENE | ND | 1.8 | 0.91 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.91 |
| FLUORANTHENE | ND | 1.8 | 0.91 |
| FLUORENE | ND | 1.8 | 0.91 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.91 |
| NAPHTHALENE | ND | 1.8 | 0.91 |
| PHENANTHRENE | ND | 1.8 | 0.91 |
| PYRENE | ND | 1.8 | 0.91 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.91 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 22 | 18 | 9.0 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.0 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.0 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.0 |
| DIETHYLPHTHALATE | ND | 18 | 9.0 |
| DIMETHYLPHTHALATE | ND | 18 | 9.0 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.91 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 214 | 357.2 | 59.8 | 40-130 |
| 2-FLUOROBIPHENYL | 237 | 357.2 | 66.3 | 45-130 |
| TERPHENYL-D14 | 341 | 357.2 | 95.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-099-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 21:12 |
| Lab Samp ID: D031-07 | Dilution Factor: 1 |
| Lab File ID: RDH284 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 8.2 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)PYRENE | ND | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | 1.9 | 1.9 | 0.93 |
| CHRYSENE | ND | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | 2.1 | 1.9 | 0.93 |
| FLUORENE | ND | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | 0.93J | 1.9 | 0.93 |
| PYRENE | 2.0 | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 26 | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | 21 | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 232 | 363.1 | 63.8 | 40-130 |
| 2-FLUOROBIPHENYL | 248 | 363.1 | 68.4 | 45-130 |
| TERPHENYL-D14 | 284 | 363.1 | 78.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-100-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 21:30 |
| Lab Samp ID: D031-08 | Dilution Factor: 1 |
| Lab File ID: RDH285 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 7.7 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | ND | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | ND | 1.8 | 0.92 |
| PYRENE | ND | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 15J | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 253 | 361.1 | 70.1 | 40-130 |
| 2-FLUOROBIPHENYL | 262 | 361.1 | 72.5 | 45-130 |
| TERPHENYL-D14 | 327 | 361.1 | 90.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-104-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 21:49 |
| Lab Samp ID: D031-09 | Dilution Factor: 1 |
| Lab File ID: RDH286 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 7.1 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.91 |
| ACENAPHTHYLENE | ND | 1.8 | 0.91 |
| ANTHRACENE | ND | 1.8 | 0.91 |
| BENZO(A)ANTHRACENE | 1.5J | 1.8 | 0.91 |
| BENZO(A)PYRENE | 1.6J | 1.8 | 0.91 |
| BENZO(B)FLUORANTHENE | 2.6 | 1.8 | 0.91 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.91 |
| BENZO(G,H,I)PERYLENE | 1.9 | 1.8 | 0.91 |
| CHRYSENE | 1.7J | 1.8 | 0.91 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.91 |
| FLUORANTHENE | 2.6 | 1.8 | 0.91 |
| FLUORENE | ND | 1.8 | 0.91 |
| INDENO(1,2,3-CD)PYRENE | 1.6J | 1.8 | 0.91 |
| NAPHTHALENE | ND | 1.8 | 0.91 |
| PHENANTHRENE | 0.93J | 1.8 | 0.91 |
| PYRENE | 2.5 | 1.8 | 0.91 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.91 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 31 | 18 | 9.0 |
| BUTYLBENZYLPHTHALATE | 9.1J | 18 | 9.0 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.0 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.0 |
| DIETHYLPHTHALATE | ND | 18 | 9.0 |
| DIMETHYLPHTHALATE | ND | 18 | 9.0 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.91 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 240 | 358.8 | 66.9 | 40-130 |
| 2-FLUOROBIPHENYL | 266 | 358.8 | 74.3 | 45-130 |
| TERPHENYL-D14 | 329 | 358.8 | 91.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-110-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 22:08 |
| Lab Samp ID: D031-10 | Dilution Factor: 1 |
| Lab File ID: RDH287 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 7.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | 1.8J | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | 1.6J | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | 1.8J | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | ND | 1.8 | 0.92 |
| PYRENE | 1.8J | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 39 | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | 15J | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 224 | 360.7 | 62.1 | 40-130 |
| 2-FLUOROBIPHENYL | 248 | 360.7 | 68.7 | 45-130 |
| TERPHENYL-D14 | 287 | 360.7 | 79.7 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-114-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 22:26 |
| Lab Samp ID: D031-11 | Dilution Factor: 1 |
| Lab File ID: RDH288 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 8.2 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)PYRENE | ND | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | 2.6 | 1.9 | 0.93 |
| CHRYSENE | ND | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | 2.8 | 1.9 | 0.93 |
| FLUORENE | ND | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | 1.6J | 1.9 | 0.93 |
| PYRENE | 3.0 | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 27 | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | 39 | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 256 | 363.1 | 70.6 | 40-130 |
| 2-FLUOROBIPHENYL | 272 | 363.1 | 75.1 | 45-130 |
| TERPHENYL-D14 | 300 | 363.1 | 82.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-120-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 22:45 |
| Lab Samp ID: D031-12 | Dilution Factor: 1 |
| Lab File ID: RDH289 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 7.5 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | ND | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | ND | 1.8 | 0.92 |
| PYRENE | ND | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 20 | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 214 | 360.3 | 59.5 | 40-130 |
| 2-FLUOROBIPHENYL | 224 | 360.3 | 62.1 | 45-130 |
| TERPHENYL-D14 | 331 | 360.3 | 91.8 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-155-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 23:03 |
| Lab Samp ID: D031-13 | Dilution Factor: 1 |
| Lab File ID: RDH290 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 8.1 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | ND | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | ND | 1.8 | 0.92 |
| PYRENE | ND | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 20 | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 196 | 362.7 | 53.9 | 40-130 |
| 2-FLUOROBIPHENYL | 229 | 362.7 | 63.2 | 45-130 |
| TERPHENYL-D14 | 308 | 362.7 | 84.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-181-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 23:22 |
| Lab Samp ID: D031-14 | Dilution Factor: 1 |
| Lab File ID: RDH291 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 8.8 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)PYRENE | ND | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.93 |
| CHRYSENE | ND | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | ND | 1.9 | 0.93 |
| FLUORENE | ND | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | ND | 1.9 | 0.93 |
| PYRENE | ND | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 18J | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 237 | 365.5 | 64.8 | 40-130 |
| 2-FLUOROBIPHENYL | 248 | 365.5 | 68.0 | 45-130 |
| TERPHENYL-D14 | 339 | 365.5 | 92.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-187-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 23:41 |
| Lab Samp ID: D031-15 | Dilution Factor: 1 |
| Lab File ID: RDH292 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 8.4 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)PYRENE | ND | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.93 |
| CHRYSENE | ND | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | ND | 1.9 | 0.93 |
| FLUORENE | ND | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | ND | 1.9 | 0.93 |
| PYRENE | ND | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 23 | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 206 | 363.9 | 56.6 | 40-130 |
| 2-FLUOROBIPHENYL | 229 | 363.9 | 62.8 | 45-130 |
| TERPHENYL-D14 | 315 | 363.9 | 86.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 11:42 |
| Sample ID: MBLK1S | Date Analyzed: 04/17/12 17:10 |
| Lab Samp ID: SVD031SB | Dilution Factor: 1 |
| Lab File ID: RDH271 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : NA |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 276 | 333.3 | 82.7 | 40-130 |
| 2-FLUOROBIPHENYL | 285 | 333.3 | 85.4 | 45-130 |
| TERPHENYL-D14 | 302 | 333.3 | 90.7 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVD031SB | SVD031SX | SVD031SY | | |
| LAB FILE ID: | RDH271 | RDH274 | RDH275 | | |
| DATE EXTRACTED: | 04/17/1211:42 | 04/17/1211:42 | 04/17/1211:42 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/17/1217:10 | 04/17/1218:06 | 04/17/1218:24 | DATE RECEIVED: | 04/17/12 |
| PREP. BATCH: | SVD031S | SVD031S | SVD031S | | |
| CALIB. REF: | RCH007 | RCH007 | RCH007 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 344 | 103 | 333 | 293 | 88 | 16 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 370 | 111 | 333 | 312 | 94 | 17 | 20-130 | 50 |
| Anthracene | ND | 333 | 292 | 88 | 333 | 244 | 73 | 18 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 310 | 93 | 333 | 264 | 79 | 16 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 334 | 100 | 333 | 275 | 83 | 19 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 354 | 106 | 333 | 287 | 86 | 21 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 360 | 108 | 333 | 307 | 92 | 16 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 393 | 118 | 333 | 326 | 98 | 19 | 30-140 | 50 |
| Chrysene | ND | 333 | 308 | 92 | 333 | 263 | 79 | 16 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 363 | 109 | 333 | 301 | 90 | 18 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 333 | 100 | 333 | 273 | 82 | 20 | 30-130 | 50 |
| Fluorene | ND | 333 | 359 | 108 | 333 | 304 | 91 | 17 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 379 | 114 | 333 | 315 | 94 | 19 | 20-160 | 50 |
| Naphthalene | ND | 333 | 302 | 91 | 333 | 262 | 78 | 14 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 291 | 87 | 333 | 244 | 73 | 17 | 20-130 | 50 |
| Pyrene | ND | 333 | 315 | 95 | 333 | 258 | 77 | 20 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 316 | 95 | 333 | 272 | 82 | 15 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 328 | 99 | 333 | 282 | 85 | 15 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 283 | 85 | 333 | 234 | 70 | 19 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 280 | 84 | 333 | 229 | 69 | 20 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 286 | 86 | 333 | 234 | 70 | 20 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 281 | 84 | 333 | 224 | 67 | 23 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 335 | 101 | 333 | 281 | 84 | 18 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 354 | 106 | 333 | 296 | 89 | 18 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 343 | 103 | 333 | 297 | 89 | 14 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 269 | 81 | 333 | 259 | 78 | 40-130 |
| 2-Fluorobiphenyl | 333 | 280 | 84 | 333 | 272 | 82 | 45-130 |
| Terphenyl-d14 | 333 | 294 | 88 | 333 | 279 | 84 | 45-135 |

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/08/12 00:00 |
| Sample ID: EB-NBZ-SB-040412 | Date Analyzed: 04/08/12 00:00 |
| Lab Samp ID: D031-01 | Dilution Factor: 1 |
| Lab File ID: ED06056A | Matrix : WATER |
| Ext Btch ID: VA39D04 | % Moisture : NA |
| Calib. Ref.: ED06050A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 15J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 32.5 | 40.00 | 81.2 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/08/12 00:42 |
| Sample ID: TB-040412 | Date Analyzed: 04/08/12 00:42 |
| Lab Samp ID: D031-16 | Dilution Factor: 1 |
| Lab File ID: ED06057A | Matrix : WATER |
| Ext Btch ID: VA39D04 | % Moisture : NA |
| Calib. Ref.: ED06050A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 19J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 31.1 | 40.00 | 77.7 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/07/12 |
| Batch No. : 12D031 | Date Extracted: 04/07/12 20:30 |
| Sample ID: MBLK1W | Date Analyzed: 04/07/12 20:30 |
| Lab Samp ID: VA39D04B | Dilution Factor: 1 |
| Lab File ID: ED06051A | Matrix : WATER |
| Ext Btch ID: VA39D04 | % Moisture : NA |
| Calib. Ref.: ED06050A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 31.6 | 40.00 | 79.0 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 5030B/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VA39D04B | VA39D04L | VA39D04C | | |
| LAB FILE ID: | ED06051A | ED06052A | ED06053A | | |
| DATE EXTRACTED: | 04/07/1220:30 | 04/07/1221:12 | 04/07/1221:54 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/07/1220:30 | 04/07/1221:12 | 04/07/1221:54 | DATE RECEIVED: | 04/07/12 |
| PREP. BATCH: | VA39D04 | VA39D04 | VA39D04 | | |
| CALIB. REF: | ED06050A | ED06050A | ED06050A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 500 | 406 | 81 | 500 | 431 | 86 | 6 | 60-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 40.0 | 35.8 | 89 | 40.0 | 37.1 | 93 | 60-130 |

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/06/12 07:32 |
| Sample ID: SL-020-NBZ-SB-3.0 | Date Analyzed: 04/06/12 07:32 |
| Lab Samp ID: D031-03 | Dilution Factor: 0.89 |
| Lab File ID: ED04056A | Matrix : SOIL |
| Ext Btch ID: GMD003S | % Moisture : 10.8 |
| Calib. Ref.: ED04046A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.62 | 1.996 | 81.3 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 04/05/12 12:31

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D031 | Date Extracted: 04/05/12 16:13 |
| Sample ID: MBLK1S | Date Analyzed: 04/05/12 16:13 |
| Lab Samp ID: GMD003SB | Dilution Factor: 1 |
| Lab File ID: ED04034A | Matrix : SOIL |
| Ext Btch ID: GMD003S | % Moisture : NA |
| Calib. Ref.: ED04024A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.83 | 2.000 | 91.4 | 60-130 |

RL : Reporting Limit
Methanol Extraction: 04/05/12 12:31

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 5035/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | GMD003SB | GMD003SL | GMD003SC | | |
| LAB FILE ID: | ED04034A | ED04032A | ED04033A | | |
| DATE EXTRACTED: | 04/05/1216:13 | 04/05/1214:49 | 04/05/1215:31 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/05/1216:13 | 04/05/1214:49 | 04/05/1215:31 | DATE RECEIVED: | 04/05/12 |
| PREP. BATCH: | GMD003S | GMD003S | GMD003S | | |
| CALIB. REF: | ED04024A | ED04024A | ED04024A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 25.0 | 25.1 | 100 | 25.0 | 23.4 | 94 | 7 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 2.00 | 2.18 | 109 | 2.00 | 2.11 | 106 | 60-130 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/10/12 12:07 |
| Sample ID: EB-NBZ-SB-040412 | Date Analyzed: 04/10/12 12:07 |
| Lab Samp ID: D031-01 | Dilution Factor: 1 |
| Lab File ID: BD10029A | Matrix : WATER |
| Ext Btch ID: MED001W | % Moisture : NA |
| Calib. Ref.: BD10021A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/10/12 13:04 |
| Sample ID: EB-NBZ-SS-040412 | Date Analyzed: 04/10/12 13:04 |
| Lab Samp ID: D031-02 | Dilution Factor: 1 |
| Lab File ID: BD10030A | Matrix : WATER |
| Ext Btch ID: MED001W | % Moisture : NA |
| Calib. Ref.: BD10021A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D031 | Date Extracted: 04/10/12 10:39 |
| Sample ID: MBLK1W | Date Analyzed: 04/10/12 10:39 |
| Lab Samp ID: MED001WB | Dilution Factor: 1 |
| Lab File ID: BD10023A | Matrix : WATER |
| Ext Btch ID: MED001W | % Moisture : NA |
| Calib. Ref.: BD10021A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | MED001WB | MED001WL | MED001WC | | |
| LAB FILE ID: | BD10023A | BD10024A | BD10025A | | |
| DATE EXTRACTED: | 04/10/1210:39 | 04/10/1210:56 | 04/10/1211:14 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/10/1210:39 | 04/10/1210:56 | 04/10/1211:14 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | MED001W | MED001W | MED001W | | |
| CALIB. REF: | BD10021A | BD10021A | BD10021A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 10300 | 103 | 10000 | 9680 | 97 | 6 | 50-150 | 30 |
| Isopropanol | ND | 10000 | 9880 | 99 | 10000 | 10200 | 102 | 4 | 50-150 | 30 |
| Methanol | ND | 10000 | 10800 | 108 | 10000 | 9440 | 94 | 13 | 50-150 | 30 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/06/12 11:00 |
| Sample ID: SL-020-NBZ-SB-2.5-3.5 | Date Analyzed: 04/09/12 13:59 |
| Lab Samp ID: D031-04 | Dilution Factor: 1 |
| Lab File ID: BD10013A | Matrix : SOIL |
| Ext Btch ID: MED002S | % Moisture : 11.7 |
| Calib. Ref.: BD10002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 570 | 280 |
| ISOPROPANOL | ND | 570 | 280 |
| METHANOL | ND | 570 | 280 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/06/12 |
| Batch No. : 12D031 | Date Extracted: 04/06/12 11:00 |
| Sample ID: MBLK1S | Date Analyzed: 04/09/12 10:32 |
| Lab Samp ID: MED002SB | Dilution Factor: 1 |
| Lab File ID: BD10003A | Matrix : SOIL |
| Ext Btch ID: MED002S | % Moisture : NA |
| Calib. Ref.: BD10002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 500 | 250 |
| ISOPROPANOL | ND | 500 | 250 |
| METHANOL | ND | 500 | 250 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | MED002SB | MED002SL | MED002SY | | |
| LAB FILE ID: | BD10003A | BD10004A | BD10006A | | |
| DATE EXTRACTED: | 04/06/1211:00 | 04/06/1211:00 | 04/06/1211:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/09/1210:32 | 04/09/1211:00 | 04/09/1211:38 | DATE RECEIVED: | 04/06/12 |
| PREP. BATCH: | MED002S | MED002S | MED002S | | |
| CALIB. REF: | BD10002A | BD10002A | BD10002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 11100 | 111 | 10000 | 9380 | 94 | 16 | 50-150 | 50 |
| Isopropanol | ND | 10000 | 9520 | 95 | 10000 | 10000 | 100 | 5 | 50-150 | 50 |
| Methanol | ND | 10000 | 9810 | 98 | 10000 | 9980 | 100 | 2 | 50-150 | 50 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/10/12 14:42 |
| Sample ID: EB-NBZ-SB-040412 | Date Analyzed: 04/10/12 14:42 |
| Lab Samp ID: D031-01 | Dilution Factor: 1 |
| Lab File ID: TD10006A | Matrix : WATER |
| Ext Btch ID: PED001W | % Moisture : NA |
| Calib. Ref.: TD10002A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/10/12 14:55 |
| Sample ID: EB-NBZ-SS-040412 | Date Analyzed: 04/10/12 14:55 |
| Lab Samp ID: D031-02 | Dilution Factor: 1 |
| Lab File ID: TD10007A | Matrix : WATER |
| Ext Btch ID: PED001W | % Moisture : NA |
| Calib. Ref.: TD10002A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D031 | Date Extracted: 04/10/12 14:24 |
| Sample ID: MBLK1W | Date Analyzed: 04/10/12 14:24 |
| Lab Samp ID: PED001WB | Dilution Factor: 1 |
| Lab File ID: TD10005A | Matrix : WATER |
| Ext Btch ID: PED001W | % Moisture : NA |
| Calib. Ref.: TD10002A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 8015M

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: PED001WB PED001WL PED001WC
LAB FILE ID: TD10005A TD10003A TD10004A
DATE EXTRACTED: 04/10/1214:24 04/10/1213:05 04/10/1213:19 DATE COLLECTED: NA
DATE ANALYZED: 04/10/1214:24 04/10/1213:05 04/10/1213:19 DATE RECEIVED: 04/10/12
PREP. BATCH: PED001W PED001W PED001W
CALIB. REF: TD10002A TD10002A TD10002A

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 58.4 | 117 | 50.0 | 49.1 | 98 | 17 | 50-150 | 30 |
| Ethylene Glycol | ND | 50.0 | 58.6 | 117 | 50.0 | 52.9 | 106 | 10 | 50-150 | 30 |
| Propylene Glycol | ND | 25.0 | 29.8 | 119 | 25.0 | 27.0 | 108 | 10 | 50-150 | 30 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/06/12 11:00 |
| Sample ID: SL-020-NBZ-SB-2.5-3.5 | Date Analyzed: 04/09/12 10:34 |
| Lab Samp ID: D031-04 | Dilution Factor: 1 |
| Lab File ID: TD09013A | Matrix : SOIL |
| Ext Btch ID: PED002S | % Moisture : 11.7 |
| Calib. Ref.: TD09003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 17 | 8.5 |
| ETHYLENE GLYCOL | ND | 11 | 5.7 |
| PROPYLENE GLYCOL | ND | 11 | 5.7 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/06/12 |
| Batch No. : 12D031 | Date Extracted: 04/06/12 11:00 |
| Sample ID: MBLK1S | Date Analyzed: 04/09/12 08:43 |
| Lab Samp ID: PED002SB | Dilution Factor: 1 |
| Lab File ID: TD09006A | Matrix : SOIL |
| Ext Btch ID: PED002S | % Moisture : NA |
| Calib. Ref.: TD09003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.5 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 5.0 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PED002SB | PED002SL | PED002SC | | |
| LAB FILE ID: | TD09006A | TD09004A | TD09005A | | |
| DATE EXTRACTED: | 04/06/1211:00 | 04/06/1211:00 | 04/06/1211:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/09/1208:43 | 04/09/1207:36 | 04/09/1207:50 | DATE RECEIVED: | 04/06/12 |
| PREP. BATCH: | PED002S | PED002S | PED002S | | |
| CALIB. REF: | TD09003A | TD09003A | TD09003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 49.5 | 99 | 50.0 | 46.2 | 92 | 7 | 50-150 | 50 |
| Ethylene Glycol | ND | 50.0 | 51.1 | 102 | 50.0 | 47.1 | 94 | 8 | 50-150 | 50 |
| Propylene Glycol | ND | 25.0 | 28.8 | 115 | 25.0 | 26.5 | 106 | 8 | 50-150 | 50 |

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/09/12 13:30 |
| Sample ID: EB-NBZ-SB-040412 | Date Analyzed: 04/10/12 22:55 |
| Lab Samp ID: D031-01 | Dilution Factor: 0.96 |
| Lab File ID: LD10017A | Matrix : WATER |
| Ext Btch ID: DSD014W | % Moisture : NA |
| Calib. Ref.: LD10011A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.48 | 0.096 |
| EFH(C12-C14) | ND | 0.48 | 0.096 |
| EFH(C15-C20) | ND | 0.48 | 0.096 |
| EFH(C21-C30) | ND | 0.48 | 0.096 |
| EFH(C30-C40) | ND | 0.48 | 0.096 |
| TOTAL EFH(C8-C40) | ND | 0.48 | 0.096 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.791 | 0.9600 | 82.4 | 40-130 |
| HEXACOSANE | 0.210 | 0.2400 | 87.4 | 40-150 |

RL : Reporting Limit

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/09/12 13:30 |
| Sample ID: EB-NBZ-SS-040412 | Date Analyzed: 04/10/12 23:12 |
| Lab Samp ID: D031-02 | Dilution Factor: 1.14 |
| Lab File ID: LD10018A | Matrix : WATER |
| Ext Btch ID: DSD014W | % Moisture : NA |
| Calib. Ref.: LD10011A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.57 | 0.11 |
| EFH(C12-C14) | ND | 0.57 | 0.11 |
| EFH(C15-C20) | ND | 0.57 | 0.11 |
| EFH(C21-C30) | ND | 0.57 | 0.11 |
| EFH(C30-C40) | ND | 0.57 | 0.11 |
| TOTAL EFH(C8-C40) | ND | 0.57 | 0.11 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.948 | 1.140 | 83.2 | 40-130 |
| HEXACOSANE | 0.254 | 0.2850 | 89.1 | 40-150 |

RL : Reporting Limit

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D031 | Date Extracted: 04/09/12 13:30 |
| Sample ID: MBLK1W | Date Analyzed: 04/10/12 21:47 |
| Lab Samp ID: DSD014WB | Dilution Factor: 1 |
| Lab File ID: LD10013A | Matrix : WATER |
| Ext Btch ID: DSD014W | % Moisture : NA |
| Calib. Ref.: LD10011A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.50 | 0.10 |
| EFH(C12-C14) | ND | 0.50 | 0.10 |
| EFH(C15-C20) | ND | 0.50 | 0.10 |
| EFH(C21-C30) | ND | 0.50 | 0.10 |
| EFH(C30-C40) | ND | 0.50 | 0.10 |
| TOTAL EFH(C8-C40) | ND | 0.50 | 0.10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.779 | 1.000 | 77.9 | 40-130 |
| HEXACOSANE | 0.211 | 0.2500 | 84.5 | 40-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 3520C/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | DSD014WB | DSD014WL | DSD014WC | | |
| LAB FILE ID: | LD10013A | LD10014A | LD10015A | | |
| DATE EXTRACTED: | 04/09/1213:30 | 04/09/1213:30 | 04/09/1213:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/10/1221:47 | 04/10/1222:04 | 04/10/1222:21 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | DSD014W | DSD014W | DSD014W | | |
| CALIB. REF: | LD10011A | LD10011A | LD10011A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 5.00 | 4.45 | 89 | 5.00 | 4.75 | 95 | 7 | 20-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 1.00 | 0.827 | 83 | 1.00 | 0.842 | 84 | 40-130 |
| Hexacosane | 0.250 | 0.219 | 88 | 0.250 | 0.220 | 88 | 40-150 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/06/12 14:05 |
| Sample ID: SL-020-NBZ-SB-2.5-3.5 | Date Analyzed: 04/11/12 05:09 |
| Lab Samp ID: D031-04 | Dilution Factor: 1 |
| Lab File ID: LD10039A | Matrix : SOIL |
| Ext Btch ID: DSD007S | % Moisture : 11.7 |
| Calib. Ref.: LD10034A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.61J | 1.1 | 0.57 |
| EFH(C12-C14) | ND | 1.1 | 0.57 |
| EFH(C15-C20) | ND | 1.1 | 0.57 |
| EFH(C21-C30) | 2.7 | 1.1 | 0.57 |
| EFH(C30-C40) | 3.7 | 1.1 | 0.57 |
| TOTAL EFH(C8-C40) | 7.0 | 1.1 | 0.57 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.41 | 11.33 | 65.4 | 50-150 |
| HEXACOSANE | 2.35 | 2.831 | 83.1 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/06/12 |
| Batch No. : 12D031 | Date Extracted: 04/06/12 14:05 |
| Sample ID: MBLK1S | Date Analyzed: 04/11/12 00:03 |
| Lab Samp ID: DSD007SB | Dilution Factor: 1 |
| Lab File ID: LD10021A | Matrix : SOIL |
| Ext Btch ID: DSD007S | % Moisture : NA |
| Calib. Ref.: LD10011A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.23 | 10.00 | 72.3 | 50-150 |
| HEXACOSANE | 2.03 | 2.500 | 81.2 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSD007SB | DSD007SL | DSD007SC | | |
| LAB FILE ID: | LD10021A | LD10019A | LD10020A | | |
| DATE EXTRACTED: | 04/06/1214:05 | 04/06/1214:05 | 04/06/1214:05 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1200:03 | 04/10/1223:29 | 04/10/1223:46 | DATE RECEIVED: | 04/06/12 |
| PREP. BATCH: | DSD007S | DSD007S | DSD007S | | |
| CALIB. REF: | LD10011A | LD10011A | LD10011A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 42.9 | 86 | 50.0 | 40.5 | 81 | 6 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 7.60 | 76 | 10.0 | 7.80 | 78 | 50-150 |
| Hexacosane | 2.50 | 2.00 | 80 | 2.50 | 2.05 | 82 | 50-150 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/14/12 11:21 |
| Sample ID: SL-020-NBZ-SB-2.5-3.5 | Date Analyzed: 04/20/12 21:30 |
| Lab Samp ID: D031-04 | Dilution Factor: 1 |
| Lab File ID: MD20025A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : 11.7 |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.32 | 0.19 | 0.096\|0.096 |
| GAMMA-BHC (LINDANE) | (ND)\|0.18J | 0.19 | 0.096\|0.096 |
| BETA-BHC | (ND)\|ND | 0.19 | 0.096\|0.096 |
| HEPTACHLOR | (ND)\|0.66 | 0.19 | 0.096\|0.096 |
| DELTA-BHC | (ND)\|ND | 0.19 | 0.096\|0.096 |
| ALDRIN | (ND)\|ND | 0.19 | 0.096\|0.096 |
| HEPTACHLOR EPOXIDE | (ND)\|0.20 | 0.19 | 0.096\|0.096 |
| ENDOSULFAN I | (ND)\|ND | 0.19 | 0.096\|0.096 |
| 4,4'-DDE | (ND)\|ND | 0.39 | 0.19\|0.19 |
| DIELDRIN | (ND)\|ND | 0.39 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.39 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.39 | 0.19\|0.19 |
| ENDOSULFAN II | (ND)\|ND | 0.39 | 0.19\|0.19 |
| 4,4'-DDT | (ND)\|0.21J | 0.39 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | (ND)\|0.59 | 0.39 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.39 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.39 | 0.19\|0.19 |
| METHOXYCHLOR | (ND)\|ND | 1.9 | 0.96\|0.96 |
| MIREX | (ND)\|ND | 0.39 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.5 | 3.7\|3.7 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.9 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.317\|(5.316) | 6.040 | 71.5\|(88.0) | 50-130 |
| DECACHLOROBIPHENYL | (5.185)\|4.669 | 6.040 | (85.8)\|77.3 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/14/12 11:21 |
| Sample ID: SL-020-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 21:53 |
| Lab Samp ID: D031-05 | Dilution Factor: 1 |
| Lab File ID: MD20026A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : 9.7 |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.23 | 0.19 | 0.094 \| 0.094 |
| GAMMA-BHC (LINDANE) | 0.28 \| (ND) | 0.19 | 0.094 \| 0.094 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| HEPTACHLOR | (0.51) \| 0.44 | 0.19 | 0.094 \| 0.094 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| ALDRIN | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| HEPTACHLOR EPOXIDE | 0.43 \| (ND) | 0.19 | 0.094 \| 0.094 |
| ENDOSULFAN I | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| 4,4'-DDE | 0.58 \| (0.24J) | 0.38 | 0.19 \| 0.19 |
| DIELDRIN | 0.32J \| (ND) | 0.38 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.20J \| (ND) | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDT | 0.44 \| (0.62) | 0.38 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| 0.25J | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| ND | 1.9 | 0.94 \| 0.94 |
| MIREX | 0.23J \| (ND) | 0.38 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.3 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.8 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.070 \| (5.481) | 5.906 | 68.9 \| (92.8) | 50-130 |
| DECACHLOROBIPHENYL | (5.026) \| 4.620 | 5.906 | (85.1) \| 78.2 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/14/12 11:21 |
| Sample ID: SL-097-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 22:15 |
| Lab Samp ID: D031-06 | Dilution Factor: 1 |
| Lab File ID: MD20027A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : 6.7 |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.29 | 0.18 | 0.091 \| 0.091 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| BETA-BHC | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| HEPTACHLOR | (ND) \| 0.27 | 0.18 | 0.091 \| 0.091 |
| DELTA-BHC | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| ALDRIN | 0.13J \| (ND) | 0.18 | 0.091 \| 0.091 |
| HEPTACHLOR EPOXIDE | 0.73 \| (ND) | 0.18 | 0.091 \| 0.091 |
| ENDOSULFAN I | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| 4,4'-DDE | 0.75 \| (0.88) | 0.36 | 0.18 \| 0.18 |
| DIELDRIN | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| ENDRIN | 0.31J \| (ND) | 0.36 | 0.18 \| 0.18 |
| 4,4'-DDD | (ND) \| 2.3 | 0.36 | 0.18 \| 0.18 |
| ENDOSULFAN II | 0.67 \| (ND) | 0.36 | 0.18 \| 0.18 |
| 4,4'-DDT | (1.0) \| 0.98 | 0.36 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | (ND) \| 0.53 | 0.36 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | 5.6 \| (ND) | 0.36 | 0.18 \| 0.18 |
| ENDRIN KETONE | 1.6 \| (ND) | 0.36 | 0.18 \| 0.18 |
| METHOXYCHLOR | (ND) \| 1.6J | 1.8 | 0.91 \| 0.91 |
| MIREX | 1.4 \| (ND) | 0.36 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 7.1 | 3.5 \| 3.5 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.6 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.690 \| (5.429) | 5.716 | 64.6 \| (95.0) | 50-130 |
| DECACHLOROBIPHENYL | 4.222 \| (4.521) | 5.716 | 73.9 \| (79.1) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/14/12 11:21 |
| Sample ID: SL-099-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 22:38 |
| Lab Samp ID: D031-07 | Dilution Factor: 1 |
| Lab File ID: MD20028A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : 8.2 |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.23 | 0.19 | 0.093 \| 0.093 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.10J | 0.19 | 0.093 \| 0.093 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| HEPTACHLOR | (ND) \| 0.14J | 0.19 | 0.093 \| 0.093 |
| DELTA-BHC | (ND) \| 0.33 | 0.19 | 0.093 \| 0.093 |
| ALDRIN | (ND) \| 0.093J | 0.19 | 0.093 \| 0.093 |
| HEPTACHLOR EPOXIDE | 0.38 \| (ND) | 0.19 | 0.093 \| 0.093 |
| ENDOSULFAN I | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| 4,4'-DDE | (0.73) \| 0.66 | 0.37 | 0.19 \| 0.19 |
| DIELDRIN | 0.22J \| (ND) | 0.37 | 0.19 \| 0.19 |
| ENDRIN | 0.27J \| (ND) | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| 0.95 | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN II | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDT | (1.0) \| 0.82 | 0.37 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | 0.55 \| (ND) | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | 6.2 \| (ND) | 0.37 | 0.19 \| 0.19 |
| ENDRIN KETONE | 3.7 \| (ND) | 0.37 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| 1.6J | 1.9 | 0.93 \| 0.93 |
| MIREX | 0.94 \| (ND) | 0.37 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.2 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.909 \| (5.560) | 5.809 | 67.3 \| (95.7) | 50-130 |
| DECACHLOROBIPHENYL | (5.062) \| 4.374 | 5.809 | (87.1) \| 75.3 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/14/12 11:21 |
| Sample ID: SL-100-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 23:01 |
| Lab Samp ID: D031-08 | Dilution Factor: 1 |
| Lab File ID: MD20029A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : 7.7 |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.22 | 0.18 | 0.092 \| 0.092 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.19 | 0.18 | 0.092 \| 0.092 |
| BETA-BHC | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR | (ND) \| 0.11J | 0.18 | 0.092 \| 0.092 |
| DELTA-BHC | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| ALDRIN | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR EPOXIDE | 0.32 \| (ND) | 0.18 | 0.092 \| 0.092 |
| ENDOSULFAN I | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| 4,4'-DDE | 0.23J \| (0.30J) | 0.37 | 0.18 \| 0.18 |
| DIELDRIN | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDRIN | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDD | (ND) \| 0.68 | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN II | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDT | (0.84) \| 0.65 | 0.37 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | (ND) \| 0.28J | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | 2.3 \| (ND) | 0.37 | 0.18 \| 0.18 |
| ENDRIN KETONE | 1.1 \| (ND) | 0.37 | 0.18 \| 0.18 |
| METHOXYCHLOR | (ND) \| 1.1J | 1.8 | 0.92 \| 0.92 |
| MIREX | 1.5 \| (ND) | 0.37 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 7.2 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.346 \| (6.495) | 5.778 | 75.2 \| (112) | 50-130 |
| DECACHLOROBIPHENYL | 4.666 \| (5.594) | 5.778 | 80.8 \| (96.8) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/14/12 11:21 |
| Sample ID: SL-104-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 23:23 |
| Lab Samp ID: D031-09 | Dilution Factor: 1 |
| Lab File ID: MD20030A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : 7.1 |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.18J | 0.18 | 0.091 \| 0.091 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| BETA-BHC | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| HEPTACHLOR | (ND) \| 0.10J | 0.18 | 0.091 \| 0.091 |
| DELTA-BHC | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| ALDRIN | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| HEPTACHLOR EPOXIDE | 0.10J \| (ND) | 0.18 | 0.091 \| 0.091 |
| ENDOSULFAN I | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| 4,4'-DDE | 0.51 \| (0.35J) | 0.37 | 0.18 \| 0.18 |
| DIELDRIN | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDRIN | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDD | (ND) \| 1.1 | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN II | 0.26J \| (ND) | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDT | (0.29J) \| 0.51 | 0.37 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | 0.50 \| (ND) | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | (ND) \| 0.61 | 0.37 | 0.18 \| 0.18 |
| ENDRIN KETONE | 0.34J \| (ND) | 0.37 | 0.18 \| 0.18 |
| METHOXYCHLOR | (ND) \| 1.9 | 1.8 | 0.91 \| 0.91 |
| MIREX | 0.45 \| (ND) | 0.37 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 7.1 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.123 \| (5.414) | 5.741 | 71.8 \| (94.3) | 50-130 |
| DECACHLOROBIPHENYL | (5.125) \| 4.950 | 5.741 | (89.3) \| 86.2 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/14/12 11:21 |
| Sample ID: SL-110-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 23:46 |
| Lab Samp ID: D031-10 | Dilution Factor: 1 |
| Lab File ID: MD20031A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : 7.6 |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| GAMMA-BHC (LINDANE) | 0.28 \| (ND) | 0.18 | 0.092 \| 0.092 |
| BETA-BHC | 0.30 \| (ND) | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| DELTA-BHC | (ND) \| 0.33 | 0.18 | 0.092 \| 0.092 |
| ALDRIN | (ND) \| 0.32 | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR EPOXIDE | 0.65 \| (ND) | 0.18 | 0.092 \| 0.092 |
| ENDOSULFAN I | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| 4,4'-DDE | (1.7) \| 1.5 | 0.37 | 0.18 \| 0.18 |
| DIELDRIN | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDRIN | 0.34J \| (ND) | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDD | (ND) \| 1.1 | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN II | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDT | 1.4 \| (1.6) | 0.37 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | (ND) \| 0.40 | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | 0.40 \| (ND) | 0.37 | 0.18 \| 0.18 |
| ENDRIN KETONE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| METHOXYCHLOR | (4.1) \| 2.1 | 1.8 | 0.92 \| 0.92 |
| MIREX | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 7.1 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.911 \| (5.782) | 5.772 | 67.8 \| (100) | 50-130 |
| DECACHLOROBIPHENYL | (4.554) \| 4.156 | 5.772 | (78.9) \| 72.0 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/14/12 11:21 |
| Sample ID: SL-114-NBZ-SS-0.0-0.5 | Date Analyzed: 04/21/12 00:08 |
| Lab Samp ID: D031-11 | Dilution Factor: 1 |
| Lab File ID: MD20032A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : 8.2 |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.25 | 0.19 | 0.093 \| 0.093 |
| GAMMA-BHC (LINDANE) | 0.097J \| (ND) | 0.19 | 0.093 \| 0.093 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| HEPTACHLOR | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| ALDRIN | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| HEPTACHLOR EPOXIDE | 0.26 \| (ND) | 0.19 | 0.093 \| 0.093 |
| ENDOSULFAN I | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| 4,4'-DDE | (1.3) \| 1.2 | 0.37 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDRIN | 0.27J \| (ND) | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| 1.1 | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN II | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDT | 0.81 \| (1.1) | 0.37 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | 3.3 \| (ND) | 0.37 | 0.19 \| 0.19 |
| ENDRIN KETONE | 2.1 \| (ND) | 0.37 | 0.19 \| 0.19 |
| METHOXYCHLOR | 4.4 \| (ND) | 1.9 | 0.93 \| 0.93 |
| MIREX | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.2 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.881 \| (5.583) | 5.809 | 66.8 \| (96.1) | 50-130 |
| DECACHLOROBIPHENYL | (4.594) \| 4.195 | 5.809 | (79.1) \| 72.2 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/14/12 11:21 |
| Sample ID: SL-120-NBZ-SS-0.0-0.5 | Date Analyzed: 04/21/12 00:31 |
| Lab Samp ID: D031-12 | Dilution Factor: 1 |
| Lab File ID: MD20033A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : 7.5 |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.60 \| (ND) | 0.18 | 0.092 \| 0.092 |
| GAMMA-BHC (LINDANE) | 0.10J \| (ND) | 0.18 | 0.092 \| 0.092 |
| BETA-BHC | (ND) \| 0.19 | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR | 0.42 \| (ND) | 0.18 | 0.092 \| 0.092 |
| DELTA-BHC | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| ALDRIN | 0.81 \| (ND) | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR EPOXIDE | 0.13J \| (ND) | 0.18 | 0.092 \| 0.092 |
| ENDOSULFAN I | (ND) \| 0.10J | 0.18 | 0.092 \| 0.092 |
| 4,4'-DDE | 0.19J \| (0.29J) | 0.37 | 0.18 \| 0.18 |
| DIELDRIN | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDRIN | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDD | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN II | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDT | 0.42 \| (0.49) | 0.37 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDRIN KETONE | 0.24J \| (ND) | 0.37 | 0.18 \| 0.18 |
| METHOXYCHLOR | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| MIREX | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 7.1 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.524 \| (5.594) | 5.765 | 78.5 \| (97.0) | 50-130 |
| DECACHLOROBIPHENYL | (5.093) \| 4.679 | 5.765 | (88.3) \| 81.2 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/14/12 11:21 |
| Sample ID: SL-155-NBZ-SS-0.0-0.5 | Date Analyzed: 04/21/12 00:54 |
| Lab Samp ID: D031-13 | Dilution Factor: 1 |
| Lab File ID: MD20034A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : 8.1 |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.19 | 0.18 | 0.092\|0.092 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.18 | 0.092\|0.092 |
| BETA-BHC | (ND)\|ND | 0.18 | 0.092\|0.092 |
| HEPTACHLOR | (ND)\|0.34 | 0.18 | 0.092\|0.092 |
| DELTA-BHC | (ND)\|ND | 0.18 | 0.092\|0.092 |
| ALDRIN | (ND)\|ND | 0.18 | 0.092\|0.092 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.18 | 0.092\|0.092 |
| ENDOSULFAN I | (ND)\|ND | 0.18 | 0.092\|0.092 |
| 4,4'-DDE | (ND)\|ND | 0.37 | 0.18\|0.18 |
| DIELDRIN | (ND)\|ND | 0.37 | 0.18\|0.18 |
| ENDRIN | (ND)\|ND | 0.37 | 0.18\|0.18 |
| 4,4'-DDD | (ND)\|ND | 0.37 | 0.18\|0.18 |
| ENDOSULFAN II | (ND)\|ND | 0.37 | 0.18\|0.18 |
| 4,4'-DDT | (ND)\|ND | 0.37 | 0.18\|0.18 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.37 | 0.18\|0.18 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.37 | 0.18\|0.18 |
| ENDRIN KETONE | (ND)\|ND | 0.37 | 0.18\|0.18 |
| METHOXYCHLOR | (ND)\|0.95J | 1.8 | 0.92\|0.92 |
| MIREX | (ND)\|ND | 0.37 | 0.18\|0.18 |
| TOXAPHENE | (ND)\|ND | 7.2 | 3.6\|3.6 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.7 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.577\|(5.459) | 5.803 | 78.9\|(94.1) | 50-130 |
| DECACHLOROBIPHENYL | (5.086)\|4.742 | 5.803 | (87.6)\|81.7 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/14/12 11:21 |
| Sample ID: SL-181-NBZ-SS-0.0-0.5 | Date Analyzed: 04/21/12 01:16 |
| Lab Samp ID: D031-14 | Dilution Factor: 1 |
| Lab File ID: MD20035A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : 8.8 |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.54 \| (ND) | 0.19 | 0.093 \| 0.093 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.10J | 0.19 | 0.093 \| 0.093 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| HEPTACHLOR | (ND) \| 0.21 | 0.19 | 0.093 \| 0.093 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| ALDRIN | 0.60 \| (ND) | 0.19 | 0.093 \| 0.093 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| ENDOSULFAN I | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| 4,4'-DDE | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDD | 0.49 \| (ND) | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN II | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDT | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| MIREX | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.2 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.824 \| (5.417) | 5.848 | 82.5 \| (92.6) | 50-130 |
| DECACHLOROBIPHENYL | (5.189) \| 4.836 | 5.848 | (88.7) \| 82.7 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/14/12 11:21 |
| Sample ID: SL-187-NBZ-SS-0.0-0.5 | Date Analyzed: 04/21/12 01:39 |
| Lab Samp ID: D031-15 | Dilution Factor: 1 |
| Lab File ID: MD20036A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : 8.4 |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.21 | 0.19 | 0.093\|0.093 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.19 | 0.093\|0.093 |
| BETA-BHC | (ND)\|ND | 0.19 | 0.093\|0.093 |
| HEPTACHLOR | (ND)\|0.23 | 0.19 | 0.093\|0.093 |
| DELTA-BHC | (ND)\|ND | 0.19 | 0.093\|0.093 |
| ALDRIN | 0.80\|(ND) | 0.19 | 0.093\|0.093 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.19 | 0.093\|0.093 |
| ENDOSULFAN I | (ND)\|0.17J | 0.19 | 0.093\|0.093 |
| 4,4'-DDE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| DIELDRIN | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.37 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDOSULFAN II | (ND)\|ND | 0.37 | 0.19\|0.19 |
| 4,4'-DDT | (ND)\|0.19J | 0.37 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| METHOXYCHLOR | (ND)\|ND | 1.9 | 0.93\|0.93 |
| MIREX | (ND)\|ND | 0.37 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.2 | 3.6\|3.6 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.547\|(5.526) | 5.822 | 78.1\|(94.9) | 50-130 |
| DECACHLOROBIPHENYL | (5.147)\|4.922 | 5.822 | (88.4)\|84.5 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/14/12 |
| Batch No. : 12D031 | Date Extracted: 04/14/12 11:21 |
| Sample ID: MBLK1S | Date Analyzed: 04/20/12 20:22 |
| Lab Samp ID: CPD035SB | Dilution Factor: 1 |
| Lab File ID: MD20022A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : NA |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| BETA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| HEPTACHLOR | 0.20 \| (ND) | 0.17 | 0.085 \| 0.085 |
| DELTA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| ALDRIN | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| ENDOSULFAN I | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| 4,4'-DDE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| DIELDRIN | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| 4,4'-DDD | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDOSULFAN II | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| 4,4'-DDT | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN KETONE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| METHOXYCHLOR | (ND) \| ND | 1.7 | 0.85 \| 0.85 |
| MIREX | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| TOXAPHENE | (ND) \| ND | 6.6 | 3.3 \| 3.3 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.4 | 1.7 \| 1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.832 \| (4.233) | 5.333 | 71.9 \| (79.4) | 50-130 |
| DECACHLOROBIPHENYL | (4.840) \| 4.450 | 5.333 | (90.8) \| 83.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPD035SB CPD035SL CPD035SC
LAB FILE ID: MD20022A MD20023A MD20024A
DATE EXTRACTED: 04/14/1211:21 04/14/1211:21 04/14/1211:21 DATE COLLECTED: NA
DATE ANALYZED: 04/20/1220:22 04/20/1220:45 04/20/1221:07 DATE RECEIVED: 04/14/12
PREP. BATCH: CPD035S CPD035S CPD035S
CALIB. REF: MD20017A MD20017A MD20017A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND) \| ND | 2.67 | 2.18 \| (2.43) | 82 \| (91) | 2.67 | 2.19 \| (2.42) | 82 \| (91) | 0 \| (0) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND) \| ND | 2.67 | 1.99 \| (2.34) | 75 \| (88) | 2.67 | 2.00 \| (2.30) | 75 \| (86) | 1 \| (2) | 40-130 | 50 |
| beta-BHC | (ND) \| ND | 2.67 | 2.45 \| (2.48) | 92 \| (93) | 2.67 | (2.38) \| 2.29 | (89) \| 86 | (3) \| 8 | 50-140 | 50 |
| Heptachlor | 0.20 \| (ND) | 2.67 | (2.31) \| 2.30 | (87) \| 86 | 2.67 | (2.29) \| 2.27 | (86) \| 85 | (1) \| 1 | 30-130 | 50 |
| delta-BHC | (ND) \| ND | 2.67 | 2.27 \| (2.60) | 85 \| (97) | 2.67 | 2.20 \| (2.48) | 82 \| (93) | 3 \| (5) | 30-150 | 50 |
| Aldrin | (ND) \| ND | 2.67 | 2.08 \| (2.14) | 78 \| (80) | 2.67 | 2.08 \| (2.16) | 78 \| (81) | 0 \| (1) | 30-130 | 50 |
| Heptachlor Epoxide | (ND) \| ND | 2.67 | (2.30) \| 2.17 | (86) \| 81 | 2.67 | (2.24) \| 2.24 | (84) \| 84 | (3) \| 3 | 60-140 | 50 |
| Endosulfan I | (ND) \| ND | 2.67 | 2.16 \| (2.18) | 81 \| (82) | 2.67 | (2.13) \| 2.11 | (80) \| 79 | (1) \| 3 | 50-150 | 50 |
| 4,4'-DDE | (ND) \| ND | 2.67 | (2.54) \| 2.50 | (95) \| 94 | 2.67 | (2.53) \| 2.46 | (95) \| 92 | (0) \| 2 | 50-150 | 50 |
| Dieldrin | (ND) \| ND | 2.67 | (2.53) \| 2.21 | (95) \| 83 | 2.67 | (2.55) \| 2.15 | (96) \| 81 | (1) \| 3 | 60-130 | 50 |
| Endrin | (ND) \| ND | 2.67 | (2.40) \| 2.19 | (90) \| 82 | 2.67 | (2.33) \| 2.14 | (87) \| 80 | (3) \| 2 | 50-140 | 50 |
| 4,4'-DDD | (ND) \| ND | 2.67 | (2.40) \| 2.32 | (90) \| 87 | 2.67 | (2.39) \| 2.29 | (90) \| 86 | (0) \| 1 | 50-160 | 50 |
| Endosulfan II | (ND) \| ND | 2.67 | (2.56) \| 2.46 | (96) \| 92 | 2.67 | (2.56) \| 2.43 | (96) \| 91 | (0) \| 1 | 60-150 | 50 |
| 4,4'-DDT | (ND) \| ND | 2.67 | (2.90) \| 2.41 | (109) \| 90 | 2.67 | (2.88) \| 2.43 | (108) \| 91 | (1) \| 1 | 60-140 | 50 |
| Endrin aldehyde | (ND) \| ND | 2.67 | (2.51) \| 2.28 | (94) \| 85 | 2.67 | (2.42) \| 2.37 | (91) \| 89 | (4) \| 4 | 50-160 | 50 |
| Endosulfan Sulfate | (ND) \| ND | 2.67 | (2.51) \| 2.46 | (94) \| 92 | 2.67 | (2.52) \| 2.46 | (94) \| 92 | (0) \| 0 | 70-140 | 50 |
| Endrin Ketone | (ND) \| ND | 2.67 | (2.52) \| 2.46 | (94) \| 92 | 2.67 | (2.55) \| 2.40 | (96) \| 90 | (1) \| 2 | 70-160 | 50 |
| Methoxychlor | (ND) \| ND | 26.7 | (24.8) \| 23.6 | (93) \| 88 | 26.7 | (24.6) \| 22.9 | (92) \| 86 | (1) \| 3 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 3.734 \| (4.359) | 70.0 \| (81.7) | 5.333 | 3.935 \| (4.502) | 73.8 \| (84.4) | 50-130 |
| Decachlorobiphenyl | 5.333 | (4.722) \| 4.321 | (88.5) \| 81.0 | 5.333 | (4.856) \| 4.429 | (91.1) \| 83.1 | 20-120 |

METHOD 3520C/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/09/12 12:45 |
| Sample ID: EB-NBZ-SS-040412 | Date Analyzed: 04/23/12 21:53 |
| Lab Samp ID: D031-02 | Dilution Factor: 1.05 |
| Lab File ID: MD23026A | Matrix : WATER |
| Ext Btch ID: CPD019W | % Moisture : NA |
| Calib. Ref.: MD23018A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ALPHA-BHC | 0.062J\|(ND) | 0.10 | 0.011\|0.011 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.10 | 0.011\|0.011 |
| BETA-BHC | (ND)\|0.018J | 0.10 | 0.011\|0.011 |
| HEPTACHLOR | (ND)\|ND | 0.10 | 0.011\|0.011 |
| DELTA-BHC | (ND)\|ND | 0.10 | 0.011\|0.011 |
| ALDRIN | (ND)\|ND | 0.10 | 0.011\|0.011 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.10 | 0.011\|0.011 |
| ENDOSULFAN I | (ND)\|ND | 0.10 | 0.011\|0.011 |
| 4,4'-DDE | 0.014J\|(ND) | 0.10 | 0.011\|0.011 |
| DIELDRIN | 0.051J\|(ND) | 0.10 | 0.011\|0.011 |
| ENDRIN | (ND)\|ND | 0.10 | 0.011\|0.011 |
| 4,4'-DDD | (ND)\|ND | 0.10 | 0.011\|0.011 |
| ENDOSULFAN II | 0.020J\|(ND) | 0.10 | 0.011\|0.011 |
| 4,4'-DDT | (ND)\|ND | 0.10 | 0.011\|0.011 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.10 | 0.011\|0.011 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.10 | 0.011\|0.011 |
| ENDRIN KETONE | (ND)\|ND | 0.10 | 0.011\|0.011 |
| METHOXYCHLOR | (ND)\|ND | 1.0 | 0.10\|0.10 |
| MIREX | (ND)\|ND | 0.10 | 0.011\|0.011 |
| TOXAPHENE | (ND)\|ND | 2.1 | 0.52\|0.52 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 1.0 | 0.26\|0.26 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 0.3348\|(0.3392) | 0.4200 | 79.7\|(80.8) | 60-140 |
| DECACHLOROBIPHENYL | 0.4067\|(0.4113) | 0.4200 | 96.8\|(97.9) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3520C/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D031 | Date Extracted: 04/09/12 12:45 |
| Sample ID: MBLK1W | Date Analyzed: 04/23/12 14:48 |
| Lab Samp ID: CPD019WB | Dilution Factor: 1 |
| Lab File ID: MD23007A | Matrix : WATER |
| Ext Btch ID: CPD019W | % Moisture : NA |
| Calib. Ref.: MD23003A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.10 | 0.010\|0.010 |
| BETA-BHC | (ND)\|0.014J | 0.10 | 0.010\|0.010 |
| HEPTACHLOR | (ND)\|ND | 0.10 | 0.010\|0.010 |
| DELTA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ALDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN I | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| DIELDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDD | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN II | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDT | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN KETONE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| METHOXYCHLOR | (ND)\|ND | 1.0 | 0.10\|0.10 |
| MIREX | (ND)\|ND | 0.10 | 0.010\|0.010 |
| TOXAPHENE | (ND)\|ND | 2.0 | 0.50\|0.50 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 1.0 | 0.25\|0.25 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 0.3399\|(0.3575) | 0.4000 | 85.0\|(89.4) | 60-140 |
| DECACHLOROBIPHENYL | 0.3817\|(0.3923) | 0.4000 | 95.4\|(98.1) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 3520C/8081A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | CPD019WB | CPD019WL | CPD019WC | | |
| LAB FILE ID: | MD23007A | MD23022A | MD23023A | | |
| DATE EXTRACTED: | 04/09/1212:45 | 04/09/1212:45 | 04/09/1212:45 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/23/1214:48 | 04/23/1220:23 | 04/23/1220:45 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | CPD019W | CPD019W | CPD019W | | |
| CALIB. REF: | MD23003A | MD23018A | MD23018A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 0.200 | (0.221)\|0.207 | (110)\|104 | 0.200 | (0.218)\|0.204 | (109)\|102 | (1)\|1 | 30-150 | 30 |
| gamma-BHC (Lindane) | (ND)\|ND | 0.200 | 0.211\|(0.212) | 105\|(106) | 0.200 | 0.205\|(0.221) | 102\|(110) | 3\|(4) | 40-130 | 30 |
| beta-BHC | (ND)\|0.014J | 0.200 | (0.228)\|0.225 | (114)\|112 | 0.200 | (0.231)\|0.296 | (116)\|148* | (1)\|27 | 60-130 | 30 |
| Heptachlor | (ND)\|ND | 0.200 | (0.207)\|0.200 | (104)\|100 | 0.200 | (0.204)\|0.203 | (102)\|101 | (1)\|1 | 30-140 | 30 |
| delta-BHC | (ND)\|ND | 0.200 | (0.225)\|0.218 | (112)\|109 | 0.200 | (0.216)\|0.297 | (108)\|148 | (4)\|31* | 30-150 | 30 |
| Aldrin | (ND)\|ND | 0.200 | (0.198)\|0.191 | (99)\|96 | 0.200 | (0.214)\|0.189 | (107)\|94 | (8)\|1 | 40-130 | 30 |
| Heptachlor Epoxide | (ND)\|ND | 0.200 | (0.209)\|0.209 | (104)\|104 | 0.200 | (0.205)\|0.202 | (102)\|101 | (2)\|3 | 50-140 | 30 |
| Endosulfan I | (ND)\|ND | 0.200 | 0.195\|(0.199) | 97\|(100) | 0.200 | 0.203\|(0.239) | 101\|(119) | 4\|(18) | 60-140 | 30 |
| 4,4'-DDE | (ND)\|ND | 0.200 | 0.206\|(0.213) | 103\|(106) | 0.200 | (0.209)\|0.204 | (104)\|102 | (1)\|4 | 50-140 | 30 |
| Dieldrin | (ND)\|ND | 0.200 | (0.206)\|0.204 | (103)\|102 | 0.200 | (0.203)\|0.200 | (101)\|100 | (1)\|2 | 60-140 | 30 |
| Endrin | (ND)\|ND | 0.200 | (0.209)\|0.200 | (104)\|100 | 0.200 | (0.252)\|0.198 | (126)\|99 | (19)\|1 | 50-140 | 30 |
| 4,4'-DDD | (ND)\|ND | 0.200 | (0.211)\|0.209 | (105)\|104 | 0.200 | 0.208\|(0.210) | 104\|(105) | 1\|(0) | 50-160 | 30 |
| Endosulfan II | (ND)\|ND | 0.200 | (0.220)\|0.210 | (110)\|105 | 0.200 | (0.290)\|0.210 | (145)\|105 | (27)\|0 | 60-150 | 30 |
| 4,4'-DDT | (ND)\|ND | 0.200 | (0.247)\|0.210 | (123)\|105 | 0.200 | (0.245)\|0.209 | (122)\|104 | (1)\|0 | 60-140 | 30 |
| Endrin aldehyde | (ND)\|ND | 0.200 | (0.203)\|0.191 | (101)\|96 | 0.200 | (0.201)\|0.188 | (100)\|94 | (1)\|2 | 60-160 | 30 |
| Endosulfan Sulfate | (ND)\|ND | 0.200 | (0.212)\|0.204 | (106)\|102 | 0.200 | 0.206\|(0.211) | 103\|(105) | 3\|(3) | 70-140 | 30 |
| Endrin Ketone | (ND)\|ND | 0.200 | (0.208)\|0.198 | (104)\|99 | 0.200 | (0.206)\|0.198 | (103)\|99 | (1)\|0 | 30-150 | 30 |
| Methoxychlor | (ND)\|ND | 2.00 | (2.12)\|2.03 | (106)\|102 | 2.00 | (2.10)\|2.01 | (105)\|100 | (1)\|1 | 70-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 0.4000 | 0.3835\|(0.3943) | 95.9\|(98.6) | 0.4000 | 0.3845\|(0.4054) | 96.1\|(101) | 60-140 |
| Decachlorobiphenyl | 0.4000 | 0.3795\|(0.3813) | 94.9\|(95.3) | 0.4000 | (0.3933)\|0.3896 | (98.3)\|97.4 | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/15/12 13:15 |
| Sample ID: SL-020-NBZ-SB-2.5-3.5 | Date Analyzed: 05/05/12 05:16 |
| Lab Samp ID: D031-04 | Dilution Factor: 1 |
| Lab File ID: KE03051A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : 11.7 |
| Calib. Ref.: KE03040A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.728)\|5.846 | 6.040 | (111)\|96.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.782)\|3.864 | 6.040 | (95.7)\|64.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/04/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/04/12 |
| Batch No. | : 12D031 | Date Extracted | : 04/15/12 13:15 |
| Sample ID | : SL-020-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/05/12 06:09 |
| Lab Samp ID | : D031-05 | Dilution Factor | : 1 |
| Lab File ID | : KE03052A | Matrix | : SOIL |
| Ext Btch ID | : CPD037S | % Moisture | : 9.7 |
| Calib. Ref. | : KE03040A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.856)\|5.839 | 5.906 | (116)\|98.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.421)\|4.638 | 5.906 | (126)\|78.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/15/12 13:15 |
| Sample ID: SL-097-NBZ-SS-0.0-0.5 | Date Analyzed: 05/05/12 07:02 |
| Lab Samp ID: D031-06 | Dilution Factor: 1 |
| Lab File ID: KE03053A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : 6.7 |
| Calib. Ref.: KE03040A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.431)\|5.090 | 5.716 | (113)\|89.0 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.597)\|3.767 | 5.716 | (97.9)\|65.9 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/15/12 13:15 |
| Sample ID: SL-099-NBZ-SS-0.0-0.5 | Date Analyzed: 05/07/12 13:48 |
| Lab Samp ID: D031-07 | Dilution Factor: 1 |
| Lab File ID: KE07006A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : 8.2 |
| Calib. Ref.: KE07003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (3.7)\|2.8J | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.644\|(7.369) | 5.809 | 132*\|(127*) | 45-120 |
| TETRACHLORO-M-XYLENE | (8.613)\|4.492 | 5.809 | (148)\|77.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/15/12 13:15 |
| Sample ID: SL-100-NBZ-SS-0.0-0.5 | Date Analyzed: 05/07/12 14:40 |
| Lab Samp ID: D031-08 | Dilution Factor: 1 |
| Lab File ID: KE07007A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : 7.7 |
| Calib. Ref.: KE07003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.819)\|6.512 | 5.778 | (118)\|113 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.190)\|4.381 | 5.778 | (107)\|75.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/15/12 13:15 |
| Sample ID: SL-104-NBZ-SS-0.0-0.5 | Date Analyzed: 05/07/12 15:34 |
| Lab Samp ID: D031-09 | Dilution Factor: 1 |
| Lab File ID: KE07008A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : 7.1 |
| Calib. Ref.: KE07003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (3.4J)\|3.2J | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 6.973\|(6.409) | 5.741 | 121*\|(112) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.242)\|4.128 | 5.741 | (126)\|71.9 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/15/12 13:15 |
| Sample ID: SL-110-NBZ-SS-0.0-0.5 | Date Analyzed: 05/07/12 16:27 |
| Lab Samp ID: D031-10 | Dilution Factor: 1 |
| Lab File ID: KE07009A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : 7.6 |
| Calib. Ref.: KE07003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (3.7)\|2.7J | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 8.329\|(7.306) | 5.772 | 144*\|(127*) | 45-120 |
| TETRACHLORO-M-XYLENE | (8.554)\|5.268 | 5.772 | (148)\|91.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/15/12 13:15 |
| Sample ID: SL-114-NBZ-SS-0.0-0.5 | Date Analyzed: 05/07/12 17:20 |
| Lab Samp ID: D031-11 | Dilution Factor: 1 |
| Lab File ID: KE07010A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : 8.2 |
| Calib. Ref.: KE07003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | 4.3\|(2.9J) | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.508\|(6.884) | 5.809 | 129*\|(118) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.449)\|4.853 | 5.809 | (128)\|83.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/15/12 13:15 |
| Sample ID: SL-120-NBZ-SS-0.0-0.5 | Date Analyzed: 05/07/12 18:13 |
| Lab Samp ID: D031-12 | Dilution Factor: 1 |
| Lab File ID: KE07011A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : 7.5 |
| Calib. Ref.: KE07003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.981\|(7.159) | 5.765 | 138*\|(124*) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.180)\|4.169 | 5.765 | (125)\|72.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/15/12 13:15 |
| Sample ID: SL-155-NBZ-SS-0.0-0.5 | Date Analyzed: 05/07/12 19:06 |
| Lab Samp ID: D031-13 | Dilution Factor: 1 |
| Lab File ID: KE07012A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : 8.1 |
| Calib. Ref.: KE07003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.828\|(6.971) | 5.803 | 135*\|(120) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.350)\|4.787 | 5.803 | (127)\|82.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/15/12 13:15 |
| Sample ID: SL-181-NBZ-SS-0.0-0.5 | Date Analyzed: 05/07/12 20:00 |
| Lab Samp ID: D031-14 | Dilution Factor: 1 |
| Lab File ID: KE07013A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : 8.8 |
| Calib. Ref.: KE07003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 12.22\|(10.08) | 5.848 | 209*\|(172*) | 45-120 |
| TETRACHLORO-M-XYLENE | 12.07\|(7.228) | 5.848 | 206*\|(124) | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/15/12 13:15 |
| Sample ID: SL-187-NBZ-SS-0.0-0.5 | Date Analyzed: 05/07/12 20:53 |
| Lab Samp ID: D031-15 | Dilution Factor: 1 |
| Lab File ID: KE07014A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : 8.4 |
| Calib. Ref.: KE07003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (8.218)\|7.058 | 5.822 | (141*)\|121* | 45-120 |
| TETRACHLORO-M-XYLENE | (6.289)\|3.879 | 5.822 | (108)\|66.6 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/15/12 |
| Batch No. : 12D031 | Date Extracted: 04/15/12 13:15 |
| Sample ID: MBLK1S | Date Analyzed: 05/05/12 02:37 |
| Lab Samp ID: 60D037SB | Dilution Factor: 1 |
| Lab File ID: KE03048A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : NA |
| Calib. Ref.: KE03040A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.356)\|4.509 | 5.333 | (119)\|84.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.072)\|4.517 | 5.333 | (114)\|84.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60D037SB | 60D037SL | 60D037SC | | |
| LAB FILE ID: | KE03048A | KE03049A | KE03050A | | |
| DATE EXTRACTED: | 04/15/1213:15 | 04/15/1213:15 | 04/15/1213:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/05/1202:37 | 05/05/1203:30 | 05/05/1204:23 | DATE RECEIVED: | 04/15/12 |
| PREP. BATCH: | CPD037S | CPD037S | CPD037S | | |
| CALIB. REF: | KE03040A | KE03040A | KE03040A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | 110\|(63.7) | 165*\|(96) | 66.7 | 67.4\|(48.0) | 101\|(72) | 48\|(28) | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | 156\|(99.9) | 234*\|(150) | 66.7 | 84.1\|(67.1) | 126\|(101) | 60*\|(39) | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | 125\|(97.7) | 187*\|(147) | 66.7 | 60.3\|(52.6) | 90\|(79) | 70*\|(60*) | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | 13.34\|(8.564) | 250*\|(161*) | 5.333 | 6.545\|(4.700) | 123*\|(88.1) | 45-120 |
| Tetrachloro-m-xylene | 5.333 | 9.166\|(5.491) | 172*\|(103) | 5.333 | 6.014\|(4.506) | 113\|(84.5) | 10-160 |

METHOD 3520C/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/09/12 12:45 |
| Sample ID: EB-NBZ-SB-040412 | Date Analyzed: 05/05/12 00:50 |
| Lab Samp ID: D031-01 | Dilution Factor: 1.04 |
| Lab File ID: KE03046A | Matrix : WATER |
| Ext Btch ID: CPD019W | % Moisture : NA |
| Calib. Ref.: KE03040A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1221 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1232 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1242 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1248 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1254 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1260 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1262 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1268 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 5432 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 5442 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 5460 | (ND)\|ND | 2.1 | 1.0\|1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 0.5063\|(0.3530) | 0.4160 | 122*\|(84.8) | 45-120 |
| TETRACHLORO-M-XYLENE | (0.3916)\|0.2968 | 0.4160 | (94.1)\|71.4 | 30-140 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3520C/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/09/12 12:45 |
| Sample ID: EB-NBZ-SS-040412 | Date Analyzed: 05/05/12 01:44 |
| Lab Samp ID: D031-02 | Dilution Factor: 1.05 |
| Lab File ID: KE03047A | Matrix : WATER |
| Ext Btch ID: CPD019W | % Moisture : NA |
| Calib. Ref.: KE03040A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1221 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1232 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1242 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1248 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1254 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1260 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1262 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1268 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 5432 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 5442 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 5460 | (ND)\|ND | 2.1 | 1.0\|1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (0.4948)\|0.3472 | 0.4200 | (118)\|82.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (0.3635)\|0.2781 | 0.4200 | (86.5)\|66.2 | 30-140 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3520C/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D031 | Date Extracted: 04/09/12 12:45 |
| Sample ID: MBLK1W | Date Analyzed: 05/04/12 22:11 |
| Lab Samp ID: CPD019WB | Dilution Factor: 1 |
| Lab File ID: KE03043A | Matrix : WATER |
| Ext Btch ID: CPD019W | % Moisture : NA |
| Calib. Ref.: KE03040A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1221 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1232 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1242 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1248 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1254 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1260 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1262 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1268 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 5432 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5442 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5460 | (ND)\|ND | 2.0 | 1.0\|1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (0.4696)\|0.3346 | 0.4000 | (117)\|83.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (0.4302)\|0.2960 | 0.4000 | (108)\|74.0 | 30-140 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 3520C/8082

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | CPD019WB | 60D019WX | 60D019WY | | |
| LAB FILE ID: | KE03043A | KE03044A | KE03045A | | |
| DATE EXTRACTED: | 04/09/1212:45 | 04/09/1212:45 | 04/09/1212:45 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/04/1222:11 | 05/04/1223:04 | 05/04/1223:57 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | CPD019W | CPD019W | CPD019W | | |
| CALIB. REF: | KE03040A | KE03040A | KE03040A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 5.00 | (5.15)\|3.90 | (103)\|78 | 5.00 | (5.15)\|3.87 | (103)\|77 | (0)\|1 | 50-130 | 30 |
| Aroclor 1260 | (ND)\|ND | 5.00 | (6.21)\|5.19 | (124)\|104 | 5.00 | (6.26)\|5.17 | (125)\|103 | (1)\|0 | 60-150 | 30 |
| Aroclor 5460 | (ND)\|ND | 5.00 | (4.44)\|3.83 | (89)\|77 | 5.00 | (4.40)\|3.82 | (88)\|76 | (1)\|0 | 50-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 0.4000 | (0.4751)\|0.3399 | (119)\|85.0 | 0.4000 | (0.4651)\|0.3381 | (116)\|84.5 | 45-120 |
| Tetrachloro-m-xylene | 0.4000 | (0.4562)\|0.3459 | (114)\|86.5 | 0.4000 | (0.4480)\|0.3342 | (112)\|83.6 | 30-140 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/04/12 18:19 |
| Sample ID: EB-NBZ-SS-040412 | Date Analyzed: 04/09/12 15:29 |
| Lab Samp ID: D031-02 | Dilution Factor: 1 |
| Lab File ID: WD09015A | Matrix : WATER |
| Ext Btch ID: HED002W | % Moisture : NA |
| Calib. Ref.: WD09008A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4-DB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-T | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DALAPON | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICAMBA | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICHLOROPROP | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DINOSEB | (ND)\|0.39J | 0.80 | 0.20\|0.20 |
| MCPA | (ND)\|ND | 100 | 20\|20 |
| MCPP | (ND)\|ND | 100 | 20\|20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (9.487)\|8.323 | 10.00 | (94.9)\|83.2 | 40-140 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/04/12 18:19 |
| Sample ID: MBLK1W | Date Analyzed: 04/09/12 13:28 |
| Lab Samp ID: HED002WB | Dilution Factor: 1 |
| Lab File ID: WD09009A | Matrix : WATER |
| Ext Btch ID: HED002W | % Moisture : NA |
| Calib. Ref.: WD09008A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4-DB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-T | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DALAPON | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICAMBA | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICHLOROPROP | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DINOSEB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| MCPA | (ND)\|ND | 100 | 20\|20 |
| MCPP | (ND)\|ND | 100 | 20\|20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (10.23)\|9.117 | 10.00 | (102)\|91.2 | 40-140 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 8151A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HED002WB | HED002WL | HED002WC | | |
| LAB FILE ID: | WD09009A | WD09010A | WD09011A | | |
| DATE EXTRACTED: | 04/04/1218:19 | 04/04/1218:19 | 04/04/1218:19 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/09/1213:28 | 04/09/1213:48 | 04/09/1214:08 | DATE RECEIVED: | 04/04/12 |
| PREP. BATCH: | HED002W | HED002W | HED002W | | |
| CALIB. REF: | WD09008A | WD09008A | WD09008A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 1.00 | (1.05)\|0.966 | (105)\|97 | 1.00 | (1.11)\|0.998 | (111)\|100 | (6)\|3 | 40-130 | 30 |
| 2,4-DB | (ND)\|ND | 1.00 | 0.915\|(1.01) | 92\|(101) | 1.00 | 0.942\|(0.964) | 94\|(96) | 3\|(5) | 30-160 | 30 |
| 2,4,5-T | (ND)\|ND | 1.00 | (0.971)\|0.917 | (97)\|92 | 1.00 | (1.01)\|0.957 | (101)\|96 | (4)\|4 | 40-140 | 30 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 1.00 | (1.02)\|0.941 | (102)\|94 | 1.00 | (1.08)\|0.983 | (108)\|98 | (6)\|4 | 60-140 | 30 |
| Dalapon | (ND)\|ND | 1.00 | 0.620J\|(0.654J) | 62\|(65) | 1.00 | 0.646J\|(0.673J) | 65\|(67) | 4\|(3) | 30-130 | 30 |
| Dicamba | (ND)\|ND | 1.00 | (0.949)\|0.903 | (95)\|90 | 1.00 | (0.981)\|0.938 | (98)\|94 | (3)\|4 | 50-130 | 30 |
| Dichloroprop | (ND)\|ND | 1.00 | 1.06\|(1.07) | 106\|(107) | 1.00 | (1.11)\|1.03 | (111)\|103 | (5)\|4 | 70-150 | 30 |
| Dinoseb | (ND)\|ND | 1.00 | (0.849)\|0.795J | (85)\|80 | 1.00 | (0.896)\|0.745J | (90)\|74 | (5)\|6 | 20-130 | 30 |
| MCPA | (ND)\|ND | 50.0 | (55.8J)\|49.6J | (112)\|99 | 50.0 | (58.0J)\|50.5J | (116)\|101 | (4)\|2 | 30-150 | 30 |
| MCPP | (ND)\|ND | 50.0 | (51.8J)\|40.9J | (104)\|82 | 50.0 | (56.2J)\|42.3J | (112)\|85 | (8)\|3 | 30-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 10.00 | (10.52)\|9.605 | (105)\|96.1 | 10.00 | (10.41)\|9.435 | (104)\|94.4 | 40-140 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 17:49 |
| Sample ID: SL-020-NBZ-SB-2.5-3.5 | Date Analyzed: 04/18/12 17:56 |
| Lab Samp ID: D031-04 | Dilution Factor: 1 |
| Lab File ID: WD18006A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : 11.7 |
| Calib. Ref.: WD18002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.096\|0.096 |
| 2,4,5-TP(SILVEX) | 0.21\|(ND) | 0.19 | 0.096\|0.096 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.68\|0.68 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (218.2)\|153.9 | 169.9 | (128)\|90.6 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 17:49 |
| Sample ID: SL-020-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 18:17 |
| Lab Samp ID: D031-05 | Dilution Factor: 1 |
| Lab File ID: WD18007A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : 9.7 |
| Calib. Ref.: WD18002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.94\|0.94 |
| 2,4,5-T | 1.1\|(ND) | 0.19 | 0.094\|0.094 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.094\|0.094 |
| DALAPON | (ND)\|ND | 10 | 5.0\|5.0 |
| DICAMBA | (ND)\|ND | 1.3 | 0.66\|0.66 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.94\|0.94 |
| MCPA | 200J\|(ND) | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (194.4)\|149.7 | 166.1 | (117)\|90.1 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 17:49 |
| Sample ID: SL-097-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 18:37 |
| Lab Samp ID: D031-06 | Dilution Factor: 1 |
| Lab File ID: WD18008A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : 6.7 |
| Calib. Ref.: WD18002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| 2,4-DB | 2.2 \| (ND) | 1.8 | 0.91 \| 0.91 |
| 2,4,5-T | 0.57 \| (ND) | 0.18 | 0.091 \| 0.091 |
| 2,4,5-TP(SILVEX) | 0.45 \| (ND) | 0.18 | 0.091 \| 0.091 |
| DALAPON | (ND) \| ND | 9.6 | 4.8 \| 4.8 |
| DICAMBA | (ND) \| ND | 1.3 | 0.64 \| 0.64 |
| DICHLOROPROP | (ND) \| ND | 2.6 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.8 | 0.91 \| 0.91 |
| MCPA | (ND) \| ND | 270 | 130 \| 130 |
| MCPP | (ND) \| ND | 270 | 130 \| 130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (208.7) \| 137.0 | 160.8 | (130) \| 85.2 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 17:49 |
| Sample ID: SL-099-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 18:57 |
| Lab Samp ID: D031-07 | Dilution Factor: 1 |
| Lab File ID: WD18009A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : 8.2 |
| Calib. Ref.: WD18002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 2.0\|2.0 |
| 2,4-DB | 2.6\|(ND) | 1.9 | 0.93\|0.93 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.093\|0.093 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.093\|0.093 |
| DALAPON | (ND)\|ND | 9.8 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.65\|0.65 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (158.6)\|133.1 | 163.4 | (97.1)\|81.4 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 17:49 |
| Sample ID: SL-100-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 19:18 |
| Lab Samp ID: D031-08 | Dilution Factor: 1 |
| Lab File ID: WD18010A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : 7.7 |
| Calib. Ref.: WD18002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 2.0\|2.0 |
| 2,4-DB | 3.0\|(ND) | 1.8 | 0.92\|0.92 |
| 2,4,5-T | 0.21\|(ND) | 0.18 | 0.092\|0.092 |
| 2,4,5-TP(SILVEX) | 0.30\|(ND) | 0.18 | 0.092\|0.092 |
| DALAPON | (ND)\|ND | 9.8 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.65\|0.65 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.8 | 0.92\|0.92 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (196.4)\|134.5 | 162.5 | (121)\|82.7 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 17:49 |
| Sample ID: SL-104-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 19:38 |
| Lab Samp ID: D031-09 | Dilution Factor: 1 |
| Lab File ID: WD18011A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : 7.1 |
| Calib. Ref.: WD18002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 1.9\|1.9 |
| 2,4-DB | 21\|(ND) | 1.8 | 0.91\|0.91 |
| 2,4,5-T | 3.1\|(ND) | 0.18 | 0.091\|0.091 |
| 2,4,5-TP(SILVEX) | 4.9\|(ND) | 0.18 | 0.091\|0.091 |
| DALAPON | (ND)\|ND | 9.7 | 4.8\|4.8 |
| DICAMBA | (ND)\|ND | 1.3 | 0.65\|0.65 |
| DICHLOROPROP | (ND)\|23 | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.8 | 0.91\|0.91 |
| MCPA | (ND)\|ND | 270 | 130\|130 |
| MCPP | (ND)\|ND | 270 | 130\|130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (169.2)\|144.0 | 161.5 | (105)\|89.2 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 17:49 |
| Sample ID: SL-110-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 19:59 |
| Lab Samp ID: D031-10 | Dilution Factor: 1 |
| Lab File ID: WD18012A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : 7.6 |
| Calib. Ref.: WD18002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| 2,4-DB | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| 2,4,5-T | 2.8 \| (ND) | 0.18 | 0.092 \| 0.092 |
| 2,4,5-TP(SILVEX) | 23 \| (ND) | 0.18 | 0.092 \| 0.092 |
| DALAPON | (ND) \| 16 | 9.7 | 4.9 \| 4.9 |
| DICAMBA | (ND) \| ND | 1.3 | 0.65 \| 0.65 |
| DICHLOROPROP | (ND) \| 23 | 2.6 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| MCPA | (ND) \| ND | 270 | 140 \| 140 |
| MCPP | (ND) \| ND | 270 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (179.6) \| 156.2 | 162.3 | (111) \| 96.2 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 17:49 |
| Sample ID: SL-114-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 20:19 |
| Lab Samp ID: D031-11 | Dilution Factor: 1 |
| Lab File ID: WD18013A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : 8.2 |
| Calib. Ref.: WD18002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 3.9 | 2.0 \| 2.0 |
| 2,4-DB | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| 2,4,5-T | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| 2,4,5-TP(SILVEX) | 12 \| (ND) | 0.19 | 0.093 \| 0.093 |
| DALAPON | (ND) \| 4.9J | 9.8 | 4.9 \| 4.9 |
| DICAMBA | 0.88J \| (ND) | 1.3 | 0.65 \| 0.65 |
| DICHLOROPROP | (ND) \| 18 | 2.6 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| MCPA | 230J \| (ND) | 270 | 140 \| 140 |
| MCPP | (ND) \| ND | 270 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (151.0) \| 131.1 | 163.4 | (92.4) \| 80.2 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 17:49 |
| Sample ID: SL-120-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 20:39 |
| Lab Samp ID: D031-12 | Dilution Factor: 1 |
| Lab File ID: WD18014A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : 7.5 |
| Calib. Ref.: WD18002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 1.9\|1.9 |
| 2,4-DB | (ND)\|ND | 1.8 | 0.92\|0.92 |
| 2,4,5-T | (ND)\|0.30 | 0.18 | 0.092\|0.092 |
| 2,4,5-TP(SILVEX) | 50\|(ND) | 0.18 | 0.092\|0.092 |
| DALAPON | (ND)\|11 | 9.7 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.65\|0.65 |
| DICHLOROPROP | (ND)\|46 | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.8 | 0.92\|0.92 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (149.2)\|140.0 | 162.2 | (92.0)\|86.4 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 17:49 |
| Sample ID: SL-155-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 21:00 |
| Lab Samp ID: D031-13 | Dilution Factor: 1 |
| Lab File ID: WD18015A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : 8.1 |
| Calib. Ref.: WD18002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.8 | 0.92\|0.92 |
| 2,4,5-T | 0.63\|(ND) | 0.18 | 0.092\|0.092 |
| 2,4,5-TP(SILVEX) | 0.46\|(ND) | 0.18 | 0.092\|0.092 |
| DALAPON | (ND)\|ND | 9.8 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.65\|0.65 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.8 | 0.92\|0.92 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (190.5)\|135.1 | 163.2 | (117)\|82.7 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/04/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/04/12 |
| Batch No. | : 12D031 | Date Extracted | : 04/17/12 17:49 |
| Sample ID | : SL-181-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/18/12 21:20 |
| Lab Samp ID | : D031-14 | Dilution Factor | : 1 |
| Lab File ID | : WD18016A | Matrix | : SOIL |
| Ext Btch ID | : HED008S | % Moisture | : 8.8 |
| Calib. Ref. | : WD18002A | Instrument ID | : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 2.0\|2.0 |
| 2,4-DB | 3.2\|(ND) | 1.9 | 0.93\|0.93 |
| 2,4,5-T | 0.23\|(ND) | 0.19 | 0.093\|0.093 |
| 2,4,5-TP(SILVEX) | 0.45\|(ND) | 0.19 | 0.093\|0.093 |
| DALAPON | (ND)\|ND | 9.9 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.66\|0.66 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| MCPA | 200J\|(ND) | 270 | 140\|140 |
| MCPP | 1700\|(ND) | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (217.4)\|156.6 | 164.5 | (132)\|95.2 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 17:49 |
| Sample ID: SL-187-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 21:40 |
| Lab Samp ID: D031-15 | Dilution Factor: 1 |
| Lab File ID: WD18017A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : 8.4 |
| Calib. Ref.: WD18002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 3.9 | 2.0 \| 2.0 |
| 2,4-DB | 4.3 \| (ND) | 1.9 | 0.93 \| 0.93 |
| 2,4,5-T | 0.50 \| (ND) | 0.19 | 0.093 \| 0.093 |
| 2,4,5-TP(SILVEX) | 0.54 \| (ND) | 0.19 | 0.093 \| 0.093 |
| DALAPON | (ND) \| ND | 9.8 | 4.9 \| 4.9 |
| DICAMBA | (ND) \| ND | 1.3 | 0.66 \| 0.66 |
| DICHLOROPROP | (ND) \| ND | 2.6 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| MCPA | 160J \| (ND) | 270 | 140 \| 140 |
| MCPP | (ND) \| ND | 270 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (214.5) \| 145.0 | 163.8 | (131) \| 88.6 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D031 | Date Extracted: 04/17/12 17:49 |
| Sample ID: MBLK1S | Date Analyzed: 04/18/12 16:55 |
| Lab Samp ID: HED008SB | Dilution Factor: 1 |
| Lab File ID: WD18003A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : NA |
| Calib. Ref.: WD18002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | 13\|(ND) | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (149.3)\|113.3 | 150.0 | (99.6)\|75.6 | 10-150 |

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Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HED008SB | HED008SL | HED008SC | | |
| LAB FILE ID: | WD18003A | WD18004A | WD18005A | | |
| DATE EXTRACTED: | 04/17/1217:49 | 04/17/1217:49 | 04/17/1217:49 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/18/1216:55 | 04/18/1217:16 | 04/18/1217:36 | DATE RECEIVED: | 04/17/12 |
| PREP. BATCH: | HED008S | HED008S | HED008S | | |
| CALIB. REF: | WD18002A | WD18002A | WD18002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | (16.5)\|14.3 | (110)\|95 | 15.0 | (17.5)\|15.4 | (117)\|103 | (6)\|7 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 14.5\|(15.2) | 97\|(101) | 15.0 | 13.3\|(20.0) | 89\|(133) | 9\|(27) | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | (16.0)\|14.8 | (107)\|99 | 15.0 | 16.0\|(16.8) | 107\|(112) | 0\|(13) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | 13\|(ND) | 15.0 | (16.0)\|14.6 | (107)\|97 | 15.0 | 17.7\|(18.7) | 118\|(125) | 10\|(25) | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | 9.33\|(11.1) | 62\|(74) | 15.0 | 7.85J\|(8.08J) | 52\|(54) | 17\|(31) | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (15.4)\|13.2 | (103)\|88 | 15.0 | (16.3)\|13.5 | (109)\|90 | (6)\|2 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | (16.9)\|16.4 | (113)\|109 | 15.0 | (17.5)\|17.1 | (117)\|114 | (3)\|4 | 60-160 | 50 |
| Dinoseb | (ND)\|ND | 15.0 | (10.4)\|9.75 | (69)\|65 | 15.0 | 12.9\|(14.0) | 86\|(93) | 21\|(36) | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (788)\|631 | (105)\|84 | 750 | (791)\|675 | (105)\|90 | (0)\|7 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | (729)\|542 | (97)\|72 | 750 | (795)\|530 | (106)\|71 | (9)\|2 | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 (166.4)\|130.7 | (111)\|87.1 | 150.0 | (169.3)\|134.8 | (113)\|89.9 | 10-150 | |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/07/12 15:48 |
| Sample ID: EB-NBZ-SB-040412 | Date Analyzed: 04/09/12 18:11 |
| Lab Samp ID: D031-01 | Dilution Factor: 1 |
| Lab File ID: XD09016A | Matrix : WATER |
| Ext Btch ID: EXD005W | % Moisture : NA |
| Calib. Ref.: XD09004A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | ND | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 3.91 | 4.000 | 97.7 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/07/12 15:48 |
| Sample ID: EB-NBZ-SS-040412 | Date Analyzed: 04/09/12 18:45 |
| Lab Samp ID: D031-02 | Dilution Factor: 1 |
| Lab File ID: XD09017A | Matrix : WATER |
| Ext Btch ID: EXD005W | % Moisture : NA |
| Calib. Ref.: XD09004A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | ND | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 3.43 | 4.000 | 85.7 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/07/12 |
| Batch No. : 12D031 | Date Extracted: 04/07/12 15:48 |
| Sample ID: MBLK1W | Date Analyzed: 04/09/12 15:20 |
| Lab Samp ID: EXD005WB | Dilution Factor: 1 |
| Lab File ID: XD09011A | Matrix : WATER |
| Ext Btch ID: EXD005W | % Moisture : NA |
| Calib. Ref.: XD09004A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | ND | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 4.00 | 4.000 | 99.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 8330A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | EXD005WB | EXD005WL | EXD005WC | | |
| LAB FILE ID: | XD09011A | XD09012A | XD09013A | | |
| DATE EXTRACTED: | 04/07/1215:48 | 04/07/1215:48 | 04/07/1215:48 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/09/1215:20 | 04/09/1215:54 | 04/09/1216:28 | DATE RECEIVED: | 04/07/12 |
| PREP. BATCH: | EXD005W | EXD005W | EXD005W | | |
| CALIB. REF: | XD09004A | XD09004A | XD09004A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 4.00 | 2.92 | 73 | 4.00 | 3.28 | 82 | 12 | 70-130 | 30 |
| RDX | ND | 4.00 | 2.89 | 72 | 4.00 | 3.18 | 79 | 9 | 60-130 | 30 |
| 1,3,5-Trinitrobenzene | ND | 4.00 | 3.63 | 91 | 4.00 | 3.99 | 100 | 9 | 70-130 | 30 |
| 1,3-Dinitrobenzene | ND | 4.00 | 3.21 | 80 | 4.00 | 3.57 | 89 | 11 | 70-130 | 30 |
| Tetryl | ND | 4.00 | 3.58 | 90 | 4.00 | 3.85 | 96 | 7 | 70-130 | 30 |
| Nitrobenzene | ND | 4.00 | 3.30 | 82 | 4.00 | 3.48 | 87 | 5 | 70-130 | 30 |
| 2,4,6-Trinitrotoluene | ND | 4.00 | 3.18 | 79 | 4.00 | 3.52 | 88 | 10 | 70-130 | 30 |
| 4-Amino-2,6-Dinitrotoluene | ND | 4.00 | 3.40 | 85 | 4.00 | 3.75 | 94 | 10 | 70-130 | 30 |
| 2-Amino-4,6-Dinitrotoluene | ND | 4.00 | 3.23 | 81 | 4.00 | 3.57 | 89 | 10 | 70-130 | 30 |
| 2,6-Dinitrotoluene | ND | 4.00 | 3.57 | 89 | 4.00 | 3.83 | 96 | 7 | 70-130 | 30 |
| 2,4-Dinitrotoluene | ND | 4.00 | 3.65 | 91 | 4.00 | 4.12 | 103 | 12 | 70-130 | 30 |
| 2-Nitrotoluene | ND | 4.00 | 3.28 | 82 | 4.00 | 3.58 | 89 | 9 | 70-130 | 30 |
| 3-Nitrotoluene | ND | 4.00 | 3.03 | 76 | 4.00 | 3.37 | 84 | 10 | 70-130 | 30 |
| 4-Nitrotoluene | ND | 4.00 | 3.35 | 84 | 4.00 | 3.36 | 84 | 0 | 70-130 | 30 |
| 2,4-Diamino-6-nitrotoluene | ND | 4.00 | 1.22J | 30 | 4.00 | 1.31J | 33 | 7 | 20-130 | 30 |
| 2,6-Diamino-4-nitrotoluene | ND | 4.00 | 1.45J | 36 | 4.00 | 1.49J | 37 | 3 | 20-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 4.00 | 3.53 | 88 | 4.00 | 4.01 | 100 | 65-135 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/12/12 19:33 |
| Sample ID: SL-020-NBZ-SB-2.5-3.5 | Date Analyzed: 04/13/12 22:28 |
| Lab Samp ID: D031-04 | Dilution Factor: 1 |
| Lab File ID: XD13017A | Matrix : SOIL |
| Ext Btch ID: EXD009S | % Moisture : NA |
| Calib. Ref.: XD13013A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1920 | 2000 | 95.8 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D031 | Date Extracted: 04/12/12 19:33 |
| Sample ID: MBLK1S | Date Analyzed: 04/13/12 14:30 |
| Lab Samp ID: EXD009SB | Dilution Factor: 1 |
| Lab File ID: XD13003A | Matrix : SOIL |
| Ext Btch ID: EXD009S | % Moisture : NA |
| Calib. Ref.: XD13002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1890 | 2000 | 94.3 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD009SB | EXD009SL | EXD009SC | | |
| LAB FILE ID: | XD13003A | XD13004A | XD13005A | | |
| DATE EXTRACTED: | 04/12/1219:33 | 04/12/1219:33 | 04/12/1219:33 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/13/1214:30 | 04/13/1215:05 | 04/13/1215:39 | DATE RECEIVED: | 04/12/12 |
| PREP. BATCH: | EXD009S | EXD009S | EXD009S | | |
| CALIB. REF: | XD13002A | XD13002A | XD13002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 1730 | 86 | 2000 | 1710 | 86 | 1 | 70-130 | 50 |
| RDX | ND | 2000 | 1920 | 96 | 2000 | 1940 | 97 | 1 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2080 | 104 | 2000 | 2140 | 107 | 3 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2070 | 103 | 2000 | 2060 | 103 | 1 | 70-130 | 50 |
| Tetryl | ND | 2000 | 2000 | 100 | 2000 | 1980 | 99 | 1 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 2150 | 108 | 2000 | 2120 | 106 | 2 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 1910 | 96 | 2000 | 1910 | 96 | 0 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 1880 | 94 | 2000 | 1850 | 93 | 2 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 1830 | 91 | 2000 | 1790 | 89 | 2 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2070 | 103 | 2000 | 2020 | 101 | 3 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2120 | 106 | 2000 | 2100 | 105 | 1 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 1920 | 96 | 2000 | 1900 | 95 | 1 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1790 | 89 | 2000 | 1870 | 94 | 5 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 1690 | 85 | 2000 | 1820 | 91 | 7 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1920 | 96 | 2000 | 1930 | 96 | 0 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2130 | 106 | 2000 | 2160 | 108 | 1 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1870 | 93 | 2000 | 1920 | 96 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/04/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/04/12 |
| Batch No. | : 12D031 | Date Extracted | : 04/07/12 15:43 |
| Sample ID | : EB-NBZ-SB-040412 | Date Analyzed | : 04/09/12 22:06 |
| Lab Samp ID | : D031-01 | Dilution Factor | : 1 |
| Lab File ID | : PD09032A | Matrix | : WATER |
| Ext Btch ID | : EXD004W | % Moisture | : NA |
| Calib. Ref. | : PD09026A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 579 | 500.0 | 116 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/04/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/04/12 |
| Batch No. | : 12D031 | Date Extracted | : 04/07/12 15:43 |
| Sample ID | : EB-NBZ-SS-040412 | Date Analyzed | : 04/09/12 22:20 |
| Lab Samp ID | : D031-02 | Dilution Factor | : 1 |
| Lab File ID | : PD09033A | Matrix | : WATER |
| Ext Btch ID | : EXD004W | % Moisture | : NA |
| Calib. Ref. | : PD09026A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 589 | 500.0 | 118 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/07/12 |
| Batch No. | : 12D031 | Date Extracted | : 04/07/12 15:43 |
| Sample ID | : MBLK1W | Date Analyzed | : 04/09/12 20:49 |
| Lab Samp ID | : EXD004WB | Dilution Factor | : 1 |
| Lab File ID | : PD09027A | Matrix | : WATER |
| Ext Btch ID | : EXD004W | % Moisture | : NA |
| Calib. Ref. | : PD09026A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 584 | 500.0 | 117 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: Method 8332

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | EXD004WB | EXD004WL | EXD004WC | | |
| LAB FILE ID: | PD09027A | PD09028A | PD09029A | | |
| DATE EXTRACTED: | 04/07/1215:43 | 04/07/1215:43 | 04/07/1215:43 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/09/1220:49 | 04/09/1221:03 | 04/09/1221:17 | DATE RECEIVED: | 04/07/12 |
| PREP. BATCH: | EXD004W | EXD004W | EXD004W | | |
| CALIB. REF: | PD09026A | PD09026A | PD09026A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 1870 | 1920 | 103 | 1870 | 1990 | 106 | 3 | 50-150 | 30 |
| PETN | ND | 1870 | 1820 | 97 | 1870 | 1840 | 98 | 1 | 50-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 500 | 566 | 113 | 500 | 576 | 115 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| Batch No. : 12D031 | Date Extracted: 04/12/12 19:33 |
| Sample ID: SL-020-NBZ-SB-2.5-3.5 | Date Analyzed: 04/13/12 18:27 |
| Lab Samp ID: D031-04 | Dilution Factor: 1 |
| Lab File ID: PD13017A | Matrix : SOIL |
| Ext Btch ID: EXD009S | % Moisture : NA |
| Calib. Ref.: PD13013A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2330 | 2000 | 117 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D031 | Date Extracted: 04/12/12 19:33 |
| Sample ID: MBLK1S | Date Analyzed: 04/13/12 15:14 |
| Lab Samp ID: EXD009SB | Dilution Factor: 1 |
| Lab File ID: PD13003A | Matrix : SOIL |
| Ext Btch ID: EXD009S | % Moisture : NA |
| Calib. Ref.: PD13002A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2320 | 2000 | 116 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD009SB | EXD009SX | EXD009SY | | |
| LAB FILE ID: | PD13003A | PD13004A | PD13005A | | |
| DATE EXTRACTED: | 04/12/1219:33 | 04/12/1219:33 | 04/12/1219:33 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/13/1215:14 | 04/13/1215:27 | 04/13/1215:41 | DATE RECEIVED: | 04/12/12 |
| PREP. BATCH: | EXD009S | EXD009S | EXD009S | | |
| CALIB. REF: | PD13002A | PD13002A | PD13002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7360 | 98 | 7500 | 7640 | 102 | 4 | 50-150 | 50 |
| PETN | ND | 7500 | 6980 | 93 | 7500 | 7150 | 95 | 2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2310 | 116 | 2000 | 2280 | 114 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| SDG NO. : 12D031 | Date Extracted: 04/13/12 11:55 |
| Sample ID: EB-NBZ-SB-040412 | Date Analyzed: 04/23/12 16:07 |
| Lab Samp ID: D031-01 | Dilution Factor: 1 |
| Lab File ID: 98D14029 | Matrix : WATER |
| Ext Btch ID: IMD020W | % Moisture : NA |
| Calib. Ref.: 98D14024 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Aluminum | ND | 0.100 | 0.0200 |
| Antimony | ND | 0.00100 | 0.000500 |
| Arsenic | ND | 0.00100 | 0.000200 |
| Barium | ND | 0.00100 | 0.000500 |
| Beryllium | ND | 0.00100 | 0.000100 |
| Boron | ND | 0.0100 | 0.00500 |
| Cadmium | ND | 0.00100 | 0.000200 |
| Calcium | 0.0253J | 0.100 | 0.0250 |
| Chromium | ND | 0.00100 | 0.000200 |
| Cobalt | ND | 0.00100 | 0.000200 |
| Copper | ND | 0.00100 | 0.000500 |
| Iron | ND | 0.100 | 0.0100 |
| Lead | ND | 0.00100 | 0.000100 |
| Magnesium | ND | 0.100 | 0.0100 |
| Manganese | ND | 0.00100 | 0.000200 |
| Molybdenum | ND | 0.00200 | 0.000500 |
| Nickel | ND | 0.00100 | 0.000200 |
| Potassium | ND | 0.100 | 0.0200 |
| Selenium | ND | 0.00100 | 0.000300 |
| Silver | ND | 0.00100 | 0.000200 |
| Sodium | ND | 0.100 | 0.0500 |
| Strontium | ND | 0.00200 | 0.00100 |
| Thallium | ND | 0.00100 | 0.000200 |
| Tin | ND | 0.00100 | 0.000200 |
| Titanium | ND | 0.00200 | 0.000500 |
| Vanadium | ND | 0.00100 | 0.000500 |
| Zinc | 0.0146J | 0.0200 | 0.0100 |
| Lithium | ND | 0.00200 | 0.000500 |
| Phosphorus | ND | 0.0500 | 0.0250 |
| Zirconium | ND | 0.00500 | 0.00200 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/04/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/04/12 |
| SDG NO. | : 12D031 | Date Extracted | : 04/13/12 11:55 |
| Sample ID | : EB-NBZ-SS-040412 | Date Analyzed | : 04/23/12 16:11 |
| Lab Samp ID | : D031-02 | Dilution Factor | : 1 |
| Lab File ID | : 98D14030 | Matrix | : WATER |
| Ext Btch ID | : IMD020W | % Moisture | : NA |
| Calib. Ref. | : 98D14024 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Aluminum | ND | 0.100 | 0.0200 |
| Antimony | ND | 0.00100 | 0.000500 |
| Arsenic | ND | 0.00100 | 0.000200 |
| Barium | ND | 0.00100 | 0.000500 |
| Beryllium | ND | 0.00100 | 0.000100 |
| Boron | ND | 0.0100 | 0.00500 |
| Cadmium | ND | 0.00100 | 0.000200 |
| Calcium | ND | 0.100 | 0.0250 |
| Chromium | 0.000239J | 0.00100 | 0.000200 |
| Cobalt | ND | 0.00100 | 0.000200 |
| Copper | 0.000719J | 0.00100 | 0.000500 |
| Iron | ND | 0.100 | 0.0100 |
| Lead | ND | 0.00100 | 0.000100 |
| Magnesium | ND | 0.100 | 0.0100 |
| Manganese | ND | 0.00100 | 0.000200 |
| Molybdenum | ND | 0.00200 | 0.000500 |
| Nickel | ND | 0.00100 | 0.000200 |
| Potassium | ND | 0.100 | 0.0200 |
| Selenium | ND | 0.00100 | 0.000300 |
| Silver | ND | 0.00100 | 0.000200 |
| Sodium | ND | 0.100 | 0.0500 |
| Strontium | ND | 0.00200 | 0.00100 |
| Thallium | ND | 0.00100 | 0.000200 |
| Tin | ND | 0.00100 | 0.000200 |
| Titanium | ND | 0.00200 | 0.000500 |
| Vanadium | ND | 0.00100 | 0.000500 |
| Zinc | ND | 0.0200 | 0.0100 |
| Lithium | ND | 0.00200 | 0.000500 |
| Phosphorus | ND | 0.0500 | 0.0250 |
| Zirconium | ND | 0.00500 | 0.00200 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/13/12 |
| SDG NO. : 12D031 | Date Extracted: 04/13/12 11:55 |
| Sample ID: MBLK1W | Date Analyzed: 04/23/12 15:53 |
| Lab Samp ID: IMD020WB | Dilution Factor: 1 |
| Lab File ID: 98D14026 | Matrix : WATER |
| Ext Btch ID: IMD020W | % Moisture : NA |
| Calib. Ref.: 98D14024 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Aluminum | ND | 0.100 | 0.0200 |
| Antimony | ND | 0.00100 | 0.000500 |
| Arsenic | ND | 0.00100 | 0.000200 |
| Barium | ND | 0.00100 | 0.000500 |
| Beryllium | ND | 0.00100 | 0.000100 |
| Boron | ND | 0.0100 | 0.00500 |
| Cadmium | ND | 0.00100 | 0.000200 |
| Calcium | ND | 0.100 | 0.0250 |
| Chromium | ND | 0.00100 | 0.000200 |
| Cobalt | ND | 0.00100 | 0.000200 |
| Copper | ND | 0.00100 | 0.000500 |
| Iron | ND | 0.100 | 0.0100 |
| Lead | ND | 0.00100 | 0.000100 |
| Magnesium | ND | 0.100 | 0.0100 |
| Manganese | ND | 0.00100 | 0.000200 |
| Molybdenum | ND | 0.00200 | 0.000500 |
| Nickel | ND | 0.00100 | 0.000200 |
| Potassium | ND | 0.100 | 0.0200 |
| Selenium | ND | 0.00100 | 0.000300 |
| Silver | ND | 0.00100 | 0.000200 |
| Sodium | ND | 0.100 | 0.0500 |
| Strontium | ND | 0.00200 | 0.00100 |
| Thallium | ND | 0.00100 | 0.000200 |
| Tin | ND | 0.00100 | 0.000200 |
| Titanium | ND | 0.00200 | 0.000500 |
| Vanadium | ND | 0.00100 | 0.000500 |
| Zinc | ND | 0.0200 | 0.0100 |
| Lithium | ND | 0.00200 | 0.000500 |
| Phosphorus | ND | 0.0500 | 0.0250 |
| Zirconium | ND | 0.00500 | 0.00200 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D031
METHOD: METHOD 6020

MATRIX: WATER % MOISTURE: NA
DILTN FACTR: 1 1 1
SAMPLE ID: MBLK1W
CONTROL NO.: IMD020WB IMD020WL IMD020WC
LAB FILE ID: 98D14026 98D14032 98D14033
DATIME EXTRCTD: 04/13/1211:55 04/13/1211:55 04/13/1211:55 DATE COLLECTED: NA
DATIME ANALYZD: 04/23/1215:53 04/23/1216:21 04/23/1216:25 DATE RECEIVED: 04/13/12
PREP. BATCH: IMD020W IMD020W IMD020W
CALIB. REF: 98D14024 98D14024 98D14024

ACCESSION:

| PARAMETER | BLNK RSLT mg/L | SPIKE AMT mg/L | BS RSLT mg/L | BS % REC | SPIKE AMT mg/L | BSD RSLT mg/L | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2.50 | 2.66 | 107 | 2.50 | 2.70 | 108 | 1 | 80-120 | 20 |
| Antimony | ND | 0.0250 | 0.0264 | 105 | 0.0250 | 0.0261 | 105 | 1 | 80-120 | 20 |
| Arsenic | ND | 0.0250 | 0.0262 | 105 | 0.0250 | 0.0260 | 104 | 1 | 80-120 | 20 |
| Barium | ND | 0.0250 | 0.0254 | 102 | 0.0250 | 0.0250 | 100 | 2 | 80-120 | 20 |
| Beryllium | ND | 0.0250 | 0.0266 | 106 | 0.0250 | 0.0261 | 105 | 2 | 80-120 | 20 |
| Boron | ND | 0.0250 | 0.0275 | 110 | 0.0250 | 0.0274 | 110 | 0 | 80-120 | 20 |
| Cadmium | ND | 0.0250 | 0.0252 | 101 | 0.0250 | 0.0252 | 101 | 0 | 80-120 | 20 |
| Calcium | ND | 2.50 | 2.69 | 108 | 2.50 | 2.73 | 109 | 1 | 80-120 | 20 |
| Chromium | ND | 0.0250 | 0.0260 | 104 | 0.0250 | 0.0255 | 102 | 2 | 80-120 | 20 |
| Cobalt | ND | 0.0250 | 0.0256 | 103 | 0.0250 | 0.0258 | 103 | 1 | 80-120 | 20 |
| Copper | ND | 0.0250 | 0.0260 | 104 | 0.0250 | 0.0254 | 102 | 2 | 80-120 | 20 |
| Iron | ND | 2.50 | 2.66 | 107 | 2.50 | 2.68 | 107 | 1 | 80-120 | 20 |
| Lead | ND | 0.0250 | 0.0254 | 102 | 0.0250 | 0.0251 | 100 | 1 | 80-120 | 20 |
| Magnesium | ND | 2.50 | 2.63 | 105 | 2.50 | 2.67 | 107 | 1 | 80-120 | 20 |
| Manganese | ND | 0.0250 | 0.0259 | 104 | 0.0250 | 0.0259 | 104 | 0 | 80-120 | 20 |
| Molybdenum | ND | 0.0250 | 0.0259 | 104 | 0.0250 | 0.0259 | 104 | 0 | 80-120 | 20 |
| Nickel | ND | 0.0250 | 0.0258 | 103 | 0.0250 | 0.0253 | 101 | 2 | 80-120 | 20 |
| Potassium | ND | 2.50 | 2.66 | 106 | 2.50 | 2.68 | 107 | 1 | 80-120 | 20 |
| Selenium | ND | 0.0250 | 0.0259 | 104 | 0.0250 | 0.0258 | 103 | 0 | 80-120 | 20 |
| Silver | ND | 0.0250 | 0.0247 | 99 | 0.0250 | 0.0248 | 99 | 1 | 80-120 | 20 |
| Sodium | ND | 2.50 | 2.60 | 104 | 2.50 | 2.61 | 104 | 0 | 80-120 | 20 |
| Strontium | ND | 0.0250 | 0.0268 | 107 | 0.0250 | 0.0265 | 106 | 1 | 80-120 | 20 |
| Thallium | ND | 0.0250 | 0.0263 | 105 | 0.0250 | 0.0262 | 105 | 1 | 80-120 | 20 |
| Tin | ND | 0.0250 | 0.0269 | 108 | 0.0250 | 0.0263 | 105 | 2 | 80-120 | 20 |
| Titanium | ND | 0.0250 | 0.0268 | 107 | 0.0250 | 0.0269 | 108 | 1 | 80-120 | 20 |
| Vanadium | ND | 0.0250 | 0.0264 | 106 | 0.0250 | 0.0259 | 104 | 2 | 80-120 | 20 |
| Zinc | ND | 0.0500 | 0.0519 | 104 | 0.0500 | 0.0513 | 103 | 1 | 80-120 | 20 |
| Lithium | ND | 0.0250 | 0.0260 | 104 | 0.0250 | 0.0255 | 102 | 2 | 80-120 | 20 |
| Phosphorus | ND | 0.250 | 0.258 | 103 | 0.250 | 0.261 | 105 | 1 | 80-120 | 20 |
| Zirconium | ND | 0.0250 | 0.0244 | 98 | 0.0250 | 0.0248 | 99 | 1 | 80-120 | 20 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/04/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/04/12 |
| SDG NO. | : 12D031 | Date Extracted | : 04/12/12 10:15 |
| Sample ID | : SL-020-NBZ-SB-2.5-3.5 | Date Analyzed | : 04/26/12 18:20 |
| Lab Samp ID | : D031-04 | Dilution Factor | : 0.990 |
| Lab File ID | : 98D18027 | Matrix | : SOIL |
| Ext Btch ID | : IMD019S | % Moisture | : 11.7 |
| Calib. Ref. | : 98D18017 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12300 | 26.9 | 13.5 |
| Antimony | 0.171J | 0.224 | 0.112 |
| Arsenic | 6.83 | 0.448 | 0.224 |
| Barium | 83.1 | 0.448 | 0.224 |
| Beryllium | 0.559 | 0.112 | 0.0561 |
| Boron | ND | 5.61 | 2.80 |
| Cadmium | 0.234 | 0.112 | 0.0561 |
| Calcium | 2930 | 22.4 | 11.2 |
| Chromium | 16.3 | 0.448 | 0.224 |
| Cobalt | 5.50 | 0.112 | 0.0561 |
| Copper | 8.45 | 0.448 | 0.224 |
| Iron | 20700 | 22.4 | 11.2 |
| Lead | 5.47 | 0.224 | 0.112 |
| Magnesium | 5040 | 11.2 | 5.61 |
| Manganese | 309 | 0.561 | 0.280 |
| Molybdenum | 0.501 | 0.112 | 0.0561 |
| Nickel | 11.1 | 0.448 | 0.224 |
| Potassium | 3390 | 67.3 | 33.6 |
| Selenium | 0.242J | 0.448 | 0.224 |
| Silver | ND | 0.112 | 0.0561 |
| Sodium | 70.4J | 112 | 56.1 |
| Strontium | 16.9 | 0.561 | 0.280 |
| Thallium | 0.244 | 0.112 | 0.0561 |
| Tin | ND | 11.2 | 5.61 |
| Titanium | 964 | 1.12 | 0.561 |
| Vanadium | 33.6 | 0.112 | 0.0561 |
| Zinc | 58.7 | 3.36 | 1.68 |
| Lithium | 27.8 | 2.24 | 1.12 |
| Phosphorus | 448 | 13.5 | 6.73 |
| Zirconium | ND | 5.61 | 2.80 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/04/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/04/12 |
| SDG NO. | : 12D031 | Date Extracted | : 04/12/12 10:15 |
| Sample ID | : SL-020-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/26/12 18:44 |
| Lab Samp ID | : D031-05 | Dilution Factor | : 0.971 |
| Lab File ID | : 98D18031 | Matrix | : SOIL |
| Ext Btch ID | : IMD019S | % Moisture | : 9.7 |
| Calib. Ref. | : 98D18029 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 7630 | 25.8 | 12.9 |
| Antimony | 0.157J | 0.215 | 0.108 |
| Arsenic | 3.59 | 0.430 | 0.215 |
| Barium | 64.6 | 0.430 | 0.215 |
| Beryllium | 0.291 | 0.108 | 0.0538 |
| Boron | ND | 5.38 | 2.69 |
| Cadmium | 0.156 | 0.108 | 0.0538 |
| Calcium | 2300 | 21.5 | 10.8 |
| Chromium | 8.70 | 0.430 | 0.215 |
| Cobalt | 3.41 | 0.108 | 0.0538 |
| Copper | 5.06 | 0.430 | 0.215 |
| Iron | 13200 | 21.5 | 10.8 |
| Lead | 5.82 | 0.215 | 0.108 |
| Magnesium | 3190 | 10.8 | 5.38 |
| Manganese | 202 | 0.538 | 0.269 |
| Molybdenum | 0.327 | 0.108 | 0.0538 |
| Nickel | 6.18 | 0.430 | 0.215 |
| Potassium | 3050 | 64.5 | 32.3 |
| Selenium | ND | 0.430 | 0.215 |
| Silver | ND | 0.108 | 0.0538 |
| Sodium | ND | 108 | 53.8 |
| Strontium | 12.3 | 0.538 | 0.269 |
| Thallium | 0.164 | 0.108 | 0.0538 |
| Tin | ND | 10.8 | 5.38 |
| Titanium | 690 | 1.08 | 0.538 |
| Vanadium | 20.3 | 0.108 | 0.0538 |
| Zinc | 49.6 | 3.23 | 1.61 |
| Lithium | 17.3 | 2.15 | 1.08 |
| Phosphorus | 362 | 12.9 | 6.45 |
| Zirconium | ND | 5.38 | 2.69 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| SDG NO. : 12D031 | Date Extracted: 04/12/12 10:15 |
| Sample ID: SL-097-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 18:49 |
| Lab Samp ID: D031-06 | Dilution Factor: 0.952 |
| Lab File ID: 98D18032 | Matrix : SOIL |
| Ext Btch ID: IMD019S | % Moisture : 6.7 |
| Calib. Ref.: 98D18029 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 8620 | 24.5 | 12.2 |
| Antimony | 0.110J | 0.204 | 0.102 |
| Arsenic | 3.49 | 0.408 | 0.204 |
| Barium | 63.2 | 0.408 | 0.204 |
| Beryllium | 0.371 | 0.102 | 0.0510 |
| Boron | ND | 5.10 | 2.55 |
| Cadmium | 0.150 | 0.102 | 0.0510 |
| Calcium | 3280 | 20.4 | 10.2 |
| Chromium | 8.46 | 0.408 | 0.204 |
| Cobalt | 4.15 | 0.102 | 0.0510 |
| Copper | 4.23 | 0.408 | 0.204 |
| Iron | 16300 | 20.4 | 10.2 |
| Lead | 10.1 | 0.204 | 0.102 |
| Magnesium | 3860 | 10.2 | 5.10 |
| Manganese | 270 | 0.510 | 0.255 |
| Molybdenum | 0.246 | 0.102 | 0.0510 |
| Nickel | 5.88 | 0.408 | 0.204 |
| Potassium | 2780 | 61.2 | 30.6 |
| Selenium | ND | 0.408 | 0.204 |
| Silver | ND | 0.102 | 0.0510 |
| Sodium | ND | 102 | 51.0 |
| Strontium | 6.30 | 0.510 | 0.255 |
| Thallium | 0.212 | 0.102 | 0.0510 |
| Tin | ND | 10.2 | 5.10 |
| Titanium | 809 | 1.02 | 0.510 |
| Vanadium | 21.5 | 0.102 | 0.0510 |
| Zinc | 50.4 | 3.06 | 1.53 |
| Lithium | 24.5 | 2.04 | 1.02 |
| Phosphorus | 371 | 12.2 | 6.12 |
| Zirconium | ND | 5.10 | 2.55 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| SDG NO. : 12D031 | Date Extracted: 04/12/12 10:15 |
| Sample ID: SL-099-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 18:53 |
| Lab Samp ID: D031-07 | Dilution Factor: 1.00 |
| Lab File ID: 98D18033 | Matrix : SOIL |
| Ext Btch ID: IMD019S | % Moisture : 8.2 |
| Calib. Ref.: 98D18029 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12800 | 26.1 | 13.1 |
| Antimony | 0.187J | 0.218 | 0.109 |
| Arsenic | 3.79 | 0.436 | 0.218 |
| Barium | 87.5 | 0.436 | 0.218 |
| Beryllium | 0.542 | 0.109 | 0.0545 |
| Boron | ND | 5.45 | 2.72 |
| Cadmium | 0.165 | 0.109 | 0.0545 |
| Calcium | 2380 | 21.8 | 10.9 |
| Chromium | 19.0 | 0.436 | 0.218 |
| Cobalt | 6.11 | 0.109 | 0.0545 |
| Copper | 7.19 | 0.436 | 0.218 |
| Iron | 19700 | 21.8 | 10.9 |
| Lead | 5.69 | 0.218 | 0.109 |
| Magnesium | 5750 | 10.9 | 5.45 |
| Manganese | 548 | 0.545 | 0.272 |
| Molybdenum | 0.500 | 0.109 | 0.0545 |
| Nickel | 12.8 | 0.436 | 0.218 |
| Potassium | 2200 | 65.4 | 32.7 |
| Selenium | ND | 0.436 | 0.218 |
| Silver | ND | 0.109 | 0.0545 |
| Sodium | ND | 109 | 54.5 |
| Strontium | 11.7 | 0.545 | 0.272 |
| Thallium | 0.226 | 0.109 | 0.0545 |
| Tin | ND | 10.9 | 5.45 |
| Titanium | 1040 | 1.09 | 0.545 |
| Vanadium | 39.8 | 0.109 | 0.0545 |
| Zinc | 49.2 | 3.27 | 1.63 |
| Lithium | 25.9 | 2.18 | 1.09 |
| Phosphorus | 301 | 13.1 | 6.54 |
| Zirconium | ND | 5.45 | 2.72 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| SDG NO. : 12D031 | Date Extracted: 04/12/12 10:15 |
| Sample ID: SL-100-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 18:58 |
| Lab Samp ID: D031-08 | Dilution Factor: 1.00 |
| Lab File ID: 98D18034 | Matrix : SOIL |
| Ext Btch ID: IMD019S | % Moisture : 7.7 |
| Calib. Ref.: 98D18029 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10700 | 26.0 | 13.0 |
| Antimony | 0.145J | 0.217 | 0.108 |
| Arsenic | 3.72 | 0.433 | 0.217 |
| Barium | 62.9 | 0.433 | 0.217 |
| Beryllium | 0.403 | 0.108 | 0.0542 |
| Boron | ND | 5.42 | 2.71 |
| Cadmium | 0.135 | 0.108 | 0.0542 |
| Calcium | 2490 | 21.7 | 10.8 |
| Chromium | 15.7 | 0.433 | 0.217 |
| Cobalt | 5.13 | 0.108 | 0.0542 |
| Copper | 5.82 | 0.433 | 0.217 |
| Iron | 19600 | 21.7 | 10.8 |
| Lead | 6.45 | 0.217 | 0.108 |
| Magnesium | 5610 | 10.8 | 5.42 |
| Manganese | 249 | 0.542 | 0.271 |
| Molybdenum | 0.340 | 0.108 | 0.0542 |
| Nickel | 9.06 | 0.433 | 0.217 |
| Potassium | 2720 | 65.0 | 32.5 |
| Selenium | ND | 0.433 | 0.217 |
| Silver | ND | 0.108 | 0.0542 |
| Sodium | ND | 108 | 54.2 |
| Strontium | 8.60 | 0.542 | 0.271 |
| Thallium | 0.228 | 0.108 | 0.0542 |
| Tin | ND | 10.8 | 5.42 |
| Titanium | 1000 | 1.08 | 0.542 |
| Vanadium | 33.6 | 0.108 | 0.0542 |
| Zinc | 49.2 | 3.25 | 1.63 |
| Lithium | 25.5 | 2.17 | 1.08 |
| Phosphorus | 318 | 13.0 | 6.50 |
| Zirconium | ND | 5.42 | 2.71 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/04/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/04/12 |
| SDG NO. | : 12D031 | Date Extracted | : 04/12/12 10:15 |
| Sample ID | : SL-104-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/26/12 19:02 |
| Lab Samp ID | : D031-09 | Dilution Factor | : 0.971 |
| Lab File ID | : 98D18035 | Matrix | : SOIL |
| Ext Btch ID | : IMD019S | % Moisture | : 7.1 |
| Calib. Ref. | : 98D18029 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10900 | 25.1 | 12.5 |
| Antimony | 0.146J | 0.209 | 0.105 |
| Arsenic | 3.16 | 0.418 | 0.209 |
| Barium | 91.2 | 0.418 | 0.209 |
| Beryllium | 0.415 | 0.105 | 0.0523 |
| Boron | ND | 5.23 | 2.61 |
| Cadmium | 0.240 | 0.105 | 0.0523 |
| Calcium | 1970 | 20.9 | 10.5 |
| Chromium | 12.4 | 0.418 | 0.209 |
| Cobalt | 4.62 | 0.105 | 0.0523 |
| Copper | 6.07 | 0.418 | 0.209 |
| Iron | 17300 | 20.9 | 10.5 |
| Lead | 11.2 | 0.209 | 0.105 |
| Magnesium | 4340 | 10.5 | 5.23 |
| Manganese | 281 | 0.523 | 0.261 |
| Molybdenum | 0.455 | 0.105 | 0.0523 |
| Nickel | 8.85 | 0.418 | 0.209 |
| Potassium | 3480 | 62.7 | 31.4 |
| Selenium | ND | 0.418 | 0.209 |
| Silver | ND | 0.105 | 0.0523 |
| Sodium | ND | 105 | 52.3 |
| Strontium | 15.0 | 0.523 | 0.261 |
| Thallium | 0.216 | 0.105 | 0.0523 |
| Tin | ND | 10.5 | 5.23 |
| Titanium | 866 | 1.05 | 0.523 |
| Vanadium | 27.1 | 0.105 | 0.0523 |
| Zinc | 51.8 | 3.14 | 1.57 |
| Lithium | 22.5 | 2.09 | 1.05 |
| Phosphorus | 417 | 12.5 | 6.27 |
| Zirconium | ND | 5.23 | 2.61 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/04/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/04/12 |
| SDG NO. | : 12D031 | Date Extracted | : 04/12/12 10:15 |
| Sample ID | : SL-110-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/26/12 19:07 |
| Lab Samp ID | : D031-10 | Dilution Factor | : 0.957 |
| Lab File ID | : 98D18036 | Matrix | : SOIL |
| Ext Btch ID | : IMD019S | % Moisture | : 7.6 |
| Calib. Ref. | : 98D18029 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 8700 | 24.9 | 12.4 |
| Antimony | 0.119J | 0.207 | 0.104 |
| Arsenic | 3.72 | 0.414 | 0.207 |
| Barium | 77.1 | 0.414 | 0.207 |
| Beryllium | 0.319 | 0.104 | 0.0518 |
| Boron | ND | 5.18 | 2.59 |
| Cadmium | 0.179 | 0.104 | 0.0518 |
| Calcium | 2310 | 20.7 | 10.4 |
| Chromium | 9.21 | 0.414 | 0.207 |
| Cobalt | 3.56 | 0.104 | 0.0518 |
| Copper | 4.87 | 0.414 | 0.207 |
| Iron | 14600 | 20.7 | 10.4 |
| Lead | 9.10 | 0.207 | 0.104 |
| Magnesium | 3700 | 10.4 | 5.18 |
| Manganese | 230 | 0.518 | 0.259 |
| Molybdenum | 0.355 | 0.104 | 0.0518 |
| Nickel | 6.48 | 0.414 | 0.207 |
| Potassium | 3040 | 62.1 | 31.1 |
| Selenium | ND | 0.414 | 0.207 |
| Silver | ND | 0.104 | 0.0518 |
| Sodium | ND | 104 | 51.8 |
| Strontium | 14.5 | 0.518 | 0.259 |
| Thallium | 0.194 | 0.104 | 0.0518 |
| Tin | ND | 10.4 | 5.18 |
| Titanium | 773 | 1.04 | 0.518 |
| Vanadium | 21.5 | 0.104 | 0.0518 |
| Zinc | 48.2 | 3.11 | 1.55 |
| Lithium | 21.5 | 2.07 | 1.04 |
| Phosphorus | 346 | 12.4 | 6.21 |
| Zirconium | ND | 5.18 | 2.59 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| SDG NO. : 12D031 | Date Extracted: 04/12/12 10:15 |
| Sample ID: SL-114-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 19:11 |
| Lab Samp ID: D031-11 | Dilution Factor: 0.957 |
| Lab File ID: 98D18037 | Matrix : SOIL |
| Ext Btch ID: IMD019S | % Moisture : 8.2 |
| Calib. Ref.: 98D18029 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10100 | 25.0 | 12.5 |
| Antimony | ND | 0.208 | 0.104 |
| Arsenic | 3.02 | 0.417 | 0.208 |
| Barium | 57.3 | 0.417 | 0.208 |
| Beryllium | 0.382 | 0.104 | 0.0521 |
| Boron | ND | 5.21 | 2.61 |
| Cadmium | 0.108 | 0.104 | 0.0521 |
| Calcium | 1570 | 20.8 | 10.4 |
| Chromium | 8.56 | 0.417 | 0.208 |
| Cobalt | 3.70 | 0.104 | 0.0521 |
| Copper | 3.93 | 0.417 | 0.208 |
| Iron | 15800 | 20.8 | 10.4 |
| Lead | 5.67 | 0.208 | 0.104 |
| Magnesium | 3960 | 10.4 | 5.21 |
| Manganese | 221 | 0.521 | 0.261 |
| Molybdenum | 0.292 | 0.104 | 0.0521 |
| Nickel | 5.58 | 0.417 | 0.208 |
| Potassium | 2870 | 62.5 | 31.3 |
| Selenium | ND | 0.417 | 0.208 |
| Silver | ND | 0.104 | 0.0521 |
| Sodium | ND | 104 | 52.1 |
| Strontium | 8.48 | 0.521 | 0.261 |
| Thallium | 0.199 | 0.104 | 0.0521 |
| Tin | ND | 10.4 | 5.21 |
| Titanium | 812 | 1.04 | 0.521 |
| Vanadium | 22.5 | 0.104 | 0.0521 |
| Zinc | 47.5 | 3.13 | 1.56 |
| Lithium | 24.0 | 2.08 | 1.04 |
| Phosphorus | 338 | 12.5 | 6.25 |
| Zirconium | ND | 5.21 | 2.61 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/04/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/04/12 |
| SDG NO. | : 12D031 | Date Extracted | : 04/12/12 10:15 |
| Sample ID | : SL-120-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/26/12 19:16 |
| Lab Samp ID | : D031-12 | Dilution Factor | : 0.985 |
| Lab File ID | : 98D18038 | Matrix | : SOIL |
| Ext Btch ID | : IMD019S | % Moisture | : 7.5 |
| Calib. Ref. | : 98D18029 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12600 | 25.6 | 12.8 |
| Antimony | 0.186J | 0.213 | 0.106 |
| Arsenic | 3.37 | 0.426 | 0.213 |
| Barium | 85.6 | 0.426 | 0.213 |
| Beryllium | 0.474 | 0.106 | 0.0532 |
| Boron | ND | 5.32 | 2.66 |
| Cadmium | 0.229 | 0.106 | 0.0532 |
| Calcium | 1920 | 21.3 | 10.6 |
| Chromium | 16.8 | 0.426 | 0.213 |
| Cobalt | 5.39 | 0.106 | 0.0532 |
| Copper | 6.69 | 0.426 | 0.213 |
| Iron | 19400 | 21.3 | 10.6 |
| Lead | 8.05 | 0.213 | 0.106 |
| Magnesium | 5530 | 10.6 | 5.32 |
| Manganese | 294 | 0.532 | 0.266 |
| Molybdenum | 0.483 | 0.106 | 0.0532 |
| Nickel | 10.9 | 0.426 | 0.213 |
| Potassium | 2940 | 63.9 | 31.9 |
| Selenium | ND | 0.426 | 0.213 |
| Silver | ND | 0.106 | 0.0532 |
| Sodium | ND | 106 | 53.2 |
| Strontium | 12.9 | 0.532 | 0.266 |
| Thallium | 0.225 | 0.106 | 0.0532 |
| Tin | ND | 10.6 | 5.32 |
| Titanium | 1020 | 1.06 | 0.532 |
| Vanadium | 35.8 | 0.106 | 0.0532 |
| Zinc | 48.7 | 3.19 | 1.60 |
| Lithium | 26.3 | 2.13 | 1.06 |
| Phosphorus | 300 | 12.8 | 6.39 |
| Zirconium | ND | 5.32 | 2.66 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/04/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/04/12 |
| SDG NO. : 12D031 | Date Extracted: 04/12/12 10:15 |
| Sample ID: SL-155-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 19:21 |
| Lab Samp ID: D031-13 | Dilution Factor: 0.962 |
| Lab File ID: 98D18039 | Matrix : SOIL |
| Ext Btch ID: IMD019S | % Moisture : 8.1 |
| Calib. Ref.: 98D18029 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10000 | 25.1 | 12.6 |
| Antimony | 0.129J | 0.209 | 0.105 |
| Arsenic | 3.88 | 0.419 | 0.209 |
| Barium | 83.0 | 0.419 | 0.209 |
| Beryllium | 0.414 | 0.105 | 0.0523 |
| Boron | ND | 5.23 | 2.62 |
| Cadmium | 0.220 | 0.105 | 0.0523 |
| Calcium | 2120 | 20.9 | 10.5 |
| Chromium | 12.1 | 0.419 | 0.209 |
| Cobalt | 4.23 | 0.105 | 0.0523 |
| Copper | 7.25 | 0.419 | 0.209 |
| Iron | 16100 | 20.9 | 10.5 |
| Lead | 6.99 | 0.209 | 0.105 |
| Magnesium | 3660 | 10.5 | 5.23 |
| Manganese | 278 | 0.523 | 0.262 |
| Molybdenum | 0.374 | 0.105 | 0.0523 |
| Nickel | 8.41 | 0.419 | 0.209 |
| Potassium | 3500 | 62.8 | 31.4 |
| Selenium | ND | 0.419 | 0.209 |
| Silver | ND | 0.105 | 0.0523 |
| Sodium | ND | 105 | 52.3 |
| Strontium | 18.2 | 0.523 | 0.262 |
| Thallium | 0.214 | 0.105 | 0.0523 |
| Tin | ND | 10.5 | 5.23 |
| Titanium | 763 | 1.05 | 0.523 |
| Vanadium | 24.3 | 0.105 | 0.0523 |
| Zinc | 47.2 | 3.14 | 1.57 |
| Lithium | 19.0 | 2.09 | 1.05 |
| Phosphorus | 423 | 12.6 | 6.28 |
| Zirconium | ND | 5.23 | 2.62 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/04/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/04/12 |
| SDG NO. | : 12D031 | Date Extracted | : 04/12/12 10:15 |
| Sample ID | : SL-181-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/26/12 19:39 |
| Lab Samp ID | : D031-14 | Dilution Factor | : 0.943 |
| Lab File ID | : 98D18043 | Matrix | : SOIL |
| Ext Btch ID | : IMD019S | % Moisture | : 8.8 |
| Calib. Ref. | : 98D18041 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11400 | 24.8 | 12.4 |
| Antimony | 0.163J | 0.207 | 0.103 |
| Arsenic | 10.1 | 0.414 | 0.207 |
| Barium | 92.9 | 0.414 | 0.207 |
| Beryllium | 0.497 | 0.103 | 0.0517 |
| Boron | ND | 5.17 | 2.58 |
| Cadmium | 0.266 | 0.103 | 0.0517 |
| Calcium | 2020 | 20.7 | 10.3 |
| Chromium | 13.9 | 0.414 | 0.207 |
| Cobalt | 4.77 | 0.103 | 0.0517 |
| Copper | 7.67 | 0.414 | 0.207 |
| Iron | 17600 | 20.7 | 10.3 |
| Lead | 5.72 | 0.207 | 0.103 |
| Magnesium | 3940 | 10.3 | 5.17 |
| Manganese | 285 | 0.517 | 0.258 |
| Molybdenum | 0.491 | 0.103 | 0.0517 |
| Nickel | 9.41 | 0.414 | 0.207 |
| Potassium | 3810 | 62.0 | 31.0 |
| Selenium | ND | 0.414 | 0.207 |
| Silver | ND | 0.103 | 0.0517 |
| Sodium | ND | 103 | 51.7 |
| Strontium | 17.1 | 0.517 | 0.258 |
| Thallium | 0.250 | 0.103 | 0.0517 |
| Tin | ND | 10.3 | 5.17 |
| Titanium | 843 | 1.03 | 0.517 |
| Vanadium | 27.5 | 0.103 | 0.0517 |
| Zinc | 49.8 | 3.10 | 1.55 |
| Lithium | 20.3 | 2.07 | 1.03 |
| Phosphorus | 377 | 12.4 | 6.20 |
| Zirconium | ND | 5.17 | 2.58 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/04/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/04/12 |
| SDG NO. | : 12D031 | Date Extracted | : 04/12/12 10:15 |
| Sample ID | : SL-187-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/26/12 18:11 |
| Lab Samp ID | : D031-15 | Dilution Factor | : 0.952 |
| Lab File ID | : 98D18025 | Matrix | : SOIL |
| Ext Btch ID | : IMD019S | % Moisture | : 8.4 |
| Calib. Ref. | : 98D18017 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12100 | 24.9 | 12.5 |
| Antimony | 0.177J | 0.208 | 0.104 |
| Arsenic | 15.5 | 0.416 | 0.208 |
| Barium | 94.4 | 0.416 | 0.208 |
| Beryllium | 0.512 | 0.104 | 0.0520 |
| Boron | ND | 5.20 | 2.60 |
| Cadmium | 0.289 | 0.104 | 0.0520 |
| Calcium | 2300 | 20.8 | 10.4 |
| Chromium | 15.7 | 0.416 | 0.208 |
| Cobalt | 5.10 | 0.104 | 0.0520 |
| Copper | 7.50 | 0.416 | 0.208 |
| Iron | 18200 | 20.8 | 10.4 |
| Lead | 7.73 | 0.208 | 0.104 |
| Magnesium | 4590 | 10.4 | 5.20 |
| Manganese | 284 | 0.520 | 0.260 |
| Molybdenum | 0.562 | 0.104 | 0.0520 |
| Nickel | 10.4 | 0.416 | 0.208 |
| Potassium | 3210 | 62.4 | 31.2 |
| Selenium | ND | 0.416 | 0.208 |
| Silver | ND | 0.104 | 0.0520 |
| Sodium | 57.9J | 104 | 52.0 |
| Strontium | 19.5 | 0.520 | 0.260 |
| Thallium | 0.235 | 0.104 | 0.0520 |
| Tin | ND | 10.4 | 5.20 |
| Titanium | 845 | 1.04 | 0.520 |
| Vanadium | 31.1 | 0.104 | 0.0520 |
| Zinc | 53.5 | 3.12 | 1.56 |
| Lithium | 23.6 | 2.08 | 1.04 |
| Phosphorus | 418 | 12.5 | 6.24 |
| Zirconium | ND | 5.20 | 2.60 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| SDG NO. : 12D031 | Date Extracted: 04/12/12 10:15 |
| Sample ID: MBLK1S | Date Analyzed: 04/26/12 17:44 |
| Lab Samp ID: IMD019SB | Dilution Factor: 1 |
| Lab File ID: 98D18019 | Matrix : SOIL |
| Ext Btch ID: IMD019S | % Moisture : NA |
| Calib. Ref.: 98D18017 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D031
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: NA
DILTN FACTR: 1 1 1
SAMPLE ID: MBLK1S
CONTROL NO.: IMD019SB IMD019SL IMD019SC
LAB FILE ID: 98D18019 98D18020 98D18021
DATIME EXTRCTD: 04/12/1210:15 04/12/1210:15 04/12/1210:15 DATE COLLECTED: NA
DATIME ANALYZD: 04/26/1217:44 04/26/1217:48 04/26/1217:53 DATE RECEIVED: 04/12/12
PREP. BATCH: IMD019S IMD019S IMD019S
CALIB. REF: 98D18017 98D18017 98D18017

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2610 | 104 | 2500 | 2680 | 107 | 3 | 80-120 | 20 |
| Antimony | ND | 25.0 | 25.8 | 103 | 25.0 | 26.2 | 105 | 2 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 24.9 | 100 | 25.0 | 25.5 | 102 | 2 | 80-120 | 20 |
| Barium | ND | 25.0 | 24.6 | 98 | 25.0 | 25.0 | 100 | 1 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 24.8 | 99 | 25.0 | 24.7 | 99 | 0 | 80-120 | 20 |
| Boron | ND | 25.0 | 25.3 | 101 | 25.0 | 25.2 | 101 | 1 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 24.6 | 98 | 25.0 | 25.2 | 101 | 3 | 80-120 | 20 |
| Calcium | ND | 2500 | 2560 | 102 | 2500 | 2640 | 106 | 3 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.5 | 98 | 25.0 | 25.1 | 100 | 3 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 24.9 | 100 | 25.0 | 25.2 | 101 | 1 | 80-120 | 20 |
| Copper | ND | 25.0 | 24.2 | 97 | 25.0 | 24.7 | 99 | 2 | 80-120 | 20 |
| Iron | ND | 2500 | 2540 | 102 | 2500 | 2570 | 103 | 1 | 80-120 | 20 |
| Lead | ND | 25.0 | 24.8 | 99 | 25.0 | 25.6 | 103 | 3 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2560 | 102 | 2500 | 2650 | 106 | 3 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.2 | 101 | 25.0 | 25.3 | 101 | 0 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 25.3 | 101 | 25.0 | 25.8 | 103 | 2 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.3 | 97 | 25.0 | 24.8 | 99 | 2 | 80-120 | 20 |
| Potassium | ND | 2500 | 2580 | 103 | 2500 | 2650 | 106 | 3 | 80-120 | 20 |
| Selenium | ND | 25.0 | 24.4 | 98 | 25.0 | 25.6 | 102 | 5 | 80-120 | 20 |
| Silver | ND | 25.0 | 24.7 | 99 | 25.0 | 25.1 | 100 | 2 | 80-120 | 20 |
| Sodium | ND | 2500 | 2530 | 101 | 2500 | 2570 | 103 | 2 | 80-120 | 20 |
| Strontium | ND | 25.0 | 25.3 | 101 | 25.0 | 26.1 | 104 | 3 | 80-120 | 20 |
| Thallium | ND | 25.0 | 25.2 | 101 | 25.0 | 26.2 | 105 | 4 | 80-120 | 20 |
| Tin | ND | 25.0 | 27.5 | 110 | 25.0 | 27.8 | 111 | 1 | 80-120 | 20 |
| Titanium | ND | 25.0 | 26.3 | 105 | 25.0 | 26.5 | 106 | 1 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 24.9 | 100 | 25.0 | 25.7 | 103 | 3 | 80-120 | 20 |
| Zinc | ND | 50.0 | 47.7 | 95 | 50.0 | 49.5 | 99 | 4 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.4 | 102 | 25.0 | 26.2 | 105 | 3 | 80-120 | 20 |
| Phosphorus | ND | 250 | 247 | 99 | 250 | 255 | 102 | 3 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 24.8 | 99 | 25.0 | 25.7 | 103 | 4 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D031
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 8.4

| | | | | | |
|---|---|---|---|---|---|
| DILTN FACTR: | 0.952 | 0.990 | 0.980 | | |
| SAMPLE ID: | SL-187-NBZ-SS-0.0-0.5 | | | | |
| CONTROL NO.: | D031-15 | D031-15M | D031-15S | | |
| LAB FILE ID: | 98D18025 | 98D18022 | 98D18023 | | |
| DATIME EXTRCTD: | 04/12/1210:15 | 04/12/1210:15 | 04/12/1210:15 | DATE COLLECTED: | 04/04/12 |
| DATIME ANALYZD: | 04/26/1218:11 | 04/26/1217:57 | 04/26/1218:02 | DATE RECEIVED: | 04/04/12 |
| PREP. BATCH: | IMD019S | IMD019S | IMD019S | | |
| CALIB. REF: | 98D18017 | 98D18017 | 98D18017 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 12100 | 2700 | 14600 | 93 | 2670 | 13900 | 67* | 5 | 75-125 | 20 |
| Antimony | 0.177J | 27.0 | 21.3 | 78 | 26.7 | 20.5 | 76 | 4 | 75-125 | 20 |
| Arsenic | 15.5 | 27.0 | 40.7 | 93 | 26.7 | 39.9 | 91 | 2 | 75-125 | 20 |
| Barium | 94.4 | 27.0 | 123 | 106 | 26.7 | 118 | 87 | 4 | 75-125 | 20 |
| Beryllium | 0.512 | 27.0 | 27.1 | 98 | 26.7 | 26.0 | 95 | 4 | 75-125 | 20 |
| Boron | ND | 27.0 | 26.5 | 98 | 26.7 | 25.5 | 95 | 4 | 75-125 | 20 |
| Cadmium | 0.289 | 27.0 | 27.3 | 100 | 26.7 | 26.4 | 98 | 3 | 75-125 | 20 |
| Calcium | 2300 | 2700 | 4980 | 99 | 2670 | 4740 | 91 | 5 | 75-125 | 20 |
| Chromium | 15.7 | 27.0 | 40.6 | 92 | 26.7 | 38.5 | 85 | 5 | 75-125 | 20 |
| Cobalt | 5.10 | 27.0 | 30.2 | 93 | 26.7 | 29.5 | 91 | 2 | 75-125 | 20 |
| Copper | 7.50 | 27.0 | 31.6 | 89 | 26.7 | 30.7 | 87 | 3 | 75-125 | 20 |
| Iron | 18200 | 2700 | 20500 | 85 | 2670 | 19800 | 59* | 4 | 75-125 | 20 |
| Lead | 7.73 | 27.0 | 34.2 | 98 | 26.7 | 33.5 | 96 | 2 | 75-125 | 20 |
| Magnesium | 4590 | 2700 | 7180 | 96 | 2670 | 6970 | 89 | 3 | 75-125 | 20 |
| Manganese | 284 | 27.0 | 307 | 85 | 26.7 | 295 | 43* | 4 | 75-125 | 20 |
| Molybdenum | 0.562 | 27.0 | 28.1 | 102 | 26.7 | 27.4 | 100 | 2 | 75-125 | 20 |
| Nickel | 10.4 | 27.0 | 34.7 | 90 | 26.7 | 33.5 | 86 | 3 | 75-125 | 20 |
| Potassium | 3210 | 2700 | 5800 | 96 | 2670 | 5610 | 90 | 3 | 75-125 | 20 |
| Selenium | ND | 27.0 | 26.7 | 99 | 26.7 | 26.0 | 97 | 3 | 75-125 | 20 |
| Silver | ND | 27.0 | 27.3 | 101 | 26.7 | 26.2 | 98 | 4 | 75-125 | 20 |
| Sodium | 57.9J | 2700 | 2700 | 98 | 2670 | 2680 | 98 | 1 | 75-125 | 20 |
| Strontium | 19.5 | 27.0 | 46.7 | 101 | 26.7 | 44.4 | 93 | 5 | 75-125 | 20 |
| Thallium | 0.235 | 27.0 | 27.7 | 101 | 26.7 | 26.8 | 99 | 3 | 75-125 | 20 |
| Tin | ND | 27.0 | 31.1 | 115 | 26.7 | 30.1 | 112 | 3 | 75-125 | 20 |
| Titanium | 845 | 27.0 | 874 | 105 | 26.7 | 836 | -35* | 4 | 75-125 | 20 |
| Vanadium | 31.1 | 27.0 | 56.5 | 94 | 26.7 | 54.0 | 86 | 4 | 75-125 | 20 |
| Zinc | 53.5 | 54.0 | 109 | 103 | 53.5 | 105 | 95 | 4 | 75-125 | 20 |
| Lithium | 23.6 | 27.0 | 51.5 | 103 | 26.7 | 49.8 | 98 | 3 | 75-125 | 20 |
| Phosphorus | 418 | 270 | 668 | 92 | 267 | 647 | 85 | 3 | 75-125 | 20 |
| Zirconium | ND | 27.0 | 11.1 | 41* | 26.7 | 10.6 | 40* | 4 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D031
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 8.4
DILTN FACTR: 0.952 0.952
SAMPLE ID: SL-187-NBZ-SS-0.0-0.5
CONTROL NO.: D031-15 D031-15A
LAB FILE ID: 98D18025 98D18024
DATIME EXTRCTD: 04/12/1210:15 04/12/1210:15 DATE COLLECTED: 04/04/12
DATIME ANALYZD: 04/26/1218:11 04/26/1218:06 DATE RECEIVED: 04/04/12
PREP. BATCH: IMD019S IMD019S
CALIB. REF: 98D18017 98D18017

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 12100 | 2600 | 14600 | 96 | 75-125 |
| Antimony | 0.177J | 26.0 | 27.1 | 104 | 75-125 |
| Arsenic | 15.5 | 26.0 | 40.1 | 95 | 75-125 |
| Barium | 94.4 | 26.0 | 122 | 106 | 75-125 |
| Beryllium | 0.512 | 26.0 | 25.6 | 97 | 75-125 |
| Boron | ND | 26.0 | 26.9 | 104 | 75-125 |
| Cadmium | 0.289 | 26.0 | 25.9 | 98 | 75-125 |
| Calcium | 2300 | 2600 | 4810 | 97 | 75-125 |
| Chromium | 15.7 | 26.0 | 38.7 | 88 | 75-125 |
| Cobalt | 5.10 | 26.0 | 28.4 | 90 | 75-125 |
| Copper | 7.50 | 26.0 | 29.7 | 85 | 75-125 |
| Iron | 18200 | 2600 | 20300 | 81 | 75-125 |
| Lead | 7.73 | 26.0 | 32.4 | 95 | 75-125 |
| Magnesium | 4590 | 2600 | 7220 | 101 | 75-125 |
| Manganese | 284 | 26.0 | 300 | 61* | 75-125 |
| Molybdenum | 0.562 | 26.0 | 27.4 | 103 | 75-125 |
| Nickel | 10.4 | 26.0 | 32.9 | 87 | 75-125 |
| Potassium | 3210 | 2600 | 5640 | 94 | 75-125 |
| Selenium | ND | 26.0 | 25.6 | 98 | 75-125 |
| Silver | ND | 26.0 | 25.3 | 97 | 75-125 |
| Sodium | 57.9J | 2600 | 2560 | 96 | 75-125 |
| Strontium | 19.5 | 26.0 | 44.9 | 98 | 75-125 |
| Thallium | 0.235 | 26.0 | 25.9 | 99 | 75-125 |
| Tin | ND | 26.0 | 29.0 | 112 | 75-125 |
| Titanium | 845 | 26.0 | 844 | -6* | 75-125 |
| Vanadium | 31.1 | 26.0 | 54.3 | 89 | 75-125 |
| Zinc | 53.5 | 52.0 | 104 | 97 | 75-125 |
| Lithium | 23.6 | 26.0 | 50.5 | 104 | 75-125 |
| Phosphorus | 418 | 260 | 680 | 101 | 75-125 |
| Zirconium | ND | 26.0 | 26.4 | 102 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 8.4
DILUTION FACTOR: 0.952 4.76
SAMPLE ID: SL-187-NBZ-SS- SL-187-NBZ-SS-
EMAX SAMP ID: D031-15 D031-15J
LAB FILE ID: 98D18025 98D18026
DATE EXTRACTED: 04/12/1210:15 04/12/1210:15 DATE COLLECTED: 04/04/12
DATE ANALYZED: 04/26/1218:11 04/26/1218:15 DATE RECEIVED: 04/04/12
PREP. BATCH: IMD019S IMD019S
CALIB. REF: 98D18017 98D18017

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 12100 | 11900 | 2 | 10 |
| Antimony | 0.177J | ND | NA | 10 |
| Arsenic | 15.5 | 15.3 | 2 | 10 |
| Barium | 94.4 | 87.4 | 7 | 10 |
| Beryllium | 0.512 | 0.519J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.289 | 0.305J | NA | 10 |
| Calcium | 2300 | 2330 | 1 | 10 |
| Chromium | 15.7 | 15.7 | 1 | 10 |
| Cobalt | 5.10 | 5.27 | 3 | 10 |
| Copper | 7.50 | 8.03 | 7 | 10 |
| Iron | 18200 | 18800 | 4 | 10 |
| Lead | 7.73 | 7.42 | 4 | 10 |
| Magnesium | 4590 | 4570 | 1 | 10 |
| Manganese | 284 | 293 | 3 | 10 |
| Molybdenum | 0.562 | 0.546 | 3 | 10 |
| Nickel | 10.4 | 10.5 | 1 | 10 |
| Potassium | 3210 | 3100 | 3 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | 57.9J | ND | NA | 10 |
| Strontium | 19.5 | 17.9 | 8 | 10 |
| Thallium | 0.235 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 845 | 844 | 0 | 10 |
| Vanadium | 31.1 | 30.5 | 2 | 10 |
| Zinc | 53.5 | 50.9 | 5 | 10 |
| Lithium | 23.6 | 22.5 | 5 | 10 |
| Phosphorus | 418 | 383 | 8 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7470A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D031
Matrix : WATER
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | HGD014WB | ND | 1 | NA | 0.000500 | 0.000100 | 04/16/1218:32 | 04/16/1212:43 | M47D008049 | M47D008044 | HGD014W | NA | 04/16/12 |
| LCS1W | HGD014WL | 0.00511 | 1 | NA | 0.000500 | 0.000100 | 04/16/1218:34 | 04/16/1212:43 | M47D008050 | M47D008044 | HGD014W | NA | 04/16/12 |
| LCD1W | HGD014WC | 0.00520 | 1 | NA | 0.000500 | 0.000100 | 04/16/1218:37 | 04/16/1212:43 | M47D008051 | M47D008044 | HGD014W | NA | 04/16/12 |
| EB-NBZ-SB-040412 | D031-01 | ND | 1 | NA | 0.000500 | 0.000100 | 04/16/1219:02 | 04/16/1212:43 | M47D008063 | M47D008056 | HGD014W | 04/04/12 | 04/04/12 |
| EB-NBZ-SS-040412 | D031-02 | ND | 1 | NA | 0.000500 | 0.000100 | 04/16/1219:05 | 04/16/1212:43 | M47D008064 | M47D008056 | HGD014W | 04/04/12 | 04/04/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D031
METHOD: METHOD 7470A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| CONTROL NO.: | HGD014WB | HGD014WL | HGD014WC | | |
| LAB FILE ID: | M47D008049 | M47D008050 | M47D008051 | | |
| DATIME EXTRCTD: | 04/16/1212:43 | 04/16/1212:43 | 04/16/1212:43 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/16/1218:32 | 04/16/1218:34 | 04/16/1218:37 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | HGD014W | HGD014W | HGD014W | | |
| CALIB. REF: | M47D008044 | M47D008044 | M47D008044 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/L | SPIKE AMT mg/L | BS RSLT mg/L | BS % REC | SPIKE AMT mg/L | BSD RSLT mg/L | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .005 | .00511 | 102 | .005 | .0052 | 104 | 2 | 80-120 | 20 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D031
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD011SB | ND | 1 | NA | 0.100 | 0.0500 | 04/11/1219:21 | 04/11/1212:30 | M47D006010 | M47D006008 | HGD011S | NA | 04/11/12 |
| LCS1S | HGD011SL | 0.857 | 1 | NA | 0.100 | 0.0500 | 04/11/1219:23 | 04/11/1212:30 | M47D006011 | M47D006008 | HGD011S | NA | 04/11/12 |
| LCD1S | HGD011SC | 0.855 | 1 | NA | 0.100 | 0.0500 | 04/11/1219:25 | 04/11/1212:30 | M47D006012 | M47D006008 | HGD011S | NA | 04/11/12 |
| SL-020-NBZ-SB-2.5-3.5AS | D031-04A | 0.953 | 1.00 | 11.7 | 0.113 | 0.0566 | 04/11/1219:27 | 04/11/1212:30 | M47D006013 | M47D006008 | HGD011S | 04/04/12 | 04/04/12 |
| SL-020-NBZ-SB-2.5-3.5 | D031-04 | ND | 1.00 | 11.7 | 0.113 | 0.0566 | 04/11/1219:29 | 04/11/1212:30 | M47D006014 | M47D006008 | HGD011S | 04/04/12 | 04/04/12 |
| SL-020-NBZ-SB-2.5-3.5DL | D031-04J | ND | 5.01 | 11.7 | 0.567 | 0.284 | 04/11/1219:31 | 04/11/1212:30 | M47D006015 | M47D006008 | HGD011S | 04/04/12 | 04/04/12 |
| SL-020-NBZ-SB-2.5-3.5MS | D031-04M | 0.975 | 0.995 | 11.7 | 0.113 | 0.0563 | 04/11/1219:33 | 04/11/1212:30 | M47D006016 | M47D006008 | HGD011S | 04/04/12 | 04/04/12 |
| SL-020-NBZ-SB-2.5-3.5MSD | D031-04S | 0.989 | 1.00 | 11.7 | 0.113 | 0.0566 | 04/11/1219:35 | 04/11/1212:30 | M47D006017 | M47D006008 | HGD011S | 04/04/12 | 04/04/12 |
| SL-020-NBZ-SS-0.0-0.5 | D031-05 | ND | 0.998 | 9.7 | 0.111 | 0.0553 | 04/11/1219:37 | 04/11/1212:30 | M47D006018 | M47D006008 | HGD011S | 04/04/12 | 04/04/12 |
| SL-097-NBZ-SS-0.0-0.5 | D031-06 | ND | 0.990 | 6.7 | 0.106 | 0.0531 | 04/11/1219:39 | 04/11/1212:30 | M47D006019 | M47D006008 | HGD011S | 04/04/12 | 04/04/12 |
| SL-099-NBZ-SS-0.0-0.5 | D031-07 | ND | 0.988 | 8.2 | 0.108 | 0.0538 | 04/11/1219:45 | 04/11/1212:30 | M47D006022 | M47D006020 | HGD011S | 04/04/12 | 04/04/12 |
| SL-100-NBZ-SS-0.0-0.5 | D031-08 | ND | 0.993 | 7.7 | 0.108 | 0.0538 | 04/11/1219:47 | 04/11/1212:30 | M47D006023 | M47D006020 | HGD011S | 04/04/12 | 04/04/12 |
| SL-104-NBZ-SS-0.0-0.5 | D031-09 | ND | 1.00 | 7.1 | 0.108 | 0.0538 | 04/11/1219:49 | 04/11/1212:30 | M47D006024 | M47D006020 | HGD011S | 04/04/12 | 04/04/12 |
| SL-110-NBZ-SS-0.0-0.5 | D031-10 | ND | 0.992 | 7.6 | 0.107 | 0.0537 | 04/11/1219:51 | 04/11/1212:30 | M47D006025 | M47D006020 | HGD011S | 04/04/12 | 04/04/12 |
| SL-114-NBZ-SS-0.0-0.5 | D031-11 | ND | 0.998 | 8.2 | 0.109 | 0.0544 | 04/11/1219:53 | 04/11/1212:30 | M47D006026 | M47D006020 | HGD011S | 04/04/12 | 04/04/12 |
| SL-120-NBZ-SS-0.0-0.5 | D031-12 | ND | 0.995 | 7.5 | 0.108 | 0.0538 | 04/11/1219:55 | 04/11/1212:30 | M47D006027 | M47D006020 | HGD011S | 04/04/12 | 04/04/12 |
| SL-155-NBZ-SS-0.0-0.5 | D031-13 | ND | 1.00 | 8.1 | 0.109 | 0.0544 | 04/11/1219:57 | 04/11/1212:30 | M47D006028 | M47D006020 | HGD011S | 04/04/12 | 04/04/12 |
| SL-181-NBZ-SS-0.0-0.5 | D031-14 | ND | 0.993 | 8.8 | 0.109 | 0.0544 | 04/11/1219:59 | 04/11/1212:30 | M47D006029 | M47D006020 | HGD011S | 04/04/12 | 04/04/12 |
| SL-187-NBZ-SS-0.0-0.5 | D031-15 | ND | 0.993 | 8.4 | 0.108 | 0.0542 | 04/11/1220:01 | 04/11/1212:30 | M47D006030 | M47D006020 | HGD011S | 04/04/12 | 04/04/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D031
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGD011SB | HGD011SL | HGD011SC | | |
| LAB FILE ID: | M47D006010 | M47D006011 | M47D006012 | | |
| DATIME EXTRCTD: | 04/11/1212:30 | 04/11/1212:30 | 04/11/1212:30 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/11/1219:21 | 04/11/1219:23 | 04/11/1219:25 | DATE RECEIVED: | 04/11/12 |
| PREP. BATCH: | HGD011S | HGD011S | HGD011S | | |
| CALIB. REF: | M47D006008 | M47D006008 | M47D006008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .857 | 103 | .833 | .855 | 103 | 0 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D031
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 11.7 |
| DILTN FACTR: | 1.00 | 0.995 | 1.00 | | |
| SAMPLE ID: | SL-020-NBZ-SB-2.5-3.5 | | | | |
| CONTROL NO.: | D031-04 | D031-04M | D031-04S | | |
| LAB FILE ID: | M47D006014 | M47D006016 | M47D006017 | | |
| DATIME EXTRCTD: | 04/11/1212:30 | 04/11/1212:30 | 04/11/1212:30 | DATE COLLECTED: | 04/04/12 |
| DATIME ANALYZD: | 04/11/1219:29 | 04/11/1219:33 | 04/11/1219:35 | DATE RECEIVED: | 04/04/12 |
| PREP. BATCH: | HGD011S | HGD011S | HGD011S | | |
| CALIB. REF: | M47D006008 | M47D006008 | M47D006008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .939 | .975 | 104 | .943 | .989 | 105 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D031
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 11.7 |
| DILTN FACTR: | 1.00 | 1.00 | | |
| SAMPLE ID: | SL-020-NBZ-SB-2.5-3.5 | | | |
| CONTROL NO.: | D031-04 | D031-04A | | |
| LAB FILE ID: | M47D006014 | M47D006013 | | |
| DATIME EXTRCTD: | 04/11/1212:30 | 04/11/1212:30 | DATE COLLECTED: | 04/04/12 |
| DATIME ANALYZD: | 04/11/1219:29 | 04/11/1219:27 | DATE RECEIVED: | 04/04/12 |
| PREP. BATCH: | HGD011S | HGD011S | | |
| CALIB. REF: | M47D006008 | M47D006008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .943 | .953 | 101 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 11.7 |
| DILUTION FACTOR: | 1.00 | 5.01 | | |
| SAMPLE ID: | SL-020-NBZ-SB-2.5-3 | SL-020-NBZ-SB-2.5-3 | | |
| EMAX SAMP ID: | D031-04 | D031-04J | | |
| LAB FILE ID: | M47D006014 | M47D006015 | | |
| DATE EXTRACTED: | 04/11/1212:30 | 04/11/1212:30 | DATE COLLECTED: | 04/04/12 |
| DATE ANALYZED: | 04/11/1219:29 | 04/11/1219:31 | DATE RECEIVED: | 04/04/12 |
| PREP. BATCH: | HGD011S | HGD011S | | |
| CALIB. REF: | M47D006008 | M47D006008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D031

Matrix : WATER
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | ICD005WB | ND | 1 | NA | 0.100 | 0.0500 | 04/04/1221:45 | NA | AD05-48 | AD05-46 | ICD005W | NA | NA |
| LCS1W | ICD005WL | 1.95 | 1 | NA | 0.100 | 0.0500 | 04/04/1222:01 | NA | AD05-49 | AD05-46 | ICD005W | NA | NA |
| LCD1W | ICD005WC | 1.95 | 1 | NA | 0.100 | 0.0500 | 04/04/1222:17 | NA | AD05-50 | AD05-46 | ICD005W | NA | NA |
| EB-NBZ-SB-040412 | D031-01 | ND | 1 | NA | 0.100 | 0.0500 | 04/04/1222:33 | NA | AD05-51 | AD05-46 | ICD005W | 04/04/1214:30 | 04/04/12 |
| EB-NBZ-SS-040412 | D031-02 | ND | 1 | NA | 0.100 | 0.0500 | 04/04/1222:50 | NA | AD05-52 | AD05-46 | ICD005W | 04/04/1215:45 | 04/04/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | ICD005WB | ICD005WL | ICD005WC | | |
| LAB FILE ID: | AD05-48 | AD05-49 | AD05-50 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/04/1221:45 | 04/04/1222:01 | 04/04/1222:17 | DATE RECEIVED: | NA |
| PREP. BATCH: | ICD005W | ICD005W | ICD005W | | |
| CALIB. REF: | AD05-46 | AD05-46 | AD05-46 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 2.00 | 1.95 | 98 | 2.00 | 1.95 | 98 | 0 | 90-110 | 20 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D031
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD005SB | ND | 1 | NA | 1.00 | 0.500 | 04/06/1215:32 | 04/06/1209:39 | AD09-11 | AD09-09 | ICD005S | NA | 04/06/12 |
| LCS1S | ICD005SL | 5.83 | 1 | NA | 1.00 | 0.500 | 04/06/1215:48 | 04/06/1209:39 | AD09-12 | AD09-09 | ICD005S | NA | 04/06/12 |
| LCD1S | ICD005SC | 5.83 | 1 | NA | 1.00 | 0.500 | 04/06/1216:04 | 04/06/1209:39 | AD09-13 | AD09-09 | ICD005S | NA | 04/06/12 |
| SL-020-NBZ-SB-2.5-3.5 | D031-04 | 1.07J | 1 | 11.7 | 1.13 | 0.566 | 04/06/1219:18 | 04/06/1209:39 | AD09-25 | AD09-23 | ICD005S | 04/04/1214:40 | 04/04/12 |
| SL-104-NBZ-SS-0.0-0.5 | D031-09 | ND | 1 | 7.1 | 1.08 | 0.538 | 04/06/1219:34 | 04/06/1209:39 | AD09-26 | AD09-23 | ICD005S | 04/04/1210:40 | 04/04/12 |
| SL-110-NBZ-SS-0.0-0.5 | D031-10 | ND | 1 | 7.6 | 1.08 | 0.541 | 04/06/1219:50 | 04/06/1209:39 | AD09-27 | AD09-23 | ICD005S | 04/04/1209:00 | 04/04/12 |
| SL-114-NBZ-SS-0.0-0.5 | D031-11 | ND | 1 | 8.2 | 1.09 | 0.545 | 04/06/1220:06 | 04/06/1209:39 | AD09-28 | AD09-23 | ICD005S | 04/04/1209:25 | 04/04/12 |
| SL-120-NBZ-SS-0.0-0.5 | D031-12 | ND | 1 | 7.5 | 1.08 | 0.541 | 04/06/1220:22 | 04/06/1209:39 | AD09-29 | AD09-23 | ICD005S | 04/04/1211:05 | 04/04/12 |
| SL-155-NBZ-SS-0.0-0.5 | D031-13 | 0.550J | 1 | 8.1 | 1.09 | 0.544 | 04/06/1220:39 | 04/06/1209:39 | AD09-30 | AD09-23 | ICD005S | 04/04/1214:55 | 04/04/12 |
| SL-181-NBZ-SS-0.0-0.5 | D031-14 | 0.565J | 1 | 8.8 | 1.10 | 0.548 | 04/06/1220:55 | 04/06/1209:39 | AD09-31 | AD09-23 | ICD005S | 04/04/1214:22 | 04/04/12 |
| SL-187-NBZ-SS-0.0-0.5 | D031-15 | ND | 1 | 8.4 | 1.09 | 0.546 | 04/06/1221:11 | 04/06/1209:39 | AD09-32 | AD09-23 | ICD005S | 04/04/1213:49 | 04/04/12 |
| SL-020-NBZ-SS-0.0-0.5 | D031-05 | ND | 1 | 9.7 | 1.11 | 0.554 | 04/06/1221:27 | 04/06/1209:39 | AD09-33 | AD09-23 | ICD005S | 04/04/1213:40 | 04/04/12 |
| SL-097-NBZ-SS-0.0-0.5 | D031-06 | ND | 1 | 6.7 | 1.07 | 0.536 | 04/06/1222:32 | 04/06/1209:39 | AD09-37 | AD09-35 | ICD005S | 04/04/1209:14 | 04/04/12 |
| SL-099-NBZ-SS-0.0-0.5 | D031-07 | ND | 1 | 8.2 | 1.09 | 0.545 | 04/06/1222:48 | 04/06/1209:39 | AD09-38 | AD09-35 | ICD005S | 04/04/1210:41 | 04/04/12 |
| SL-100-NBZ-SS-0.0-0.5 | D031-08 | ND | 1 | 7.7 | 1.08 | 0.542 | 04/06/1223:04 | 04/06/1209:39 | AD09-39 | AD09-35 | ICD005S | 04/04/1209:51 | 04/04/12 |
| SL-100-NBZ-SS-0.0-0.5MS | D031-08M | 7.42 | 1 | 7.7 | 1.08 | 0.542 | 04/06/1223:20 | 04/06/1209:39 | AD09-40 | AD09-35 | ICD005S | 04/04/1209:51 | 04/04/12 |
| SL-100-NBZ-SS-0.0-0.5MSD | D031-08S | 7.30 | 1 | 7.7 | 1.08 | 0.542 | 04/06/1223:36 | 04/06/1209:39 | AD09-41 | AD09-35 | ICD005S | 04/04/1209:51 | 04/04/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD005SB | ICD005SL | ICD005SC | | |
| LAB FILE ID: | AD09-11 | AD09-12 | AD09-13 | | |
| DATE EXTRACTED: | 04/06/1209:39 | 04/06/1209:39 | 04/06/1209:39 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/06/1215:32 | 04/06/1215:48 | 04/06/1216:04 | DATE RECEIVED: | 04/06/12 |
| PREP. BATCH: | ICD005S | ICD005S | ICD005S | | |
| CALIB. REF: | AD09-09 | AD09-09 | AD09-09 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 5.83 | 97 | 6.00 | 5.83 | 97 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: 300.0

MATRIX: SOIL % MOISTURE: 7.7

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-100-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D031-08 | D031-08M | D031-08S | | |
| LAB FILE ID: | AD09-39 | AD09-40 | AD09-41 | | |
| DATE EXTRACTED: | 04/06/1209:39 | 04/06/1209:39 | 04/06/1209:39 | DATE COLLECTED: | 04/04/12 09:51 |
| DATE ANALYZED: | 04/06/1223:04 | 04/06/1223:20 | 04/06/1223:36 | DATE RECEIVED: | 04/04/12 |
| PREP. BATCH: | ICD005S | ICD005S | ICD005S | | |
| CALIB. REF: | AD09-35 | AD09-35 | AD09-35 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.50 | 7.42 | 114 | 6.50 | 7.30 | 112 | 2 | 80-120 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D031
Matrix : WATER
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | ICD005WB | ND | 1 | NA | 0.443 | 0.222 | 04/04/1221:45 | NA | AD05-48 | AD05-46 | ICD005W | NA | NA |
| LCS1W | ICD005WL | 8.54 | 1 | NA | 0.443 | 0.222 | 04/04/1222:01 | NA | AD05-49 | AD05-46 | ICD005W | NA | NA |
| LCD1W | ICD005WC | 8.56 | 1 | NA | 0.443 | 0.222 | 04/04/1222:17 | NA | AD05-50 | AD05-46 | ICD005W | NA | NA |
| EB-NBZ-SB-040412 | D031-01 | ND | 1 | NA | 0.443 | 0.222 | 04/04/1222:33 | NA | AD05-51 | AD05-46 | ICD005W | 04/04/1214:30 | 04/04/12 |
| EB-NBZ-SS-040412 | D031-02 | ND | 1 | NA | 0.443 | 0.222 | 04/04/1222:50 | NA | AD05-52 | AD05-46 | ICD005W | 04/04/1215:45 | 04/04/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | ICD005WB | ICD005WL | ICD005WC | | |
| LAB FILE ID: | AD05-48 | AD05-49 | AD05-50 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/04/1221:45 | 04/04/1222:01 | 04/04/1222:17 | DATE RECEIVED: | NA |
| PREP. BATCH: | ICD005W | ICD005W | ICD005W | | |
| CALIB. REF: | AD05-46 | AD05-46 | AD05-46 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 8.86 | 8.54 | 96 | 8.86 | 8.56 | 97 | 0 | 90-110 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D031
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD005SB | ND | 1 | NA | 1.50 | 0.750 | 04/06/1215:32 | 04/06/1209:39 | AD09-11 | AD09-09 | ICD005S | NA | 04/06/12 |
| LCS1S | ICD005SL | 25.6 | 1 | NA | 1.50 | 0.750 | 04/06/1215:48 | 04/06/1209:39 | AD09-12 | AD09-09 | ICD005S | NA | 04/06/12 |
| LCD1S | ICD005SC | 25.6 | 1 | NA | 1.50 | 0.750 | 04/06/1216:04 | 04/06/1209:39 | AD09-13 | AD09-09 | ICD005S | NA | 04/06/12 |
| SL-020-NBZ-SB-2.5-3.5 | D031-04 | 6.05 | 1 | 11.7 | 1.70 | 0.849 | 04/06/1219:18 | 04/06/1209:39 | AD09-25 | AD09-23 | ICD005S | 04/04/1214:40 | 04/04/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD005SB | ICD005SL | ICD005SC | | |
| LAB FILE ID: | AD09-11 | AD09-12 | AD09-13 | | |
| DATE EXTRACTED: | 04/06/1209:39 | 04/06/1209:39 | 04/06/1209:39 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/06/1215:32 | 04/06/1215:48 | 04/06/1216:04 | DATE RECEIVED: | 04/06/12 |
| PREP. BATCH: | ICD005S | ICD005S | ICD005S | | |
| CALIB. REF: | AD09-09 | AD09-09 | AD09-09 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 25.6 | 96 | 26.6 | 25.6 | 96 | 0 | 90-110 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D031
Matrix : WATER
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | PCD004WB | ND | 1 | NA | 2.00 | 1.00 | 04/11/1221:28 | NA | JD11031 | JD11030 | PCD004W | NA | NA |
| LCS1W | PCD004WL | 25.9 | 1 | NA | 2.00 | 1.00 | 04/11/1222:10 | NA | JD11033 | JD11030 | PCD004W | NA | NA |
| LCD1W | PCD004WC | 26.0 | 1 | NA | 2.00 | 1.00 | 04/11/1222:31 | NA | JD11034 | JD11030 | PCD004W | NA | NA |
| EB-NBZ-SB-040412 | D031-01 | ND | 1 | NA | 2.00 | 1.00 | 04/11/1223:13 | NA | JD11036 | JD11030 | PCD004W | 04/04/1214:30 | 04/04/12 |
| EB-NBZ-SS-040412 | D031-02 | ND | 1 | NA | 2.00 | 1.00 | 04/11/1223:34 | NA | JD11037 | JD11030 | PCD004W | 04/04/1215:45 | 04/04/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | PCD004WB | PCD004WL | PCD004WC | | |
| LAB FILE ID: | JD11031 | JD11033 | JD11034 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1221:28 | 04/11/1222:10 | 04/11/1222:31 | DATE RECEIVED: | NA |
| PREP. BATCH: | PCD004W | PCD004W | PCD004W | | |
| CALIB. REF: | JD11030 | JD11030 | JD11030 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 25.0 | 25.9 | 104 | 25.0 | 26.0 | 104 | 0 | 85-115 | 15 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D031
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD010SB | ND | 1 | NA | 20.0 | 10.0 | 04/11/1211:03 | 04/06/1211:00 | JD11002 | JD11001 | PCD010S | NA | 04/06/12 |
| LCS1S | PCD010SL | 248 | 1 | NA | 20.0 | 10.0 | 04/11/1211:45 | 04/06/1211:00 | JD11004 | JD11001 | PCD010S | NA | 04/06/12 |
| LCD1S | PCD010SC | 248 | 1 | NA | 20.0 | 10.0 | 04/11/1212:09 | 04/06/1211:00 | JD11005 | JD11001 | PCD010S | NA | 04/06/12 |
| SL-020-NBZ-SB-2.5-3.5 | D031-04 | ND | 1 | 11.7 | 22.7 | 11.3 | 04/11/1214:46 | 04/06/1211:00 | JD11012 | JD11011 | PCD010S | 04/04/1214:40 | 04/04/12 |
| SL-020-NBZ-SS-0.0-0.5 | D031-05 | ND | 1 | 9.7 | 22.1 | 11.1 | 04/11/1215:07 | 04/06/1211:00 | JD11013 | JD11011 | PCD010S | 04/04/1213:40 | 04/04/12 |
| SL-097-NBZ-SS-0.0-0.5 | D031-06 | ND | 1 | 6.7 | 21.4 | 10.7 | 04/11/1215:28 | 04/06/1211:00 | JD11014 | JD11011 | PCD010S | 04/04/1209:14 | 04/04/12 |
| SL-099-NBZ-SS-0.0-0.5 | D031-07 | ND | 1 | 8.2 | 21.8 | 10.9 | 04/11/1215:49 | 04/06/1211:00 | JD11015 | JD11011 | PCD010S | 04/04/1210:41 | 04/04/12 |
| SL-100-NBZ-SS-0.0-0.5 | D031-08 | ND | 1 | 7.7 | 21.7 | 10.8 | 04/11/1216:10 | 04/06/1211:00 | JD11016 | JD11011 | PCD010S | 04/04/1209:51 | 04/04/12 |
| SL-100-NBZ-SS-0.0-0.5MS | D031-08M | 264 | 1 | 7.7 | 21.7 | 10.8 | 04/11/1216:31 | 04/06/1211:00 | JD11017 | JD11011 | PCD010S | 04/04/1209:51 | 04/04/12 |
| SL-100-NBZ-SS-0.0-0.5MSD | D031-08S | 261 | 1 | 7.7 | 21.7 | 10.8 | 04/11/1216:52 | 04/06/1211:00 | JD11018 | JD11011 | PCD010S | 04/04/1209:51 | 04/04/12 |
| SL-104-NBZ-SS-0.0-0.5 | D031-09 | ND | 1 | 7.1 | 21.5 | 10.8 | 04/11/1217:13 | 04/06/1211:00 | JD11019 | JD11011 | PCD010S | 04/04/1210:40 | 04/04/12 |
| SL-110-NBZ-SS-0.0-0.5 | D031-10 | ND | 1 | 7.6 | 21.6 | 10.8 | 04/11/1217:34 | 04/06/1211:00 | JD11020 | JD11011 | PCD010S | 04/04/1209:00 | 04/04/12 |
| SL-114-NBZ-SS-0.0-0.5 | D031-11 | ND | 1 | 8.2 | 21.8 | 10.9 | 04/11/1218:40 | 04/06/1211:00 | JD11023 | JD11022 | PCD010S | 04/04/1209:25 | 04/04/12 |
| SL-120-NBZ-SS-0.0-0.5 | D031-12 | ND | 1 | 7.5 | 21.6 | 10.8 | 04/11/1219:01 | 04/06/1211:00 | JD11024 | JD11022 | PCD010S | 04/04/1211:05 | 04/04/12 |
| SL-155-NBZ-SS-0.0-0.5 | D031-13 | ND | 1 | 8.1 | 21.8 | 10.9 | 04/11/1219:22 | 04/06/1211:00 | JD11025 | JD11022 | PCD010S | 04/04/1214:55 | 04/04/12 |
| SL-181-NBZ-SS-0.0-0.5 | D031-14 | ND | 1 | 8.8 | 21.9 | 11.0 | 04/11/1219:43 | 04/06/1211:00 | JD11026 | JD11022 | PCD010S | 04/04/1214:22 | 04/04/12 |
| SL-187-NBZ-SS-0.0-0.5 | D031-15 | ND | 1 | 8.4 | 21.8 | 10.9 | 04/11/1220:04 | 04/06/1211:00 | JD11027 | JD11022 | PCD010S | 04/04/1213:49 | 04/04/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD010SB | PCD010SL | PCD010SC | | |
| LAB FILE ID: | JD11002 | JD11004 | JD11005 | | |
| DATE EXTRACTED: | 04/06/1211:00 | 04/06/1211:00 | 04/06/1211:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1211:03 | 04/11/1211:45 | 04/11/1212:09 | DATE RECEIVED: | 04/06/12 |
| PREP. BATCH: | PCD010S | PCD010S | PCD010S | | |
| CALIB. REF: | JD11001 | JD11001 | JD11001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 248 | 99 | 250 | 248 | 99 | 0 | 85-115 | 15 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 7.7 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-100-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D031-08 | D031-08M | D031-08S | | |
| LAB FILE ID: | JD11016 | JD11017 | JD11018 | | |
| DATE EXTRACTED: | 04/06/1211:00 | 04/06/1211:00 | 04/06/1211:00 | DATE COLLECTED: | 04/04/12 09:51 |
| DATE ANALYZED: | 04/11/1216:10 | 04/11/1216:31 | 04/11/1216:52 | DATE RECEIVED: | 04/04/12 |
| PREP. BATCH: | PCD010S | PCD010S | PCD010S | | |
| CALIB. REF: | JD11011 | JD11011 | JD11011 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 271 | 264 | 98 | 271 | 261 | 96 | 1 | 80-120 | 20 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D031
Matrix : WATER
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | HCD003WB | ND | 1 | NA | 0.200 | 0.100 | 04/04/1220:02 | NA | ID05003 | ID05001 | HCD003W | NA | NA |
| MBLK1W | HCD003WQ | ND | 1 | NA | 0.200 | 0.100 | 04/04/1220:12 | NA | ID05004 | ID05001 | HCD003W | NA | NA |
| LCS1W | HCD003WL | 1.77 | 1 | NA | 0.200 | 0.100 | 04/04/1220:22 | NA | ID05005 | ID05001 | HCD003W | NA | NA |
| LCS1W | HCD003WX | 1.75 | 1 | NA | 0.200 | 0.100 | 04/04/1220:33 | NA | ID05006 | ID05001 | HCD003W | NA | NA |
| LCD1W | HCD003WC | 1.79 | 1 | NA | 0.200 | 0.100 | 04/04/1220:43 | NA | ID05007 | ID05001 | HCD003W | NA | NA |
| LCD1W | HCD003WY | 1.65 | 1 | NA | 0.200 | 0.100 | 04/04/1220:54 | NA | ID05008 | ID05001 | HCD003W | NA | NA |
| EB-NBZ-SB-040412 | D031-01 | ND | 1 | NA | 0.200 | 0.100 | 04/04/1221:04 | NA | ID05009 | ID05001 | HCD003W | 04/04/1214:30 | 04/04/12 |
| EB-NBZ-SB-040412 | D031-01R | ND | 1 | NA | 0.200 | 0.100 | 04/04/1221:14 | NA | ID05010 | ID05001 | HCD003W | 04/04/1214:30 | 04/04/12 |
| EB-NBZ-SS-040412 | D031-02 | ND | 1 | NA | 0.200 | 0.100 | 04/04/1221:25 | NA | ID05011 | ID05001 | HCD003W | 04/04/1215:45 | 04/04/12 |
| EB-NBZ-SS-040412 | D031-02R | ND | 1 | NA | 0.200 | 0.100 | 04/04/1221:35 | NA | ID05012 | ID05001 | HCD003W | 04/04/1215:45 | 04/04/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: 7199

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HCD003WB | HCD003WL | HCD003WC | | |
| LAB FILE ID: | ID05003 | ID05005 | ID05007 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/04/1220:02 | 04/04/1220:22 | 04/04/1220:43 | DATE RECEIVED: | NA |
| PREP. BATCH: | HCD003W | HCD003W | HCD003W | | |
| CALIB. REF: | ID05001 | ID05001 | ID05001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 2.00 | 1.77 | 89 | 2.00 | 1.79 | 89 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: 7199

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HCD003WQ | HCD003WX | HCD003WY | | |
| LAB FILE ID: | ID05004 | ID05006 | ID05008 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/04/1220:12 | 04/04/1220:33 | 04/04/1220:54 | DATE RECEIVED: | NA |
| PREP. BATCH: | HCD003W | HCD003W | HCD003W | | |
| CALIB. REF: | ID05001 | ID05001 | ID05001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 2.00 | 1.75 | 87 | 2.00 | 1.65 | 83 | 5 | 80-120 | 20 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D031
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD007SB | ND | 1 | NA | 1.00 | 0.500 | 04/11/1216:42 | 04/10/1212:06 | ID11003 | ID11001 | HCD007S | NA | 04/10/12 |
| MBLK1S | HCD007SQ | ND | 1 | NA | 1.00 | 0.500 | 04/11/1216:52 | 04/10/1212:06 | ID11004 | ID11001 | HCD007S | NA | 04/10/12 |
| LCS1S | CSD007SL | 8.94 | 1 | NA | 1.00 | 0.500 | 04/11/1217:24 | 04/10/1212:06 | ID11005 | ID11001 | HCD007S | NA | 04/10/12 |
| LCS1S | CSD007SX | 9.77 | 1 | NA | 1.00 | 0.500 | 04/11/1217:34 | 04/10/1212:06 | ID11006 | ID11001 | HCD007S | NA | 04/10/12 |
| LCS2S | CID007SL | 306 | 20 | NA | 20.0 | 10.0 | 04/11/1217:44 | 04/10/1212:06 | ID11007 | ID11001 | HCD007S | NA | 04/10/12 |
| LCS2S | CID007SX | 304 | 20 | NA | 20.0 | 10.0 | 04/11/1217:55 | 04/10/1212:06 | ID11008 | ID11001 | HCD007S | NA | 04/10/12 |
| SL-100-NBZ-SS-0.0-0.5MS | D031-08M | 11.3 | 1 | 7.7 | 1.08 | 0.542 | 04/11/1218:20 | 04/10/1212:06 | ID11009 | ID11001 | HCD007S | 04/04/1209:51 | 04/04/12 |
| SL-100-NBZ-SS-0.0-0.5MS | D031-08M1 | 12.2 | 1 | 7.7 | 1.08 | 0.542 | 04/11/1218:30 | 04/10/1212:06 | ID11010 | ID11001 | HCD007S | 04/04/1209:51 | 04/04/12 |
| SL-100-NBZ-SS-0.0-0.5MS | D031-08G | 305 | 20 | 7.7 | 21.7 | 10.8 | 04/11/1218:41 | 04/10/1212:06 | ID11011 | ID11001 | HCD007S | 04/04/1209:51 | 04/04/12 |
| SL-100-NBZ-SS-0.0-0.5MS | D031-08G1 | 313 | 20 | 7.7 | 21.7 | 10.8 | 04/11/1218:51 | 04/10/1212:06 | ID11012 | ID11001 | HCD007S | 04/04/1209:51 | 04/04/12 |
| SL-100-NBZ-SS-0.0-0.5 | D031-08 | ND | 1 | 7.7 | 1.08 | 0.542 | 04/11/1219:33 | 04/10/1212:06 | ID11015 | ID11013 | HCD007S | 04/04/1209:51 | 04/04/12 |
| SL-100-NBZ-SS-0.0-0.5 | D031-08R | ND | 1 | 7.7 | 1.08 | 0.542 | 04/11/1219:43 | 04/10/1212:06 | ID11016 | ID11013 | HCD007S | 04/04/1209:51 | 04/04/12 |
| SL-100-NBZ-SS-0.0-0.5DUP | D031-08D | ND | 1 | 7.7 | 1.08 | 0.542 | 04/11/1219:54 | 04/10/1212:06 | ID11017 | ID11013 | HCD007S | 04/04/1209:51 | 04/04/12 |
| SL-100-NBZ-SS-0.0-0.5DUP | D031-08Z | ND | 1 | 7.7 | 1.08 | 0.542 | 04/11/1220:04 | 04/10/1212:06 | ID11018 | ID11013 | HCD007S | 04/04/1209:51 | 04/04/12 |
| SL-020-NBZ-SB-2.5-3.5 | D031-04 | ND | 1 | 11.7 | 1.13 | 0.566 | 04/11/1220:14 | 04/10/1212:06 | ID11019 | ID11013 | HCD007S | 04/04/1214:40 | 04/04/12 |
| SL-020-NBZ-SB-2.5-3.5 | D031-04R | ND | 1 | 11.7 | 1.13 | 0.566 | 04/11/1220:25 | 04/10/1212:06 | ID11020 | ID11013 | HCD007S | 04/04/1214:40 | 04/04/12 |
| SL-020-NBZ-SS-0.0-0.5 | D031-05 | ND | 1 | 9.7 | 1.11 | 0.554 | 04/11/1220:35 | 04/10/1212:06 | ID11021 | ID11013 | HCD007S | 04/04/1213:40 | 04/04/12 |
| SL-020-NBZ-SS-0.0-0.5 | D031-05R | ND | 1 | 9.7 | 1.11 | 0.554 | 04/11/1220:46 | 04/10/1212:06 | ID11022 | ID11013 | HCD007S | 04/04/1213:40 | 04/04/12 |
| SL-097-NBZ-SS-0.0-0.5 | D031-06 | ND | 1 | 6.7 | 1.07 | 0.536 | 04/11/1220:56 | 04/10/1212:06 | ID11023 | ID11013 | HCD007S | 04/04/1209:14 | 04/04/12 |
| SL-097-NBZ-SS-0.0-0.5 | D031-06R | ND | 1 | 6.7 | 1.07 | 0.536 | 04/11/1221:07 | 04/10/1212:06 | ID11024 | ID11013 | HCD007S | 04/04/1209:14 | 04/04/12 |
| SL-099-NBZ-SS-0.0-0.5 | D031-07 | ND | 1 | 8.2 | 1.09 | 0.545 | 04/11/1221:48 | 04/10/1212:06 | ID11027 | ID11025 | HCD007S | 04/04/1210:41 | 04/04/12 |
| SL-099-NBZ-SS-0.0-0.5 | D031-07R | ND | 1 | 8.2 | 1.09 | 0.545 | 04/11/1221:59 | 04/10/1212:06 | ID11028 | ID11025 | HCD007S | 04/04/1210:41 | 04/04/12 |
| SL-104-NBZ-SS-0.0-0.5 | D031-09 | ND | 1 | 7.1 | 1.08 | 0.538 | 04/11/1222:09 | 04/10/1212:06 | ID11029 | ID11025 | HCD007S | 04/04/1210:40 | 04/04/12 |
| SL-104-NBZ-SS-0.0-0.5 | D031-09R | ND | 1 | 7.1 | 1.08 | 0.538 | 04/11/1222:19 | 04/10/1212:06 | ID11030 | ID11025 | HCD007S | 04/04/1210:40 | 04/04/12 |
| SL-110-NBZ-SS-0.0-0.5 | D031-10 | ND | 1 | 7.6 | 1.08 | 0.541 | 04/11/1222:30 | 04/10/1212:06 | ID11031 | ID11025 | HCD007S | 04/04/1209:00 | 04/04/12 |
| SL-110-NBZ-SS-0.0-0.5 | D031-10R | ND | 1 | 7.6 | 1.08 | 0.541 | 04/11/1222:40 | 04/10/1212:06 | ID11032 | ID11025 | HCD007S | 04/04/1209:00 | 04/04/12 |
| SL-114-NBZ-SS-0.0-0.5 | D031-11 | ND | 1 | 8.2 | 1.09 | 0.545 | 04/11/1222:51 | 04/10/1212:06 | ID11033 | ID11025 | HCD007S | 04/04/1209:25 | 04/04/12 |
| SL-114-NBZ-SS-0.0-0.5 | D031-11R | ND | 1 | 8.2 | 1.09 | 0.545 | 04/11/1223:01 | 04/10/1212:06 | ID11034 | ID11025 | HCD007S | 04/04/1209:25 | 04/04/12 |
| SL-120-NBZ-SS-0.0-0.5 | D031-12 | ND | 1 | 7.5 | 1.08 | 0.541 | 04/11/1223:11 | 04/10/1212:06 | ID11035 | ID11025 | HCD007S | 04/04/1211:05 | 04/04/12 |
| SL-120-NBZ-SS-0.0-0.5 | D031-12R | ND | 1 | 7.5 | 1.08 | 0.541 | 04/11/1223:22 | 04/10/1212:06 | ID11036 | ID11025 | HCD007S | 04/04/1211:05 | 04/04/12 |
| SL-155-NBZ-SS-0.0-0.5 | D031-13 | ND | 1 | 8.1 | 1.09 | 0.544 | 04/12/1200:03 | 04/10/1212:06 | ID11039 | ID11037 | HCD007S | 04/04/1214:55 | 04/04/12 |
| SL-155-NBZ-SS-0.0-0.5 | D031-13R | ND | 1 | 8.1 | 1.09 | 0.544 | 04/12/1200:14 | 04/10/1212:06 | ID11040 | ID11037 | HCD007S | 04/04/1214:55 | 04/04/12 |
| SL-181-NBZ-SS-0.0-0.5 | D031-14 | ND | 1 | 8.8 | 1.10 | 0.548 | 04/12/1200:24 | 04/10/1212:06 | ID11041 | ID11037 | HCD007S | 04/04/1214:22 | 04/04/12 |
| SL-181-NBZ-SS-0.0-0.5 | D031-14R | ND | 1 | 8.8 | 1.10 | 0.548 | 04/12/1200:35 | 04/10/1212:06 | ID11042 | ID11037 | HCD007S | 04/04/1214:22 | 04/04/12 |
| SL-187-NBZ-SS-0.0-0.5 | D031-15 | ND | 1 | 8.4 | 1.09 | 0.546 | 04/12/1200:45 | 04/10/1212:06 | ID11043 | ID11037 | HCD007S | 04/04/1213:49 | 04/04/12 |
| SL-187-NBZ-SS-0.0-0.5 | D031-15R | ND | 1 | 8.4 | 1.09 | 0.546 | 04/12/1200:55 | 04/10/1212:06 | ID11044 | ID11037 | HCD007S | 04/04/1213:49 | 04/04/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD007SQ CID007SX
LAB FILE ID: ID11004 ID11008
DATE EXTRACTED: 04/10/1212:06 04/10/1212:06 DATE COLLECTED: NA
DATE ANALYZED: 04/11/1216:52 04/11/1217:55 DATE RECEIVED: 04/10/12
PREP. BATCH: HCD007S HCD007S
CALIB. REF: ID11001 ID11001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 353 | 304 | 86 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD007SQ CSD007SX
LAB FILE ID: ID11004 ID11006
DATE EXTRACTED: 04/10/1212:06 04/10/1212:06 DATE COLLECTED: NA
DATE ANALYZED: 04/11/1216:52 04/11/1217:34 DATE RECEIVED: 04/10/12
PREP. BATCH: HCD007S HCD007S
CALIB. REF: ID11001 ID11001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 9.77 | 98 | 80-120 |

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: 7199

MATRIX: SOIL % MOISTURE: 7.7
DILUTION FACTOR: 1 20
SAMPLE ID: SL-100-NBZ-SS-0.0-0.5
LAB SAMP ID: D031-08R D031-08G1
LAB FILE ID: ID11016 ID11012
DATE EXTRACTED: 04/10/1212:06 04/10/1212:06 DATE COLLECTED: 04/04/12 09:51
DATE ANALYZED: 04/11/1219:43 04/11/1218:51 DATE RECEIVED: 04/04/12
PREP. BATCH: HCD007S HCD007S
CALIB. REF: ID11013 ID11001

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 371 | 313 | 84 | 75-125 |

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: 7199

MATRIX: SOIL % MOISTURE: 7.7

| | | | | |
|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | SL-100-NBZ-SS-0.0-0.5 | | | |
| LAB SAMP ID: | D031-08R | D031-08M1 | | |
| LAB FILE ID: | ID11016 | ID11010 | | |
| DATE EXTRACTED: | 04/10/1212:06 | 04/10/1212:06 | DATE COLLECTED: | 04/04/12 09:51 |
| DATE ANALYZED: | 04/11/1219:43 | 04/11/1218:30 | DATE RECEIVED: | 04/04/12 |
| PREP. BATCH: | HCD007S | HCD007S | | |
| CALIB. REF: | ID11013 | ID11001 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.8 | 12.2 | 112 | 75-125 |

EMAX QUALITY CONTROL DATA
DUPLICATE SAMPLE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: 7199

MATRIX: SOIL % MOISTURE: 7.7
DILUTION FACTOR: 1 1
SAMPLE ID: SL-100-NBZ-SS-0.0-0.5
EMAX SAMP ID: D031-08R D031-08Z
LAB FILE ID: ID11016 ID11018
DATE EXTRACTED: 04/10/1212:06 04/10/1212:06 DATE COLLECTED: 04/04/12 09:51
DATE ANALYZED: 04/11/1219:43 04/11/1220:04 DATE RECEIVED: 04/04/12
PREP. BATCH: HCD007S HCD007S
CALIB. REF: ID11013 ID11013

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | DUPL RSLT (mg/kg) | RPD RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Hexavalent Chromium | ND | ND | 0 | 20 |

EMAX QUALITY CONTROL DATA
DUPLICATE SAMPLE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D031
METHOD: 7199

MATRIX: SOIL % MOISTURE: 7.7
DILUTION FACTOR: 1 1
SAMPLE ID: SL-100-NBZ-SS-0.0-0.5
EMAX SAMP ID: D031-08 D031-08D
LAB FILE ID: ID11015 ID11017
DATE EXTRACTED: 04/10/1212:06 04/10/1212:06 DATE COLLECTED: 04/04/12 09:51
DATE ANALYZED: 04/11/1219:33 04/11/1219:54 DATE RECEIVED: 04/04/12
PREP. BATCH: HCD007S HCD007S
CALIB. REF: ID11013 ID11013

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | DUPL RSLT (mg/kg) | RPD RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Hexavalent Chromium | ND | ND | 0 | 20 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D031

Matrix : WATER
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | CND005WB | ND | 1 | NA | 0.0100 | 0.00500 | 04/10/1219:45 | 04/10/1211:00 | CND00510 | CND00508 | CND005W | NA | 04/10/12 |
| LCS1W | CND005WL | 0.111 | 1 | NA | 0.0100 | 0.00500 | 04/10/1219:45 | 04/10/1211:00 | CND00511 | CND00508 | CND005W | NA | 04/10/12 |
| LCD1W | CND005WC | 0.106 | 1 | NA | 0.0100 | 0.00500 | 04/10/1219:45 | 04/10/1211:00 | CND00512 | CND00508 | CND005W | NA | 04/10/12 |
| EB-NBZ-SB-040412 | D031-01 | ND | 1 | NA | 0.0100 | 0.00500 | 04/10/1219:46 | 04/10/1211:00 | CND00515 | CND00508 | CND005W | 04/04/1214:30 | 04/04/12 |
| EB-NBZ-SS-040412 | D031-02 | ND | 1 | NA | 0.0100 | 0.00500 | 04/10/1219:46 | 04/10/1211:00 | CND00516 | CND00508 | CND005W | 04/04/1215:45 | 04/04/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 12D031
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: CND005WL/C

DATE RECEIVED: 04/10/12
DATE EXTRACTED: 04/10/1211:00
DATE ANALYZED: 04/10/1219:45/19:45

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 0.100 | 0.111 | 111 | 0.100 | 0.106 | 106 | 5 | 85-115 | 20 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D031
Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CND004SB | ND | 1 | NA | 0.500 | 0.250 | 04/10/1219:37 | 04/10/1211:00 | CND00410 | CND00408 | CND004S | NA | 04/10/12 |
| LCS1S | CND004SL | 2.27 | 1 | NA | 0.500 | 0.250 | 04/10/1219:37 | 04/10/1211:00 | CND00411 | CND00408 | CND004S | NA | 04/10/12 |
| LCD1S | CND004SC | 2.19 | 1 | NA | 0.500 | 0.250 | 04/10/1219:37 | 04/10/1211:00 | CND00412 | CND00408 | CND004S | NA | 04/10/12 |
| SL-020-NBZ-SB-2.5-3.5 | D031-04 | ND | 1 | 11.7 | 0.566 | 0.283 | 04/10/1219:40 | 04/10/1211:00 | CND00423 | CND00420 | CND004S | 04/04/1214:40 | 04/04/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D031
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CND004SL/C

DATE RECEIVED: 04/10/12
DATE EXTRACTED: 04/10/1211:00
DATE ANALYZED: 04/10/1219:37/19:37

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.27 | 91 | 2.50 | 2.19 | 88 | 4 | 85-125 | 20 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D031
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-020-NBZ-SB-2.5-3.5 | D031-04 | 7.10 | 1 | 11.7 | NA | NA | 04/05/1217:35 | 04/05/1217:35 | 12PHD005S01 | PHD005S | PHD005S | 04/04/1214:40 | 04/04/12 |
| SL-020-NBZ-SB-2.5-3.5DUP | D031-04D | 7.13 | 1 | 11.7 | NA | NA | 04/05/1217:36 | 04/05/1217:35 | 12PHD005S01 | PHD005S | PHD005S | 04/04/1214:40 | 04/04/12 |
| SL-020-NBZ-SS-0.0-0.5 | D031-05 | 6.86 | 1 | 9.7 | NA | NA | 04/05/1217:39 | 04/05/1217:35 | 12PHD005S03 | PHD005S | PHD005S | 04/04/1213:40 | 04/04/12 |
| SL-097-NBZ-SS-0.0-0.5 | D031-06 | 7.27 | 1 | 6.7 | NA | NA | 04/05/1217:41 | 04/05/1217:35 | 12PHD005S04 | PHD005S | PHD005S | 04/04/1209:14 | 04/04/12 |
| SL-099-NBZ-SS-0.0-0.5 | D031-07 | 6.52 | 1 | 8.2 | NA | NA | 04/05/1217:44 | 04/05/1217:35 | 12PHD005S05 | PHD005S | PHD005S | 04/04/1210:41 | 04/04/12 |
| SL-100-NBZ-SS-0.0-0.5 | D031-08 | 6.45 | 1 | 7.7 | NA | NA | 04/05/1217:48 | 04/05/1217:35 | 12PHD005S06 | PHD005S | PHD005S | 04/04/1209:51 | 04/04/12 |
| SL-104-NBZ-SS-0.0-0.5 | D031-09 | 6.22 | 1 | 7.1 | NA | NA | 04/05/1217:50 | 04/05/1217:35 | 12PHD005S07 | PHD005S | PHD005S | 04/04/1210:40 | 04/04/12 |
| SL-110-NBZ-SS-0.0-0.5 | D031-10 | 6.34 | 1 | 7.6 | NA | NA | 04/05/1217:53 | 04/05/1217:35 | 12PHD005S08 | PHD005S | PHD005S | 04/04/1209:00 | 04/04/12 |
| SL-114-NBZ-SS-0.0-0.5 | D031-11 | 6.31 | 1 | 8.2 | NA | NA | 04/05/1218:00 | 04/05/1217:35 | 12PHD005S09 | PHD005S | PHD005S | 04/04/1209:25 | 04/04/12 |
| SL-120-NBZ-SS-0.0-0.5 | D031-12 | 6.30 | 1 | 7.5 | NA | NA | 04/05/1218:02 | 04/05/1217:35 | 12PHD005S10 | PHD005S | PHD005S | 04/04/1211:05 | 04/04/12 |
| SL-155-NBZ-SS-0.0-0.5 | D031-13 | 6.75 | 1 | 8.1 | NA | NA | 04/05/1218:04 | 04/05/1217:35 | 12PHD005S11 | PHD005S | PHD005S | 04/04/1214:55 | 04/04/12 |
| SL-181-NBZ-SS-0.0-0.5 | D031-14 | 6.76 | 1 | 8.8 | NA | NA | 04/05/1218:06 | 04/05/1217:35 | 12PHD005S12 | PHD005S | PHD005S | 04/04/1214:22 | 04/04/12 |
| SL-187-NBZ-SS-0.0-0.5 | D031-15 | 6.28 | 1 | 8.4 | NA | NA | 04/05/1218:08 | 04/05/1217:35 | 12PHD005S13 | PHD005S | PHD005S | 04/04/1213:49 | 04/04/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D031 DATE RECEIVED: 04/04/12
SAMPLE ID: SL-020-NBZ-SB-2.5-3.5DUP DATE EXTRACTED: 04/05/12 17:35
CONTROL NO.: D031-04D DATE ANALYZED: 04/05/12 17:36

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | QC LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 7.10 | 7.13 | -0.03 | 0.1 |

METHOD 9040C
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D031
Matrix : WATER
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EB-NBZ-SB-040412 | D031-01 | 5.92 | 1 | NA | NA | NA | 04/04/1218:38 | NA | 12PHD004W01 | PHD004W | PHD004W | 04/04/1214:30 | 04/04/12 |
| EB-NBZ-SB-040412DUP | D031-01D | 5.97 | 1 | NA | NA | NA | 04/04/1218:38 | NA | 12PHD004W02 | PHD004W | PHD004W | 04/04/1214:30 | 04/04/12 |
| EB-NBZ-SS-040412 | D031-02 | 5.61 | 1 | NA | NA | NA | 04/04/1218:44 | NA | 12PHD004W03 | PHD004W | PHD004W | 04/04/1215:45 | 04/04/12 |

# SAMPLE DELIVERY GROUP

# 12D048

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D048 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-149-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 03:13 |
| Lab Samp ID: D048-01 | Dilution Factor: 1 |
| Lab File ID: RDJ216 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 8.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 370 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 876 | 1096 | 79.9 | 35-130 |
| 2-FLUOROBIPHENYL | 264 | 365.5 | 72.4 | 45-130 |
| 2-FLUOROPHENOL | 633 | 1096 | 57.8 | 25-130 |
| NITROBENZENE-D5 | 239 | 365.5 | 65.4 | 40-130 |
| PHENOL-D5 | 711 | 1096 | 64.9 | 25-120 |
| TERPHENYL-D14 | 298 | 365.5 | 81.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D048 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-165-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 03:34 |
| Lab Samp ID: D048-02 | Dilution Factor: 1 |
| Lab File ID: RDJ217 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 9.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 93 |
| 1,2-DICHLOROBENZENE | ND | 180 | 93 |
| 1,3-DICHLOROBENZENE | ND | 180 | 93 |
| 1,4-DICHLOROBENZENE | ND | 180 | 93 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 93 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 93 |
| 2,6-DINITROTOLUENE | ND | 180 | 93 |
| 2-CHLORONAPHTHALENE | ND | 180 | 93 |
| 2-CHLOROPHENOL | ND | 180 | 93 |
| 2-METHYLNAPHTHALENE | ND | 180 | 93 |
| 2-METHYLPHENOL | ND | 180 | 93 |
| 2-NITROANILINE | ND | 180 | 93 |
| 2-NITROPHENOL | ND | 180 | 93 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 93 |
| 3-NITROANILINE | ND | 180 | 93 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 93 |
| 4-CHLOROANILINE | ND | 180 | 93 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-METHYLPHENOL (1) | ND | 180 | 93 |
| 4-NITROANILINE | ND | 180 | 93 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 93 |
| ACENAPHTHYLENE | ND | 180 | 93 |
| ANTHRACENE | ND | 180 | 93 |
| BENZO(A)ANTHRACENE | ND | 180 | 93 |
| BENZO(A)PYRENE | ND | 180 | 93 |
| BENZO(B)FLUORANTHENE | ND | 180 | 93 |
| BENZO(K)FLUORANTHENE | ND | 180 | 93 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 93 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 93 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 93 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 93 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 93 |
| CHRYSENE | ND | 180 | 93 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 93 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 93 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 93 |
| DIBENZOFURAN | ND | 180 | 93 |
| DIETHYLPHTHALATE | ND | 180 | 93 |
| DIMETHYLPHTHALATE | ND | 180 | 93 |
| FLUORANTHENE | ND | 180 | 93 |
| FLUORENE | ND | 180 | 93 |
| HEXACHLOROBENZENE | ND | 180 | 93 |
| HEXACHLOROBUTADIENE | ND | 180 | 93 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 93 |
| HEXACHLOROETHANE | ND | 180 | 93 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 93 |
| ISOPHORONE | ND | 180 | 93 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 93 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 93 |
| NAPHTHALENE | ND | 180 | 93 |
| NITROBENZENE | ND | 180 | 93 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 93 |
| PHENOL | ND | 180 | 93 |
| PYRENE | ND | 180 | 93 |
| BENZYL ALCOHOL | ND | 180 | 93 |
| 1-METHYLNAPHTHALENE | ND | 180 | 93 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 93 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 93 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 920 | 470 |
| BENZOIC ACID | ND | 740 | 370 |
| CARBAZOLE | ND | 180 | 93 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 93 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 674 | 1107 | 60.8 | 35-130 |
| 2-FLUOROBIPHENYL | 217 | 369.1 | 58.7 | 45-130 |
| 2-FLUOROPHENOL | 552 | 1107 | 49.9 | 25-130 |
| NITROBENZENE-D5 | 209 | 369.1 | 56.6 | 40-130 |
| PHENOL-D5 | 589 | 1107 | 53.2 | 25-120 |
| TERPHENYL-D14 | 229 | 369.1 | 62.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D048 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-175-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 03:54 |
| Lab Samp ID: D048-03 | Dilution Factor: 1 |
| Lab File ID: RDJ218 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 14.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 98 |
| 1,2-DICHLOROBENZENE | ND | 200 | 98 |
| 1,3-DICHLOROBENZENE | ND | 200 | 98 |
| 1,4-DICHLOROBENZENE | ND | 200 | 98 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 98 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 98 |
| 2,4-DICHLOROPHENOL | ND | 200 | 98 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 98 |
| 2,4-DINITROPHENOL | ND | 390 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 98 |
| 2,6-DINITROTOLUENE | ND | 200 | 98 |
| 2-CHLORONAPHTHALENE | ND | 200 | 98 |
| 2-CHLOROPHENOL | ND | 200 | 98 |
| 2-METHYLNAPHTHALENE | ND | 200 | 98 |
| 2-METHYLPHENOL | ND | 200 | 98 |
| 2-NITROANILINE | ND | 200 | 98 |
| 2-NITROPHENOL | ND | 200 | 98 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 98 |
| 3-NITROANILINE | ND | 200 | 98 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 98 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 98 |
| 4-CHLOROANILINE | ND | 200 | 98 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 98 |
| 4-METHYLPHENOL (1) | ND | 200 | 98 |
| 4-NITROANILINE | ND | 200 | 98 |
| 4-NITROPHENOL | ND | 390 | 200 |
| ACENAPHTHENE | ND | 200 | 98 |
| ACENAPHTHYLENE | ND | 200 | 98 |
| ANTHRACENE | ND | 200 | 98 |
| BENZO(A)ANTHRACENE | ND | 200 | 98 |
| BENZO(A)PYRENE | ND | 200 | 98 |
| BENZO(B)FLUORANTHENE | ND | 200 | 98 |
| BENZO(K)FLUORANTHENE | ND | 200 | 98 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 98 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 98 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 98 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 98 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 98 |
| CHRYSENE | ND | 200 | 98 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 98 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 98 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 98 |
| DIBENZOFURAN | ND | 200 | 98 |
| DIETHYLPHTHALATE | ND | 200 | 98 |
| DIMETHYLPHTHALATE | ND | 200 | 98 |
| FLUORANTHENE | ND | 200 | 98 |
| FLUORENE | ND | 200 | 98 |
| HEXACHLOROBENZENE | ND | 200 | 98 |
| HEXACHLOROBUTADIENE | ND | 200 | 98 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 98 |
| HEXACHLOROETHANE | ND | 200 | 98 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 98 |
| ISOPHORONE | ND | 200 | 98 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 98 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 98 |
| NAPHTHALENE | ND | 200 | 98 |
| NITROBENZENE | ND | 200 | 98 |
| PENTACHLOROPHENOL | ND | 390 | 200 |
| PHENANTHRENE | ND | 200 | 98 |
| PHENOL | ND | 200 | 98 |
| PYRENE | ND | 200 | 98 |
| BENZYL ALCOHOL | ND | 200 | 98 |
| 1-METHYLNAPHTHALENE | ND | 200 | 98 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 98 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 98 |
| ANILINE | ND | 390 | 200 |
| BENZIDINE | ND | 970 | 490 |
| BENZOIC ACID | ND | 780 | 390 |
| CARBAZOLE | ND | 200 | 98 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 98 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 945 | 1172 | 80.6 | 35-130 |
| 2-FLUOROBIPHENYL | 281 | 390.7 | 71.8 | 45-130 |
| 2-FLUOROPHENOL | 713 | 1172 | 60.8 | 25-130 |
| NITROBENZENE-D5 | 258 | 390.7 | 66.1 | 40-130 |
| PHENOL-D5 | 770 | 1172 | 65.7 | 25-120 |
| TERPHENYL-D14 | 319 | 390.7 | 81.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D048 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-190-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 04:15 |
| Lab Samp ID: D048-04 | Dilution Factor: 1 |
| Lab File ID: RDJ219 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 5.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 89 |
| 1,2-DICHLOROBENZENE | ND | 180 | 89 |
| 1,3-DICHLOROBENZENE | ND | 180 | 89 |
| 1,4-DICHLOROBENZENE | ND | 180 | 89 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 89 |
| 2,4-DINITROPHENOL | ND | 350 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 89 |
| 2,6-DINITROTOLUENE | ND | 180 | 89 |
| 2-CHLORONAPHTHALENE | ND | 180 | 89 |
| 2-CHLOROPHENOL | ND | 180 | 89 |
| 2-METHYLNAPHTHALENE | ND | 180 | 89 |
| 2-METHYLPHENOL | ND | 180 | 89 |
| 2-NITROANILINE | ND | 180 | 89 |
| 2-NITROPHENOL | ND | 180 | 89 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 89 |
| 3-NITROANILINE | ND | 180 | 89 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 89 |
| 4-CHLOROANILINE | ND | 180 | 89 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-METHYLPHENOL (1) | ND | 180 | 89 |
| 4-NITROANILINE | ND | 180 | 89 |
| 4-NITROPHENOL | ND | 350 | 180 |
| ACENAPHTHENE | ND | 180 | 89 |
| ACENAPHTHYLENE | ND | 180 | 89 |
| ANTHRACENE | ND | 180 | 89 |
| BENZO(A)ANTHRACENE | ND | 180 | 89 |
| BENZO(A)PYRENE | ND | 180 | 89 |
| BENZO(B)FLUORANTHENE | ND | 180 | 89 |
| BENZO(K)FLUORANTHENE | ND | 180 | 89 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 89 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 89 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 89 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 89 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 89 |
| CHRYSENE | ND | 180 | 89 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 89 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 89 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 89 |
| DIBENZOFURAN | ND | 180 | 89 |
| DIETHYLPHTHALATE | ND | 180 | 89 |
| DIMETHYLPHTHALATE | ND | 180 | 89 |
| FLUORANTHENE | ND | 180 | 89 |
| FLUORENE | ND | 180 | 89 |
| HEXACHLOROBENZENE | ND | 180 | 89 |
| HEXACHLOROBUTADIENE | ND | 180 | 89 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 89 |
| HEXACHLOROETHANE | ND | 180 | 89 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 89 |
| ISOPHORONE | ND | 180 | 89 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 89 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 89 |
| NAPHTHALENE | ND | 180 | 89 |
| NITROBENZENE | ND | 180 | 89 |
| PENTACHLOROPHENOL | ND | 350 | 180 |
| PHENANTHRENE | ND | 180 | 89 |
| PHENOL | ND | 180 | 89 |
| PYRENE | ND | 180 | 89 |
| BENZYL ALCOHOL | ND | 180 | 89 |
| 1-METHYLNAPHTHALENE | ND | 180 | 89 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 89 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 89 |
| ANILINE | ND | 350 | 180 |
| BENZIDINE | ND | 870 | 440 |
| BENZOIC ACID | ND | 700 | 350 |
| CARBAZOLE | ND | 180 | 89 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 89 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 863 | 1054 | 81.9 | 35-130 |
| 2-FLUOROBIPHENYL | 252 | 351.2 | 71.8 | 45-130 |
| 2-FLUOROPHENOL | 630 | 1054 | 59.8 | 25-130 |
| NITROBENZENE-D5 | 227 | 351.2 | 64.7 | 40-130 |
| PHENOL-D5 | 699 | 1054 | 66.3 | 25-120 |
| TERPHENYL-D14 | 297 | 351.2 | 84.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/13/12 |
| Batch No. : 12D048 | Date Extracted: 04/13/12 14:19 |
| Sample ID: MBLK1S | Date Analyzed: 04/16/12 20:45 |
| Lab Samp ID: SVD027SB | Dilution Factor: 1 |
| Lab File ID: RDJ197 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 744 | 1000 | 74.4 | 35-130 |
| 2-FLUOROBIPHENYL | 259 | 333.3 | 77.6 | 45-130 |
| 2-FLUOROPHENOL | 748 | 1000 | 74.8 | 25-130 |
| NITROBENZENE-D5 | 253 | 333.3 | 76.0 | 40-130 |
| PHENOL-D5 | 754 | 1000 | 75.4 | 25-120 |
| TERPHENYL-D14 | 316 | 333.3 | 94.9 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D048
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVD027SB SVD027SL SVD027SC
LAB FILE ID: RDJ197 RDJ198 RDJ199
DATE EXTRACTED: 04/13/1214:19 04/13/1214:19 04/13/1214:19 DATE COLLECTED: NA
DATE ANALYZED: 04/16/1220:45 04/16/1221:05 04/16/1221:25 DATE RECEIVED: 04/13/12
PREP. BATCH: SVD027S SVD027S SVD027S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 417 | 63 | 667 | 421 | 63 | 1 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 418 | 63 | 667 | 415 | 62 | 1 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 412 | 62 | 667 | 412 | 62 | 0 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 404 | 61 | 667 | 404 | 61 | 0 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 467 | 70 | 667 | 478 | 72 | 2 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 506 | 76 | 667 | 502 | 75 | 1 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 482 | 72 | 667 | 458 | 69 | 5 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 494 | 74 | 667 | 477 | 71 | 3 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 428 | 64 | 667 | 460 | 69 | 7 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 572 | 86 | 667 | 611 | 92 | 7 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 523 | 78 | 667 | 544 | 82 | 4 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 470 | 71 | 667 | 458 | 69 | 3 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 469 | 70 | 667 | 459 | 69 | 2 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 543 | 81 | 667 | 540 | 81 | 1 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 435 | 65 | 667 | 427 | 64 | 2 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 567 | 85 | 667 | 611 | 92 | 7 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 466 | 70 | 667 | 461 | 69 | 1 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 518 | 78 | 667 | 494 | 74 | 5 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 460 | 69 | 667 | 499 | 75 | 8 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 508 | 76 | 667 | 494 | 74 | 3 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 509 | 76 | 667 | 510 | 76 | 0 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 485 | 73 | 667 | 506 | 76 | 4 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 409 | 61 | 667 | 380 | 57 | 7 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 550 | 82 | 667 | 555 | 83 | 1 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 460 | 69 | 667 | 442 | 66 | 4 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 538 | 81 | 667 | 553 | 83 | 3 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 620 | 93 | 667 | 657 | 98 | 6 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 518 | 78 | 667 | 514 | 77 | 1 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 560 | 84 | 667 | 556 | 83 | 1 | 30-130 | 50 |
| Anthracene | ND | 667 | 548 | 82 | 667 | 552 | 83 | 1 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 600 | 90 | 667 | 603 | 90 | 0 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 581 | 87 | 667 | 581 | 87 | 0 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 619 | 93 | 667 | 616 | 92 | 0 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 629 | 94 | 667 | 629 | 94 | 0 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 625 | 94 | 667 | 638 | 96 | 2 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 344 | 52 | 667 | 330 | 50 | 4 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 549 | 82 | 667 | 530 | 79 | 4 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 621 | 93 | 667 | 607 | 91 | 2 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 622 | 93 | 667 | 615 | 92 | 1 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 640 | 96 | 667 | 637 | 96 | 0 | 40-150 | 50 |
| Chrysene | ND | 667 | 602 | 90 | 667 | 609 | 91 | 1 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 605 | 91 | 667 | 602 | 90 | 0 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 637 | 96 | 667 | 631 | 95 | 1 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 640 | 96 | 667 | 638 | 96 | 0 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 503 | 75 | 667 | 510 | 76 | 1 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 562 | 84 | 667 | 599 | 90 | 6 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 529 | 79 | 667 | 557 | 84 | 5 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 638 | 96 | 667 | 631 | 95 | 1 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 558 | 84 | 667 | 583 | 87 | 4 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 520 | 78 | 667 | 543 | 81 | 4 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 463 | 69 | 667 | 454 | 68 | 2 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 313 | 47 | 667 | 323 | 48 | 3 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 441 | 66 | 667 | 436 | 65 | 1 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 638 | 96 | 667 | 642 | 96 | 1 | 30-140 | 50 |
| Isophorone | ND | 667 | 554 | 83 | 667 | 533 | 80 | 4 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 447 | 67 | 667 | 438 | 66 | 2 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 411 | 62 | 667 | 415 | 62 | 1 | 30-140 | 50 |
| Naphthalene | ND | 667 | 520 | 78 | 667 | 512 | 77 | 2 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 529 | 79 | 667 | 531 | 80 | 0 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 529 | 79 | 667 | 532 | 80 | 1 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 569 | 85 | 667 | 588 | 88 | 3 | 30-130 | 50 |
| Phenol | ND | 667 | 498 | 75 | 667 | 468 | 70 | 6 | 30-130 | 50 |
| Pyrene | ND | 667 | 598 | 90 | 667 | 602 | 90 | 1 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 484 | 73 | 667 | 462 | 69 | 5 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 547 | 82 | 667 | 529 | 79 | 3 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 517 | 77 | 667 | 515 | 77 | 0 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 431 | 65 | 667 | 411 | 62 | 5 | 20-150 | 50 |
| Aniline | ND | 667 | 360 | 54 | 667 | 347 | 52 | 4 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1310 | 49 | 2670 | 1190 | 45 | 10 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 1220 | 46 | 2670 | 1360 | 51 | 11 | 10-130 | 50 |
| Carbazole | ND | 667 | 556 | 83 | 667 | 554 | 83 | 0 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 565 | 85 | 667 | 567 | 85 | 0 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 735 | 74 | 1000 | 723 | 72 | 35-130 |
| 2-Fluorobiphenyl | 333 | 233 | 70 | 333 | 225 | 67 | 45-130 |
| 2-Fluorophenol | 1000 | 662 | 66 | 1000 | 613 | 61 | 25-130 |
| Nitrobenzene-d5 | 333 | 228 | 68 | 333 | 214 | 64 | 40-130 |
| Phenol-d5 | 1000 | 668 | 67 | 1000 | 638 | 64 | 25-120 |
| Terphenyl-d14 | 333 | 285 | 85 | 333 | 271 | 81 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D048 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-149-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 03:13 |
| Lab Samp ID: D048-01 | Dilution Factor: 1 |
| Lab File ID: RDJ216 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 8.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | 0.98J | 1.9 | 0.93 |
| ACENAPHTHYLENE | 1.1J | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)PYRENE | ND | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.93 |
| CHRYSENE | ND | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | ND | 1.9 | 0.93 |
| FLUORENE | 0.99J | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.93 |
| NAPHTHALENE | 1.3J | 1.9 | 0.93 |
| PHENANTHRENE | ND | 1.9 | 0.93 |
| PYRENE | ND | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | 1.2J | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | 1.2J | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 22 | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | 2.5 | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 258 | 365.5 | 70.7 | 40-130 |
| 2-FLUOROBIPHENYL | 237 | 365.5 | 64.9 | 45-130 |
| TERPHENYL-D14 | 311 | 365.5 | 85.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D048 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-165-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 03:34 |
| Lab Samp ID: D048-02 | Dilution Factor: 1 |
| Lab File ID: RDJ217 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 9.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.94 |
| ACENAPHTHYLENE | ND | 1.9 | 0.94 |
| ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)PYRENE | ND | 1.9 | 0.94 |
| BENZO(B)FLUORANTHENE | 1.3J | 1.9 | 0.94 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(G,H,I)PERYLENE | 1.1J | 1.9 | 0.94 |
| CHRYSENE | 1.1J | 1.9 | 0.94 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.94 |
| FLUORANTHENE | 1.7J | 1.9 | 0.94 |
| FLUORENE | ND | 1.9 | 0.94 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.94 |
| NAPHTHALENE | ND | 1.9 | 0.94 |
| PHENANTHRENE | 1.1J | 1.9 | 0.94 |
| PYRENE | 1.6J | 1.9 | 0.94 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 16J | 18 | 9.3 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.3 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.3 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.3 |
| DIETHYLPHTHALATE | ND | 18 | 9.3 |
| DIMETHYLPHTHALATE | ND | 18 | 9.3 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.94 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 226 | 369.1 | 61.2 | 40-130 |
| 2-FLUOROBIPHENYL | 199 | 369.1 | 53.9 | 45-130 |
| TERPHENYL-D14 | 230 | 369.1 | 62.4 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D048 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-175-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 03:54 |
| Lab Samp ID: D048-03 | Dilution Factor: 1 |
| Lab File ID: RDJ218 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 14.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 1.0 |
| ACENAPHTHYLENE | ND | 2.0 | 1.0 |
| ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)PYRENE | 5.1 | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | 2.9 | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | 1.1J | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 1.0 |
| CHRYSENE | 1.1J | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 1.0 |
| FLUORANTHENE | 1.4J | 2.0 | 1.0 |
| FLUORENE | ND | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | 1.6J | 2.0 | 1.0 |
| NAPHTHALENE | ND | 2.0 | 1.0 |
| PHENANTHRENE | ND | 2.0 | 1.0 |
| PYRENE | 1.4J | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 25 | 20 | 9.8 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 9.8 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 9.8 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 9.8 |
| DIETHYLPHTHALATE | ND | 20 | 9.8 |
| DIMETHYLPHTHALATE | ND | 20 | 9.8 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 283 | 390.7 | 72.4 | 40-130 |
| 2-FLUOROBIPHENYL | 259 | 390.7 | 66.2 | 45-130 |
| TERPHENYL-D14 | 337 | 390.7 | 86.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D048 | Date Extracted: 04/13/12 14:19 |
| Sample ID: SL-190-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 04:15 |
| Lab Samp ID: D048-04 | Dilution Factor: 1 |
| Lab File ID: RDJ219 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : 5.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.90 |
| ACENAPHTHYLENE | ND | 1.8 | 0.90 |
| ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)PYRENE | ND | 1.8 | 0.90 |
| BENZO(B)FLUORANTHENE | 1.1J | 1.8 | 0.90 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.90 |
| CHRYSENE | ND | 1.8 | 0.90 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.90 |
| FLUORANTHENE | 0.93J | 1.8 | 0.90 |
| FLUORENE | ND | 1.8 | 0.90 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.90 |
| NAPHTHALENE | ND | 1.8 | 0.90 |
| PHENANTHRENE | ND | 1.8 | 0.90 |
| PYRENE | ND | 1.8 | 0.90 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 24 | 18 | 8.9 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 8.9 |
| DIETHYLPHTHALATE | ND | 18 | 8.9 |
| DIMETHYLPHTHALATE | ND | 18 | 8.9 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.90 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 256 | 351.2 | 73.0 | 40-130 |
| 2-FLUOROBIPHENYL | 239 | 351.2 | 68.0 | 45-130 |
| TERPHENYL-D14 | 289 | 351.2 | 82.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/13/12 |
| Batch No. : 12D048 | Date Extracted: 04/13/12 14:19 |
| Sample ID: MBLK1S | Date Analyzed: 04/16/12 20:45 |
| Lab Samp ID: SVD027SB | Dilution Factor: 1 |
| Lab File ID: RDJ197 | Matrix : SOIL |
| Ext Btch ID: SVD027S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 285 | 333.3 | 85.6 | 40-130 |
| 2-FLUOROBIPHENYL | 241 | 333.3 | 72.2 | 45-130 |
| TERPHENYL-D14 | 325 | 333.3 | 97.4 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D048
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVD027SB | SVD027SX | SVD027SY | | |
| LAB FILE ID: | RDJ197 | RDJ200 | RDJ201 | | |
| DATE EXTRACTED: | 04/13/1214:19 | 04/13/1214:19 | 04/13/1214:19 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/16/1220:45 | 04/16/1221:46 | 04/16/1222:06 | DATE RECEIVED: | 04/13/12 |
| PREP. BATCH: | SVD027S | SVD027S | SVD027S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 267 | 80 | 333 | 247 | 74 | 8 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 305 | 92 | 333 | 280 | 84 | 9 | 20-130 | 50 |
| Anthracene | ND | 333 | 282 | 85 | 333 | 255 | 77 | 10 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 349 | 105 | 333 | 298 | 89 | 16 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 334 | 100 | 333 | 281 | 84 | 17 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 351 | 105 | 333 | 310 | 93 | 12 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 353 | 106 | 333 | 306 | 92 | 14 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 364 | 109 | 333 | 319 | 96 | 13 | 30-140 | 50 |
| Chrysene | ND | 333 | 331 | 99 | 333 | 283 | 85 | 16 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 370 | 111 | 333 | 325 | 97 | 13 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 348 | 105 | 333 | 302 | 91 | 14 | 30-130 | 50 |
| Fluorene | ND | 333 | 295 | 88 | 333 | 261 | 78 | 12 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 375 | 112 | 333 | 327 | 98 | 14 | 20-160 | 50 |
| Naphthalene | ND | 333 | 261 | 78 | 333 | 242 | 73 | 7 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 283 | 85 | 333 | 260 | 78 | 8 | 20-130 | 50 |
| Pyrene | ND | 333 | 333 | 100 | 333 | 289 | 87 | 14 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 284 | 85 | 333 | 267 | 80 | 6 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 283 | 85 | 333 | 267 | 80 | 6 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 351 | 105 | 333 | 302 | 91 | 15 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 338 | 101 | 333 | 284 | 85 | 17 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 319 | 96 | 333 | 278 | 83 | 14 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 315 | 95 | 333 | 271 | 81 | 15 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 314 | 94 | 333 | 271 | 81 | 15 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 286 | 86 | 333 | 249 | 75 | 14 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 286 | 86 | 333 | 266 | 80 | 7 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 262 | 79 | 333 | 261 | 78 | 40-130 |
| 2-Fluorobiphenyl | 333 | 218 | 65 | 333 | 221 | 66 | 45-130 |
| Terphenyl-d14 | 333 | 309 | 93 | 333 | 285 | 86 | 45-135 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D048 | Date Extracted: 04/12/12 15:04 |
| Sample ID: SL-149-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 17:27 |
| Lab Samp ID: D048-01 | Dilution Factor: 1 |
| Lab File ID: LD26023A | Matrix : SOIL |
| Ext Btch ID: CPD030S | % Moisture : 8.8 |
| Calib. Ref.: LD26004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| HEPTACHLOR | 0.76 \| (ND) | 0.19 | 0.093 \| 0.093 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| ALDRIN | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| HEPTACHLOR EPOXIDE | 0.20 \| (ND) | 0.19 | 0.093 \| 0.093 |
| ENDOSULFAN I | (ND) \| 0.10J | 0.19 | 0.093 \| 0.093 |
| 4,4'-DDE | 0.45 \| (ND) | 0.37 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN II | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDT | 0.36J \| (0.38) | 0.37 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| MIREX | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.2 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.648 \| (6.423) | 5.848 | 79.5 \| (110) | 50-130 |
| DECACHLOROBIPHENYL | 4.679 \| (4.976) | 5.848 | 80.0 \| (85.1) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D048 | Date Extracted: 04/12/12 15:04 |
| Sample ID: SL-165-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 17:48 |
| Lab Samp ID: D048-02 | Dilution Factor: 1 |
| Lab File ID: LD26024A | Matrix : SOIL |
| Ext Btch ID: CPD030S | % Moisture : 9.7 |
| Calib. Ref.: LD26004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.10J | 0.19 | 0.094\|0.094 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.19 | 0.094\|0.094 |
| BETA-BHC | (ND)\|ND | 0.19 | 0.094\|0.094 |
| HEPTACHLOR | 0.47\|(ND) | 0.19 | 0.094\|0.094 |
| DELTA-BHC | (ND)\|ND | 0.19 | 0.094\|0.094 |
| ALDRIN | (ND)\|ND | 0.19 | 0.094\|0.094 |
| HEPTACHLOR EPOXIDE | 0.24\|(ND) | 0.19 | 0.094\|0.094 |
| ENDOSULFAN I | (ND)\|ND | 0.19 | 0.094\|0.094 |
| 4,4'-DDE | 0.55\|(ND) | 0.38 | 0.19\|0.19 |
| DIELDRIN | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.38 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDOSULFAN II | (ND)\|ND | 0.38 | 0.19\|0.19 |
| 4,4'-DDT | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| METHOXYCHLOR | (ND)\|0.97J | 1.9 | 0.94\|0.94 |
| MIREX | (ND)\|ND | 0.38 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.3 | 3.7\|3.7 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.712\|(6.122) | 5.906 | 79.8\|(104) | 50-130 |
| DECACHLOROBIPHENYL | 4.340\|(4.898) | 5.906 | 73.5\|(82.9) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D048 | Date Extracted: 04/12/12 15:04 |
| Sample ID: SL-175-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 21:22 |
| Lab Samp ID: D048-03 | Dilution Factor: 1 |
| Lab File ID: LD26034A | Matrix : SOIL |
| Ext Btch ID: CPD030S | % Moisture : 14.7 |
| Calib. Ref.: LD26030A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.19J | 0.20 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR | (ND) \| 0.45 | 0.20 | 0.10 \| 0.10 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| ALDRIN | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | 0.20J \| (ND) | 0.20 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| 0.10J | 0.20 | 0.10 \| 0.10 |
| 4,4'-DDE | (1.1) \| 0.86 | 0.40 | 0.20 \| 0.20 |
| DIELDRIN | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDRIN | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDD | 0.27J \| (ND) | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN II | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDT | 0.78 \| (1.2) | 0.40 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| ND | 2.0 | 1.0 \| 1.0 |
| MIREX | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.7 | 3.9 \| 3.9 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.0 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 6.161 \| (7.602) | 6.252 | 98.5 \| (122) | 50-130 |
| DECACHLOROBIPHENYL | 5.790 \| (5.924) | 6.252 | 92.6 \| (94.8) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D048 | Date Extracted: 04/12/12 15:04 |
| Sample ID: SL-190-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 18:10 |
| Lab Samp ID: D048-04 | Dilution Factor: 1 |
| Lab File ID: LD26025A | Matrix : SOIL |
| Ext Btch ID: CPD030S | % Moisture : 5.1 |
| Calib. Ref.: LD26004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.41 | 0.18 | 0.090 \| 0.090 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.18 | 0.090 \| 0.090 |
| BETA-BHC | (ND) \| ND | 0.18 | 0.090 \| 0.090 |
| HEPTACHLOR | 0.52 \| (ND) | 0.18 | 0.090 \| 0.090 |
| DELTA-BHC | (ND) \| ND | 0.18 | 0.090 \| 0.090 |
| ALDRIN | (ND) \| ND | 0.18 | 0.090 \| 0.090 |
| HEPTACHLOR EPOXIDE | 0.31 \| (ND) | 0.18 | 0.090 \| 0.090 |
| ENDOSULFAN I | (ND) \| ND | 0.18 | 0.090 \| 0.090 |
| 4,4'-DDE | (0.43) \| 0.27J | 0.36 | 0.18 \| 0.18 |
| DIELDRIN | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| ENDRIN | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| 4,4'-DDD | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| ENDOSULFAN II | (ND) \| 0.35J | 0.36 | 0.18 \| 0.18 |
| 4,4'-DDT | (0.38) \| 0.36J | 0.36 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | 0.38 \| (ND) | 0.36 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| ENDRIN KETONE | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| METHOXYCHLOR | 1.1J \| (ND) | 1.8 | 0.90 \| 0.90 |
| MIREX | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 7.0 | 3.5 \| 3.5 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.6 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.329 \| (5.983) | 5.620 | 77.0 \| (106) | 50-130 |
| DECACHLOROBIPHENYL | 4.368 \| (4.670) | 5.620 | 77.7 \| (83.1) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D048 | Date Extracted: 04/12/12 15:04 |
| Sample ID: MBLK1S | Date Analyzed: 04/26/12 12:07 |
| Lab Samp ID: CPD030SB | Dilution Factor: 1 |
| Lab File ID: LD26008A | Matrix : SOIL |
| Ext Btch ID: CPD030S | % Moisture : NA |
| Calib. Ref.: LD26004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| BETA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| HEPTACHLOR | 0.14J \| (ND) | 0.17 | 0.085 \| 0.085 |
| DELTA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| ALDRIN | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| ENDOSULFAN I | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| 4,4'-DDE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| DIELDRIN | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| 4,4'-DDD | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDOSULFAN II | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| 4,4'-DDT | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN KETONE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| METHOXYCHLOR | (ND) \| ND | 1.7 | 0.85 \| 0.85 |
| MIREX | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| TOXAPHENE | (ND) \| ND | 6.6 | 3.3 \| 3.3 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.4 | 1.7 \| 1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.766 \| (4.832) | 5.333 | 89.4 \| (90.6) | 50-130 |
| DECACHLOROBIPHENYL | (5.077) \| 5.029 | 5.333 | (95.2) \| 94.3 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D048
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPD030SB CPD030SL CPD030SC
LAB FILE ID: LD26008A LD26009A LD26010A
DATE EXTRACTED: 04/12/1215:04 04/12/1215:04 04/12/1215:04 DATE COLLECTED: NA
DATE ANALYZED: 04/26/1212:07 04/26/1212:29 04/26/1212:50 DATE RECEIVED: 04/12/12
PREP. BATCH: CPD030S CPD030S CPD030S
CALIB. REF: LD26004A LD26004A LD26004A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND) \| ND | 2.67 | 2.29 \| (2.35) | 86 \| (88) | 2.67 | 2.29 \| (2.35) | 86 \| (88) | 0 \| (0) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND) \| ND | 2.67 | 2.23 \| (2.36) | 84 \| (88) | 2.67 | 2.22 \| (2.32) | 83 \| (87) | 0 \| (2) | 40-130 | 50 |
| beta-BHC | (ND) \| ND | 2.67 | (2.63) \| 2.34 | (99) \| 88 | 2.67 | (2.63) \| 2.10 | (99) \| 79 | (0) \| 11 | 50-140 | 50 |
| Heptachlor | 0.14J \| (ND) | 2.67 | (2.44) \| 2.39 | (91) \| 90 | 2.67 | (2.43) \| 2.36 | (91) \| 88 | (0) \| 1 | 30-130 | 50 |
| delta-BHC | (ND) \| ND | 2.67 | 2.51 \| (2.65) | 94 \| (99) | 2.67 | 2.52 \| (2.56) | 94 \| (96) | 0 \| (3) | 30-150 | 50 |
| Aldrin | (ND) \| ND | 2.67 | 2.15 \| (2.25) | 81 \| (84) | 2.67 | 2.11 \| (2.17) | 79 \| (81) | 2 \| (4) | 30-130 | 50 |
| Heptachlor Epoxide | (ND) \| ND | 2.67 | 2.27 \| (2.34) | 85 \| (88) | 2.67 | (2.28) \| 2.22 | (85) \| 83 | (0) \| 5 | 60-140 | 50 |
| Endosulfan I | (ND) \| ND | 2.67 | 1.92 \| (2.25) | 72 \| (84) | 2.67 | 1.91 \| (2.19) | 72 \| (82) | 1 \| (3) | 50-150 | 50 |
| 4,4'-DDE | (ND) \| ND | 2.67 | (2.49) \| 2.38 | (93) \| 89 | 2.67 | (2.48) \| 2.38 | (93) \| 89 | (0) \| 0 | 50-150 | 50 |
| Dieldrin | (ND) \| ND | 2.67 | (2.49) \| 2.22 | (93) \| 83 | 2.67 | (2.52) \| 2.22 | (94) \| 83 | (1) \| 0 | 60-130 | 50 |
| Endrin | (ND) \| ND | 2.67 | (2.37) \| 2.26 | (89) \| 85 | 2.67 | (2.45) \| 2.26 | (92) \| 85 | (3) \| 0 | 50-140 | 50 |
| 4,4'-DDD | (ND) \| ND | 2.67 | (2.40) \| 2.25 | (90) \| 84 | 2.67 | (2.49) \| 2.26 | (93) \| 85 | (4) \| 0 | 50-160 | 50 |
| Endosulfan II | (ND) \| ND | 2.67 | (2.44) \| 2.38 | (91) \| 89 | 2.67 | (2.51) \| 2.42 | (94) \| 91 | (3) \| 2 | 60-150 | 50 |
| 4,4'-DDT | (ND) \| ND | 2.67 | (2.89) \| 2.48 | (108) \| 93 | 2.67 | (2.92) \| 2.49 | (109) \| 93 | (1) \| 0 | 60-140 | 50 |
| Endrin aldehyde | (ND) \| ND | 2.67 | (2.40) \| 2.29 | (90) \| 86 | 2.67 | (2.37) \| 2.25 | (89) \| 84 | (1) \| 2 | 50-160 | 50 |
| Endosulfan Sulfate | (ND) \| ND | 2.67 | (2.61) \| 2.55 | (98) \| 96 | 2.67 | (2.62) \| 2.55 | (98) \| 96 | (0) \| 0 | 70-140 | 50 |
| Endrin Ketone | (ND) \| ND | 2.67 | (2.52) \| 2.48 | (94) \| 93 | 2.67 | (2.54) \| 2.45 | (95) \| 92 | (1) \| 1 | 70-160 | 50 |
| Methoxychlor | (ND) \| ND | 26.7 | 24.9 \| (25.1) | 93 \| (94) | 26.7 | 25.3 \| (25.4) | 95 \| (95) | 2 \| (1) | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 4.508 \| (4.568) | 84.5 \| (85.7) | 5.333 | 4.523 \| (4.613) | 84.8 \| (86.5) | 50-130 |
| Decachlorobiphenyl | 5.333 | (4.887) \| 4.823 | (91.6) \| 90.4 | 5.333 | 4.891 \| (4.905) | 91.7 \| (92.0) | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D048 | Date Extracted: 04/12/12 11:03 |
| Sample ID: SL-149-NBZ-SS-0.0-0.5 | Date Analyzed: 04/16/12 23:37 |
| Lab Samp ID: D048-01 | Dilution Factor: 1 |
| Lab File ID: KD12116A | Matrix : SOIL |
| Ext Btch ID: CPD029S | % Moisture : 8.8 |
| Calib. Ref.: KD12107A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.073\|(5.086) | 5.848 | 121*\|(87.0) | 45-120 |
| TETRACHLORO-M-XYLENE | (8.182)\|5.243 | 5.848 | (140)\|89.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D048 | Date Extracted: 04/12/12 11:03 |
| Sample ID: SL-165-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 00:31 |
| Lab Samp ID: D048-02 | Dilution Factor: 1 |
| Lab File ID: KD12117A | Matrix : SOIL |
| Ext Btch ID: CPD029S | % Moisture : 9.7 |
| Calib. Ref.: KD12107A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.653\|(5.424) | 5.906 | 130*\|(91.8) | 45-120 |
| TETRACHLORO-M-XYLENE | 9.852\|(5.945) | 5.906 | 167*\|(101) | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D048 | Date Extracted: 04/12/12 11:03 |
| Sample ID: SL-175-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 01:25 |
| Lab Samp ID: D048-03 | Dilution Factor: 1 |
| Lab File ID: KD12118A | Matrix : SOIL |
| Ext Btch ID: CPD029S | % Moisture : 14.7 |
| Calib. Ref.: KD12107A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.351)\|5.367 | 6.252 | (118)\|85.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (8.537)\|6.106 | 6.252 | (137)\|97.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D048 | Date Extracted: 04/12/12 11:03 |
| Sample ID: SL-190-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 02:20 |
| Lab Samp ID: D048-04 | Dilution Factor: 1 |
| Lab File ID: KD12119A | Matrix : SOIL |
| Ext Btch ID: CPD029S | % Moisture : 5.1 |
| Calib. Ref.: KD12107A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.164\|(5.123) | 5.620 | 127*\|(91.2) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.974)\|5.265 | 5.620 | (142)\|93.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client : CDM | | Date Collected: NA | |
| Project : SSFL AREA IV COLLOCATED SAMPLING | | Date Received: 04/12/12 | |
| Batch No. : 12D048 | | Date Extracted: 04/12/12 11:03 | |
| Sample ID: MBLK1S | | Date Analyzed: 04/16/12 07:02 | |
| Lab Samp ID: 60D029SB | | Dilution Factor: 1 | |
| Lab File ID: KD12096A | | Matrix : SOIL | |
| Ext Btch ID: CPD029S | | % Moisture : NA | |
| Calib. Ref.: KD12092A | | Instrument ID : GCT071 | |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 6.525\|(4.772) | 5.333 | 122*\|(89.5) | 45-120 |
| TETRACHLORO-M-XYLENE | (6.364)\|5.502 | 5.333 | (119)\|103 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D048
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60D029SB | 60D029SL | 60D029SC | | |
| LAB FILE ID: | KD12096A | KD12097A | KD12098A | | |
| DATE EXTRACTED: | 04/12/1211:03 | 04/12/1211:03 | 04/12/1211:03 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/16/1207:02 | 04/16/1207:56 | 04/16/1208:50 | DATE RECEIVED: | 04/12/12 |
| PREP. BATCH: | CPD029S | CPD029S | CPD029S | | |
| CALIB. REF: | KD12092A | KD12092A | KD12092A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (65.9)\|57.2 | (99)\|86 | 66.7 | (65.9)\|56.8 | (99)\|85 | (0)\|1 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (77.6)\|60.5 | (116)\|91 | 66.7 | (77.2)\|60.0 | (116)\|90 | (1)\|1 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | (66.0)\|64.3 | (99)\|96 | 66.7 | (67.2)\|65.9 | (101)\|99 | (2)\|2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | 6.527\|(4.776) | 122*\|(89.6) | 5.333 | 6.541\|(4.788) | 123*\|(89.8) | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (6.401)\|5.463 | (120)\|102 | 5.333 | (6.628)\|5.625 | (124)\|105 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D048 | Date Extracted: 04/18/12 17:58 |
| Sample ID: SL-149-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 15:51 |
| Lab Samp ID: D048-01 | Dilution Factor: 1 |
| Lab File ID: WD19006A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : 8.8 |
| Calib. Ref.: WD19002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| 2,4,5-T | 1.1\|(ND) | 0.19 | 0.093\|0.093 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.093\|0.093 |
| DALAPON | (ND)\|ND | 9.9 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.66\|0.66 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|2.8 | 1.9 | 0.93\|0.93 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (186.5)\|157.3 | 164.5 | (113)\|95.7 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D048 | Date Extracted: 04/18/12 17:58 |
| Sample ID: SL-165-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 16:11 |
| Lab Samp ID: D048-02 | Dilution Factor: 1 |
| Lab File ID: WD19007A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : 9.7 |
| Calib. Ref.: WD19002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.94\|0.94 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.094\|0.094 |
| 2,4,5-TP(SILVEX) | (ND)\|7.3 | 0.19 | 0.094\|0.094 |
| DALAPON | (ND)\|ND | 10 | 5.0\|5.0 |
| DICAMBA | (ND)\|ND | 1.3 | 0.66\|0.66 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.94\|0.94 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (194.0)\|137.4 | 166.1 | (117)\|82.7 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D048 | Date Extracted: 04/18/12 17:58 |
| Sample ID: SL-175-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 16:32 |
| Lab Samp ID: D048-03 | Dilution Factor: 1 |
| Lab File ID: WD19008A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : 14.7 |
| Calib. Ref.: WD19002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | (ND)\|350 | 2.0 | 1.0\|1.0 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | 28\|(ND) | 0.20 | 0.10\|0.10 |
| DALAPON | (ND)\|11 | 11 | 5.3\|5.3 |
| DICAMBA | (ND)\|ND | 1.4 | 0.70\|0.70 |
| DICHLOROPROP | (ND)\|38 | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| MCPA | (ND)\|8300 | 290 | 150\|150 |
| MCPP | (ND)\|ND | 290 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (205.5)\|167.4 | 175.8 | (117)\|95.2 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| Batch No. : 12D048 | Date Extracted: 04/18/12 17:58 |
| Sample ID: SL-190-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 16:52 |
| Lab Samp ID: D048-04 | Dilution Factor: 1 |
| Lab File ID: WD19009A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : 5.1 |
| Calib. Ref.: WD19002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.8 | 1.9\|1.9 |
| 2,4-DB | (ND)\|ND | 1.8 | 0.90\|0.90 |
| 2,4,5-T | 1.4\|(ND) | 0.18 | 0.090\|0.090 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.18 | 0.090\|0.090 |
| DALAPON | (ND)\|ND | 9.5 | 4.7\|4.7 |
| DICAMBA | (ND)\|ND | 1.3 | 0.63\|0.63 |
| DICHLOROPROP | (ND)\|ND | 2.5 | 1.3\|1.3 |
| DINOSEB | (ND)\|3.3 | 1.8 | 0.90\|0.90 |
| MCPA | (ND)\|ND | 260 | 130\|130 |
| MCPP | (ND)\|ND | 260 | 130\|130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (190.1)\|137.1 | 158.1 | (120)\|86.7 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D048 | Date Extracted: 04/18/12 17:58 |
| Sample ID: MBLK1S | Date Analyzed: 04/19/12 14:50 |
| Lab Samp ID: HED009SB | Dilution Factor: 1 |
| Lab File ID: WD19003A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : NA |
| Calib. Ref.: WD19002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (189.4)\|141.9 | 150.0 | (126)\|94.6 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D048
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HED009SB | HED009SL | HED009SC | | |
| LAB FILE ID: | WD19003A | WD19004A | WD19005A | | |
| DATE EXTRACTED: | 04/18/1217:58 | 04/18/1217:58 | 04/18/1217:58 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/19/1214:50 | 04/19/1215:11 | 04/19/1215:31 | DATE RECEIVED: | 04/18/12 |
| PREP. BATCH: | HED009S | HED009S | HED009S | | |
| CALIB. REF: | WD19002A | WD19002A | WD19002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | (14.7)\|12.8 | (98)\|85 | 15.0 | (16.4)\|14.2 | (109)\|95 | (11)\|10 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 13.0\|(15.7) | 87\|(105) | 15.0 | 13.2\|(14.0) | 88\|(93) | 2\|(11) | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | (13.9)\|13.7 | (93)\|91 | 15.0 | (15.7)\|14.4 | (105)\|96 | (12)\|5 | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 15.0 | 13.4\|(13.7) | 89\|(91) | 15.0 | (15.1)\|14.3 | (101)\|95 | (12)\|4 | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | 6.63J\|(8.87J) | 44\|(59) | 15.0 | 6.74J\|(9.71) | 45\|(65) | 2\|(9) | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (14.0)\|11.8 | (93)\|79 | 15.0 | (15.4)\|13.4 | (103)\|89 | (10)\|13 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | (15.6)\|14.1 | (104)\|94 | 15.0 | (16.3)\|15.4 | (109)\|103 | (4)\|9 | 60-160 | 50 |
| Dinoseb | (ND)\|ND | 15.0 | (9.06)\|8.00 | (60)\|53 | 15.0 | (10.1)\|7.65 | (67)\|51 | (11)\|4 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (709)\|562 | (95)\|75 | 750 | (745)\|624 | (99)\|83 | (5)\|10 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | (634)\|476 | (85)\|63 | 750 | (674)\|590 | (90)\|79 | (6)\|21 | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 (157.4)\|120.6 | (105)\|80.4 | 150.0 | (172.7)\|134.0 | (115)\|89.4 | 10-150 | |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/05/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/05/12 |
| SDG NO. : 12D048 | Date Extracted: 04/12/12 10:15 |
| Sample ID: SL-149-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 19:48 |
| Lab Samp ID: D048-01 | Dilution Factor: 0.971 |
| Lab File ID: 98D18045 | Matrix : SOIL |
| Ext Btch ID: IMD019S | % Moisture : 8.8 |
| Calib. Ref.: 98D18041 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11500 | 25.6 | 12.8 |
| Antimony | 0.138J | 0.213 | 0.106 |
| Arsenic | 3.14 | 0.426 | 0.213 |
| Barium | 68.5 | 0.426 | 0.213 |
| Beryllium | 0.433 | 0.106 | 0.0532 |
| Boron | ND | 5.32 | 2.66 |
| Cadmium | 0.180 | 0.106 | 0.0532 |
| Calcium | 1820 | 21.3 | 10.6 |
| Chromium | 11.3 | 0.426 | 0.213 |
| Cobalt | 4.38 | 0.106 | 0.0532 |
| Copper | 5.11 | 0.426 | 0.213 |
| Iron | 15900 | 21.3 | 10.6 |
| Lead | 7.16 | 0.213 | 0.106 |
| Magnesium | 3740 | 10.6 | 5.32 |
| Manganese | 262 | 0.532 | 0.266 |
| Molybdenum | 0.466 | 0.106 | 0.0532 |
| Nickel | 7.51 | 0.426 | 0.213 |
| Potassium | 2590 | 63.9 | 31.9 |
| Selenium | ND | 0.426 | 0.213 |
| Silver | ND | 0.106 | 0.0532 |
| Sodium | ND | 106 | 53.2 |
| Strontium | 14.1 | 0.532 | 0.266 |
| Thallium | 0.200 | 0.106 | 0.0532 |
| Tin | ND | 10.6 | 5.32 |
| Titanium | 778 | 1.06 | 0.532 |
| Vanadium | 23.9 | 0.106 | 0.0532 |
| Zinc | 47.8 | 3.19 | 1.60 |
| Lithium | 25.8 | 2.13 | 1.06 |
| Phosphorus | 306 | 12.8 | 6.39 |
| Zirconium | ND | 5.32 | 2.66 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/05/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/05/12 |
| SDG NO. | : 12D048 | Date Extracted | : 04/12/12 10:15 |
| Sample ID | : SL-165-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/26/12 19:53 |
| Lab Samp ID | : D048-02 | Dilution Factor | : 0.957 |
| Lab File ID | : 98D18046 | Matrix | : SOIL |
| Ext Btch ID | : IMD019S | % Moisture | : 9.7 |
| Calib. Ref. | : 98D18041 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11200 | 25.4 | 12.7 |
| Antimony | 0.126J | 0.212 | 0.106 |
| Arsenic | 4.02 | 0.424 | 0.212 |
| Barium | 79.6 | 0.424 | 0.212 |
| Beryllium | 0.418 | 0.106 | 0.0530 |
| Boron | ND | 5.30 | 2.65 |
| Cadmium | 0.175 | 0.106 | 0.0530 |
| Calcium | 2180 | 21.2 | 10.6 |
| Chromium | 10.2 | 0.424 | 0.212 |
| Cobalt | 4.22 | 0.106 | 0.0530 |
| Copper | 4.59 | 0.424 | 0.212 |
| Iron | 16400 | 21.2 | 10.6 |
| Lead | 6.58 | 0.212 | 0.106 |
| Magnesium | 3820 | 10.6 | 5.30 |
| Manganese | 301 | 0.530 | 0.265 |
| Molybdenum | 0.398 | 0.106 | 0.0530 |
| Nickel | 6.70 | 0.424 | 0.212 |
| Potassium | 3390 | 63.6 | 31.8 |
| Selenium | ND | 0.424 | 0.212 |
| Silver | ND | 0.106 | 0.0530 |
| Sodium | ND | 106 | 53.0 |
| Strontium | 12.5 | 0.530 | 0.265 |
| Thallium | 0.222 | 0.106 | 0.0530 |
| Tin | ND | 10.6 | 5.30 |
| Titanium | 843 | 1.06 | 0.530 |
| Vanadium | 24.1 | 0.106 | 0.0530 |
| Zinc | 46.8 | 3.18 | 1.59 |
| Lithium | 24.8 | 2.12 | 1.06 |
| Phosphorus | 321 | 12.7 | 6.36 |
| Zirconium | ND | 5.30 | 2.65 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/05/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/05/12 |
| SDG NO. | : 12D048 | Date Extracted | : 04/12/12 10:15 |
| Sample ID | : SL-175-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/26/12 19:57 |
| Lab Samp ID | : D048-03 | Dilution Factor | : 0.980 |
| Lab File ID | : 98D18047 | Matrix | : SOIL |
| Ext Btch ID | : IMD019S | % Moisture | : 14.7 |
| Calib. Ref. | : 98D18041 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12200 | 27.6 | 13.8 |
| Antimony | 0.156J | 0.230 | 0.115 |
| Arsenic | 3.97 | 0.460 | 0.230 |
| Barium | 72.3 | 0.460 | 0.230 |
| Beryllium | 0.516 | 0.115 | 0.0574 |
| Boron | ND | 5.74 | 2.87 |
| Cadmium | 0.210 | 0.115 | 0.0574 |
| Calcium | 2190 | 23.0 | 11.5 |
| Chromium | 12.5 | 0.460 | 0.230 |
| Cobalt | 5.48 | 0.115 | 0.0574 |
| Copper | 6.65 | 0.460 | 0.230 |
| Iron | 20200 | 23.0 | 11.5 |
| Lead | 12.4 | 0.230 | 0.115 |
| Magnesium | 5010 | 11.5 | 5.74 |
| Manganese | 302 | 0.574 | 0.287 |
| Molybdenum | 0.463 | 0.115 | 0.0574 |
| Nickel | 8.23 | 0.460 | 0.230 |
| Potassium | 2960 | 68.9 | 34.5 |
| Selenium | ND | 0.460 | 0.230 |
| Silver | ND | 0.115 | 0.0574 |
| Sodium | 58.2J | 115 | 57.4 |
| Strontium | 12.3 | 0.574 | 0.287 |
| Thallium | 0.239 | 0.115 | 0.0574 |
| Tin | ND | 11.5 | 5.74 |
| Titanium | 913 | 1.15 | 0.574 |
| Vanadium | 28.5 | 0.115 | 0.0574 |
| Zinc | 64.6 | 3.45 | 1.72 |
| Lithium | 32.5 | 2.30 | 1.15 |
| Phosphorus | 477 | 13.8 | 6.89 |
| Zirconium | ND | 5.74 | 2.87 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/05/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/05/12 |
| SDG NO. | : 12D048 | Date Extracted | : 04/12/12 10:15 |
| Sample ID | : SL-190-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/26/12 20:02 |
| Lab Samp ID | : D048-04 | Dilution Factor | : 0.980 |
| Lab File ID | : 98D18048 | Matrix | : SOIL |
| Ext Btch ID | : IMD019S | % Moisture | : 5.1 |
| Calib. Ref. | : 98D18041 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10000 | 24.8 | 12.4 |
| Antimony | 0.150J | 0.207 | 0.103 |
| Arsenic | 2.80 | 0.413 | 0.207 |
| Barium | 122 | 0.413 | 0.207 |
| Beryllium | 0.379 | 0.103 | 0.0516 |
| Boron | ND | 5.16 | 2.58 |
| Cadmium | 0.329 | 0.103 | 0.0516 |
| Calcium | 3510 | 20.7 | 10.3 |
| Chromium | 11.3 | 0.413 | 0.207 |
| Cobalt | 3.96 | 0.103 | 0.0516 |
| Copper | 6.75 | 0.413 | 0.207 |
| Iron | 16200 | 20.7 | 10.3 |
| Lead | 10.4 | 0.207 | 0.103 |
| Magnesium | 3910 | 10.3 | 5.16 |
| Manganese | 304 | 0.516 | 0.258 |
| Molybdenum | 0.357 | 0.103 | 0.0516 |
| Nickel | 8.18 | 0.413 | 0.207 |
| Potassium | 3610 | 62.0 | 31.0 |
| Selenium | ND | 0.413 | 0.207 |
| Silver | ND | 0.103 | 0.0516 |
| Sodium | ND | 103 | 51.6 |
| Strontium | 24.0 | 0.516 | 0.258 |
| Thallium | 0.198 | 0.103 | 0.0516 |
| Tin | ND | 10.3 | 5.16 |
| Titanium | 801 | 1.03 | 0.516 |
| Vanadium | 22.8 | 0.103 | 0.0516 |
| Zinc | 63.7 | 3.10 | 1.55 |
| Lithium | 20.7 | 2.07 | 1.03 |
| Phosphorus | 612 | 12.4 | 6.20 |
| Zirconium | ND | 5.16 | 2.58 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| SDG NO. : 12D048 | Date Extracted: 04/12/12 10:15 |
| Sample ID: MBLK1S | Date Analyzed: 04/26/12 17:44 |
| Lab Samp ID: IMD019SB | Dilution Factor: 1 |
| Lab File ID: 98D18019 | Matrix : SOIL |
| Ext Btch ID: IMD019S | % Moisture : NA |
| Calib. Ref.: 98D18017 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D048
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IMD019SB | IMD019SL | IMD019SC | | |
| LAB FILE ID: | 98D18019 | 98D18020 | 98D18021 | | |
| DATIME EXTRCTD: | 04/12/1210:15 | 04/12/1210:15 | 04/12/1210:15 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/26/1217:44 | 04/26/1217:48 | 04/26/1217:53 | DATE RECEIVED: | 04/12/12 |
| PREP. BATCH: | IMD019S | IMD019S | IMD019S | | |
| CALIB. REF: | 98D18017 | 98D18017 | 98D18017 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2610 | 104 | 2500 | 2680 | 107 | 3 | 80-120 | 20 |
| Antimony | ND | 25.0 | 25.8 | 103 | 25.0 | 26.2 | 105 | 2 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 24.9 | 100 | 25.0 | 25.5 | 102 | 2 | 80-120 | 20 |
| Barium | ND | 25.0 | 24.6 | 98 | 25.0 | 25.0 | 100 | 1 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 24.8 | 99 | 25.0 | 24.7 | 99 | 0 | 80-120 | 20 |
| Boron | ND | 25.0 | 25.3 | 101 | 25.0 | 25.2 | 101 | 1 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 24.6 | 98 | 25.0 | 25.2 | 101 | 3 | 80-120 | 20 |
| Calcium | ND | 2500 | 2560 | 102 | 2500 | 2640 | 106 | 3 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.5 | 98 | 25.0 | 25.1 | 100 | 3 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 24.9 | 100 | 25.0 | 25.2 | 101 | 1 | 80-120 | 20 |
| Copper | ND | 25.0 | 24.2 | 97 | 25.0 | 24.7 | 99 | 2 | 80-120 | 20 |
| Iron | ND | 2500 | 2540 | 102 | 2500 | 2570 | 103 | 1 | 80-120 | 20 |
| Lead | ND | 25.0 | 24.8 | 99 | 25.0 | 25.6 | 103 | 3 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2560 | 102 | 2500 | 2650 | 106 | 3 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.2 | 101 | 25.0 | 25.3 | 101 | 0 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 25.3 | 101 | 25.0 | 25.8 | 103 | 2 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.3 | 97 | 25.0 | 24.8 | 99 | 2 | 80-120 | 20 |
| Potassium | ND | 2500 | 2580 | 103 | 2500 | 2650 | 106 | 3 | 80-120 | 20 |
| Selenium | ND | 25.0 | 24.4 | 98 | 25.0 | 25.6 | 102 | 5 | 80-120 | 20 |
| Silver | ND | 25.0 | 24.7 | 99 | 25.0 | 25.1 | 100 | 2 | 80-120 | 20 |
| Sodium | ND | 2500 | 2530 | 101 | 2500 | 2570 | 103 | 2 | 80-120 | 20 |
| Strontium | ND | 25.0 | 25.3 | 101 | 25.0 | 26.1 | 104 | 3 | 80-120 | 20 |
| Thallium | ND | 25.0 | 25.2 | 101 | 25.0 | 26.2 | 105 | 4 | 80-120 | 20 |
| Tin | ND | 25.0 | 27.5 | 110 | 25.0 | 27.8 | 111 | 1 | 80-120 | 20 |
| Titanium | ND | 25.0 | 26.3 | 105 | 25.0 | 26.5 | 106 | 1 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 24.9 | 100 | 25.0 | 25.7 | 103 | 3 | 80-120 | 20 |
| Zinc | ND | 50.0 | 47.7 | 95 | 50.0 | 49.5 | 99 | 4 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.4 | 102 | 25.0 | 26.2 | 105 | 3 | 80-120 | 20 |
| Phosphorus | ND | 250 | 247 | 99 | 250 | 255 | 102 | 3 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 24.8 | 99 | 25.0 | 25.7 | 103 | 4 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D048
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 8.4
DILTN FACTR: 0.952 0.952
SAMPLE ID: SL-187-NBZ-SS-0.0-0.5
CONTROL NO.: D031-15 D031-15A
LAB FILE ID: 98D18025 98D18024
DATIME EXTRCTD: 04/12/1210:15 04/12/1210:15 DATE COLLECTED: 04/04/12
DATIME ANALYZD: 04/26/1218:11 04/26/1218:06 DATE RECEIVED: 04/04/12
PREP. BATCH: IMD019S IMD019S
CALIB. REF: 98D18017 98D18017

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 12100 | 2600 | 14600 | 96 | 75-125 |
| Antimony | 0.177J | 26.0 | 27.1 | 104 | 75-125 |
| Arsenic | 15.5 | 26.0 | 40.1 | 95 | 75-125 |
| Barium | 94.4 | 26.0 | 122 | 106 | 75-125 |
| Beryllium | 0.512 | 26.0 | 25.6 | 97 | 75-125 |
| Boron | ND | 26.0 | 26.9 | 104 | 75-125 |
| Cadmium | 0.289 | 26.0 | 25.9 | 98 | 75-125 |
| Calcium | 2300 | 2600 | 4810 | 97 | 75-125 |
| Chromium | 15.7 | 26.0 | 38.7 | 88 | 75-125 |
| Cobalt | 5.10 | 26.0 | 28.4 | 90 | 75-125 |
| Copper | 7.50 | 26.0 | 29.7 | 85 | 75-125 |
| Iron | 18200 | 2600 | 20300 | 81 | 75-125 |
| Lead | 7.73 | 26.0 | 32.4 | 95 | 75-125 |
| Magnesium | 4590 | 2600 | 7220 | 101 | 75-125 |
| Manganese | 284 | 26.0 | 300 | 61* | 75-125 |
| Molybdenum | 0.562 | 26.0 | 27.4 | 103 | 75-125 |
| Nickel | 10.4 | 26.0 | 32.9 | 87 | 75-125 |
| Potassium | 3210 | 2600 | 5640 | 94 | 75-125 |
| Selenium | ND | 26.0 | 25.6 | 98 | 75-125 |
| Silver | ND | 26.0 | 25.3 | 97 | 75-125 |
| Sodium | 57.9J | 2600 | 2560 | 96 | 75-125 |
| Strontium | 19.5 | 26.0 | 44.9 | 98 | 75-125 |
| Thallium | 0.235 | 26.0 | 25.9 | 99 | 75-125 |
| Tin | ND | 26.0 | 29.0 | 112 | 75-125 |
| Titanium | 845 | 26.0 | 844 | -6* | 75-125 |
| Vanadium | 31.1 | 26.0 | 54.3 | 89 | 75-125 |
| Zinc | 53.5 | 52.0 | 104 | 97 | 75-125 |
| Lithium | 23.6 | 26.0 | 50.5 | 104 | 75-125 |
| Phosphorus | 418 | 260 | 680 | 101 | 75-125 |
| Zirconium | ND | 26.0 | 26.4 | 102 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D048
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 8.4
DILUTION FACTOR: 0.952 4.76
SAMPLE ID: SL-187-NBZ-SS- SL-187-NBZ-SS-
EMAX SAMP ID: D031-15 D031-15J
LAB FILE ID: 98D18025 98D18026
DATE EXTRACTED: 04/12/1210:15 04/12/1210:15 DATE COLLECTED: 04/04/12
DATE ANALYZED: 04/26/1218:11 04/26/1218:15 DATE RECEIVED: 04/04/12
PREP. BATCH: IMD019S IMD019S
CALIB. REF: 98D18017 98D18017

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 12100 | 11900 | 2 | 10 |
| Antimony | 0.177J | ND | NA | 10 |
| Arsenic | 15.5 | 15.3 | 2 | 10 |
| Barium | 94.4 | 87.4 | 7 | 10 |
| Beryllium | 0.512 | 0.519J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.289 | 0.305J | NA | 10 |
| Calcium | 2300 | 2330 | 1 | 10 |
| Chromium | 15.7 | 15.7 | 1 | 10 |
| Cobalt | 5.10 | 5.27 | 3 | 10 |
| Copper | 7.50 | 8.03 | 7 | 10 |
| Iron | 18200 | 18800 | 4 | 10 |
| Lead | 7.73 | 7.42 | 4 | 10 |
| Magnesium | 4590 | 4570 | 1 | 10 |
| Manganese | 284 | 293 | 3 | 10 |
| Molybdenum | 0.562 | 0.546 | 3 | 10 |
| Nickel | 10.4 | 10.5 | 1 | 10 |
| Potassium | 3210 | 3100 | 3 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | 57.9J | ND | NA | 10 |
| Strontium | 19.5 | 17.9 | 8 | 10 |
| Thallium | 0.235 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 845 | 844 | 0 | 10 |
| Vanadium | 31.1 | 30.5 | 2 | 10 |
| Zinc | 53.5 | 50.9 | 5 | 10 |
| Lithium | 23.6 | 22.5 | 5 | 10 |
| Phosphorus | 418 | 383 | 8 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D048
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD012SB | ND | 1 | NA | 0.100 | 0.0500 | 04/11/1220:29 | 04/11/1212:47 | M47D006043 | M47D006032 | HGD012S | NA | 04/11/12 |
| LCS1S | HGD012SL | 0.843 | 1 | NA | 0.100 | 0.0500 | 04/11/1220:35 | 04/11/1212:47 | M47D006046 | M47D006044 | HGD012S | NA | 04/11/12 |
| LCD1S | HGD012SC | 0.835 | 1 | NA | 0.100 | 0.0500 | 04/11/1220:37 | 04/11/1212:47 | M47D006047 | M47D006044 | HGD012S | NA | 04/11/12 |
| SL-149-NBZ-SS-0.0-0.5 | D048-01 | ND | 0.998 | 8.8 | 0.109 | 0.0547 | 04/11/1221:21 | 04/11/1212:47 | M47D006067 | M47D006056 | HGD012S | 04/05/12 | 04/05/12 |
| SL-165-NBZ-SS-0.0-0.5 | D048-02 | ND | 0.987 | 9.7 | 0.109 | 0.0547 | 04/11/1221:28 | 04/11/1212:47 | M47D006070 | M47D006068 | HGD012S | 04/05/12 | 04/05/12 |
| SL-175-NBZ-SS-0.0-0.5 | D048-03 | ND | 0.992 | 14.7 | 0.116 | 0.0581 | 04/11/1221:30 | 04/11/1212:47 | M47D006071 | M47D006068 | HGD012S | 04/05/12 | 04/05/12 |
| SL-190-NBZ-SS-0.0-0.5 | D048-04 | ND | 0.987 | 5.1 | 0.104 | 0.0520 | 04/11/1221:32 | 04/11/1212:47 | M47D006072 | M47D006068 | HGD012S | 04/05/12 | 04/05/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D048
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGD012SB | HGD012SL | HGD012SC | | |
| LAB FILE ID: | M47D006043 | M47D006046 | M47D006047 | | |
| DATIME EXTRCTD: | 04/11/1212:47 | 04/11/1212:47 | 04/11/1212:47 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/11/1220:29 | 04/11/1220:35 | 04/11/1220:37 | DATE RECEIVED: | 04/11/12 |
| PREP. BATCH: | HGD012S | HGD012S | HGD012S | | |
| CALIB. REF: | M47D006032 | M47D006044 | M47D006044 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .843 | 101 | .833 | .835 | 100 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D048
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 7.8 |
| DILTN FACTR: | 0.997 | 0.997 | | |
| SAMPLE ID: | SL-031-NBZ-SS-0.0-0.5 | | | |
| CONTROL NO.: | D018-01 | D018-01A | | |
| LAB FILE ID: | M47D006049 | M47D006048 | | |
| DATIME EXTRCTD: | 04/11/1212:47 | 04/11/1212:47 | DATE COLLECTED: | 04/03/12 |
| DATIME ANALYZD: | 04/11/1220:41 | 04/11/1220:39 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | HGD012S | HGD012S | | |
| CALIB. REF: | M47D006044 | M47D006044 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .901 | .881 | 98 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D048
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 7.8 |
| DILUTION FACTOR: | 0.997 | 4.98 | | |
| SAMPLE ID: | SL-031-NBZ-SS-0.0-0 | SL-031-NBZ-SS-0.0-0 | | |
| EMAX SAMP ID: | D018-01 | D018-01J | | |
| LAB FILE ID: | M47D006049 | M47D006050 | | |
| DATE EXTRACTED: | 04/11/1212:47 | 04/11/1212:47 | DATE COLLECTED: | 04/03/12 |
| DATE ANALYZED: | 04/11/1220:41 | 04/11/1220:43 | DATE RECEIVED: | 04/03/12 |
| PREP. BATCH: | HGD012S | HGD012S | | |
| CALIB. REF: | M47D006044 | M47D006044 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D048
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD007SB | ND | 1 | NA | 1.00 | 0.500 | 04/13/1212:54 | 04/12/1212:25 | AD19-13 | AD19-11 | ICD007S | NA | 04/12/12 |
| LCS1S | ICD007SL | 6.08 | 1 | NA | 1.00 | 0.500 | 04/13/1213:10 | 04/12/1212:25 | AD19-14 | AD19-11 | ICD007S | NA | 04/12/12 |
| LCD1S | ICD007SC | 6.09 | 1 | NA | 1.00 | 0.500 | 04/13/1213:26 | 04/12/1212:25 | AD19-15 | AD19-11 | ICD007S | NA | 04/12/12 |
| SL-149-NBZ-SS-0.0-0.5 | D048-01 | ND | 1 | 8.8 | 1.10 | 0.548 | 04/13/1213:42 | 04/12/1212:25 | AD19-16 | AD19-11 | ICD007S | 04/05/1210:40 | 04/05/12 |
| SL-165-NBZ-SS-0.0-0.5 | D048-02 | ND | 1 | 9.7 | 1.11 | 0.554 | 04/13/1213:58 | 04/12/1212:25 | AD19-17 | AD19-11 | ICD007S | 04/05/1211:20 | 04/05/12 |
| SL-175-NBZ-SS-0.0-0.5 | D048-03 | ND | 1 | 14.7 | 1.17 | 0.586 | 04/13/1214:14 | 04/12/1212:25 | AD19-18 | AD19-11 | ICD007S | 04/05/1209:55 | 04/05/12 |
| SL-190-NBZ-SS-0.0-0.5 | D048-04 | ND | 1 | 5.1 | 1.05 | 0.527 | 04/13/1214:31 | 04/12/1212:25 | AD19-19 | AD19-11 | ICD007S | 04/05/1209:25 | 04/05/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D048
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD007SB | ICD007SL | ICD007SC | | |
| LAB FILE ID: | AD19-13 | AD19-14 | AD19-15 | | |
| DATE EXTRACTED: | 04/12/1212:25 | 04/12/1212:25 | 04/12/1212:25 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/13/1212:54 | 04/13/1213:10 | 04/13/1213:26 | DATE RECEIVED: | 04/12/12 |
| PREP. BATCH: | ICD007S | ICD007S | ICD007S | | |
| CALIB. REF: | AD19-11 | AD19-11 | AD19-11 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 6.08 | 101 | 6.00 | 6.09 | 101 | 0 | 90-110 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D048
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD012SB | ND | 1 | NA | 20.0 | 10.0 | 04/12/1216:19 | 04/11/1215:30 | JD12002 | JD12001 | PCD012S | NA | 04/11/12 |
| LCS1S | PCD012SL | 265 | 1 | NA | 20.0 | 10.0 | 04/12/1217:08 | 04/11/1215:30 | JD12004 | JD12001 | PCD012S | NA | 04/11/12 |
| LCD1S | PCD012SC | 272 | 1 | NA | 20.0 | 10.0 | 04/12/1217:29 | 04/11/1215:30 | JD12005 | JD12001 | PCD012S | NA | 04/11/12 |
| SL-149-NBZ-SS-0.0-0.5 | D048-01 | ND | 1 | 8.8 | 21.9 | 11.0 | 04/12/1217:50 | 04/11/1215:30 | JD12006 | JD12001 | PCD012S | 04/05/1210:40 | 04/05/12 |
| SL-165-NBZ-SS-0.0-0.5 | D048-02 | ND | 1 | 9.7 | 22.1 | 11.1 | 04/12/1218:12 | 04/11/1215:30 | JD12007 | JD12001 | PCD012S | 04/05/1211:20 | 04/05/12 |
| SL-175-NBZ-SS-0.0-0.5 | D048-03 | ND | 1 | 14.7 | 23.4 | 11.7 | 04/12/1218:33 | 04/11/1215:30 | JD12008 | JD12001 | PCD012S | 04/05/1209:55 | 04/05/12 |
| SL-190-NBZ-SS-0.0-0.5 | D048-04 | ND | 1 | 5.1 | 21.1 | 10.5 | 04/12/1218:54 | 04/11/1215:30 | JD12009 | JD12001 | PCD012S | 04/05/1209:25 | 04/05/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D048
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD012SB | PCD012SL | PCD012SC | | |
| LAB FILE ID: | JD12002 | JD12004 | JD12005 | | |
| DATE EXTRACTED: | 04/11/1215:30 | 04/11/1215:30 | 04/11/1215:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/12/1216:19 | 04/12/1217:08 | 04/12/1217:29 | DATE RECEIVED: | 04/11/12 |
| PREP. BATCH: | PCD012S | PCD012S | PCD012S | | |
| CALIB. REF: | JD12001 | JD12001 | JD12001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 265 | 106 | 250 | 272 | 109 | 3 | 85-115 | 15 |

METHOD 6850
PERCHLORATE BY LC/MS

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D048
Matrix : SOIL
Instrument ID : G0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PLD001SB | ND | 1 | NA | 5.00 | 2.50 | 04/11/1213:08 | 04/10/1215:15 | ND11004 | ND11003 | PLD001S | NA | 04/10/12 |
| LCS1S | PLD001SL | 25.1 | 1 | NA | 5.00 | 2.50 | 04/11/1213:22 | 04/10/1215:15 | ND11005 | ND11003 | PLD001S | NA | 04/10/12 |
| LCD1S | PLD001SC | 23.0 | 1 | NA | 5.00 | 2.50 | 04/11/1213:37 | 04/10/1215:15 | ND11006 | ND11003 | PLD001S | NA | 04/10/12 |
| SL-149-NBZ-SS-0.0-0.5 | D048-01 | ND | 1 | 8.8 | 5.48 | 2.74 | 04/11/1214:47 | 04/10/1215:15 | ND11011 | ND11003 | PLD001S | 04/05/1210:40 | 04/05/12 |
| SL-165-NBZ-SS-0.0-0.5 | D048-02 | ND | 1 | 9.7 | 5.54 | 2.77 | 04/11/1215:02 | 04/10/1215:15 | ND11012 | ND11003 | PLD001S | 04/05/1211:20 | 04/05/12 |
| SL-175-NBZ-SS-0.0-0.5 | D048-03 | ND | 1 | 14.7 | 5.86 | 2.93 | 04/11/1215:16 | 04/10/1215:15 | ND11013 | ND11003 | PLD001S | 04/05/1209:55 | 04/05/12 |
| SL-190-NBZ-SS-0.0-0.5 | D048-04 | ND | 1 | 5.1 | 5.27 | 2.63 | 04/11/1215:44 | 04/10/1215:15 | ND11015 | ND11014 | PLD001S | 04/05/1209:25 | 04/05/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D048
METHOD: METHOD 6850

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PLD001SB | PLD001SL | PLD001SC | | |
| LAB FILE ID: | ND11004 | ND11005 | ND11006 | | |
| DATE EXTRACTED: | 04/10/1215:15 | 04/10/1215:15 | 04/10/1215:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1213:08 | 04/11/1213:22 | 04/11/1213:37 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | PLD001S | PLD001S | PLD001S | | |
| CALIB. REF: | ND11003 | ND11003 | ND11003 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 25.0 | 25.1 | 101 | 25.0 | 23.0 | 92 | 9 | 85-115 | 15 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D048
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD007SB | ND | 1 | NA | 1.00 | 0.500 | 04/11/1216:42 | 04/10/1212:06 | ID11003 | ID11001 | HCD007S | NA | 04/10/12 |
| MBLK1S | HCD007SQ | ND | 1 | NA | 1.00 | 0.500 | 04/11/1216:52 | 04/10/1212:06 | ID11004 | ID11001 | HCD007S | NA | 04/10/12 |
| LCS1S | CSD007SL | 8.94 | 1 | NA | 1.00 | 0.500 | 04/11/1217:24 | 04/10/1212:06 | ID11005 | ID11001 | HCD007S | NA | 04/10/12 |
| LCS1S | CSD007SX | 9.77 | 1 | NA | 1.00 | 0.500 | 04/11/1217:34 | 04/10/1212:06 | ID11006 | ID11001 | HCD007S | NA | 04/10/12 |
| LCS2S | CID007SL | 306 | 20 | NA | 20.0 | 10.0 | 04/11/1217:44 | 04/10/1212:06 | ID11007 | ID11001 | HCD007S | NA | 04/10/12 |
| LCS2S | CID007SX | 304 | 20 | NA | 20.0 | 10.0 | 04/11/1217:55 | 04/10/1212:06 | ID11008 | ID11001 | HCD007S | NA | 04/10/12 |
| SL-149-NBZ-SS-0.0-0.5 | D048-01 | ND | 1 | 8.8 | 1.10 | 0.548 | 04/12/1201:06 | 04/10/1212:06 | ID11045 | ID11037 | HCD007S | 04/05/1210:40 | 04/05/12 |
| SL-149-NBZ-SS-0.0-0.5 | D048-01R | ND | 1 | 8.8 | 1.10 | 0.548 | 04/12/1201:16 | 04/10/1212:06 | ID11046 | ID11037 | HCD007S | 04/05/1210:40 | 04/05/12 |
| SL-165-NBZ-SS-0.0-0.5 | D048-02 | ND | 1 | 9.7 | 1.11 | 0.554 | 04/12/1201:27 | 04/10/1212:06 | ID11047 | ID11037 | HCD007S | 04/05/1211:20 | 04/05/12 |
| SL-165-NBZ-SS-0.0-0.5 | D048-02R | ND | 1 | 9.7 | 1.11 | 0.554 | 04/12/1201:37 | 04/10/1212:06 | ID11048 | ID11037 | HCD007S | 04/05/1211:20 | 04/05/12 |
| SL-175-NBZ-SS-0.0-0.5 | D048-03 | ND | 1 | 14.7 | 1.17 | 0.586 | 04/12/1202:19 | 04/10/1212:06 | ID11051 | ID11049 | HCD007S | 04/05/1209:55 | 04/05/12 |
| SL-175-NBZ-SS-0.0-0.5 | D048-03R | ND | 1 | 14.7 | 1.17 | 0.586 | 04/12/1202:29 | 04/10/1212:06 | ID11052 | ID11049 | HCD007S | 04/05/1209:55 | 04/05/12 |
| SL-190-NBZ-SS-0.0-0.5 | D048-04 | ND | 1 | 5.1 | 1.05 | 0.527 | 04/12/1202:39 | 04/10/1212:06 | ID11053 | ID11049 | HCD007S | 04/05/1209:25 | 04/05/12 |
| SL-190-NBZ-SS-0.0-0.5 | D048-04R | ND | 1 | 5.1 | 1.05 | 0.527 | 04/12/1202:50 | 04/10/1212:06 | ID11054 | ID11049 | HCD007S | 04/05/1209:25 | 04/05/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D048
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD007SQ CID007SX
LAB FILE ID: ID11004 ID11008
DATE EXTRACTED: 04/10/1212:06 04/10/1212:06 DATE COLLECTED: NA
DATE ANALYZED: 04/11/1216:52 04/11/1217:55 DATE RECEIVED: 04/10/12
PREP. BATCH: HCD007S HCD007S
CALIB. REF: ID11001 ID11001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 353 | 304 | 86 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D048
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD007SQ | CSD007SX | | |
| LAB FILE ID: | ID11004 | ID11006 | | |
| DATE EXTRACTED: | 04/10/1212:06 | 04/10/1212:06 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1216:52 | 04/11/1217:34 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | HCD007S | HCD007S | | |
| CALIB. REF: | ID11001 | ID11001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 9.77 | 98 | 80-120 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D048
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-149-NBZ-SS-0.0-0.5 | D048-01 | 6.55 | 1 | NA | NA | NA | 04/06/1218:28 | 04/06/1218:28 | 12PHD006S01 | PHD006S | PHD006S | 04/05/1210:40 | 04/05/12 |
| SL-149-NBZ-SS-0.0-0.5DUP | D048-01D | 6.54 | 1 | NA | NA | NA | 04/06/1218:29 | 04/06/1218:28 | 12PHD006S02 | PHD006S | PHD006S | 04/05/1210:40 | 04/05/12 |
| SL-165-NBZ-SS-0.0-0.5 | D048-02 | 6.86 | 1 | NA | NA | NA | 04/06/1218:30 | 04/06/1218:28 | 12PHD006S03 | PHD006S | PHD006S | 04/05/1211:20 | 04/05/12 |
| SL-175-NBZ-SS-0.0-0.5 | D048-03 | 6.22 | 1 | NA | NA | NA | 04/06/1218:33 | 04/06/1218:28 | 12PHD006S04 | PHD006S | PHD006S | 04/05/1209:55 | 04/05/12 |
| SL-190-NBZ-SS-0.0-0.5 | D048-04 | 6.81 | 1 | NA | NA | NA | 04/06/1218:35 | 04/06/1218:28 | 12PHD006S05 | PHD006S | PHD006S | 04/05/1209:25 | 04/05/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D048 DATE RECEIVED: 04/05/12
SAMPLE ID: SL-149-NBZ-SS-0.0-0.5DUP DATE EXTRACTED: 04/06/1218:28
CONTROL NO.: D048-01D DATE ANALYZED: 04/06/1218:29

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 6.55 | 6.54 | 0.01 | 0.10 |

# SAMPLE DELIVERY GROUP

# 12D084

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-001-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 00:00 |
| Lab Samp ID: D084-01 | Dilution Factor: 1 |
| Lab File ID: RDH293 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 11.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 95 |
| 1,2-DICHLOROBENZENE | ND | 190 | 95 |
| 1,3-DICHLOROBENZENE | ND | 190 | 95 |
| 1,4-DICHLOROBENZENE | ND | 190 | 95 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 95 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 95 |
| 2,6-DINITROTOLUENE | ND | 190 | 95 |
| 2-CHLORONAPHTHALENE | ND | 190 | 95 |
| 2-CHLOROPHENOL | ND | 190 | 95 |
| 2-METHYLNAPHTHALENE | ND | 190 | 95 |
| 2-METHYLPHENOL | ND | 190 | 95 |
| 2-NITROANILINE | ND | 190 | 95 |
| 2-NITROPHENOL | ND | 190 | 95 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 95 |
| 3-NITROANILINE | ND | 190 | 95 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 95 |
| 4-CHLOROANILINE | ND | 190 | 95 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-METHYLPHENOL (1) | ND | 190 | 95 |
| 4-NITROANILINE | ND | 190 | 95 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 95 |
| ACENAPHTHYLENE | ND | 190 | 95 |
| ANTHRACENE | ND | 190 | 95 |
| BENZO(A)ANTHRACENE | ND | 190 | 95 |
| BENZO(A)PYRENE | ND | 190 | 95 |
| BENZO(B)FLUORANTHENE | ND | 190 | 95 |
| BENZO(K)FLUORANTHENE | ND | 190 | 95 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 95 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 95 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 95 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 95 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 95 |
| CHRYSENE | ND | 190 | 95 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 95 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 95 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 95 |
| DIBENZOFURAN | ND | 190 | 95 |
| DIETHYLPHTHALATE | ND | 190 | 95 |
| DIMETHYLPHTHALATE | ND | 190 | 95 |
| FLUORANTHENE | ND | 190 | 95 |
| FLUORENE | ND | 190 | 95 |
| HEXACHLOROBENZENE | ND | 190 | 95 |
| HEXACHLOROBUTADIENE | ND | 190 | 95 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 95 |
| HEXACHLOROETHANE | ND | 190 | 95 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 95 |
| ISOPHORONE | ND | 190 | 95 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 95 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 95 |
| NAPHTHALENE | ND | 190 | 95 |
| NITROBENZENE | ND | 190 | 95 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 95 |
| PHENOL | ND | 190 | 95 |
| PYRENE | ND | 190 | 95 |
| BENZYL ALCOHOL | ND | 190 | 95 |
| 1-METHYLNAPHTHALENE | ND | 190 | 95 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 95 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 95 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 940 | 480 |
| BENZOIC ACID | ND | 750 | 380 |
| CARBAZOLE | ND | 190 | 95 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 95 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 954 | 1131 | 84.3 | 35-130 |
| 2-FLUOROBIPHENYL | 250 | 377.0 | 66.3 | 45-130 |
| 2-FLUOROPHENOL | 622 | 1131 | 55.0 | 25-130 |
| NITROBENZENE-D5 | 216 | 377.0 | 57.2 | 40-130 |
| PHENOL-D5 | 792 | 1131 | 70.0 | 25-120 |
| TERPHENYL-D14 | 353 | 377.0 | 93.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-151-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 00:18 |
| Lab Samp ID: D084-02 | Dilution Factor: 1 |
| Lab File ID: RDH294 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 9.5 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 93 |
| 1,2-DICHLOROBENZENE | ND | 180 | 93 |
| 1,3-DICHLOROBENZENE | ND | 180 | 93 |
| 1,4-DICHLOROBENZENE | ND | 180 | 93 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DICHLOROPHENOL | ND | 180 | 93 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 93 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 93 |
| 2,6-DINITROTOLUENE | ND | 180 | 93 |
| 2-CHLORONAPHTHALENE | ND | 180 | 93 |
| 2-CHLOROPHENOL | ND | 180 | 93 |
| 2-METHYLNAPHTHALENE | ND | 180 | 93 |
| 2-METHYLPHENOL | ND | 180 | 93 |
| 2-NITROANILINE | ND | 180 | 93 |
| 2-NITROPHENOL | ND | 180 | 93 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 93 |
| 3-NITROANILINE | ND | 180 | 93 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 93 |
| 4-CHLOROANILINE | ND | 180 | 93 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 93 |
| 4-METHYLPHENOL (1) | ND | 180 | 93 |
| 4-NITROANILINE | ND | 180 | 93 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 93 |
| ACENAPHTHYLENE | ND | 180 | 93 |
| ANTHRACENE | ND | 180 | 93 |
| BENZO(A)ANTHRACENE | ND | 180 | 93 |
| BENZO(A)PYRENE | ND | 180 | 93 |
| BENZO(B)FLUORANTHENE | ND | 180 | 93 |
| BENZO(K)FLUORANTHENE | ND | 180 | 93 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 93 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 93 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 93 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 93 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 93 |
| CHRYSENE | ND | 180 | 93 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 93 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 93 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 93 |
| DIBENZOFURAN | ND | 180 | 93 |
| DIETHYLPHTHALATE | ND | 180 | 93 |
| DIMETHYLPHTHALATE | ND | 180 | 93 |
| FLUORANTHENE | ND | 180 | 93 |
| FLUORENE | ND | 180 | 93 |
| HEXACHLOROBENZENE | ND | 180 | 93 |
| HEXACHLOROBUTADIENE | ND | 180 | 93 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 93 |
| HEXACHLOROETHANE | ND | 180 | 93 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 93 |
| ISOPHORONE | ND | 180 | 93 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 93 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 93 |
| NAPHTHALENE | ND | 180 | 93 |
| NITROBENZENE | ND | 180 | 93 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 93 |
| PHENOL | ND | 180 | 93 |
| PYRENE | ND | 180 | 93 |
| BENZYL ALCOHOL | ND | 180 | 93 |
| 1-METHYLNAPHTHALENE | ND | 180 | 93 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 93 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 93 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 920 | 460 |
| BENZOIC ACID | ND | 740 | 370 |
| CARBAZOLE | ND | 180 | 93 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 93 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 893 | 1105 | 80.8 | 35-130 |
| 2-FLUOROBIPHENYL | 215 | 368.3 | 58.3 | 45-130 |
| 2-FLUOROPHENOL | 601 | 1105 | 54.4 | 25-130 |
| NITROBENZENE-D5 | 199 | 368.3 | 54.1 | 40-130 |
| PHENOL-D5 | 721 | 1105 | 65.2 | 25-120 |
| TERPHENYL-D14 | 343 | 368.3 | 93.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-157-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 00:37 |
| Lab Samp ID: D084-03 | Dilution Factor: 1 |
| Lab File ID: RDH295 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 9.1 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 370 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 891 | 1100 | 81.0 | 35-130 |
| 2-FLUOROBIPHENYL | 198 | 366.7 | 54.1 | 45-130 |
| 2-FLUOROPHENOL | 552 | 1100 | 50.2 | 25-130 |
| NITROBENZENE-D5 | 177 | 366.7 | 48.2 | 40-130 |
| PHENOL-D5 | 680 | 1100 | 61.8 | 25-120 |
| TERPHENYL-D14 | 353 | 366.7 | 96.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-167-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 00:55 |
| Lab Samp ID: D084-04 | Dilution Factor: 1 |
| Lab File ID: RDH296 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 6.4 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 90 |
| 1,2-DICHLOROBENZENE | ND | 180 | 90 |
| 1,3-DICHLOROBENZENE | ND | 180 | 90 |
| 1,4-DICHLOROBENZENE | ND | 180 | 90 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 90 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 90 |
| 2,4-DICHLOROPHENOL | ND | 180 | 90 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 90 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 90 |
| 2,6-DINITROTOLUENE | ND | 180 | 90 |
| 2-CHLORONAPHTHALENE | ND | 180 | 90 |
| 2-CHLOROPHENOL | ND | 180 | 90 |
| 2-METHYLNAPHTHALENE | ND | 180 | 90 |
| 2-METHYLPHENOL | ND | 180 | 90 |
| 2-NITROANILINE | ND | 180 | 90 |
| 2-NITROPHENOL | ND | 180 | 90 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 90 |
| 3-NITROANILINE | ND | 180 | 90 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 90 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 90 |
| 4-CHLOROANILINE | ND | 180 | 90 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 90 |
| 4-METHYLPHENOL (1) | ND | 180 | 90 |
| 4-NITROANILINE | ND | 180 | 90 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 90 |
| ACENAPHTHYLENE | ND | 180 | 90 |
| ANTHRACENE | ND | 180 | 90 |
| BENZO(A)ANTHRACENE | ND | 180 | 90 |
| BENZO(A)PYRENE | ND | 180 | 90 |
| BENZO(B)FLUORANTHENE | ND | 180 | 90 |
| BENZO(K)FLUORANTHENE | ND | 180 | 90 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 90 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 90 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 90 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 90 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 90 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 90 |
| CHRYSENE | ND | 180 | 90 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 90 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 90 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 90 |
| DIBENZOFURAN | ND | 180 | 90 |
| DIETHYLPHTHALATE | ND | 180 | 90 |
| DIMETHYLPHTHALATE | ND | 180 | 90 |
| FLUORANTHENE | ND | 180 | 90 |
| FLUORENE | ND | 180 | 90 |
| HEXACHLOROBENZENE | ND | 180 | 90 |
| HEXACHLOROBUTADIENE | ND | 180 | 90 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 90 |
| HEXACHLOROETHANE | ND | 180 | 90 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 90 |
| ISOPHORONE | ND | 180 | 90 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 90 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 90 |
| NAPHTHALENE | ND | 180 | 90 |
| NITROBENZENE | ND | 180 | 90 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 90 |
| PHENOL | ND | 180 | 90 |
| PYRENE | ND | 180 | 90 |
| BENZYL ALCOHOL | ND | 180 | 90 |
| 1-METHYLNAPHTHALENE | ND | 180 | 90 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 90 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 90 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 890 | 450 |
| BENZOIC ACID | ND | 710 | 360 |
| CARBAZOLE | ND | 180 | 90 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 90 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 872 | 1068 | 81.6 | 35-130 |
| 2-FLUOROBIPHENYL | 220 | 356.1 | 61.7 | 45-130 |
| 2-FLUOROPHENOL | 638 | 1068 | 59.7 | 25-130 |
| NITROBENZENE-D5 | 206 | 356.1 | 57.7 | 40-130 |
| PHENOL-D5 | 746 | 1068 | 69.8 | 25-120 |
| TERPHENYL-D14 | 319 | 356.1 | 89.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-174-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 01:14 |
| Lab Samp ID: D084-05 | Dilution Factor: 1 |
| Lab File ID: RDH297 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 8.4 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 360 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 900 | 1092 | 82.5 | 35-130 |
| 2-FLUOROBIPHENYL | 236 | 363.9 | 64.8 | 45-130 |
| 2-FLUOROPHENOL | 685 | 1092 | 62.8 | 25-130 |
| NITROBENZENE-D5 | 219 | 363.9 | 60.2 | 40-130 |
| PHENOL-D5 | 799 | 1092 | 73.2 | 25-120 |
| TERPHENYL-D14 | 327 | 363.9 | 90.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-185-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 01:33 |
| Lab Samp ID: D084-06 | Dilution Factor: 1 |
| Lab File ID: RDH298 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 10.2 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 920 | 470 |
| BENZOIC ACID | ND | 740 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 941 | 1114 | 84.5 | 35-130 |
| 2-FLUOROBIPHENYL | 220 | 371.2 | 59.3 | 45-130 |
| 2-FLUOROPHENOL | 593 | 1114 | 53.2 | 25-130 |
| NITROBENZENE-D5 | 191 | 371.2 | 51.5 | 40-130 |
| PHENOL-D5 | 743 | 1114 | 66.7 | 25-120 |
| TERPHENYL-D14 | 335 | 371.2 | 90.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-191-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 01:52 |
| Lab Samp ID: D084-07 | Dilution Factor: 1 |
| Lab File ID: RDH299 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 8.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 370 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 765 | 1094 | 69.9 | 35-130 |
| 2-FLUOROBIPHENYL | 172 | 364.7 | 47.2 | 45-130 |
| 2-FLUOROPHENOL | 540 | 1094 | 49.3 | 25-130 |
| NITROBENZENE-D5 | 167 | 364.7 | 45.8 | 40-130 |
| PHENOL-D5 | 630 | 1094 | 57.6 | 25-120 |
| TERPHENYL-D14 | 327 | 364.7 | 89.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 11:42 |
| Sample ID: DUP-06-NBZ-QC-040912 | Date Analyzed: 04/18/12 02:10 |
| Lab Samp ID: D084-08 | Dilution Factor: 1 |
| Lab File ID: RDH300 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 7.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 450 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 835 | 1082 | 77.2 | 35-130 |
| 2-FLUOROBIPHENYL | 167 | 360.7 | 46.2 | 45-130 |
| 2-FLUOROPHENOL | 501 | 1082 | 46.3 | 25-130 |
| NITROBENZENE-D5 | 154 | 360.7 | 42.6 | 40-130 |
| PHENOL-D5 | 595 | 1082 | 55.0 | 25-120 |
| TERPHENYL-D14 | 335 | 360.7 | 93.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 11:42 |
| Sample ID: MBLK1S | Date Analyzed: 04/17/12 17:10 |
| Lab Samp ID: SVD031SB | Dilution Factor: 1 |
| Lab File ID: RDH271 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : NA |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 679 | 1000 | 67.9 | 35-130 |
| 2-FLUOROBIPHENYL | 254 | 333.3 | 76.3 | 45-130 |
| 2-FLUOROPHENOL | 825 | 1000 | 82.5 | 25-130 |
| NITROBENZENE-D5 | 260 | 333.3 | 77.9 | 40-130 |
| PHENOL-D5 | 872 | 1000 | 87.2 | 25-120 |
| TERPHENYL-D14 | 319 | 333.3 | 95.8 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVD031SB SVD031SL SVD031SC
LAB FILE ID: RDH271 RDH272 RDH273
DATE EXTRACTED: 04/17/1211:42 04/17/1211:42 04/17/1211:42 DATE COLLECTED: NA
DATE ANALYZED: 04/17/1217:10 04/17/1217:28 04/17/1217:47 DATE RECEIVED: 04/17/12
PREP. BATCH: SVD031S SVD031S SVD031S
CALIB. REF: RCH007 RCH007 RCH007

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 534 | 80 | 667 | 468 | 70 | 13 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 496 | 74 | 667 | 442 | 66 | 12 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 498 | 75 | 667 | 439 | 66 | 12 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 494 | 74 | 667 | 441 | 66 | 11 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 588 | 88 | 667 | 512 | 77 | 14 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 635 | 95 | 667 | 554 | 83 | 14 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 601 | 90 | 667 | 533 | 80 | 12 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 593 | 89 | 667 | 527 | 79 | 12 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 500 | 75 | 667 | 549 | 82 | 9 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 682 | 102 | 667 | 634 | 95 | 7 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 656 | 98 | 667 | 587 | 88 | 11 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 528 | 79 | 667 | 462 | 69 | 13 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 567 | 85 | 667 | 506 | 76 | 11 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 651 | 98 | 667 | 577 | 87 | 12 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 549 | 82 | 667 | 487 | 73 | 12 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 619 | 93 | 667 | 540 | 81 | 14 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 624 | 94 | 667 | 578 | 87 | 8 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 553 | 83 | 667 | 504 | 76 | 9 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 597 | 90 | 667 | 537 | 81 | 11 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 612 | 92 | 667 | 590 | 89 | 4 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 667 | 100 | 667 | 564 | 85 | 17 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 606 | 91 | 667 | 521 | 78 | 15 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 575 | 86 | 667 | 493 | 74 | 15 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 643 | 96 | 667 | 566 | 85 | 13 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 535 | 80 | 667 | 471 | 71 | 13 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 650 | 98 | 667 | 629 | 94 | 3 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 547 | 82 | 667 | 540 | 81 | 1 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 646 | 97 | 667 | 572 | 86 | 12 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 697 | 104 | 667 | 568 | 85 | 20 | 30-130 | 50 |
| Anthracene | ND | 667 | 574 | 86 | 667 | 500 | 75 | 14 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 677 | 102 | 667 | 598 | 90 | 12 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 653 | 98 | 667 | 569 | 85 | 14 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 673 | 101 | 667 | 604 | 91 | 11 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 709 | 106 | 667 | 619 | 93 | 14 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 754 | 113 | 667 | 637 | 96 | 17 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 638 | 96 | 667 | 570 | 85 | 11 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 612 | 92 | 667 | 546 | 82 | 11 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 686 | 103 | 667 | 608 | 91 | 12 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 646 | 97 | 667 | 570 | 86 | 12 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 668 | 100 | 667 | 594 | 89 | 12 | 40-150 | 50 |
| Chrysene | ND | 667 | 713 | 107 | 667 | 629 | 94 | 12 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 598 | 90 | 667 | 546 | 82 | 9 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 588 | 88 | 667 | 570 | 86 | 3 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 701 | 105 | 667 | 597 | 90 | 16 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 623 | 93 | 667 | 546 | 82 | 13 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 617 | 93 | 667 | 545 | 82 | 12 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 621 | 93 | 667 | 544 | 82 | 13 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 651 | 98 | 667 | 607 | 91 | 7 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 655 | 98 | 667 | 575 | 86 | 13 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 572 | 86 | 667 | 492 | 74 | 15 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 575 | 86 | 667 | 504 | 76 | 13 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 417 | 63 | 667 | 375 | 56 | 11 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 452 | 68 | 667 | 399 | 60 | 12 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 709 | 106 | 667 | 605 | 91 | 16 | 30-140 | 50 |
| Isophorone | ND | 667 | 605 | 91 | 667 | 527 | 79 | 14 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 514 | 77 | 667 | 452 | 68 | 13 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 452 | 68 | 667 | 378 | 57 | 18 | 30-140 | 50 |
| Naphthalene | ND | 667 | 638 | 96 | 667 | 563 | 84 | 13 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 611 | 92 | 667 | 549 | 82 | 11 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 584 | 88 | 667 | 533 | 80 | 9 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 603 | 90 | 667 | 524 | 79 | 14 | 30-130 | 50 |
| Phenol | ND | 667 | 574 | 86 | 667 | 508 | 76 | 12 | 30-130 | 50 |
| Pyrene | ND | 667 | 626 | 94 | 667 | 529 | 79 | 17 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 584 | 88 | 667 | 520 | 78 | 12 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 662 | 99 | 667 | 593 | 89 | 11 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 534 | 80 | 667 | 443 | 66 | 19 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 591 | 89 | 667 | 574 | 86 | 3 | 20-150 | 50 |
| Aniline | ND | 667 | 421 | 63 | 667 | 359 | 54 | 16 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1500 | 56 | 2670 | 1630 | 61 | 8 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 1030 | 38 | 2670 | 1210 | 46 | 17 | 10-130 | 50 |
| Carbazole | ND | 667 | 591 | 89 | 667 | 546 | 82 | 8 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 728 | 109 | 667 | 653 | 98 | 11 | 30-150 | 50 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 811 | 81 | 1000 | 794 | 79 | 35-130 |
| 2-Fluorobiphenyl | 333 | 244 | 73 | 333 | 244 | 73 | 45-130 |
| 2-Fluorophenol | 1000 | 763 | 76 | 1000 | 757 | 76 | 25-130 |
| Nitrobenzene-d5 | 333 | 245 | 74 | 333 | 253 | 76 | 40-130 |
| Phenol-d5 | 1000 | 809 | 81 | 1000 | 819 | 82 | 25-120 |
| Terphenyl-d14 | 333 | 311 | 93 | 333 | 303 | 91 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: 8.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-191-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D084-07 | D084-07M | D084-07S | | |
| LAB FILE ID: | RDH299 | RDH276 | RDH277 | | |
| DATE EXTRACTED: | 04/17/1211:42 | 04/17/1211:42 | 04/17/1211:42 | DATE COLLECTED: | 04/09/12 |
| DATE ANALYZED: | 04/18/1201:52 | 04/17/1218:43 | 04/17/1219:02 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | SVD031S | SVD031S | SVD031S | | |
| CALIB. REF: | RCH007 | RCH007 | RCH007 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 729 | 474 | 65 | 729 | 390 | 53 | 19 | 10-130 | 50 |
| 1,2-Dichlorobenzene | ND | 729 | 385 | 53 | 729 | 331 | 45 | 15 | 30-130 | 50 |
| 1,3-Dichlorobenzene | ND | 729 | 348 | 48 | 729 | 295 | 40 | 17 | 30-130 | 50 |
| 1,4-Dichlorobenzene | ND | 729 | 362 | 50 | 729 | 304 | 42 | 17 | 10-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 729 | 602 | 83 | 729 | 482 | 66 | 22 | 30-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 729 | 646 | 89 | 729 | 505 | 69 | 24 | 30-130 | 50 |
| 2,4-Dichlorophenol | ND | 729 | 588 | 81 | 729 | 476 | 65 | 21 | 30-130 | 50 |
| 2,4-Dimethylphenol | ND | 729 | 562 | 77 | 729 | 435 | 60 | 26 | 30-130 | 50 |
| 2,4-Dinitrophenol | ND | 729 | 598 | 82 | 729 | 534 | 73 | 11 | 10-130 | 50 |
| 2,4-Dinitrotoluene | ND | 729 | 667 | 91 | 729 | 615 | 84 | 8 | 20-130 | 50 |
| 2,6-Dinitrotoluene | ND | 729 | 680 | 93 | 729 | 541 | 74 | 23 | 30-130 | 50 |
| 2-Chloronaphthalene | ND | 729 | 526 | 72 | 729 | 419 | 57 | 23 | 30-130 | 50 |
| 2-Chlorophenol | ND | 729 | 558 | 77 | 729 | 455 | 62 | 20 | 20-130 | 50 |
| 2-Methylnaphthalene | ND | 729 | 632 | 87 | 729 | 504 | 69 | 22 | 30-130 | 50 |
| 2-Methylphenol | ND | 729 | 539 | 74 | 729 | 429 | 59 | 23 | 30-130 | 50 |
| 2-Nitroaniline | ND | 729 | 636 | 87 | 729 | 526 | 72 | 19 | 30-130 | 50 |
| 2-Nitrophenol | ND | 729 | 622 | 85 | 729 | 508 | 70 | 20 | 30-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 729 | 446 | 61 | 729 | 390 | 53 | 14 | 30-130 | 50 |
| 3-Nitroaniline | ND | 729 | 587 | 80 | 729 | 512 | 70 | 14 | 30-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 729 | 634 | 87 | 729 | 587 | 81 | 8 | 30-130 | 50 |
| 4-Bromophenyl-phenylether | ND | 729 | 675 | 93 | 729 | 583 | 80 | 15 | 30-130 | 50 |
| 4-Chloro-3-Methylphenol | ND | 729 | 600 | 82 | 729 | 487 | 67 | 21 | 20-130 | 50 |
| 4-Chloroaniline | ND | 729 | 552 | 76 | 729 | 435 | 60 | 24 | 30-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 729 | 642 | 88 | 729 | 532 | 73 | 19 | 30-130 | 50 |
| 4-Methylphenol | ND | 729 | 529 | 73 | 729 | 423 | 58 | 22 | 20-130 | 50 |
| 4-Nitroaniline | ND | 729 | 626 | 86 | 729 | 568 | 78 | 10 | 40-130 | 50 |
| 4-Nitrophenol | ND | 729 | 531 | 73 | 729 | 501 | 69 | 6 | 10-130 | 50 |
| Acenaphthene | ND | 729 | 651 | 89 | 729 | 513 | 70 | 24 | 20-130 | 50 |
| Acenaphthylene | ND | 729 | 642 | 88 | 729 | 548 | 75 | 16 | 20-130 | 50 |
| Anthracene | ND | 729 | 558 | 77 | 729 | 507 | 70 | 10 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 729 | 637 | 87 | 729 | 614 | 84 | 4 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 729 | 590 | 81 | 729 | 560 | 77 | 5 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 729 | 632 | 87 | 729 | 619 | 85 | 2 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 729 | 657 | 90 | 729 | 628 | 86 | 4 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 729 | 702 | 96 | 729 | 666 | 91 | 5 | 30-130 | 50 |
| bis(2-Chloroethoxy)methane | ND | 729 | 626 | 86 | 729 | 510 | 70 | 20 | 30-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 729 | 578 | 79 | 729 | 472 | 65 | 20 | 30-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 729 | 638 | 87 | 729 | 519 | 71 | 21 | 20-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 729 | 606 | 83 | 729 | 586 | 80 | 3 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 729 | 622 | 85 | 729 | 601 | 82 | 3 | 30-130 | 50 |
| Chrysene | ND | 729 | 671 | 92 | 729 | 660 | 91 | 2 | 30-130 | 50 |
| Di-n-butylphthalate | ND | 729 | 565 | 77 | 729 | 535 | 73 | 5 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 729 | 555 | 76 | 729 | 574 | 79 | 3 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 729 | 643 | 88 | 729 | 616 | 84 | 4 | 30-130 | 50 |
| Dibenzofuran | ND | 729 | 624 | 86 | 729 | 503 | 69 | 22 | 30-130 | 50 |
| Diethylphthalate | ND | 729 | 595 | 82 | 729 | 538 | 74 | 10 | 30-130 | 50 |
| Dimethylphthalate | ND | 729 | 618 | 85 | 729 | 510 | 70 | 19 | 30-130 | 50 |
| Fluoranthene | ND | 729 | 623 | 85 | 729 | 595 | 82 | 4 | 30-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 729 | 652 | 89 | 729 | 546 | 75 | 18 | 20-130 | 50 |
| Hexachlorobenzene | ND | 729 | 575 | 79 | 729 | 520 | 71 | 10 | 10-160 | 50 |
| Hexachlorobutadiene | ND | 729 | 491 | 67 | 729 | 401 | 55 | 20 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 729 | 389 | 53 | 729 | 307 | 42 | 24 | 10-130 | 50 |
| Hexachloroethane | ND | 729 | 311 | 43 | 729 | 265 | 36 | 16 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 729 | 655 | 90 | 729 | 624 | 86 | 5 | 20-130 | 50 |
| Isophorone | ND | 729 | 591 | 81 | 729 | 464 | 64 | 24 | 30-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 729 | 503 | 69 | 729 | 405 | 56 | 22 | 20-130 | 50 |
| n-Nitrosodiphenylamine | ND | 729 | 435 | 60 | 729 | 383 | 53 | 13 | 20-140 | 50 |
| Naphthalene | ND | 729 | 589 | 81 | 729 | 490 | 67 | 18 | 30-130 | 50 |
| Nitrobenzene | ND | 729 | 591 | 81 | 729 | 477 | 65 | 21 | 30-130 | 50 |
| Pentachlorophenol | ND | 729 | 573 | 78 | 729 | 529 | 73 | 8 | 10-130 | 50 |
| Phenanthrene | ND | 729 | 593 | 81 | 729 | 545 | 75 | 9 | 20-130 | 50 |
| Phenol | ND | 729 | 578 | 79 | 729 | 461 | 63 | 22 | 20-130 | 50 |
| Pyrene | ND | 729 | 591 | 81 | 729 | 602 | 83 | 2 | 10-160 | 50 |
| Benzyl Alcohol | ND | 729 | 598 | 82 | 729 | 481 | 66 | 22 | 30-130 | 50 |
| 1-Methylnaphthalene | ND | 729 | 650 | 89 | 729 | 521 | 71 | 22 | 20-130 | 50 |
| 1,2-Diphenylhydrazine | ND | 729 | 529 | 73 | 729 | 451 | 62 | 16 | 20-150 | 50 |
| 3,5-Dimethylphenol | ND | 729 | 604 | 83 | 729 | 457 | 63 | 28 | 20-130 | 50 |
| Aniline | ND | 729 | 386 | 53 | 729 | 282J | 39 | 31 | 10-150 | 50 |
| Benzidine | ND | 2920 | 140J | 5* | 2920 | 108J | 4* | 26 | 10-150 | 50 |
| Benzoic Acid | ND | 2920 | 2050 | 70 | 2920 | 1730 | 59 | 17 | 10-130 | 50 |
| Carbazole | ND | 729 | 573 | 79 | 729 | 535 | 73 | 7 | 30-130 | 50 |
| N-Nitrosodimethylamine | ND | 729 | 743 | 102 | 729 | 607 | 83 | 20 | 20-130 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1090 | 901 | 82 | 1090 | 761 | 70 | 35-130 |
| 2-Fluorobiphenyl | 365 | 273 | 75 | 365 | 202 | 55 | 45-130 |
| 2-Fluorophenol | 1090 | 872 | 80 | 1090 | 656 | 60 | 25-130 |
| Nitrobenzene-d5 | 365 | 272 | 75 | 365 | 211 | 58 | 40-130 |
| Phenol-d5 | 1090 | 930 | 85 | 1090 | 715 | 65 | 25-120 |
| Terphenyl-d14 | 365 | 319 | 88 | 365 | 297 | 82 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-001-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 00:00 |
| Lab Samp ID: D084-01 | Dilution Factor: 1 |
| Lab File ID: RDH293 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 11.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.96 |
| ACENAPHTHYLENE | ND | 1.9 | 0.96 |
| ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)PYRENE | ND | 1.9 | 0.96 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.96 |
| CHRYSENE | ND | 1.9 | 0.96 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.96 |
| FLUORANTHENE | ND | 1.9 | 0.96 |
| FLUORENE | ND | 1.9 | 0.96 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.96 |
| NAPHTHALENE | ND | 1.9 | 0.96 |
| PHENANTHRENE | ND | 1.9 | 0.96 |
| PYRENE | ND | 1.9 | 0.96 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 20 | 19 | 9.5 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.5 |
| DIETHYLPHTHALATE | ND | 19 | 9.5 |
| DIMETHYLPHTHALATE | ND | 19 | 9.5 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.96 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 227 | 377.0 | 60.1 | 40-130 |
| 2-FLUOROBIPHENYL | 267 | 377.0 | 70.7 | 45-130 |
| TERPHENYL-D14 | 344 | 377.0 | 91.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-151-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 00:18 |
| Lab Samp ID: D084-02 | Dilution Factor: 1 |
| Lab File ID: RDH294 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 9.5 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.94 |
| ACENAPHTHYLENE | ND | 1.9 | 0.94 |
| ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)PYRENE | ND | 1.9 | 0.94 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.94 |
| CHRYSENE | ND | 1.9 | 0.94 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.94 |
| FLUORANTHENE | ND | 1.9 | 0.94 |
| FLUORENE | ND | 1.9 | 0.94 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.94 |
| NAPHTHALENE | ND | 1.9 | 0.94 |
| PHENANTHRENE | ND | 1.9 | 0.94 |
| PYRENE | ND | 1.9 | 0.94 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 19 | 18 | 9.3 |
| BUTYLBENZYLPHTHALATE | 12J | 18 | 9.3 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.3 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.3 |
| DIETHYLPHTHALATE | ND | 18 | 9.3 |
| DIMETHYLPHTHALATE | ND | 18 | 9.3 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.94 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 212 | 368.3 | 57.6 | 40-130 |
| 2-FLUOROBIPHENYL | 237 | 368.3 | 64.3 | 45-130 |
| TERPHENYL-D14 | 327 | 368.3 | 88.8 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-157-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 00:37 |
| Lab Samp ID: D084-03 | Dilution Factor: 1 |
| Lab File ID: RDH295 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 9.1 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.94 |
| ACENAPHTHYLENE | ND | 1.9 | 0.94 |
| ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.94 |
| BENZO(A)PYRENE | ND | 1.9 | 0.94 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.94 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.94 |
| CHRYSENE | ND | 1.9 | 0.94 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.94 |
| FLUORANTHENE | ND | 1.9 | 0.94 |
| FLUORENE | ND | 1.9 | 0.94 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.94 |
| NAPHTHALENE | ND | 1.9 | 0.94 |
| PHENANTHRENE | ND | 1.9 | 0.94 |
| PYRENE | ND | 1.9 | 0.94 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 35 | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.94 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 190 | 366.7 | 51.8 | 40-130 |
| 2-FLUOROBIPHENYL | 217 | 366.7 | 59.3 | 45-130 |
| TERPHENYL-D14 | 364 | 366.7 | 99.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-167-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 00:55 |
| Lab Samp ID: D084-04 | Dilution Factor: 1 |
| Lab File ID: RDH296 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 6.4 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.91 |
| ACENAPHTHYLENE | ND | 1.8 | 0.91 |
| ANTHRACENE | ND | 1.8 | 0.91 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.91 |
| BENZO(A)PYRENE | ND | 1.8 | 0.91 |
| BENZO(B)FLUORANTHENE | 1.4J | 1.8 | 0.91 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.91 |
| BENZO(G,H,I)PERYLENE | 1.1J | 1.8 | 0.91 |
| CHRYSENE | ND | 1.8 | 0.91 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.91 |
| FLUORANTHENE | 1.2J | 1.8 | 0.91 |
| FLUORENE | ND | 1.8 | 0.91 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.91 |
| NAPHTHALENE | ND | 1.8 | 0.91 |
| PHENANTHRENE | ND | 1.8 | 0.91 |
| PYRENE | 1.3J | 1.8 | 0.91 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.91 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 24 | 18 | 9.0 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.0 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.0 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.0 |
| DIETHYLPHTHALATE | ND | 18 | 9.0 |
| DIMETHYLPHTHALATE | ND | 18 | 9.0 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.91 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 225 | 356.1 | 63.1 | 40-130 |
| 2-FLUOROBIPHENYL | 245 | 356.1 | 68.8 | 45-130 |
| TERPHENYL-D14 | 308 | 356.1 | 86.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-174-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 01:14 |
| Lab Samp ID: D084-05 | Dilution Factor: 1 |
| Lab File ID: RDH297 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 8.4 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)PYRENE | ND | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | 1.3J | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | 1.2J | 1.9 | 0.93 |
| CHRYSENE | ND | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | 1.3J | 1.9 | 0.93 |
| FLUORENE | ND | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | ND | 1.9 | 0.93 |
| PYRENE | 1.3J | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 26 | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | 27 | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 234 | 363.9 | 64.2 | 40-130 |
| 2-FLUOROBIPHENYL | 253 | 363.9 | 69.5 | 45-130 |
| TERPHENYL-D14 | 328 | 363.9 | 90.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-185-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 01:33 |
| Lab Samp ID: D084-06 | Dilution Factor: 1 |
| Lab File ID: RDH298 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 10.2 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)PYRENE | ND | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.95 |
| CHRYSENE | ND | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | ND | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.95 |
| NAPHTHALENE | ND | 1.9 | 0.95 |
| PHENANTHRENE | ND | 1.9 | 0.95 |
| PYRENE | ND | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 26 | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 206 | 371.2 | 55.4 | 40-130 |
| 2-FLUOROBIPHENYL | 240 | 371.2 | 64.7 | 45-130 |
| TERPHENYL-D14 | 324 | 371.2 | 87.4 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 11:42 |
| Sample ID: SL-191-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 01:52 |
| Lab Samp ID: D084-07 | Dilution Factor: 1 |
| Lab File ID: RDH299 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 8.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)PYRENE | ND | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.93 |
| CHRYSENE | ND | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | ND | 1.9 | 0.93 |
| FLUORENE | ND | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | ND | 1.9 | 0.93 |
| PYRENE | ND | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 21 | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 182 | 364.7 | 50.0 | 40-130 |
| 2-FLUOROBIPHENYL | 191 | 364.7 | 52.4 | 45-130 |
| TERPHENYL-D14 | 308 | 364.7 | 84.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 11:42 |
| Sample ID: DUP-06-NBZ-QC-040912 | Date Analyzed: 04/18/12 02:10 |
| Lab Samp ID: D084-08 | Dilution Factor: 1 |
| Lab File ID: RDH300 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : 7.6 |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | 2.3 | 1.8 | 0.92 |
| ACENAPHTHYLENE | 2.3 | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | 1.3J | 1.8 | 0.92 |
| FLUORENE | 2.0 | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | 2.0 | 1.8 | 0.92 |
| PHENANTHRENE | 1.2J | 1.8 | 0.92 |
| PYRENE | 1.1J | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | 2.0 | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | 2.2 | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 16J | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | 2.7 | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 167 | 360.7 | 46.2 | 40-130 |
| 2-FLUOROBIPHENYL | 188 | 360.7 | 52.0 | 45-130 |
| TERPHENYL-D14 | 352 | 360.7 | 97.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 11:42 |
| Sample ID: MBLK1S | Date Analyzed: 04/17/12 17:10 |
| Lab Samp ID: SVD031SB | Dilution Factor: 1 |
| Lab File ID: RDH271 | Matrix : SOIL |
| Ext Btch ID: SVD031S | % Moisture : NA |
| Calib. Ref.: RCH007 | Instrument ID : T-OE7 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 276 | 333.3 | 82.7 | 40-130 |
| 2-FLUOROBIPHENYL | 285 | 333.3 | 85.4 | 45-130 |
| TERPHENYL-D14 | 302 | 333.3 | 90.7 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVD031SB | SVD031SX | SVD031SY | | |
| LAB FILE ID: | RDH271 | RDH274 | RDH275 | | |
| DATE EXTRACTED: | 04/17/1211:42 | 04/17/1211:42 | 04/17/1211:42 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/17/1217:10 | 04/17/1218:06 | 04/17/1218:24 | DATE RECEIVED: | 04/17/12 |
| PREP. BATCH: | SVD031S | SVD031S | SVD031S | | |
| CALIB. REF: | RCH007 | RCH007 | RCH007 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 344 | 103 | 333 | 293 | 88 | 16 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 370 | 111 | 333 | 312 | 94 | 17 | 20-130 | 50 |
| Anthracene | ND | 333 | 292 | 88 | 333 | 244 | 73 | 18 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 310 | 93 | 333 | 264 | 79 | 16 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 334 | 100 | 333 | 275 | 83 | 19 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 354 | 106 | 333 | 287 | 86 | 21 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 360 | 108 | 333 | 307 | 92 | 16 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 393 | 118 | 333 | 326 | 98 | 19 | 30-140 | 50 |
| Chrysene | ND | 333 | 308 | 92 | 333 | 263 | 79 | 16 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 363 | 109 | 333 | 301 | 90 | 18 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 333 | 100 | 333 | 273 | 82 | 20 | 30-130 | 50 |
| Fluorene | ND | 333 | 359 | 108 | 333 | 304 | 91 | 17 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 379 | 114 | 333 | 315 | 94 | 19 | 20-160 | 50 |
| Naphthalene | ND | 333 | 302 | 91 | 333 | 262 | 78 | 14 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 291 | 87 | 333 | 244 | 73 | 17 | 20-130 | 50 |
| Pyrene | ND | 333 | 315 | 95 | 333 | 258 | 77 | 20 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 316 | 95 | 333 | 272 | 82 | 15 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 328 | 99 | 333 | 282 | 85 | 15 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 283 | 85 | 333 | 234 | 70 | 19 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 280 | 84 | 333 | 229 | 69 | 20 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 286 | 86 | 333 | 234 | 70 | 20 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 281 | 84 | 333 | 224 | 67 | 23 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 335 | 101 | 333 | 281 | 84 | 18 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 354 | 106 | 333 | 296 | 89 | 18 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 343 | 103 | 333 | 297 | 89 | 14 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 269 | 81 | 333 | 259 | 78 | 40-130 |
| 2-Fluorobiphenyl | 333 | 280 | 84 | 333 | 272 | 82 | 45-130 |
| Terphenyl-d14 | 333 | 294 | 88 | 333 | 279 | 84 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: 8.6
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-191-NBZ-SS-0.0-0.5
LAB SAMP ID: D084-07 D084-07M D084-07S
LAB FILE ID: RDH299 RDH278 RDH279
DATE EXTRACTED: 04/17/1211:42 04/17/1211:42 04/17/1211:42 DATE COLLECTED: 04/09/12
DATE ANALYZED: 04/18/1201:52 04/17/1219:20 04/17/1219:39 DATE RECEIVED: 04/09/12
PREP. BATCH: SVD031S SVD031S SVD031S
CALIB. REF: RCH007 RCH007 RCH007

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 365 | 302 | 83 | 365 | 268 | 74 | 12 | 10-130 | 50 |
| Acenaphthylene | ND | 365 | 323 | 89 | 365 | 288 | 79 | 12 | 20-130 | 50 |
| Anthracene | ND | 365 | 267 | 73 | 365 | 248 | 68 | 7 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 365 | 332 | 91 | 365 | 314 | 86 | 5 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 365 | 304 | 83 | 365 | 279 | 77 | 8 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 365 | 347 | 95 | 365 | 317 | 87 | 9 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 365 | 320 | 88 | 365 | 308 | 84 | 4 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 365 | 353 | 97 | 365 | 331 | 91 | 7 | 30-140 | 50 |
| Chrysene | ND | 365 | 328 | 90 | 365 | 313 | 86 | 5 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 365 | 332 | 91 | 365 | 310 | 85 | 7 | 30-130 | 50 |
| Fluoranthene | ND | 365 | 333 | 91 | 365 | 317 | 87 | 5 | 30-130 | 50 |
| Fluorene | ND | 365 | 315 | 86 | 365 | 287 | 79 | 9 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 365 | 345 | 95 | 365 | 323 | 89 | 7 | 20-160 | 50 |
| Naphthalene | ND | 365 | 248 | 68 | 365 | 217 | 59 | 13 | 10-130 | 50 |
| Phenanthrene | ND | 365 | 272 | 75 | 365 | 255 | 70 | 6 | 20-130 | 50 |
| Pyrene | ND | 365 | 318 | 87 | 365 | 300 | 82 | 6 | 10-160 | 50 |
| 2-Methylnaphthalene | ND | 365 | 274 | 75 | 365 | 240 | 66 | 13 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 365 | 285 | 78 | 365 | 250 | 68 | 13 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | 20.8 | 365 | 315 | 81 | 365 | 291 | 74 | 8 | 20-150 | 50 |
| Butylbenzylphthalate | ND | 365 | 310 | 85 | 365 | 291 | 80 | 6 | 20-150 | 50 |
| Di-n-butylphthalate | ND | 365 | 281 | 77 | 365 | 263 | 72 | 7 | 20-150 | 50 |
| Di-n-octylphthalate | ND | 365 | 281 | 77 | 365 | 261 | 71 | 8 | 10-150 | 50 |
| Diethylphthalate | ND | 365 | 294 | 80 | 365 | 275 | 76 | 6 | 20-150 | 50 |
| Dimethylphthalate | ND | 365 | 305 | 84 | 365 | 278 | 76 | 9 | 20-150 | 50 |
| N-Nitrosodimethylamine | ND | 365 | 314 | 86 | 365 | 288 | 79 | 9 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 365 | 276 | 76 | 365 | 227 | 62 | 40-130 |
| 2-Fluorobiphenyl | 365 | 281 | 77 | 365 | 227 | 62 | 45-130 |
| Terphenyl-d14 | 365 | 347 | 95 | 365 | 302 | 83 | 45-135 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 10:10 |
| Sample ID: SL-001-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 20:11 |
| Lab Samp ID: D084-01 | Dilution Factor: 1 |
| Lab File ID: LD18094A | Matrix : SOIL |
| Ext Btch ID: DSD029S | % Moisture : 11.6 |
| Calib. Ref.: LD18092A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.57 |
| EFH(C12-C14) | ND | 1.1 | 0.57 |
| EFH(C15-C20) | 0.57J | 1.1 | 0.57 |
| EFH(C21-C30) | 10 | 1.1 | 0.57 |
| EFH(C30-C40) | 20 | 1.1 | 0.57 |
| TOTAL EFH(C8-C40) | 31 | 1.1 | 0.57 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.93 | 11.31 | 61.3 | 50-150 |
| HEXACOSANE | 2.54 | 2.828 | 89.8 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 10:10 |
| Sample ID: MBLK1S | Date Analyzed: 04/19/12 18:28 |
| Lab Samp ID: DSD029SB | Dilution Factor: 1 |
| Lab File ID: LD18088A | Matrix : SOIL |
| Ext Btch ID: DSD029S | % Moisture : NA |
| Calib. Ref.: LD18080A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.11 | 10.00 | 71.1 | 50-150 |
| HEXACOSANE | 2.01 | 2.500 | 80.4 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSD029SB | DSD029SL | DSD029SC | | |
| LAB FILE ID: | LD18088A | LD18086A | LD18087A | | |
| DATE EXTRACTED: | 04/17/1210:10 | 04/17/1210:10 | 04/17/1210:10 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/19/1218:28 | 04/19/1217:54 | 04/19/1218:11 | DATE RECEIVED: | 04/17/12 |
| PREP. BATCH: | DSD029S | DSD029S | DSD029S | | |
| CALIB. REF: | LD18080A | LD18080A | LD18080A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 39.1 | 78 | 50.0 | 40.3 | 81 | 3 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 6.05 | 61 | 10.0 | 6.51 | 65 | 50-150 |
| Hexacosane | 2.50 | 2.04 | 82 | 2.50 | 2.08 | 83 | 50-150 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/14/12 10:52 |
| Sample ID: SL-001-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 02:42 |
| Lab Samp ID: D084-01 | Dilution Factor: 1 |
| Lab File ID: LD19042A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : 11.6 |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.56\|(ND) | 0.19 | 0.096\|0.096 |
| GAMMA-BHC (LINDANE) | (ND)\|0.50 | 0.19 | 0.096\|0.096 |
| BETA-BHC | (ND)\|ND | 0.19 | 0.096\|0.096 |
| HEPTACHLOR | 0.44\|(ND) | 0.19 | 0.096\|0.096 |
| DELTA-BHC | (ND)\|ND | 0.19 | 0.096\|0.096 |
| ALDRIN | 0.58\|(ND) | 0.19 | 0.096\|0.096 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.19 | 0.096\|0.096 |
| ENDOSULFAN I | (ND)\|ND | 0.19 | 0.096\|0.096 |
| 4,4'-DDE | (0.56)\|0.24J | 0.38 | 0.19\|0.19 |
| DIELDRIN | 0.45\|(ND) | 0.38 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.38 | 0.19\|0.19 |
| 4,4'-DDD | 0.47\|(0.56) | 0.38 | 0.19\|0.19 |
| ENDOSULFAN II | (ND)\|ND | 0.38 | 0.19\|0.19 |
| 4,4'-DDT | (ND)\|0.42 | 0.38 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | 0.32J\|(ND) | 0.38 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| METHOXYCHLOR | (ND)\|ND | 1.9 | 0.96\|0.96 |
| MIREX | (ND)\|ND | 0.38 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.5 | 3.7\|3.7 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.146\|(6.519) | 6.033 | 85.3\|(108) | 50-130 |
| DECACHLOROBIPHENYL | 4.216\|(5.453) | 6.033 | 69.9\|(90.4) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/14/12 10:52 |
| Sample ID: SL-151-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 03:03 |
| Lab Samp ID: D084-02 | Dilution Factor: 1 |
| Lab File ID: LD19043A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : 9.5 |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.27 | 0.19 | 0.094 \| 0.094 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| HEPTACHLOR | 0.51 \| (ND) | 0.19 | 0.094 \| 0.094 |
| DELTA-BHC | (ND) \| 1.4 | 0.19 | 0.094 \| 0.094 |
| ALDRIN | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| HEPTACHLOR EPOXIDE | 0.45 \| (ND) | 0.19 | 0.094 \| 0.094 |
| ENDOSULFAN I | (ND) \| 2.5 | 0.19 | 0.094 \| 0.094 |
| 4,4'-DDE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| 1.3 | 0.38 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDD | (0.34J) \| 8.1 | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN II | (3.3) \| 0.99 | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDT | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| 0.74 | 0.38 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| 2.8 | 1.9 | 0.94 \| 0.94 |
| MIREX | 0.24J \| (ND) | 0.38 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.3 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.8 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.272 \| (6.915) | 5.893 | 89.5 \| (117) | 50-130 |
| DECACHLOROBIPHENYL | 4.148 \| (5.981) | 5.893 | 70.4 \| (102) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/14/12 10:52 |
| Sample ID: SL-157-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 03:25 |
| Lab Samp ID: D084-03 | Dilution Factor: 1 |
| Lab File ID: LD19044A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : 9.1 |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 1.0 \| (ND) | 0.19 | 0.094 \| 0.094 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| HEPTACHLOR | 0.86 \| (ND) | 0.19 | 0.094 \| 0.094 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| ALDRIN | (ND) \| ND | 0.19 | 0.094 \| 0.094 |
| HEPTACHLOR EPOXIDE | 0.35 \| (ND) | 0.19 | 0.094 \| 0.094 |
| ENDOSULFAN I | (ND) \| 0.25 | 0.19 | 0.094 \| 0.094 |
| 4,4'-DDE | (1.3) \| 1.0 | 0.37 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDD | (0.93) \| 0.42 | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN II | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDT | (2.4) \| 1.7 | 0.37 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| 0.21J | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| METHOXYCHLOR | 1.6J \| (ND) | 1.9 | 0.94 \| 0.94 |
| MIREX | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.3 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (5.543) \| 9.066 | 5.867 | (94.5) \| 155* | 50-130 |
| DECACHLOROBIPHENYL | 4.552 \| (5.324) | 5.867 | 77.6 \| (90.7) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/14/12 10:52 |
| Sample ID: SL-167-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 03:46 |
| Lab Samp ID: D084-04 | Dilution Factor: 1 |
| Lab File ID: LD19045A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : 6.4 |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| BETA-BHC | 2.3 \| (ND) | 0.18 | 0.091 \| 0.091 |
| HEPTACHLOR | 0.21 \| (ND) | 0.18 | 0.091 \| 0.091 |
| DELTA-BHC | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| ALDRIN | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| HEPTACHLOR EPOXIDE | 0.18J \| (ND) | 0.18 | 0.091 \| 0.091 |
| ENDOSULFAN I | (ND) \| ND | 0.18 | 0.091 \| 0.091 |
| 4,4'-DDE | (0.62) \| 0.31J | 0.36 | 0.18 \| 0.18 |
| DIELDRIN | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| ENDRIN | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| 4,4'-DDD | 0.25J \| (ND) | 0.36 | 0.18 \| 0.18 |
| ENDOSULFAN II | 1.1 \| (ND) | 0.36 | 0.18 \| 0.18 |
| 4,4'-DDT | (0.59) \| 0.24J | 0.36 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | 2.7 \| (ND) | 0.36 | 0.18 \| 0.18 |
| ENDRIN KETONE | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| METHOXYCHLOR | (ND) \| 1.7J | 1.8 | 0.91 \| 0.91 |
| MIREX | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 7.1 | 3.5 \| 3.5 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.6 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (5.648) \| 7.939 | 5.698 | (99.1) \| 139* | 50-130 |
| DECACHLOROBIPHENYL | 4.094 \| (5.034) | 5.698 | 71.9 \| (88.4) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/14/12 10:52 |
| Sample ID: SL-174-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 04:07 |
| Lab Samp ID: D084-05 | Dilution Factor: 1 |
| Lab File ID: LD19046A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : 8.4 |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.48\|(ND) | 0.19 | 0.093\|0.093 |
| GAMMA-BHC (LINDANE) | (ND)\|0.69 | 0.19 | 0.093\|0.093 |
| BETA-BHC | (ND)\|ND | 0.19 | 0.093\|0.093 |
| HEPTACHLOR | (ND)\|ND | 0.19 | 0.093\|0.093 |
| DELTA-BHC | (ND)\|0.35 | 0.19 | 0.093\|0.093 |
| ALDRIN | (ND)\|ND | 0.19 | 0.093\|0.093 |
| HEPTACHLOR EPOXIDE | 1.2\|(ND) | 0.19 | 0.093\|0.093 |
| ENDOSULFAN I | 0.59\|(ND) | 0.19 | 0.093\|0.093 |
| 4,4'-DDE | (0.79)\|0.45 | 0.37 | 0.19\|0.19 |
| DIELDRIN | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.37 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDOSULFAN II | 0.42\|(ND) | 0.37 | 0.19\|0.19 |
| 4,4'-DDT | (0.54)\|0.34J | 0.37 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| METHOXYCHLOR | (ND)\|3.0 | 1.9 | 0.93\|0.93 |
| MIREX | (ND)\|0.24J | 0.37 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.2 | 3.6\|3.6 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.417\|(7.467) | 5.822 | 93.0\|(128) | 50-130 |
| DECACHLOROBIPHENYL | 4.062\|(5.327) | 5.822 | 69.8\|(91.5) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/14/12 10:52 |
| Sample ID: SL-185-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 04:29 |
| Lab Samp ID: D084-06 | Dilution Factor: 1 |
| Lab File ID: LD19047A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : 10.2 |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|1.1 | 0.19 | 0.095\|0.095 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.19 | 0.095\|0.095 |
| BETA-BHC | (ND)\|ND | 0.19 | 0.095\|0.095 |
| HEPTACHLOR | (ND)\|0.44 | 0.19 | 0.095\|0.095 |
| DELTA-BHC | (ND)\|ND | 0.19 | 0.095\|0.095 |
| ALDRIN | (ND)\|ND | 0.19 | 0.095\|0.095 |
| HEPTACHLOR EPOXIDE | (ND)\|0.39 | 0.19 | 0.095\|0.095 |
| ENDOSULFAN I | (ND)\|ND | 0.19 | 0.095\|0.095 |
| 4,4'-DDE | (ND)\|0.30J | 0.38 | 0.19\|0.19 |
| DIELDRIN | (ND)\|0.46 | 0.38 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.38 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDOSULFAN II | (ND)\|ND | 0.38 | 0.19\|0.19 |
| 4,4'-DDT | 0.23J\|(0.47) | 0.38 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| METHOXYCHLOR | (ND)\|1.0J | 1.9 | 0.95\|0.95 |
| MIREX | (ND)\|ND | 0.38 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.3 | 3.7\|3.7 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (7.361)\|6.787 | 5.939 | (124)\|114 | 50-130 |
| DECACHLOROBIPHENYL | (5.597)\|4.254 | 5.939 | (94.2)\|71.6 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/14/12 10:52 |
| Sample ID: SL-191-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 06:34 |
| Lab Samp ID: D084-07 | Dilution Factor: 1 |
| Lab File ID: LD19053A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : 8.6 |
| Calib. Ref.: LD19049A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.75 | 0.19 | 0.093 \| 0.093 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.32 | 0.19 | 0.093 \| 0.093 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| HEPTACHLOR | 0.61 \| (ND) | 0.19 | 0.093 \| 0.093 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| ALDRIN | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| HEPTACHLOR EPOXIDE | 1.7 \| (ND) | 0.19 | 0.093 \| 0.093 |
| ENDOSULFAN I | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| 4,4'-DDE | 0.31J \| (ND) | 0.37 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| 0.22J | 0.37 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN II | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDT | (ND) \| 0.30J | 0.37 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | 0.42 \| (ND) | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| 1.5J | 1.9 | 0.93 \| 0.93 |
| MIREX | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.2 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (5.410) \| 7.726 | 5.835 | (92.7) \| 132* | 50-130 |
| DECACHLOROBIPHENYL | 4.891 \| (5.903) | 5.835 | 83.8 \| (101) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/14/12 10:52 |
| Sample ID: DUP-06-NBZ-QC-040912 | Date Analyzed: 04/20/12 07:38 |
| Lab Samp ID: D084-08 | Dilution Factor: 1 |
| Lab File ID: LD19056A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : 7.6 |
| Calib. Ref.: LD19049A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.25 | 0.18 | 0.092 \| 0.092 |
| BETA-BHC | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR | 0.42 \| (ND) | 0.18 | 0.092 \| 0.092 |
| DELTA-BHC | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| ALDRIN | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR EPOXIDE | 1.2 \| (ND) | 0.18 | 0.092 \| 0.092 |
| ENDOSULFAN I | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| 4,4'-DDE | 0.29J \| (ND) | 0.37 | 0.18 \| 0.18 |
| DIELDRIN | (ND) \| 0.49 | 0.37 | 0.18 \| 0.18 |
| ENDRIN | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDD | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN II | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDT | 0.20J \| (0.44) | 0.37 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDRIN KETONE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| METHOXYCHLOR | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| MIREX | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 7.1 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 6.267 \| (6.967) | 5.772 | 109 \| (121) | 50-130 |
| DECACHLOROBIPHENYL | 4.784 \| (5.397) | 5.772 | 82.9 \| (93.5) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/14/12 |
| Batch No. : 12D084 | Date Extracted: 04/14/12 10:52 |
| Sample ID: MBLK1S | Date Analyzed: 04/19/12 21:20 |
| Lab Samp ID: CPD034SB | Dilution Factor: 1 |
| Lab File ID: LD19027A | Matrix : SOIL |
| Ext Btch ID: CPD034S | % Moisture : NA |
| Calib. Ref.: LD19019A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.11J | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.445\|(6.387) | 5.333 | 83.4\|(120) | 50-130 |
| DECACHLOROBIPHENYL | 4.764\|(5.308) | 5.333 | 89.3\|(99.5) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPD034SB CPD034SL CPD034SC
LAB FILE ID: LD19027A LD19028A LD19029A
DATE EXTRACTED: 04/14/1210:52 04/14/1210:52 04/14/1210:52 DATE COLLECTED: NA
DATE ANALYZED: 04/19/1221:20 04/19/1221:42 04/19/1222:03 DATE RECEIVED: 04/14/12
PREP. BATCH: CPD034S CPD034S CPD034S
CALIB. REF: LD19019A LD19019A LD19019A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|0.11J | 2.67 | (2.36)\|3.43 | (88)\|128 | 2.67 | (2.44)\|3.60 | (91)\|135 | (3)\|5 | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|ND | 2.67 | 2.67\|(3.19) | 100\|(119) | 2.67 | 2.83\|(3.34) | 106\|(125) | 6\|(5) | 40-130 | 50 |
| beta-BHC | (ND)\|ND | 2.67 | 2.27\|(2.54) | 85\|(95) | 2.67 | 2.46\|(2.61) | 92\|(98) | 8\|(3) | 50-140 | 50 |
| Heptachlor | (ND)\|ND | 2.67 | 3.14\|(3.37) | 118\|(126) | 2.67 | (3.29)\|3.25 | (123)\|122 | (5)\|4 | 30-130 | 50 |
| delta-BHC | (ND)\|ND | 2.67 | 3.12\|(3.43) | 117\|(128) | 2.67 | 3.22\|(3.32) | 121\|(124) | 3\|(3) | 30-150 | 50 |
| Aldrin | (ND)\|ND | 2.67 | 2.57\|(2.96) | 96\|(111) | 2.67 | 2.72\|(2.78) | 102\|(104) | 6\|(6) | 30-130 | 50 |
| Heptachlor Epoxide | (ND)\|ND | 2.67 | 2.73\|(2.82) | 102\|(106) | 2.67 | 2.54\|(2.74) | 95\|(103) | 7\|(3) | 60-140 | 50 |
| Endosulfan I | (ND)\|ND | 2.67 | 2.33\|(2.81) | 87\|(105) | 2.67 | 2.28\|(2.75) | 85\|(103) | 2\|(2) | 50-150 | 50 |
| 4,4'-DDE | (ND)\|ND | 2.67 | 2.87\|(2.88) | 107\|(108) | 2.67 | 2.91\|(2.99) | 109\|(112) | 1\|(4) | 50-150 | 50 |
| Dieldrin | (ND)\|ND | 2.67 | (3.12)\|2.77 | (117)\|104 | 2.67 | (2.90)\|2.69 | (109)\|101 | (7)\|3 | 60-130 | 50 |
| Endrin | (ND)\|ND | 2.67 | 2.73\|(2.86) | 102\|(107) | 2.67 | 2.67\|(2.82) | 100\|(106) | 2\|(1) | 50-140 | 50 |
| 4,4'-DDD | (ND)\|ND | 2.67 | 2.76\|(2.77) | 103\|(104) | 2.67 | 2.53\|(2.78) | 95\|(104) | 9\|(0) | 50-160 | 50 |
| Endosulfan II | (ND)\|ND | 2.67 | 2.75\|(3.05) | 103\|(114) | 2.67 | 2.81\|(2.99) | 105\|(112) | 2\|(2) | 60-150 | 50 |
| 4,4'-DDT | (ND)\|ND | 2.67 | (3.30)\|3.14 | (124)\|118 | 2.67 | (3.39)\|3.19 | (127)\|119 | (3)\|2 | 60-140 | 50 |
| Endrin aldehyde | (ND)\|ND | 2.67 | 2.57\|(2.82) | 96\|(106) | 2.67 | 2.68\|(2.91) | 100\|(109) | 4\|(3) | 50-160 | 50 |
| Endosulfan Sulfate | (ND)\|ND | 2.67 | 2.93\|(3.12) | 110\|(117) | 2.67 | 3.00\|(3.19) | 112\|(119) | 2\|(2) | 70-140 | 50 |
| Endrin Ketone | (ND)\|ND | 2.67 | 2.82\|(2.84) | 106\|(106) | 2.67 | 2.90\|(2.91) | 109\|(109) | 3\|(2) | 70-160 | 50 |
| Methoxychlor | (ND)\|ND | 26.7 | 27.5\|(30.0) | 103\|(112) | 26.7 | 27.5\|(30.2) | 103\|(113) | 0\|(1) | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 4.865\|(6.072) | 91.2\|(114) | 5.333 | 4.957\|(6.191) | 93.0\|(116) | 50-130 |
| Decachlorobiphenyl | 5.333 | 4.978\|(5.460) | 93.3\|(102) | 5.333 | 4.936\|(5.391) | 92.6\|(101) | 20-120 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: 8.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-191-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D084-07 | D084-07M | D084-07S | | |
| LAB FILE ID: | LD19053A | LD19054A | LD19055A | | |
| DATE EXTRACTED: | 04/14/1210:52 | 04/14/1210:52 | 04/14/1210:52 | DATE COLLECTED: | 04/09/12 |
| DATE ANALYZED: | 04/20/1206:34 | 04/20/1206:55 | 04/20/1207:17 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | CPD034S | CPD034S | CPD034S | | |
| CALIB. REF: | LD19049A | LD19049A | LD19049A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|0.75 | 2.92 | (3.85)\|4.11 | (132)\|115 | 2.92 | (3.64)\|3.94 | (125)\|109 | (6)\|4 | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|0.32 | 2.92 | (3.30)\|3.87 | (113)\|122 | 2.92 | (3.18)\|3.71 | (109)\|116 | (4)\|4 | 20-150 | 50 |
| beta-BHC | ND\|(ND) | 2.92 | 4.25\|(3.68) | 145*\|(126) | 2.92 | 4.31\|(3.76) | 148*\|(129) | 1\|(2) | 50-140 | 50 |
| Heptachlor | 0.61\|(ND) | 2.92 | 3.62\|(2.91) | 103\|(100) | 2.92 | 3.38\|(2.82) | 95\|(97) | 7\|(3) | 20-140 | 50 |
| delta-BHC | (ND)\|ND | 2.92 | (3.94)\|2.93 | (135)\|100 | 2.92 | (3.90)\|2.89 | (134)\|99 | (1)\|1 | 30-150 | 50 |
| Aldrin | (ND)\|ND | 2.92 | (2.96)\|2.89 | (101)\|99 | 2.92 | (2.80)\|2.77 | (96)\|95 | (6)\|4 | 20-160 | 50 |
| Heptachlor Epoxide | 1.7\|(ND) | 2.92 | 3.17\|(2.92) | 50\|(100) | 2.92 | 3.71\|(2.91) | 69\|(100) | 16\|(0) | 40-140 | 50 |
| Endosulfan I | (ND)\|ND | 2.92 | 1.79\|(2.81) | 61\|(96) | 2.92 | 2.37\|(2.82) | 81\|(97) | 28\|(0) | 50-160 | 50 |
| 4,4'-DDE | 0.31J\|(ND) | 2.92 | 2.44\|(2.90) | 73\|(99) | 2.92 | 2.97\|(2.88) | 91\|(99) | 20\|(1) | 50-150 | 50 |
| Dieldrin | (ND)\|0.22J | 2.92 | (3.08)\|3.19 | (105)\|102 | 2.92 | (3.03)\|3.44 | (104)\|110 | (2)\|8 | 10-160 | 50 |
| Endrin | (ND)\|ND | 2.92 | 2.71\|(2.99) | 93\|(102) | 2.92 | 2.67\|(3.10) | 91\|(106) | 1\|(4) | 20-160 | 50 |
| 4,4'-DDD | (ND)\|ND | 2.92 | 2.60\|(2.85) | 89\|(98) | 2.92 | 2.60\|(2.81) | 89\|(96) | 0\|(1) | 50-160 | 50 |
| Endosulfan II | (ND)\|ND | 2.92 | 2.92\|(3.02) | 100\|(103) | 2.92 | (3.05)\|2.97 | (104)\|102 | (4)\|2 | 40-160 | 50 |
| 4,4'-DDT | (ND)\|0.30J | 2.92 | (3.58)\|3.66 | (123)\|115 | 2.92 | (3.82)\|3.77 | (131)\|119 | (6)\|3 | 30-160 | 50 |
| Endrin aldehyde | 0.42\|(ND) | 2.92 | 3.00\|(2.83) | 88\|(97) | 2.92 | 2.91\|(2.74) | 85\|(94) | 3\|(3) | 50-140 | 50 |
| Endosulfan Sulfate | (ND)\|ND | 2.92 | 2.85\|(3.18) | 98\|(109) | 2.92 | 2.78\|(3.12) | 95\|(107) | 2\|(2) | 40-160 | 50 |
| Endrin Ketone | (ND)\|ND | 2.92 | 2.45\|(2.88) | 84\|(99) | 2.92 | 2.56\|(2.91) | 88\|(100) | 4\|(1) | 50-160 | 50 |
| Methoxychlor | (ND)\|1.5J | 29.2 | (30.0)\|33.3 | (103)\|109 | 29.2 | (29.7)\|33.0 | (102)\|108 | (1)\|1 | 60-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.835 | 5.159\|(7.086) | 88.4\|(121) | 5.835 | 5.173\|(7.169) | 88.7\|(123) | 50-130 |
| Decachlorobiphenyl | 5.835 | 4.687\|(5.455) | 80.3\|(93.5) | 5.835 | 4.758\|(5.323) | 81.5\|(91.2) | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/15/12 13:15 |
| Sample ID: SL-001-NBZ-SS-0.0-0.5 | Date Analyzed: 05/07/12 21:46 |
| Lab Samp ID: D084-01 | Dilution Factor: 1 |
| Lab File ID: KE07015A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : 11.6 |
| Calib. Ref.: KE07003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.950)\|5.861 | 6.033 | (115)\|97.1 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.344)\|4.752 | 6.033 | (122)\|78.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/15/12 13:15 |
| Sample ID: SL-151-NBZ-SS-0.0-0.5 | Date Analyzed: 05/08/12 02:11 |
| Lab Samp ID: D084-02 | Dilution Factor: 1 |
| Lab File ID: KE07020A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : 9.5 |
| Calib. Ref.: KE07017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.362\|(6.371) | 5.893 | 125*\|(108) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.001)\|4.664 | 5.893 | (119)\|79.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/15/12 13:15 |
| Sample ID: SL-157-NBZ-SS-0.0-0.5 | Date Analyzed: 05/08/12 03:04 |
| Lab Samp ID: D084-03 | Dilution Factor: 1 |
| Lab File ID: KE07021A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : 9.1 |
| Calib. Ref.: KE07017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.94\|0.94 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.785\|(6.694) | 5.867 | 133*\|(114) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.032)\|4.500 | 5.867 | (120)\|76.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/15/12 13:15 |
| Sample ID: SL-167-NBZ-SS-0.0-0.5 | Date Analyzed: 05/08/12 03:57 |
| Lab Samp ID: D084-04 | Dilution Factor: 1 |
| Lab File ID: KE07022A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : 6.4 |
| Calib. Ref.: KE07017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.686\|(6.497) | 5.698 | 135*\|(114) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.323)\|4.807 | 5.698 | (129)\|84.4 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/15/12 13:15 |
| Sample ID: SL-174-NBZ-SS-0.0-0.5 | Date Analyzed: 05/08/12 04:50 |
| Lab Samp ID: D084-05 | Dilution Factor: 1 |
| Lab File ID: KE07023A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : 8.4 |
| Calib. Ref.: KE07017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 8.401\|(6.938) | 5.822 | 144*\|(119) | 45-120 |
| TETRACHLORO-M-XYLENE | (8.288)\|5.004 | 5.822 | (142)\|86.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/15/12 13:15 |
| Sample ID: SL-185-NBZ-SS-0.0-0.5 | Date Analyzed: 05/08/12 05:43 |
| Lab Samp ID: D084-06 | Dilution Factor: 1 |
| Lab File ID: KE07024A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : 10.2 |
| Calib. Ref.: KE07017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (11.19)\|8.755 | 5.939 | (188*)\|147* | 45-120 |
| TETRACHLORO-M-XYLENE | 11.49\|(7.483) | 5.939 | 193*\|(126) | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/15/12 13:15 |
| Sample ID: SL-191-NBZ-SS-0.0-0.5 | Date Analyzed: 05/08/12 06:36 |
| Lab Samp ID: D084-07 | Dilution Factor: 1 |
| Lab File ID: KE07025A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : 8.6 |
| Calib. Ref.: KE07017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | 8.8\|(7.5) | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.272\|(6.373) | 5.835 | 125*\|(109) | 45-120 |
| TETRACHLORO-M-XYLENE | (6.647)\|3.864 | 5.835 | (114)\|66.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/15/12 13:15 |
| Sample ID: DUP-06-NBZ-QC-040912 | Date Analyzed: 05/08/12 09:15 |
| Lab Samp ID: D084-08 | Dilution Factor: 1 |
| Lab File ID: KE07028A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : 7.6 |
| Calib. Ref.: KE07017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.417\|(6.296) | 5.772 | 129*\|(109) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.590)\|4.755 | 5.772 | (132)\|82.4 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/15/12 |
| Batch No. : 12D084 | Date Extracted: 04/15/12 13:15 |
| Sample ID: MBLK1S | Date Analyzed: 05/05/12 02:37 |
| Lab Samp ID: 60D037SB | Dilution Factor: 1 |
| Lab File ID: KE03048A | Matrix : SOIL |
| Ext Btch ID: CPD037S | % Moisture : NA |
| Calib. Ref.: KE03040A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.356)\|4.509 | 5.333 | (119)\|84.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.072)\|4.517 | 5.333 | (114)\|84.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60D037SB | 60D037SL | 60D037SC | | |
| LAB FILE ID: | KE03048A | KE03049A | KE03050A | | |
| DATE EXTRACTED: | 04/15/1213:15 | 04/15/1213:15 | 04/15/1213:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/05/1202:37 | 05/05/1203:30 | 05/05/1204:23 | DATE RECEIVED: | 04/15/12 |
| PREP. BATCH: | CPD037S | CPD037S | CPD037S | | |
| CALIB. REF: | KE03040A | KE03040A | KE03040A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | 110\|(63.7) | 165*\|(96) | 66.7 | 67.4\|(48.0) | 101\|(72) | 48\|(28) | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | 156\|(99.9) | 234*\|(150) | 66.7 | 84.1\|(67.1) | 126\|(101) | 60*\|(39) | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | 125\|(97.7) | 187*\|(147) | 66.7 | 60.3\|(52.6) | 90\|(79) | 70*\|(60*) | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | 13.34\|(8.564) | 250*\|(161*) | 5.333 | 6.545\|(4.700) | 123*\|(88.1) | 45-120 |
| Tetrachloro-m-xylene | 5.333 | 9.166\|(5.491) | 172*\|(103) | 5.333 | 6.014\|(4.506) | 113\|(84.5) | 10-160 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 8.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-191-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D084-07 | D084-07M | D084-07S | | |
| LAB FILE ID: | KE07025A | KE07026A | KE07027A | | |
| DATE EXTRACTED: | 04/15/1213:15 | 04/15/1213:15 | 04/15/1213:15 | DATE COLLECTED: | 04/09/12 |
| DATE ANALYZED: | 05/08/1206:36 | 05/08/1207:30 | 05/08/1208:23 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | CPD037S | CPD037S | CPD037S | | |
| CALIB. REF: | KE07017A | KE07017A | KE07017A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 72.9 | 75.4\|(49.5) | 103\|(68) | 72.9 | 78.3\|(52.3) | 107\|(72) | 4\|(6) | 20-160 | 50 |
| Aroclor 1260 | (ND)\|ND | 72.9 | 95.6\|(64.0) | 131\|(88) | 72.9 | 102\|(66.8) | 140\|(92) | 6\|(4) | 20-160 | 50 |
| Aroclor 5460 | 8.8\|(7.5) | 72.9 | 87.0\|(75.9) | 107\|(94) | 72.9 | 90.9\|(77.5) | 113\|(96) | 4\|(2) | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.835 | 7.148\|(6.237) | 122*\|(107) | 5.835 | 7.364\|(6.406) | 126*\|(110) | 45-120 |
| Tetrachloro-m-xylene | 5.835 | 6.873\|(4.049) | 118\|(69.4) | 5.835 | 7.023\|(4.384) | 120\|(75.1) | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 17:49 |
| Sample ID: SL-001-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 22:41 |
| Lab Samp ID: D084-01 | Dilution Factor: 1 |
| Lab File ID: WD18020A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : 11.6 |
| Calib. Ref.: WD18019A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| 2,4,5-T | (ND)\|0.70 | 0.19 | 0.096\|0.096 |
| 2,4,5-TP(SILVEX) | 0.55\|(ND) | 0.19 | 0.096\|0.096 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.68\|0.68 |
| DICHLOROPROP | 1.6J\|(ND) | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (191.4)\|162.6 | 169.7 | (113)\|95.9 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 17:49 |
| Sample ID: SL-151-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 23:02 |
| Lab Samp ID: D084-02 | Dilution Factor: 1 |
| Lab File ID: WD18021A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : 9.5 |
| Calib. Ref.: WD18019A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.94\|0.94 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.094\|0.094 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.094\|0.094 |
| DALAPON | (ND)\|ND | 9.9 | 5.0\|5.0 |
| DICAMBA | (ND)\|ND | 1.3 | 0.66\|0.66 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.94\|0.94 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (195.2)\|140.0 | 165.7 | (118)\|84.5 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 17:49 |
| Sample ID: SL-157-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 23:22 |
| Lab Samp ID: D084-03 | Dilution Factor: 1 |
| Lab File ID: WD18022A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : 9.1 |
| Calib. Ref.: WD18019A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.94\|0.94 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.094\|0.094 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.094\|0.094 |
| DALAPON | (ND)\|ND | 9.9 | 5.0\|5.0 |
| DICAMBA | (ND)\|ND | 1.3 | 0.66\|0.66 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.94\|0.94 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (156.5)\|132.5 | 165.0 | (94.8)\|80.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 17:49 |
| Sample ID: SL-167-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 23:42 |
| Lab Samp ID: D084-04 | Dilution Factor: 1 |
| Lab File ID: WD18023A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : 6.4 |
| Calib. Ref.: WD18019A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.8 | 1.9\|1.9 |
| 2,4-DB | 60\|(ND) | 1.8 | 0.91\|0.91 |
| 2,4,5-T | (ND)\|ND | 0.18 | 0.091\|0.091 |
| 2,4,5-TP(SILVEX) | 45\|(ND) | 0.18 | 0.091\|0.091 |
| DALAPON | (ND)\|15 | 9.6 | 4.8\|4.8 |
| DICAMBA | (ND)\|ND | 1.3 | 0.64\|0.64 |
| DICHLOROPROP | (ND)\|42 | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.8 | 0.91\|0.91 |
| MCPA | (ND)\|ND | 270 | 130\|130 |
| MCPP | (ND)\|ND | 270 | 130\|130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (142.7)\|136.8 | 160.3 | (89.1)\|85.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 17:49 |
| Sample ID: SL-174-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 00:03 |
| Lab Samp ID: D084-05 | Dilution Factor: 1 |
| Lab File ID: WD18024A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : 8.4 |
| Calib. Ref.: WD18019A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| 2,4,5-T | 0.49\|(ND) | 0.19 | 0.093\|0.093 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.093\|0.093 |
| DALAPON | (ND)\|ND | 9.8 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.66\|0.66 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (178.6)\|129.1 | 163.8 | (109)\|78.9 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 17:49 |
| Sample ID: SL-185-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 00:23 |
| Lab Samp ID: D084-06 | Dilution Factor: 1 |
| Lab File ID: WD18025A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : 10.2 |
| Calib. Ref.: WD18019A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.95\|0.95 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.095\|0.095 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.095\|0.095 |
| DALAPON | (ND)\|ND | 10 | 5.0\|5.0 |
| DICAMBA | (ND)\|ND | 1.3 | 0.67\|0.67 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.3\|1.3 |
| DINOSEB | 0.95J\|(ND) | 1.9 | 0.95\|0.95 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (164.0)\|137.2 | 167.0 | (98.2)\|82.2 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 17:49 |
| Sample ID: SL-191-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 00:44 |
| Lab Samp ID: D084-07 | Dilution Factor: 1 |
| Lab File ID: WD18026A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : 8.6 |
| Calib. Ref.: WD18019A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| 2,4,5-T | 0.21\|(ND) | 0.19 | 0.093\|0.093 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.093\|0.093 |
| DALAPON | (ND)\|ND | 9.8 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.66\|0.66 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (227.5)\|154.4 | 164.1 | (139)\|94.1 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 17:49 |
| Sample ID: DUP-06-NBZ-QC-040912 | Date Analyzed: 04/19/12 01:45 |
| Lab Samp ID: D084-08 | Dilution Factor: 1 |
| Lab File ID: WD18029A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : 7.6 |
| Calib. Ref.: WD18019A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 1.9\|1.9 |
| 2,4-DB | (ND)\|ND | 1.8 | 0.92\|0.92 |
| 2,4,5-T | (ND)\|ND | 0.18 | 0.092\|0.092 |
| 2,4,5-TP(SILVEX) | (ND)\|1.0 | 0.18 | 0.092\|0.092 |
| DALAPON | (ND)\|ND | 9.7 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.65\|0.65 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.8 | 0.92\|0.92 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (205.0)\|152.6 | 162.3 | (126)\|94.0 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D084 | Date Extracted: 04/17/12 17:49 |
| Sample ID: MBLK1S | Date Analyzed: 04/18/12 16:55 |
| Lab Samp ID: HED008SB | Dilution Factor: 1 |
| Lab File ID: WD18003A | Matrix : SOIL |
| Ext Btch ID: HED008S | % Moisture : NA |
| Calib. Ref.: WD18002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | 13\|(ND) | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (149.3)\|113.3 | 150.0 | (99.6)\|75.6 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HED008SB | HED008SL | HED008SC | | |
| LAB FILE ID: | WD18003A | WD18004A | WD18005A | | |
| DATE EXTRACTED: | 04/17/1217:49 | 04/17/1217:49 | 04/17/1217:49 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/18/1216:55 | 04/18/1217:16 | 04/18/1217:36 | DATE RECEIVED: | 04/17/12 |
| PREP. BATCH: | HED008S | HED008S | HED008S | | |
| CALIB. REF: | WD18002A | WD18002A | WD18002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | (16.5)\|14.3 | (110)\|95 | 15.0 | (17.5)\|15.4 | (117)\|103 | (6)\|7 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 14.5\|(15.2) | 97\|(101) | 15.0 | 13.3\|(20.0) | 89\|(133) | 9\|(27) | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | (16.0)\|14.8 | (107)\|99 | 15.0 | 16.0\|(16.8) | 107\|(112) | 0\|(13) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | 13\|(ND) | 15.0 | (16.0)\|14.6 | (107)\|97 | 15.0 | 17.7\|(18.7) | 118\|(125) | 10\|(25) | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | 9.33\|(11.1) | 62\|(74) | 15.0 | 7.85J\|(8.08J) | 52\|(54) | 17\|(31) | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (15.4)\|13.2 | (103)\|88 | 15.0 | (16.3)\|13.5 | (109)\|90 | (6)\|2 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | (16.9)\|16.4 | (113)\|109 | 15.0 | (17.5)\|17.1 | (117)\|114 | (3)\|4 | 60-160 | 50 |
| Dinoseb | (ND)\|ND | 15.0 | (10.4)\|9.75 | (69)\|65 | 15.0 | 12.9\|(14.0) | 86\|(93) | 21\|(36) | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (788)\|631 | (105)\|84 | 750 | (791)\|675 | (105)\|90 | (0)\|7 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | (729)\|542 | (97)\|72 | 750 | (795)\|530 | (106)\|71 | (9)\|2 | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 (166.4)\|130.7 | (111)\|87.1 | 150.0 | (169.3)\|134.8 | (113)\|89.9 | 10-150 | |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: 8.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-191-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D084-07 | D084-07M | D084-07S | | |
| LAB FILE ID: | WD18026A | WD18027A | WD18028A | | |
| DATE EXTRACTED: | 04/17/1217:49 | 04/17/1217:49 | 04/17/1217:49 | DATE COLLECTED: | 04/09/12 |
| DATE ANALYZED: | 04/19/1200:44 | 04/19/1201:04 | 04/19/1201:24 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | HED008S | HED008S | HED008S | | |
| CALIB. REF: | WD18019A | WD18019A | WD18019A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 16.4 | (19.5)\|14.9 | (119)\|91 | 16.4 | (17.2)\|13.3 | (105)\|81 | (13)\|11 | 30-140 | 50 |
| 2,4-DB | (ND)\|ND | 16.4 | (16.4)\|12.3 | (100)\|75 | 16.4 | (17.8)\|13.8 | (108)\|84 | (8)\|11 | 30-160 | 50 |
| 2,4,5-T | 0.21\|(ND) | 16.4 | 15.4\|(17.6) | 93\|(107) | 16.4 | 14.4\|(14.5) | 86\|(88) | 7\|(19) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 16.4 | 16.1\|(17.3) | 98\|(105) | 16.4 | 15.0\|(16.3) | 91\|(99) | 7\|(6) | 30-150 | 50 |
| Dalapon | (ND)\|ND | 16.4 | 9.09J\|(13.0) | 55\|(79) | 16.4 | 7.41J\|(10.2) | 45\|(62) | 20\|(24) | 10-160 | 50 |
| Dicamba | (ND)\|ND | 16.4 | (18.1)\|14.2 | (110)\|87 | 16.4 | (17.1)\|15.3 | (104)\|93 | (6)\|7 | 50-130 | 50 |
| Dichloroprop | (ND)\|ND | 16.4 | (20.0)\|18.6 | (122)\|113 | 16.4 | (17.4)\|16.0 | (106)\|97 | (14)\|15 | 60-150 | 50 |
| Dinoseb | (ND)\|ND | 16.4 | (11.4)\|7.74 | (69)\|47 | 16.4 | (8.31)\|7.70 | (51)\|47 | (31)\|1 | 10-130 | 50 |
| MCPA | (ND)\|ND | 821 | (825)\|581 | (101)\|71 | 821 | (1120)\|657 | (136)\|80 | (30)\|12 | 10-160 | 50 |
| MCPP | (ND)\|ND | 821 | (878)\|700 | (107)\|85 | 821 | (948)\|633 | (116)\|77 | (8)\|10 | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 164.1 | (211.1)\|150.8 | (129)\|91.9 | 164.1 | (191.4)\|137.6 | (117)\|83.9 | 10-150 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/12/12 19:33 |
| Sample ID: SL-001-NBZ-SS-0.0-0.5 | Date Analyzed: 04/14/12 00:44 |
| Lab Samp ID: D084-01 | Dilution Factor: 1 |
| Lab File ID: XD13021A | Matrix : SOIL |
| Ext Btch ID: EXD009S | % Moisture : NA |
| Calib. Ref.: XD13013A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1890 | 2000 | 94.5 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D084 | Date Extracted: 04/12/12 19:33 |
| Sample ID: MBLK1S | Date Analyzed: 04/13/12 14:30 |
| Lab Samp ID: EXD009SB | Dilution Factor: 1 |
| Lab File ID: XD13003A | Matrix : SOIL |
| Ext Btch ID: EXD009S | % Moisture : NA |
| Calib. Ref.: XD13002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1890 | 2000 | 94.3 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD009SB | EXD009SL | EXD009SC | | |
| LAB FILE ID: | XD13003A | XD13004A | XD13005A | | |
| DATE EXTRACTED: | 04/12/1219:33 | 04/12/1219:33 | 04/12/1219:33 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/13/1214:30 | 04/13/1215:05 | 04/13/1215:39 | DATE RECEIVED: | 04/12/12 |
| PREP. BATCH: | EXD009S | EXD009S | EXD009S | | |
| CALIB. REF: | XD13002A | XD13002A | XD13002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 1730 | 86 | 2000 | 1710 | 86 | 1 | 70-130 | 50 |
| RDX | ND | 2000 | 1920 | 96 | 2000 | 1940 | 97 | 1 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2080 | 104 | 2000 | 2140 | 107 | 3 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2070 | 103 | 2000 | 2060 | 103 | 1 | 70-130 | 50 |
| Tetryl | ND | 2000 | 2000 | 100 | 2000 | 1980 | 99 | 1 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 2150 | 108 | 2000 | 2120 | 106 | 2 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 1910 | 96 | 2000 | 1910 | 96 | 0 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 1880 | 94 | 2000 | 1850 | 93 | 2 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 1830 | 91 | 2000 | 1790 | 89 | 2 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2070 | 103 | 2000 | 2020 | 101 | 3 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2120 | 106 | 2000 | 2100 | 105 | 1 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 1920 | 96 | 2000 | 1900 | 95 | 1 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1790 | 89 | 2000 | 1870 | 94 | 5 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 1690 | 85 | 2000 | 1820 | 91 | 7 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1920 | 96 | 2000 | 1930 | 96 | 0 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2130 | 106 | 2000 | 2160 | 108 | 1 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1870 | 93 | 2000 | 1920 | 96 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| Batch No. : 12D084 | Date Extracted: 04/12/12 19:33 |
| Sample ID: SL-001-NBZ-SS-0.0-0.5 | Date Analyzed: 04/13/12 19:23 |
| Lab Samp ID: D084-01 | Dilution Factor: 1 |
| Lab File ID: PD13021A | Matrix : SOIL |
| Ext Btch ID: EXD009S | % Moisture : NA |
| Calib. Ref.: PD13013A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2300 | 2000 | 115 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D084 | Date Extracted: 04/12/12 19:33 |
| Sample ID: MBLK1S | Date Analyzed: 04/13/12 15:14 |
| Lab Samp ID: EXD009SB | Dilution Factor: 1 |
| Lab File ID: PD13003A | Matrix : SOIL |
| Ext Btch ID: EXD009S | % Moisture : NA |
| Calib. Ref.: PD13002A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2320 | 2000 | 116 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD009SB | EXD009SX | EXD009SY | | |
| LAB FILE ID: | PD13003A | PD13004A | PD13005A | | |
| DATE EXTRACTED: | 04/12/1219:33 | 04/12/1219:33 | 04/12/1219:33 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/13/1215:14 | 04/13/1215:27 | 04/13/1215:41 | DATE RECEIVED: | 04/12/12 |
| PREP. BATCH: | EXD009S | EXD009S | EXD009S | | |
| CALIB. REF: | PD13002A | PD13002A | PD13002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7360 | 98 | 7500 | 7640 | 102 | 4 | 50-150 | 50 |
| PETN | ND | 7500 | 6980 | 93 | 7500 | 7150 | 95 | 2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2310 | 116 | 2000 | 2280 | 114 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| SDG NO. : 12D084 | Date Extracted: 04/18/12 10:17 |
| Sample ID: SL-001-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 21:10 |
| Lab Samp ID: D084-01 | Dilution Factor: 1.00 |
| Lab File ID: 98D18063 | Matrix : SOIL |
| Ext Btch ID: IMD027S | % Moisture : 11.6 |
| Calib. Ref.: 98D18053 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 15000 | 27.1 | 13.6 |
| Antimony | 0.208J | 0.226 | 0.113 |
| Arsenic | 5.79 | 0.452 | 0.226 |
| Barium | 80.7 | 0.452 | 0.226 |
| Beryllium | 0.560 | 0.113 | 0.0566 |
| Boron | 4.79J | 5.66 | 2.83 |
| Cadmium | 0.222 | 0.113 | 0.0566 |
| Calcium | 8780 | 22.6 | 11.3 |
| Chromium | 19.6 | 0.452 | 0.226 |
| Cobalt | 7.89 | 0.113 | 0.0566 |
| Copper | 13.1 | 0.452 | 0.226 |
| Iron | 25500 | 22.6 | 11.3 |
| Lead | 8.40 | 0.226 | 0.113 |
| Magnesium | 6780 | 11.3 | 5.66 |
| Manganese | 300 | 0.566 | 0.283 |
| Molybdenum | 0.450 | 0.113 | 0.0566 |
| Nickel | 12.8 | 0.452 | 0.226 |
| Potassium | 4030 | 67.9 | 33.9 |
| Selenium | 0.314J | 0.452 | 0.226 |
| Silver | ND | 0.113 | 0.0566 |
| Sodium | 81.7J | 113 | 56.6 |
| Strontium | 45.8 | 0.566 | 0.283 |
| Thallium | 0.319 | 0.113 | 0.0566 |
| Tin | ND | 11.3 | 5.66 |
| Titanium | 973 | 1.13 | 0.566 |
| Vanadium | 42.3 | 0.113 | 0.0566 |
| Zinc | 75.3 | 3.39 | 1.70 |
| Lithium | 32.2 | 2.26 | 1.13 |
| Phosphorus | 561 | 13.6 | 6.79 |
| Zirconium | ND | 5.66 | 2.83 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/09/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/09/12 |
| SDG NO. | : 12D084 | Date Extracted | : 04/18/12 10:17 |
| Sample ID | : SL-151-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 14:38 |
| Lab Samp ID | : D084-02W | Dilution Factor | : 0.971 |
| Lab File ID | : 98D19020 | Matrix | : SOIL |
| Ext Btch ID | : IMD027S | % Moisture | : 9.5 |
| Calib. Ref. | : 98D19017 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 19700 | 25.8 | 12.9 |
| Antimony | 0.289 | 0.215 | 0.107 |
| Arsenic | 12.7 | 0.429 | 0.215 |
| Barium | 124 | 0.429 | 0.215 |
| Beryllium | 1.02 | 0.107 | 0.0536 |
| Boron | 3.94J | 5.36 | 2.68 |
| Cadmium | 0.385 | 0.107 | 0.0536 |
| Calcium | 7640 | 21.5 | 10.7 |
| Chromium | 26.6 | 0.429 | 0.215 |
| Cobalt | 13.3 | 0.107 | 0.0536 |
| Copper | 21.1 | 0.429 | 0.215 |
| Iron | 33900 | 21.5 | 10.7 |
| Lead | 17.3 | 0.215 | 0.107 |
| Magnesium | 7880 | 10.7 | 5.36 |
| Manganese | 423 | 0.536 | 0.268 |
| Molybdenum | 0.577 | 0.107 | 0.0536 |
| Nickel | 21.5 | 0.429 | 0.215 |
| Potassium | 4730 | 64.4 | 32.2 |
| Selenium | 0.428J | 0.429 | 0.215 |
| Silver | 0.132 | 0.107 | 0.0536 |
| Sodium | 83.2J | 107 | 53.6 |
| Strontium | 20.1 | 0.536 | 0.268 |
| Thallium | 0.459 | 0.107 | 0.0536 |
| Tin | ND | 10.7 | 5.36 |
| Titanium | 942 | 1.07 | 0.536 |
| Vanadium | 51.0 | 0.107 | 0.0536 |
| Zinc | 109 | 3.22 | 1.61 |
| Lithium | 49.3 | 2.15 | 1.07 |
| Phosphorus | 674 | 12.9 | 6.44 |
| Zirconium | 2.89J | 5.36 | 2.68 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/09/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/09/12 |
| SDG NO. | : 12D084 | Date Extracted | : 04/18/12 10:17 |
| Sample ID | : SL-157-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 14:43 |
| Lab Samp ID | : D084-03W | Dilution Factor | : 0.971 |
| Lab File ID | : 98D19021 | Matrix | : SOIL |
| Ext Btch ID | : IMD027S | % Moisture | : 9.1 |
| Calib. Ref. | : 98D19017 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12200 | 25.6 | 12.8 |
| Antimony | 0.202J | 0.214 | 0.107 |
| Arsenic | 4.37 | 0.427 | 0.214 |
| Barium | 87.3 | 0.427 | 0.214 |
| Beryllium | 0.513 | 0.107 | 0.0534 |
| Boron | ND | 5.34 | 2.67 |
| Cadmium | 0.206 | 0.107 | 0.0534 |
| Calcium | 2460 | 21.4 | 10.7 |
| Chromium | 13.6 | 0.427 | 0.214 |
| Cobalt | 5.25 | 0.107 | 0.0534 |
| Copper | 7.69 | 0.427 | 0.214 |
| Iron | 20000 | 21.4 | 10.7 |
| Lead | 11.9 | 0.214 | 0.107 |
| Magnesium | 4290 | 10.7 | 5.34 |
| Manganese | 282 | 0.534 | 0.267 |
| Molybdenum | 0.485 | 0.107 | 0.0534 |
| Nickel | 9.87 | 0.427 | 0.214 |
| Potassium | 3180 | 64.1 | 32.0 |
| Selenium | 0.216J | 0.427 | 0.214 |
| Silver | ND | 0.107 | 0.0534 |
| Sodium | 55.1J | 107 | 53.4 |
| Strontium | 13.3 | 0.534 | 0.267 |
| Thallium | 0.251 | 0.107 | 0.0534 |
| Tin | ND | 10.7 | 5.34 |
| Titanium | 709 | 1.07 | 0.534 |
| Vanadium | 29.9 | 0.107 | 0.0534 |
| Zinc | 59.4 | 3.20 | 1.60 |
| Lithium | 29.4 | 2.14 | 1.07 |
| Phosphorus | 386 | 12.8 | 6.41 |
| Zirconium | ND | 5.34 | 2.67 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/09/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/09/12 |
| SDG NO. | : 12D084 | Date Extracted | : 04/18/12 10:17 |
| Sample ID | : SL-167-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 14:47 |
| Lab Samp ID | : D084-04W | Dilution Factor | : 1.00 |
| Lab File ID | : 98D19022 | Matrix | : SOIL |
| Ext Btch ID | : IMD027S | % Moisture | : 6.4 |
| Calib. Ref. | : 98D19017 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9760 | 25.6 | 12.8 |
| Antimony | 0.197J | 0.214 | 0.107 |
| Arsenic | 3.99 | 0.427 | 0.214 |
| Barium | 66.7 | 0.427 | 0.214 |
| Beryllium | 0.412 | 0.107 | 0.0534 |
| Boron | ND | 5.34 | 2.67 |
| Cadmium | 0.209 | 0.107 | 0.0534 |
| Calcium | 2390 | 21.4 | 10.7 |
| Chromium | 10.4 | 0.427 | 0.214 |
| Cobalt | 4.50 | 0.107 | 0.0534 |
| Copper | 6.24 | 0.427 | 0.214 |
| Iron | 19000 | 21.4 | 10.7 |
| Lead | 12.2 | 0.214 | 0.107 |
| Magnesium | 3860 | 10.7 | 5.34 |
| Manganese | 248 | 0.534 | 0.267 |
| Molybdenum | 0.352 | 0.107 | 0.0534 |
| Nickel | 7.14 | 0.427 | 0.214 |
| Potassium | 2500 | 64.1 | 32.1 |
| Selenium | 0.724 | 0.427 | 0.214 |
| Silver | ND | 0.107 | 0.0534 |
| Sodium | 57.3J | 107 | 53.4 |
| Strontium | 11.5 | 0.534 | 0.267 |
| Thallium | 0.237 | 0.107 | 0.0534 |
| Tin | ND | 10.7 | 5.34 |
| Titanium | 750 | 1.07 | 0.534 |
| Vanadium | 24.6 | 0.107 | 0.0534 |
| Zinc | 57.9 | 3.21 | 1.60 |
| Lithium | 27.6 | 2.14 | 1.07 |
| Phosphorus | 364 | 12.8 | 6.41 |
| Zirconium | ND | 5.34 | 2.67 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/09/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/09/12 |
| SDG NO. | : 12D084 | Date Extracted | : 04/18/12 10:17 |
| Sample ID | : SL-174-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 14:52 |
| Lab Samp ID | : D084-05W | Dilution Factor | : 1.00 |
| Lab File ID | : 98D19023 | Matrix | : SOIL |
| Ext Btch ID | : IMD027S | % Moisture | : 8.4 |
| Calib. Ref. | : 98D19017 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12300 | 26.2 | 13.1 |
| Antimony | 0.156J | 0.218 | 0.109 |
| Arsenic | 4.45 | 0.437 | 0.218 |
| Barium | 85.2 | 0.437 | 0.218 |
| Beryllium | 0.499 | 0.109 | 0.0546 |
| Boron | ND | 5.46 | 2.73 |
| Cadmium | 0.180 | 0.109 | 0.0546 |
| Calcium | 2230 | 21.8 | 10.9 |
| Chromium | 10.3 | 0.437 | 0.218 |
| Cobalt | 4.69 | 0.109 | 0.0546 |
| Copper | 6.08 | 0.437 | 0.218 |
| Iron | 18700 | 21.8 | 10.9 |
| Lead | 8.66 | 0.218 | 0.109 |
| Magnesium | 3850 | 10.9 | 5.46 |
| Manganese | 262 | 0.546 | 0.273 |
| Molybdenum | 0.393 | 0.109 | 0.0546 |
| Nickel | 6.94 | 0.437 | 0.218 |
| Potassium | 3940 | 65.5 | 32.8 |
| Selenium | 0.260J | 0.437 | 0.218 |
| Silver | ND | 0.109 | 0.0546 |
| Sodium | 55.7J | 109 | 54.6 |
| Strontium | 14.7 | 0.546 | 0.273 |
| Thallium | 0.273 | 0.109 | 0.0546 |
| Tin | ND | 10.9 | 5.46 |
| Titanium | 866 | 1.09 | 0.546 |
| Vanadium | 26.0 | 0.109 | 0.0546 |
| Zinc | 60.8 | 3.28 | 1.64 |
| Lithium | 27.9 | 2.18 | 1.09 |
| Phosphorus | 319 | 13.1 | 6.55 |
| Zirconium | ND | 5.46 | 2.73 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/09/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/09/12 |
| SDG NO. | : 12D084 | Date Extracted | : 04/18/12 10:17 |
| Sample ID | : SL-185-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 14:57 |
| Lab Samp ID | : D084-06W | Dilution Factor | : 1.00 |
| Lab File ID | : 98D19024 | Matrix | : SOIL |
| Ext Btch ID | : IMD027S | % Moisture | : 10.2 |
| Calib. Ref. | : 98D19017 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 15300 | 26.7 | 13.4 |
| Antimony | 0.288 | 0.223 | 0.111 |
| Arsenic | 7.33 | 0.445 | 0.223 |
| Barium | 128 | 0.445 | 0.223 |
| Beryllium | 0.831 | 0.111 | 0.0557 |
| Boron | ND | 5.57 | 2.78 |
| Cadmium | 0.369 | 0.111 | 0.0557 |
| Calcium | 4100 | 22.3 | 11.1 |
| Chromium | 19.6 | 0.445 | 0.223 |
| Cobalt | 7.78 | 0.111 | 0.0557 |
| Copper | 13.6 | 0.445 | 0.223 |
| Iron | 32800 | 22.3 | 11.1 |
| Lead | 12.5 | 0.223 | 0.111 |
| Magnesium | 5710 | 11.1 | 5.57 |
| Manganese | 354 | 0.557 | 0.278 |
| Molybdenum | 0.632 | 0.111 | 0.0557 |
| Nickel | 15.9 | 0.445 | 0.223 |
| Potassium | 4990 | 66.8 | 33.4 |
| Selenium | 0.232J | 0.445 | 0.223 |
| Silver | 0.0913J | 0.111 | 0.0557 |
| Sodium | 61.7J | 111 | 55.7 |
| Strontium | 21.8 | 0.557 | 0.278 |
| Thallium | 0.350 | 0.111 | 0.0557 |
| Tin | ND | 11.1 | 5.57 |
| Titanium | 867 | 1.11 | 0.557 |
| Vanadium | 42.7 | 0.111 | 0.0557 |
| Zinc | 78.3 | 3.34 | 1.67 |
| Lithium | 28.5 | 2.23 | 1.11 |
| Phosphorus | 727 | 13.4 | 6.68 |
| Zirconium | ND | 5.57 | 2.78 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/09/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/09/12 |
| SDG NO. : 12D084 | Date Extracted: 04/18/12 10:17 |
| Sample ID: SL-191-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 21:01 |
| Lab Samp ID: D084-07 | Dilution Factor: 1.00 |
| Lab File ID: 98D18061 | Matrix : SOIL |
| Ext Btch ID: IMD027S | % Moisture : 8.6 |
| Calib. Ref.: 98D18053 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 18600 | 26.3 | 13.1 |
| Antimony | 0.249 | 0.219 | 0.109 |
| Arsenic | 7.37 | 0.438 | 0.219 |
| Barium | 127 | 0.438 | 0.219 |
| Beryllium | 0.857 | 0.109 | 0.0547 |
| Boron | ND | 5.47 | 2.74 |
| Cadmium | 0.234 | 0.109 | 0.0547 |
| Calcium | 3870 | 21.9 | 10.9 |
| Chromium | 19.6 | 0.438 | 0.219 |
| Cobalt | 8.26 | 0.109 | 0.0547 |
| Copper | 14.4 | 0.438 | 0.219 |
| Iron | 27700 | 21.9 | 10.9 |
| Lead | 14.1 | 0.219 | 0.109 |
| Magnesium | 6580 | 10.9 | 5.47 |
| Manganese | 311 | 0.547 | 0.274 |
| Molybdenum | 0.622 | 0.109 | 0.0547 |
| Nickel | 13.5 | 0.438 | 0.219 |
| Potassium | 3020 | 65.6 | 32.8 |
| Selenium | 0.437J | 0.438 | 0.219 |
| Silver | 0.0774J | 0.109 | 0.0547 |
| Sodium | 83.6J | 109 | 54.7 |
| Strontium | 22.8 | 0.547 | 0.274 |
| Thallium | 0.348 | 0.109 | 0.0547 |
| Tin | ND | 10.9 | 5.47 |
| Titanium | 989 | 1.09 | 0.547 |
| Vanadium | 41.6 | 0.109 | 0.0547 |
| Zinc | 86.5 | 3.28 | 1.64 |
| Lithium | 35.6 | 2.19 | 1.09 |
| Phosphorus | 486 | 13.1 | 6.56 |
| Zirconium | ND | 5.47 | 2.74 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/09/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/09/12 |
| SDG NO. | : 12D084 | Date Extracted | : 04/18/12 10:17 |
| Sample ID | : DUP-06-NBZ-QC-040912 | Date Analyzed | : 04/27/12 15:01 |
| Lab Samp ID | : D084-08W | Dilution Factor | : 1.00 |
| Lab File ID | : 98D19025 | Matrix | : SOIL |
| Ext Btch ID | : IMD027S | % Moisture | : 7.6 |
| Calib. Ref. | : 98D19017 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 15600 | 26.0 | 13.0 |
| Antimony | 0.330 | 0.216 | 0.108 |
| Arsenic | 8.97 | 0.433 | 0.216 |
| Barium | 109 | 0.433 | 0.216 |
| Beryllium | 0.692 | 0.108 | 0.0541 |
| Boron | ND | 5.41 | 2.71 |
| Cadmium | 0.231 | 0.108 | 0.0541 |
| Calcium | 3830 | 21.6 | 10.8 |
| Chromium | 17.5 | 0.433 | 0.216 |
| Cobalt | 7.19 | 0.108 | 0.0541 |
| Copper | 12.7 | 0.433 | 0.216 |
| Iron | 26400 | 21.6 | 10.8 |
| Lead | 12.0 | 0.216 | 0.108 |
| Magnesium | 6010 | 10.8 | 5.41 |
| Manganese | 286 | 0.541 | 0.271 |
| Molybdenum | 0.622 | 0.108 | 0.0541 |
| Nickel | 12.5 | 0.433 | 0.216 |
| Potassium | 3060 | 64.9 | 32.5 |
| Selenium | 0.433 | 0.433 | 0.216 |
| Silver | 0.0726J | 0.108 | 0.0541 |
| Sodium | 89.7J | 108 | 54.1 |
| Strontium | 17.7 | 0.541 | 0.271 |
| Thallium | 0.397 | 0.108 | 0.0541 |
| Tin | ND | 10.8 | 5.41 |
| Titanium | 924 | 1.08 | 0.541 |
| Vanadium | 38.4 | 0.108 | 0.0541 |
| Zinc | 81.0 | 3.25 | 1.62 |
| Lithium | 34.0 | 2.16 | 1.08 |
| Phosphorus | 495 | 13.0 | 6.49 |
| Zirconium | ND | 5.41 | 2.71 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| SDG NO. : 12D084 | Date Extracted: 04/18/12 10:17 |
| Sample ID: MBLK1S | Date Analyzed: 04/26/12 20:34 |
| Lab Samp ID: IMD027SB | Dilution Factor: 1 |
| Lab File ID: 98D18055 | Matrix : SOIL |
| Ext Btch ID: IMD027S | % Moisture : NA |
| Calib. Ref.: 98D18053 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D084
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: NA
DILTN FACTR: 1 1 1
SAMPLE ID: MBLK1S
CONTROL NO.: IMD027SB IMD027SL IMD027SC
LAB FILE ID: 98D18055 98D18056 98D18057
DATIME EXTRCTD: 04/18/1210:17 04/18/1210:17 04/18/1210:17 DATE COLLECTED: NA
DATIME ANALYZD: 04/26/1220:34 04/26/1220:39 04/26/1220:43 DATE RECEIVED: 04/18/12
PREP. BATCH: IMD027S IMD027S IMD027S
CALIB. REF: 98D18053 98D18053 98D18053

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2800 | 112 | 2500 | 2770 | 111 | 1 | 80-120 | 20 |
| Antimony | ND | 25.0 | 26.4 | 106 | 25.0 | 26.5 | 106 | 0 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 25.4 | 102 | 25.0 | 25.6 | 102 | 0 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.5 | 102 | 25.0 | 25.5 | 102 | 0 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 23.9 | 96 | 25.0 | 24.4 | 98 | 2 | 80-120 | 20 |
| Boron | ND | 25.0 | 24.7 | 99 | 25.0 | 25.1 | 100 | 2 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 25.1 | 101 | 25.0 | 25.3 | 101 | 1 | 80-120 | 20 |
| Calcium | ND | 2500 | 2640 | 105 | 2500 | 2650 | 106 | 1 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.8 | 99 | 25.0 | 24.6 | 98 | 1 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 25.3 | 101 | 25.0 | 25.3 | 101 | 0 | 80-120 | 20 |
| Copper | ND | 25.0 | 24.8 | 99 | 25.0 | 25.7 | 103 | 4 | 80-120 | 20 |
| Iron | ND | 2500 | 2600 | 104 | 2500 | 2580 | 103 | 1 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.3 | 101 | 25.0 | 25.5 | 102 | 1 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2760 | 110 | 2500 | 2780 | 111 | 1 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.0 | 100 | 25.0 | 25.7 | 103 | 3 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 26.3 | 105 | 25.0 | 26.5 | 106 | 1 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.5 | 98 | 25.0 | 24.5 | 98 | 0 | 80-120 | 20 |
| Potassium | ND | 2500 | 2690 | 108 | 2500 | 2680 | 107 | 1 | 80-120 | 20 |
| Selenium | ND | 25.0 | 24.9 | 99 | 25.0 | 25.3 | 101 | 2 | 80-120 | 20 |
| Silver | ND | 25.0 | 25.4 | 102 | 25.0 | 25.6 | 102 | 1 | 80-120 | 20 |
| Sodium | ND | 2500 | 2610 | 104 | 2500 | 2640 | 106 | 1 | 80-120 | 20 |
| Strontium | ND | 25.0 | 26.0 | 104 | 25.0 | 26.1 | 104 | 0 | 80-120 | 20 |
| Thallium | ND | 25.0 | 26.1 | 104 | 25.0 | 25.9 | 104 | 1 | 80-120 | 20 |
| Tin | ND | 25.0 | 28.0 | 112 | 25.0 | 28.2 | 113 | 1 | 80-120 | 20 |
| Titanium | ND | 25.0 | 26.6 | 106 | 25.0 | 27.1 | 108 | 2 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 25.3 | 101 | 25.0 | 25.4 | 102 | 0 | 80-120 | 20 |
| Zinc | ND | 50.0 | 49.7 | 99 | 50.0 | 50.5 | 101 | 2 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.6 | 102 | 25.0 | 26.1 | 105 | 2 | 80-120 | 20 |
| Phosphorus | ND | 250 | 270 | 108 | 250 | 270 | 108 | 0 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 25.9 | 103 | 25.0 | 26.3 | 105 | 2 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D084
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 8.6 |
| DILTN FACTR: | 1.00 | 1.00 | 1.00 | | |
| SAMPLE ID: | SL-191-NBZ-SS-0.0-0.5 | | | | |
| CONTROL NO.: | D084-07 | D084-07M | D084-07S | | |
| LAB FILE ID: | 98D18061 | 98D18058 | 98D18059 | | |
| DATIME EXTRCTD: | 04/18/1210:17 | 04/18/1210:17 | 04/18/1210:17 | DATE COLLECTED: | 04/09/12 |
| DATIME ANALYZD: | 04/26/1221:01 | 04/26/1220:47 | 04/26/1220:52 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | IMD027S | IMD027S | IMD027S | | |
| CALIB. REF: | 98D18053 | 98D18053 | 98D18053 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 18600 | 2740 | 20400 | 66* | 2740 | 21000 | 88 | 3 | 75-125 | 20 |
| Antimony | 0.249 | 27.4 | 20.8 | 75 | 27.4 | 19.5 | 71* | 6 | 75-125 | 20 |
| Arsenic | 7.37 | 27.4 | 33.5 | 96 | 27.4 | 32.6 | 92 | 3 | 75-125 | 20 |
| Barium | 127 | 27.4 | 161 | 127* | 27.4 | 159 | 120 | 1 | 75-125 | 20 |
| Beryllium | 0.857 | 27.4 | 27.4 | 97 | 27.4 | 27.2 | 96 | 1 | 75-125 | 20 |
| Boron | ND | 27.4 | 26.5 | 97 | 27.4 | 25.9 | 95 | 2 | 75-125 | 20 |
| Cadmium | 0.234 | 27.4 | 27.1 | 98 | 27.4 | 27.6 | 100 | 2 | 75-125 | 20 |
| Calcium | 3870 | 2740 | 6460 | 95 | 2740 | 6490 | 96 | 1 | 75-125 | 20 |
| Chromium | 19.6 | 27.4 | 42.9 | 85 | 27.4 | 44.4 | 91 | 3 | 75-125 | 20 |
| Cobalt | 8.26 | 27.4 | 33.0 | 90 | 27.4 | 32.0 | 87 | 3 | 75-125 | 20 |
| Copper | 14.4 | 27.4 | 40.2 | 94 | 27.4 | 38.5 | 88 | 4 | 75-125 | 20 |
| Iron | 27700 | 2740 | 31600 | 143* | 2740 | 30700 | 109 | 3 | 75-125 | 20 |
| Lead | 14.1 | 27.4 | 40.9 | 98 | 27.4 | 40.6 | 97 | 1 | 75-125 | 20 |
| Magnesium | 6580 | 2740 | 9610 | 111 | 2740 | 9350 | 102 | 3 | 75-125 | 20 |
| Manganese | 311 | 27.4 | 378 | 248* | 27.4 | 316 | 21* | 18 | 75-125 | 20 |
| Molybdenum | 0.622 | 27.4 | 28.0 | 100 | 27.4 | 27.8 | 99 | 1 | 75-125 | 20 |
| Nickel | 13.5 | 27.4 | 37.8 | 89 | 27.4 | 37.5 | 88 | 1 | 75-125 | 20 |
| Potassium | 3020 | 2740 | 5730 | 99 | 2740 | 5740 | 99 | 0 | 75-125 | 20 |
| Selenium | 0.437J | 27.4 | 26.1 | 94 | 27.4 | 26.7 | 96 | 2 | 75-125 | 20 |
| Silver | 0.0774J | 27.4 | 27.1 | 99 | 27.4 | 27.9 | 102 | 3 | 75-125 | 20 |
| Sodium | 83.6J | 2740 | 2700 | 96 | 2740 | 2610 | 92 | 3 | 75-125 | 20 |
| Strontium | 22.8 | 27.4 | 50.4 | 101 | 27.4 | 49.4 | 97 | 2 | 75-125 | 20 |
| Thallium | 0.348 | 27.4 | 28.0 | 101 | 27.4 | 27.8 | 100 | 1 | 75-125 | 20 |
| Tin | ND | 27.4 | 32.1 | 117 | 27.4 | 32.3 | 118 | 1 | 75-125 | 20 |
| Titanium | 989 | 27.4 | 1110 | 448* | 27.4 | 1070 | 312* | 3 | 75-125 | 20 |
| Vanadium | 41.6 | 27.4 | 64.4 | 83 | 27.4 | 67.2 | 94 | 4 | 75-125 | 20 |
| Zinc | 86.5 | 54.7 | 149 | 115 | 54.7 | 144 | 105 | 4 | 75-125 | 20 |
| Lithium | 35.6 | 27.4 | 64.3 | 105 | 27.4 | 63.7 | 103 | 1 | 75-125 | 20 |
| Phosphorus | 486 | 274 | 704 | 79 | 274 | 725 | 87 | 3 | 75-125 | 20 |
| Zirconium | ND | 27.4 | 19.2 | 70* | 27.4 | 17.3 | 63* | 10 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D084
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 8.6
DILTN FACTR: 1.00 1.00
SAMPLE ID: SL-191-NBZ-SS-0.0-0.5
CONTROL NO.: D084-07 D084-07A
LAB FILE ID: 98D18061 98D18060
DATIME EXTRCTD: 04/18/1210:17 04/18/1210:17 DATE COLLECTED: 04/09/12
DATIME ANALYZD: 04/26/1221:01 04/26/1220:56 DATE RECEIVED: 04/09/12
PREP. BATCH: IMD027S IMD027S
CALIB. REF: 98D18053 98D18053

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 18600 | 2740 | 20800 | 83 | 75-125 |
| Antimony | 0.249 | 27.4 | 28.2 | 102 | 75-125 |
| Arsenic | 7.37 | 27.4 | 33.0 | 94 | 75-125 |
| Barium | 127 | 27.4 | 156 | 107 | 75-125 |
| Beryllium | 0.857 | 27.4 | 26.2 | 93 | 75-125 |
| Boron | ND | 27.4 | 27.1 | 99 | 75-125 |
| Cadmium | 0.234 | 27.4 | 27.1 | 98 | 75-125 |
| Calcium | 3870 | 2740 | 6450 | 94 | 75-125 |
| Chromium | 19.6 | 27.4 | 43.1 | 86 | 75-125 |
| Cobalt | 8.26 | 27.4 | 31.9 | 86 | 75-125 |
| Copper | 14.4 | 27.4 | 37.1 | 83 | 75-125 |
| Iron | 27700 | 2740 | 29700 | 72* | 75-125 |
| Lead | 14.1 | 27.4 | 39.9 | 94 | 75-125 |
| Magnesium | 6580 | 2740 | 9110 | 93 | 75-125 |
| Manganese | 311 | 27.4 | 321 | 39* | 75-125 |
| Molybdenum | 0.622 | 27.4 | 28.8 | 103 | 75-125 |
| Nickel | 13.5 | 27.4 | 36.5 | 84 | 75-125 |
| Potassium | 3020 | 2740 | 5550 | 92 | 75-125 |
| Selenium | 0.437J | 27.4 | 26.6 | 96 | 75-125 |
| Silver | 0.0774J | 27.4 | 26.7 | 97 | 75-125 |
| Sodium | 83.6J | 2740 | 2630 | 93 | 75-125 |
| Strontium | 22.8 | 27.4 | 49.0 | 95 | 75-125 |
| Thallium | 0.348 | 27.4 | 27.1 | 98 | 75-125 |
| Tin | ND | 27.4 | 31.5 | 115 | 75-125 |
| Titanium | 989 | 27.4 | 991 | 8* | 75-125 |
| Vanadium | 41.6 | 27.4 | 65.9 | 89 | 75-125 |
| Zinc | 86.5 | 54.7 | 138 | 93 | 75-125 |
| Lithium | 35.6 | 27.4 | 62.3 | 97 | 75-125 |
| Phosphorus | 486 | 274 | 753 | 97 | 75-125 |
| Zirconium | ND | 27.4 | 27.4 | 100 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 8.6

| | | |
|---|---|---|
| DILUTION FACTOR: | 1.00 | 5.00 |
| SAMPLE ID: | SL-191-NBZ-SS- | SL-191-NBZ-SS- |
| EMAX SAMP ID: | D084-07 | D084-07J |
| LAB FILE ID: | 98D18061 | 98D18062 |
| DATE EXTRACTED: | 04/18/1210:17 | 04/18/1210:17 |
| DATE ANALYZED: | 04/26/1221:01 | 04/26/1221:06 |
| PREP. BATCH: | IMD027S | IMD027S |
| CALIB. REF: | 98D18053 | 98D18053 |

DATE COLLECTED: 04/09/12
DATE RECEIVED: 04/09/12

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 18600 | 19000 | 2 | 10 |
| Antimony | 0.249 | ND | NA | 10 |
| Arsenic | 7.37 | 7.46 | 1 | 10 |
| Barium | 127 | 118 | 7 | 10 |
| Beryllium | 0.857 | 0.844 | 1 | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.234 | ND | NA | 10 |
| Calcium | 3870 | 4130 | 7 | 10 |
| Chromium | 19.6 | 20.7 | 6 | 10 |
| Cobalt | 8.26 | 8.58 | 4 | 10 |
| Copper | 14.4 | 15.7 | 9 | 10 |
| Iron | 27700 | 29700 | 7 | 10 |
| Lead | 14.1 | 13.9 | 2 | 10 |
| Magnesium | 6580 | 6700 | 2 | 10 |
| Manganese | 311 | 325 | 5 | 10 |
| Molybdenum | 0.622 | 0.607 | 2 | 10 |
| Nickel | 13.5 | 14.5 | 7 | 10 |
| Potassium | 3020 | 3040 | 1 | 10 |
| Selenium | 0.437J | ND | NA | 10 |
| Silver | 0.0774J | ND | NA | 10 |
| Sodium | 83.6J | ND | NA | 10 |
| Strontium | 22.8 | 21.7 | 5 | 10 |
| Thallium | 0.348 | 0.350J | 1 | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 989 | 1040 | 5 | 10 |
| Vanadium | 41.6 | 43.4 | 4 | 10 |
| Zinc | 86.5 | 84.2 | 3 | 10 |
| Lithium | 35.6 | 32.8 | 8 | 10 |
| Phosphorus | 486 | 466 | 4 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D084
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD020SB | ND | 1 | NA | 0.100 | 0.0500 | 04/20/1215:09 | 04/20/1212:30 | M47D014010 | M47D014008 | HGD020S | NA | 04/20/12 |
| LCS1S | HGD020SL | 0.885 | 1 | NA | 0.100 | 0.0500 | 04/20/1215:11 | 04/20/1212:30 | M47D014011 | M47D014008 | HGD020S | NA | 04/20/12 |
| LCD1S | HGD020SC | 0.872 | 1 | NA | 0.100 | 0.0500 | 04/20/1215:14 | 04/20/1212:30 | M47D014012 | M47D014008 | HGD020S | NA | 04/20/12 |
| SL-191-NBZ-SS-0.0-0.5AS | D084-07A | 0.950 | 0.998 | 8.6 | 0.109 | 0.0546 | 04/20/1215:16 | 04/20/1212:30 | M47D014013 | M47D014008 | HGD020S | 04/09/12 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5 | D084-07 | ND | 0.998 | 8.6 | 0.109 | 0.0546 | 04/20/1215:19 | 04/20/1212:30 | M47D014014 | M47D014008 | HGD020S | 04/09/12 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5DL | D084-07J | ND | 4.99 | 8.6 | 0.546 | 0.273 | 04/20/1215:21 | 04/20/1212:30 | M47D014015 | M47D014008 | HGD020S | 04/09/12 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5MS | D084-07M | 0.975 | 0.988 | 8.6 | 0.108 | 0.0540 | 04/20/1215:23 | 04/20/1212:30 | M47D014016 | M47D014008 | HGD020S | 04/09/12 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5MSD | D084-07S | 0.980 | 0.992 | 8.6 | 0.109 | 0.0543 | 04/20/1215:25 | 04/20/1212:30 | M47D014017 | M47D014008 | HGD020S | 04/09/12 | 04/09/12 |
| SL-001-NBZ-SS-0.0-0.5 | D084-01 | ND | 0.985 | 11.6 | 0.111 | 0.0557 | 04/20/1215:27 | 04/20/1212:30 | M47D014018 | M47D014008 | HGD020S | 04/09/12 | 04/09/12 |
| SL-151-NBZ-SS-0.0-0.5 | D084-02 | ND | 1.00 | 9.5 | 0.110 | 0.0552 | 04/20/1215:30 | 04/20/1212:30 | M47D014019 | M47D014008 | HGD020S | 04/09/12 | 04/09/12 |
| SL-157-NBZ-SS-0.0-0.5 | D084-03 | ND | 1.01 | 9.1 | 0.111 | 0.0556 | 04/20/1215:36 | 04/20/1212:30 | M47D014022 | M47D014020 | HGD020S | 04/09/12 | 04/09/12 |
| SL-167-NBZ-SS-0.0-0.5 | D084-04 | ND | 0.988 | 6.4 | 0.106 | 0.0528 | 04/20/1215:38 | 04/20/1212:30 | M47D014023 | M47D014020 | HGD020S | 04/09/12 | 04/09/12 |
| SL-174-NBZ-SS-0.0-0.5 | D084-05 | ND | 0.998 | 8.4 | 0.109 | 0.0545 | 04/20/1215:40 | 04/20/1212:30 | M47D014024 | M47D014020 | HGD020S | 04/09/12 | 04/09/12 |
| SL-185-NBZ-SS-0.0-0.5 | D084-06 | ND | 0.985 | 10.2 | 0.110 | 0.0548 | 04/20/1215:42 | 04/20/1212:30 | M47D014025 | M47D014020 | HGD020S | 04/09/12 | 04/09/12 |
| DUP-06-NBZ-QC-040912 | D084-08 | ND | 1.01 | 7.6 | 0.109 | 0.0547 | 04/20/1215:44 | 04/20/1212:30 | M47D014026 | M47D014020 | HGD020S | 04/09/12 | 04/09/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D084
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGD020SB | HGD020SL | HGD020SC | | |
| LAB FILE ID: | M47D014010 | M47D014011 | M47D014012 | | |
| DATIME EXTRCTD: | 04/20/1212:30 | 04/20/1212:30 | 04/20/1212:30 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/20/1215:09 | 04/20/1215:11 | 04/20/1215:14 | DATE RECEIVED: | 04/20/12 |
| PREP. BATCH: | HGD020S | HGD020S | HGD020S | | |
| CALIB. REF: | M47D014008 | M47D014008 | M47D014008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .885 | 106 | .833 | .872 | 105 | 2 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D084
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 8.6

| | | | | | |
|---|---|---|---|---|---|
| DILTN FACTR: | 0.998 | 0.988 | 0.992 | | |
| SAMPLE ID: | SL-191-NBZ-SS-0.0-0.5 | | | | |
| CONTROL NO.: | D084-07 | D084-07M | D084-07S | | |
| LAB FILE ID: | M47D014014 | M47D014016 | M47D014017 | | |
| DATIME EXTRCTD: | 04/20/1212:30 | 04/20/1212:30 | 04/20/1212:30 | DATE COLLECTED: | 04/09/12 |
| DATIME ANALYZD: | 04/20/1215:19 | 04/20/1215:23 | 04/20/1215:25 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | HGD020S | HGD020S | HGD020S | | |
| CALIB. REF: | M47D014008 | M47D014008 | M47D014008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .9 | .975 | 108 | .904 | .98 | 108 | 0 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D084
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 8.6 |
| DILTN FACTR: | 0.998 | 0.998 | | |
| SAMPLE ID: | SL-191-NBZ-SS-0.0-0.5 | | | |
| CONTROL NO.: | D084-07 | D084-07A | | |
| LAB FILE ID: | M47D014014 | M47D014013 | | |
| DATIME EXTRCTD: | 04/20/1212:30 | 04/20/1212:30 | DATE COLLECTED: | 04/09/12 |
| DATIME ANALYZD: | 04/20/1215:19 | 04/20/1215:16 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | HGD020S | HGD020S | | |
| CALIB. REF: | M47D014008 | M47D014008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .91 | .95 | 104 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 8.6 |
| DILUTION FACTOR: | 0.998 | 4.99 | | |
| SAMPLE ID: | SL-191-NBZ-SS-0.0-0 | SL-191-NBZ-SS-0.0-0 | | |
| EMAX SAMP ID: | D084-07 | D084-07J | | |
| LAB FILE ID: | M47D014014 | M47D014015 | | |
| DATE EXTRACTED: | 04/20/1212:30 | 04/20/1212:30 | DATE COLLECTED: | 04/09/12 |
| DATE ANALYZED: | 04/20/1215:19 | 04/20/1215:21 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | HGD020S | HGD020S | | |
| CALIB. REF: | M47D014008 | M47D014008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D084
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD007SB | ND | 1 | NA | 1.00 | 0.500 | 04/13/1212:54 | 04/12/1212:25 | AD19-13 | AD19-11 | ICD007S | NA | 04/12/12 |
| LCS1S | ICD007SL | 6.08 | 1 | NA | 1.00 | 0.500 | 04/13/1213:10 | 04/12/1212:25 | AD19-14 | AD19-11 | ICD007S | NA | 04/12/12 |
| LCD1S | ICD007SC | 6.09 | 1 | NA | 1.00 | 0.500 | 04/13/1213:26 | 04/12/1212:25 | AD19-15 | AD19-11 | ICD007S | NA | 04/12/12 |
| SL-001-NBZ-SS-0.0-0.5 | D084-01 | 1.40 | 1 | 11.6 | 1.13 | 0.566 | 04/13/1214:47 | 04/12/1212:25 | AD19-20 | AD19-11 | ICD007S | 04/09/1209:36 | 04/09/12 |
| SL-151-NBZ-SS-0.0-0.5 | D084-02 | 0.697J | 1 | 9.5 | 1.10 | 0.552 | 04/13/1215:03 | 04/12/1212:25 | AD19-21 | AD19-11 | ICD007S | 04/09/1210:15 | 04/09/12 |
| SL-157-NBZ-SS-0.0-0.5 | D084-03 | ND | 1 | 9.1 | 1.10 | 0.550 | 04/13/1215:19 | 04/12/1212:25 | AD19-22 | AD19-11 | ICD007S | 04/09/1213:47 | 04/09/12 |
| SL-167-NBZ-SS-0.0-0.5 | D084-04 | ND | 1 | 6.4 | 1.07 | 0.534 | 04/13/1216:08 | 04/12/1212:25 | AD19-25 | AD19-23 | ICD007S | 04/09/1214:12 | 04/09/12 |
| SL-174-NBZ-SS-0.0-0.5 | D084-05 | ND | 1 | 8.4 | 1.09 | 0.546 | 04/13/1216:24 | 04/12/1212:25 | AD19-26 | AD19-23 | ICD007S | 04/09/1214:46 | 04/09/12 |
| SL-185-NBZ-SS-0.0-0.5 | D084-06 | ND | 1 | 10.2 | 1.11 | 0.557 | 04/13/1216:40 | 04/12/1212:25 | AD19-27 | AD19-23 | ICD007S | 04/09/1210:50 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5 | D084-07 | 1.50 | 1 | 8.6 | 1.09 | 0.547 | 04/13/1216:56 | 04/12/1212:25 | AD19-28 | AD19-23 | ICD007S | 04/09/1211:22 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5MS | D084-07M | 8.30 | 1 | 8.6 | 1.09 | 0.547 | 04/13/1217:12 | 04/12/1212:25 | AD19-29 | AD19-23 | ICD007S | 04/09/1211:22 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5MSD | D084-07S | 8.28 | 1 | 8.6 | 1.09 | 0.547 | 04/13/1217:28 | 04/12/1212:25 | AD19-30 | AD19-23 | ICD007S | 04/09/1211:22 | 04/09/12 |
| DUP-06-NBZ-QC-040912 | D084-08 | 1.49 | 1 | 7.6 | 1.08 | 0.541 | 04/13/1217:45 | 04/12/1212:25 | AD19-31 | AD19-23 | ICD007S | 04/09/1215:20 | 04/09/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD007SB | ICD007SL | ICD007SC | | |
| LAB FILE ID: | AD19-13 | AD19-14 | AD19-15 | | |
| DATE EXTRACTED: | 04/12/1212:25 | 04/12/1212:25 | 04/12/1212:25 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/13/1212:54 | 04/13/1213:10 | 04/13/1213:26 | DATE RECEIVED: | 04/12/12 |
| PREP. BATCH: | ICD007S | ICD007S | ICD007S | | |
| CALIB. REF: | AD19-11 | AD19-11 | AD19-11 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 6.08 | 101 | 6.00 | 6.09 | 101 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 8.6 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-191-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D084-07 | D084-07M | D084-07S | | |
| LAB FILE ID: | AD19-28 | AD19-29 | AD19-30 | | |
| DATE EXTRACTED: | 04/12/1212:25 | 04/12/1212:25 | 04/12/1212:25 | DATE COLLECTED: | 04/09/12 11:22 |
| DATE ANALYZED: | 04/13/1216:56 | 04/13/1217:12 | 04/13/1217:28 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | ICD007S | ICD007S | ICD007S | | |
| CALIB. REF: | AD19-23 | AD19-23 | AD19-23 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | 1.50 | 6.56 | 8.30 | 104 | 6.56 | 8.28 | 103 | 0 | 80-120 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D084
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD007SB | ND | 1 | NA | 1.50 | 0.750 | 04/13/1212:54 | 04/12/1212:25 | AD19-13 | AD19-11 | ICD007S | NA | 04/12/12 |
| LCS1S | ICD007SL | 26.5 | 1 | NA | 1.50 | 0.750 | 04/13/1213:10 | 04/12/1212:25 | AD19-14 | AD19-11 | ICD007S | NA | 04/12/12 |
| LCD1S | ICD007SC | 26.6 | 1 | NA | 1.50 | 0.750 | 04/13/1213:26 | 04/12/1212:25 | AD19-15 | AD19-11 | ICD007S | NA | 04/12/12 |
| SL-001-NBZ-SS-0.0-0.5 | D084-01 | 4.80 | 1 | 11.6 | 1.70 | 0.848 | 04/13/1214:47 | 04/12/1212:25 | AD19-20 | AD19-11 | ICD007S | 04/09/1209:36 | 04/09/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD007SB | ICD007SL | ICD007SC | | |
| LAB FILE ID: | AD19-13 | AD19-14 | AD19-15 | | |
| DATE EXTRACTED: | 04/12/1212:25 | 04/12/1212:25 | 04/12/1212:25 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/13/1212:54 | 04/13/1213:10 | 04/13/1213:26 | DATE RECEIVED: | 04/12/12 |
| PREP. BATCH: | ICD007S | ICD007S | ICD007S | | |
| CALIB. REF: | AD19-11 | AD19-11 | AD19-11 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 26.5 | 100 | 26.6 | 26.6 | 100 | 0 | 90-110 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D084
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD013SB | ND | 1 | NA | 20.0 | 10.0 | 04/12/1223:27 | 04/11/1216:00 | JD12022 | JD12021 | PCD013S | NA | 04/11/12 |
| LCS1S | PCD013SL | 272 | 1 | NA | 20.0 | 10.0 | 04/13/1200:09 | 04/11/1216:00 | JD12024 | JD12021 | PCD013S | NA | 04/11/12 |
| LCD1S | PCD013SC | 272 | 1 | NA | 20.0 | 10.0 | 04/13/1200:30 | 04/11/1216:00 | JD12025 | JD12021 | PCD013S | NA | 04/11/12 |
| SL-001-NBZ-SS-0.0-0.5 | D084-01 | ND | 1 | 11.6 | 22.6 | 11.3 | 04/13/1201:33 | 04/11/1216:00 | JD12028 | JD12021 | PCD013S | 04/09/1209:36 | 04/09/12 |
| SL-151-NBZ-SS-0.0-0.5 | D084-02 | ND | 1 | 9.5 | 22.1 | 11.0 | 04/13/1201:54 | 04/11/1216:00 | JD12029 | JD12021 | PCD013S | 04/09/1210:15 | 04/09/12 |
| SL-157-NBZ-SS-0.0-0.5 | D084-03 | ND | 1 | 9.1 | 22.0 | 11.0 | 04/13/1202:15 | 04/11/1216:00 | JD12030 | JD12021 | PCD013S | 04/09/1213:47 | 04/09/12 |
| SL-167-NBZ-SS-0.0-0.5 | D084-04 | ND | 1 | 6.4 | 21.4 | 10.7 | 04/13/1203:18 | 04/11/1216:00 | JD12033 | JD12032 | PCD013S | 04/09/1214:12 | 04/09/12 |
| SL-174-NBZ-SS-0.0-0.5 | D084-05 | ND | 1 | 8.4 | 21.8 | 10.9 | 04/13/1203:39 | 04/11/1216:00 | JD12034 | JD12032 | PCD013S | 04/09/1214:46 | 04/09/12 |
| SL-185-NBZ-SS-0.0-0.5 | D084-06 | ND | 1 | 10.2 | 22.3 | 11.1 | 04/13/1204:00 | 04/11/1216:00 | JD12035 | JD12032 | PCD013S | 04/09/1210:50 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5 | D084-07 | ND | 1 | 8.6 | 21.9 | 10.9 | 04/13/1204:21 | 04/11/1216:00 | JD12036 | JD12032 | PCD013S | 04/09/1211:22 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5MS | D084-07M | 316 | 1 | 8.6 | 21.9 | 10.9 | 04/13/1204:42 | 04/11/1216:00 | JD12037 | JD12032 | PCD013S | 04/09/1211:22 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5MSD | D084-07S | 295 | 1 | 8.6 | 21.9 | 10.9 | 04/13/1205:03 | 04/11/1216:00 | JD12038 | JD12032 | PCD013S | 04/09/1211:22 | 04/09/12 |
| DUP-06-NBZ-QC-040912 | D084-08 | ND | 1 | 7.6 | 21.6 | 10.8 | 04/13/1205:25 | 04/11/1216:00 | JD12039 | JD12032 | PCD013S | 04/09/1215:20 | 04/09/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD013SB | PCD013SL | PCD013SC | | |
| LAB FILE ID: | JD12022 | JD12024 | JD12025 | | |
| DATE EXTRACTED: | 04/11/1216:00 | 04/11/1216:00 | 04/11/1216:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/12/1223:27 | 04/13/1200:09 | 04/13/1200:30 | DATE RECEIVED: | 04/11/12 |
| PREP. BATCH: | PCD013S | PCD013S | PCD013S | | |
| CALIB. REF: | JD12021 | JD12021 | JD12021 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 272 | 109 | 250 | 272 | 109 | 0 | 85-115 | 15 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 8.6 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-191-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D084-07 | D084-07M | D084-07S | | |
| LAB FILE ID: | JD12036 | JD12037 | JD12038 | | |
| DATE EXTRACTED: | 04/11/1216:00 | 04/11/1216:00 | 04/11/1216:00 | DATE COLLECTED: | 04/09/12 11:22 |
| DATE ANALYZED: | 04/13/1204:21 | 04/13/1204:42 | 04/13/1205:03 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | PCD013S | PCD013S | PCD013S | | |
| CALIB. REF: | JD12032 | JD12032 | JD12032 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 274 | 316 | 116 | 274 | 295 | 108 | 7 | 80-120 | 20 |

METHOD 6850
PERCHLORATE BY LC/MS

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D084
Matrix : SOIL
Instrument ID : G0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PLD001SB | ND | 1 | NA | 5.00 | 2.50 | 04/11/1213:08 | 04/10/1215:15 | ND11004 | ND11003 | PLD001S | NA | 04/10/12 |
| LCS1S | PLD001SL | 25.1 | 1 | NA | 5.00 | 2.50 | 04/11/1213:22 | 04/10/1215:15 | ND11005 | ND11003 | PLD001S | NA | 04/10/12 |
| LCD1S | PLD001SC | 23.0 | 1 | NA | 5.00 | 2.50 | 04/11/1213:37 | 04/10/1215:15 | ND11006 | ND11003 | PLD001S | NA | 04/10/12 |
| SL-001-NBZ-SS-0.0-0.5 | D084-01 | ND | 1 | 11.6 | 5.66 | 2.83 | 04/11/1215:58 | 04/10/1215:15 | ND11016 | ND11014 | PLD001S | 04/09/1209:36 | 04/09/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: METHOD 6850

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PLD001SB | PLD001SL | PLD001SC | | |
| LAB FILE ID: | ND11004 | ND11005 | ND11006 | | |
| DATE EXTRACTED: | 04/10/1215:15 | 04/10/1215:15 | 04/10/1215:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/11/1213:08 | 04/11/1213:22 | 04/11/1213:37 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | PLD001S | PLD001S | PLD001S | | |
| CALIB. REF: | ND11003 | ND11003 | ND11003 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 25.0 | 25.1 | 101 | 25.0 | 23.0 | 92 | 9 | 85-115 | 15 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D084

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD008SB | ND | 1 | NA | 1.00 | 0.500 | 04/18/1212:54 | 04/13/1211:40 | ID18024 | ID18020 | HCD008S | NA | 04/13/12 |
| MBLK1S | HCD008SQ | ND | 1 | NA | 1.00 | 0.500 | 04/18/1213:04 | 04/13/1211:40 | ID18025 | ID18020 | HCD008S | NA | 04/13/12 |
| LCS1S | CSD008SL | 10.6 | 1 | NA | 1.00 | 0.500 | 04/18/1216:28 | 04/13/1211:40 | ID18032 | ID18028 | HCD008S | NA | 04/13/12 |
| LCS1S | CSD008SX | 9.12 | 1 | NA | 1.00 | 0.500 | 04/18/1216:38 | 04/13/1211:40 | ID18033 | ID18028 | HCD008S | NA | 04/13/12 |
| LCS2S | CID008SL | 403 | 25 | NA | 25.0 | 12.5 | 04/18/1217:09 | 04/13/1211:40 | ID18034 | ID18028 | HCD008S | NA | 04/13/12 |
| LCS2S | CID008SX | 382 | 25 | NA | 25.0 | 12.5 | 04/18/1217:20 | 04/13/1211:40 | ID18035 | ID18028 | HCD008S | NA | 04/13/12 |
| SL-191-NBZ-SS-0.0-0.5 | D084-07 | ND | 1 | 8.6 | 1.09 | 0.547 | 04/18/1215:51 | 04/13/1211:40 | ID18030 | ID18028 | HCD008S | 04/09/1211:22 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5 | D084-07R | ND | 1 | 8.6 | 1.09 | 0.547 | 04/18/1216:01 | 04/13/1211:40 | ID18031 | ID18028 | HCD008S | 04/09/1211:22 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5MS | D084-07G | 166 | 10 | 8.6 | 10.9 | 5.47 | 04/18/1217:30 | 04/13/1211:40 | ID18036 | ID18028 | HCD008S | 04/09/1211:22 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5MS | D084-07G1 | 174 | 10 | 8.6 | 10.9 | 5.47 | 04/18/1217:41 | 04/13/1211:40 | ID18037 | ID18028 | HCD008S | 04/09/1211:22 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5MSD | D084-07H | 170 | 10 | 8.6 | 10.9 | 5.47 | 04/18/1217:51 | 04/13/1211:40 | ID18038 | ID18028 | HCD008S | 04/09/1211:22 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5MSD | D084-07H1 | 165 | 10 | 8.6 | 10.9 | 5.47 | 04/18/1218:01 | 04/13/1211:40 | ID18039 | ID18028 | HCD008S | 04/09/1211:22 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5MS | D084-07M | 11.9 | 1 | 8.6 | 1.09 | 0.547 | 04/18/1218:33 | 04/13/1211:40 | ID18042 | ID18040 | HCD008S | 04/09/1211:22 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5MS | D084-07M1 | 11.6 | 1 | 8.6 | 1.09 | 0.547 | 04/18/1218:43 | 04/13/1211:40 | ID18043 | ID18040 | HCD008S | 04/09/1211:22 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5MSD | D084-07S | 11.5 | 1 | 8.6 | 1.09 | 0.547 | 04/18/1218:53 | 04/13/1211:40 | ID18044 | ID18040 | HCD008S | 04/09/1211:22 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5MSD | D084-07S1 | 11.4 | 1 | 8.6 | 1.09 | 0.547 | 04/18/1219:04 | 04/13/1211:40 | ID18045 | ID18040 | HCD008S | 04/09/1211:22 | 04/09/12 |
| SL-001-NBZ-SS-0.0-0.5 | D084-01 | ND | 1 | 11.6 | 1.13 | 0.566 | 04/18/1221:19 | 04/13/1211:40 | ID18058 | ID18052 | HCD008S | 04/09/1209:36 | 04/09/12 |
| SL-001-NBZ-SS-0.0-0.5 | D084-01R | ND | 1 | 11.6 | 1.13 | 0.566 | 04/18/1221:29 | 04/13/1211:40 | ID18059 | ID18052 | HCD008S | 04/09/1209:36 | 04/09/12 |
| SL-151-NBZ-SS-0.0-0.5 | D084-02 | ND | 1 | 9.5 | 1.10 | 0.552 | 04/18/1221:40 | 04/13/1211:40 | ID18060 | ID18052 | HCD008S | 04/09/1210:15 | 04/09/12 |
| SL-151-NBZ-SS-0.0-0.5 | D084-02R | ND | 1 | 9.5 | 1.10 | 0.552 | 04/18/1221:50 | 04/13/1211:40 | ID18061 | ID18052 | HCD008S | 04/09/1210:15 | 04/09/12 |
| SL-157-NBZ-SS-0.0-0.5 | D084-03 | ND | 1 | 9.1 | 1.10 | 0.550 | 04/18/1222:01 | 04/13/1211:40 | ID18062 | ID18052 | HCD008S | 04/09/1213:47 | 04/09/12 |
| SL-157-NBZ-SS-0.0-0.5 | D084-03R | ND | 1 | 9.1 | 1.10 | 0.550 | 04/18/1222:11 | 04/13/1211:40 | ID18063 | ID18052 | HCD008S | 04/09/1213:47 | 04/09/12 |
| SL-167-NBZ-SS-0.0-0.5 | D084-04 | ND | 1 | 6.4 | 1.07 | 0.534 | 04/18/1222:42 | 04/13/1211:40 | ID18066 | ID18064 | HCD008S | 04/09/1214:12 | 04/09/12 |
| SL-167-NBZ-SS-0.0-0.5 | D084-04R | ND | 1 | 6.4 | 1.07 | 0.534 | 04/18/1222:53 | 04/13/1211:40 | ID18067 | ID18064 | HCD008S | 04/09/1214:12 | 04/09/12 |
| SL-174-NBZ-SS-0.0-0.5 | D084-05 | ND | 1 | 8.4 | 1.09 | 0.546 | 04/18/1223:03 | 04/13/1211:40 | ID18068 | ID18064 | HCD008S | 04/09/1214:46 | 04/09/12 |
| SL-174-NBZ-SS-0.0-0.5 | D084-05R | ND | 1 | 8.4 | 1.09 | 0.546 | 04/18/1223:14 | 04/13/1211:40 | ID18069 | ID18064 | HCD008S | 04/09/1214:46 | 04/09/12 |
| SL-185-NBZ-SS-0.0-0.5 | D084-06 | ND | 1 | 10.2 | 1.11 | 0.557 | 04/18/1223:24 | 04/13/1211:40 | ID18070 | ID18064 | HCD008S | 04/09/1210:50 | 04/09/12 |
| SL-185-NBZ-SS-0.0-0.5 | D084-06R | ND | 1 | 10.2 | 1.11 | 0.557 | 04/18/1223:34 | 04/13/1211:40 | ID18071 | ID18064 | HCD008S | 04/09/1210:50 | 04/09/12 |
| DUP-06-NBZ-QC-040912 | D084-08 | ND | 1 | 7.6 | 1.08 | 0.541 | 04/18/1223:45 | 04/13/1211:40 | ID18072 | ID18064 | HCD008S | 04/09/1215:20 | 04/09/12 |
| DUP-06-NBZ-QC-040912 | D084-08R | ND | 1 | 7.6 | 1.08 | 0.541 | 04/18/1223:55 | 04/13/1211:40 | ID18073 | ID18064 | HCD008S | 04/09/1215:20 | 04/09/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD008SB | CSD008SL | | |
| LAB FILE ID: | ID18024 | ID18032 | | |
| DATE EXTRACTED: | 04/13/1211:40 | 04/13/1211:40 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/18/1212:54 | 04/18/1216:28 | DATE RECEIVED: | 04/13/12 |
| PREP. BATCH: | HCD008S | HCD008S | | |
| CALIB. REF: | ID18020 | ID18028 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 10.6 | 106 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD008SQ | CSD008SX | | |
| LAB FILE ID: | ID18025 | ID18033 | | |
| DATE EXTRACTED: | 04/13/1211:40 | 04/13/1211:40 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/18/1213:04 | 04/18/1216:38 | DATE RECEIVED: | 04/13/12 |
| PREP. BATCH: | HCD008S | HCD008S | | |
| CALIB. REF: | ID18020 | ID18028 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 9.12 | 91 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 25 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD008SB | CID008SL | | |
| LAB FILE ID: | ID18024 | ID18034 | | |
| DATE EXTRACTED: | 04/13/1211:40 | 04/13/1211:40 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/18/1212:54 | 04/18/1217:09 | DATE RECEIVED: | 04/13/12 |
| PREP. BATCH: | HCD008S | HCD008S | | |
| CALIB. REF: | ID18020 | ID18028 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 426 | 403 | 95 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: 7199

==========

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 25 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD008SQ | CID008SX | | |
| LAB FILE ID: | ID18025 | ID18035 | | |
| DATE EXTRACTED: | 04/13/1211:40 | 04/13/1211:40 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/18/1213:04 | 04/18/1217:20 | DATE RECEIVED: | 04/13/12 |
| PREP. BATCH: | HCD008S | HCD008S | | |
| CALIB. REF: | ID18020 | ID18028 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 426 | 382 | 90 | 80-120 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: 7199

MATRIX: SOIL % MOISTURE: 8.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-191-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D084-07 | D084-07M | D084-07S | | |
| LAB FILE ID: | ID18030 | ID18042 | ID18044 | | |
| DATE EXTRACTED: | 04/13/1211:40 | 04/13/1211:40 | 04/13/1211:40 | DATE COLLECTED: | 04/09/12 11:22 |
| DATE ANALYZED: | 04/18/1215:51 | 04/18/1218:33 | 04/18/1218:53 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | HCD008S | HCD008S | HCD008S | | |
| CALIB. REF: | ID18028 | ID18040 | ID18040 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.9 | 11.9 | 109 | 10.9 | 11.5 | 106 | 3 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: 7199

MATRIX: SOIL % MOISTURE: 8.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 10 | 10 | | |
| SAMPLE ID: | SL-191-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D084-07 | D084-07G | D084-07H | | |
| LAB FILE ID: | ID18030 | ID18036 | ID18038 | | |
| DATE EXTRACTED: | 04/13/1211:40 | 04/13/1211:40 | 04/13/1211:40 | DATE COLLECTED: | 04/09/12 11:22 |
| DATE ANALYZED: | 04/18/1215:51 | 04/18/1217:30 | 04/18/1217:51 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | HCD008S | HCD008S | HCD008S | | |
| CALIB. REF: | ID18028 | ID18028 | ID18028 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 201 | 166 | 83 | 196 | 170 | 87 | 3 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: 7199

MATRIX: SOIL % MOISTURE: 8.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 10 | 10 | | |
| SAMPLE ID: | SL-191-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D084-07R | D084-07G1 | D084-07H1 | | |
| LAB FILE ID: | ID18031 | ID18037 | ID18039 | | |
| DATE EXTRACTED: | 04/13/1211:40 | 04/13/1211:40 | 04/13/1211:40 | DATE COLLECTED: | 04/09/12 11:22 |
| DATE ANALYZED: | 04/18/1216:01 | 04/18/1217:41 | 04/18/1218:01 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | HCD008S | HCD008S | HCD008S | | |
| CALIB. REF: | ID18028 | ID18028 | ID18028 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 201 | 174 | 87 | 196 | 165 | 84 | 5 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D084
METHOD: 7199

MATRIX: SOIL % MOISTURE: 8.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-191-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D084-07R | D084-07M1 | D084-07S1 | | |
| LAB FILE ID: | ID18031 | ID18043 | ID18045 | | |
| DATE EXTRACTED: | 04/13/1211:40 | 04/13/1211:40 | 04/13/1211:40 | DATE COLLECTED: | 04/09/12 11:22 |
| DATE ANALYZED: | 04/18/1216:01 | 04/18/1218:43 | 04/18/1219:04 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | HCD008S | HCD008S | HCD008S | | |
| CALIB. REF: | ID18028 | ID18040 | ID18040 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.9 | 11.6 | 106 | 10.9 | 11.4 | 104 | 1 | 75-125 | 20 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D084
Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CND006SB | ND | 1 | NA | 0.500 | 0.250 | 04/18/1218:12 | 04/18/1211:00 | CND00610 | CND00608 | CND006S | NA | 04/18/12 |
| LCS1S | CND006SL | 2.47 | 1 | NA | 0.500 | 0.250 | 04/18/1218:12 | 04/18/1211:00 | CND00611 | CND00608 | CND006S | NA | 04/18/12 |
| LCD1S | CND006SC | 2.44 | 1 | NA | 0.500 | 0.250 | 04/18/1218:12 | 04/18/1211:00 | CND00612 | CND00608 | CND006S | NA | 04/18/12 |
| SL-001-NBZ-SS-0.0-0.5 | D084-01 | ND | 1 | 11.6 | 0.566 | 0.283 | 04/18/1218:13 | 04/18/1211:00 | CND00615 | CND00608 | CND006S | 04/09/1209:36 | 04/09/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D084
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CND006SL/C

DATE RECEIVED: 04/18/12
DATE EXTRACTED: 04/18/1211:00
DATE ANALYZED: 04/18/1218:12/18:12

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.47 | 99 | 2.50 | 2.44 | 98 | 1 | 85-125 | 20 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D084
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-001-NBZ-SS-0.0-0.5 | D084-01 | 8.22 | 1 | NA | NA | NA | 04/10/1214:53 | 04/10/1214:51 | 12PHD007S02 | PHD007S | PHD007S | 04/09/1209:36 | 04/09/12 |
| SL-151-NBZ-SS-0.0-0.5 | D084-02 | 7.64 | 1 | NA | NA | NA | 04/10/1214:55 | 04/10/1214:51 | 12PHD007S03 | PHD007S | PHD007S | 04/09/1210:15 | 04/09/12 |
| SL-157-NBZ-SS-0.0-0.5 | D084-03 | 6.42 | 1 | NA | NA | NA | 04/10/1214:57 | 04/10/1214:51 | 12PHD007S04 | PHD007S | PHD007S | 04/09/1213:47 | 04/09/12 |
| SL-167-NBZ-SS-0.0-0.5 | D084-04 | 6.14 | 1 | NA | NA | NA | 04/10/1215:04 | 04/10/1214:51 | 12PHD007S05 | PHD007S | PHD007S | 04/09/1214:12 | 04/09/12 |
| SL-174-NBZ-SS-0.0-0.5 | D084-05 | 6.64 | 1 | NA | NA | NA | 04/10/1215:05 | 04/10/1214:51 | 12PHD007S06 | PHD007S | PHD007S | 04/09/1214:46 | 04/09/12 |
| SL-185-NBZ-SS-0.0-0.5 | D084-06 | 6.72 | 1 | NA | NA | NA | 04/10/1215:07 | 04/10/1214:51 | 12PHD007S07 | PHD007S | PHD007S | 04/09/1210:50 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5 | D084-07 | 6.77 | 1 | NA | NA | NA | 04/10/1215:08 | 04/10/1214:51 | 12PHD007S08 | PHD007S | PHD007S | 04/09/1211:22 | 04/09/12 |
| SL-191-NBZ-SS-0.0-0.5DUP | D084-07D | 6.75 | 1 | NA | NA | NA | 04/10/1215:09 | 04/10/1214:51 | 12PHD007S09 | PHD007S | PHD007S | 04/09/1211:22 | 04/09/12 |
| DUP-06-NBZ-QC-040912 | D084-08 | 6.75 | 1 | NA | NA | NA | 04/10/1215:11 | 04/10/1214:51 | 12PHD007S10 | PHD007S | PHD007S | 04/09/1215:20 | 04/09/12 |

# SAMPLE DELIVERY GROUP

# 12D092

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-009-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 13:53 |
| Lab Samp ID: D092-01 | Dilution Factor: 1 |
| Lab File ID: RDJ313 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 13.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 97 |
| 1,2-DICHLOROBENZENE | ND | 190 | 97 |
| 1,3-DICHLOROBENZENE | ND | 190 | 97 |
| 1,4-DICHLOROBENZENE | ND | 190 | 97 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 97 |
| 2,4-DINITROPHENOL | ND | 390 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 97 |
| 2,6-DINITROTOLUENE | ND | 190 | 97 |
| 2-CHLORONAPHTHALENE | ND | 190 | 97 |
| 2-CHLOROPHENOL | ND | 190 | 97 |
| 2-METHYLNAPHTHALENE | ND | 190 | 97 |
| 2-METHYLPHENOL | ND | 190 | 97 |
| 2-NITROANILINE | ND | 190 | 97 |
| 2-NITROPHENOL | ND | 190 | 97 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 97 |
| 3-NITROANILINE | ND | 190 | 97 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 97 |
| 4-CHLOROANILINE | ND | 190 | 97 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-METHYLPHENOL (1) | ND | 190 | 97 |
| 4-NITROANILINE | ND | 190 | 97 |
| 4-NITROPHENOL | ND | 390 | 190 |
| ACENAPHTHENE | ND | 190 | 97 |
| ACENAPHTHYLENE | ND | 190 | 97 |
| ANTHRACENE | ND | 190 | 97 |
| BENZO(A)ANTHRACENE | ND | 190 | 97 |
| BENZO(A)PYRENE | ND | 190 | 97 |
| BENZO(B)FLUORANTHENE | ND | 190 | 97 |
| BENZO(K)FLUORANTHENE | ND | 190 | 97 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 97 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 97 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 97 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 97 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 97 |
| CHRYSENE | ND | 190 | 97 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 97 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 97 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 97 |
| DIBENZOFURAN | ND | 190 | 97 |
| DIETHYLPHTHALATE | ND | 190 | 97 |
| DIMETHYLPHTHALATE | ND | 190 | 97 |
| FLUORANTHENE | ND | 190 | 97 |
| FLUORENE | ND | 190 | 97 |
| HEXACHLOROBENZENE | ND | 190 | 97 |
| HEXACHLOROBUTADIENE | ND | 190 | 97 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 97 |
| HEXACHLOROETHANE | ND | 190 | 97 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 97 |
| ISOPHORONE | ND | 190 | 97 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 97 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 97 |
| NAPHTHALENE | ND | 190 | 97 |
| NITROBENZENE | ND | 190 | 97 |
| PENTACHLOROPHENOL | ND | 390 | 190 |
| PHENANTHRENE | ND | 190 | 97 |
| PHENOL | ND | 190 | 97 |
| PYRENE | ND | 190 | 97 |
| BENZYL ALCOHOL | ND | 190 | 97 |
| 1-METHYLNAPHTHALENE | ND | 190 | 97 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 97 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 97 |
| ANILINE | ND | 390 | 190 |
| BENZIDINE | ND | 960 | 490 |
| BENZOIC ACID | ND | 770 | 390 |
| CARBAZOLE | ND | 190 | 97 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 97 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 932 | 1157 | 80.6 | 35-130 |
| 2-FLUOROBIPHENYL | 270 | 385.8 | 70.0 | 45-130 |
| 2-FLUOROPHENOL | 764 | 1157 | 66.0 | 25-130 |
| NITROBENZENE-D5 | 293 | 385.8 | 75.9 | 40-130 |
| PHENOL-D5 | 813 | 1157 | 70.2 | 25-120 |
| TERPHENYL-D14 | 314 | 385.8 | 81.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-084-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 14:13 |
| Lab Samp ID: D092-02 | Dilution Factor: 1 |
| Lab File ID: RDJ314 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 14.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 98 |
| 1,2-DICHLOROBENZENE | ND | 200 | 98 |
| 1,3-DICHLOROBENZENE | ND | 200 | 98 |
| 1,4-DICHLOROBENZENE | ND | 200 | 98 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 98 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 98 |
| 2,4-DICHLOROPHENOL | ND | 200 | 98 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 98 |
| 2,4-DINITROPHENOL | ND | 390 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 98 |
| 2,6-DINITROTOLUENE | ND | 200 | 98 |
| 2-CHLORONAPHTHALENE | ND | 200 | 98 |
| 2-CHLOROPHENOL | ND | 200 | 98 |
| 2-METHYLNAPHTHALENE | ND | 200 | 98 |
| 2-METHYLPHENOL | ND | 200 | 98 |
| 2-NITROANILINE | ND | 200 | 98 |
| 2-NITROPHENOL | ND | 200 | 98 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 98 |
| 3-NITROANILINE | ND | 200 | 98 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 98 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 98 |
| 4-CHLOROANILINE | ND | 200 | 98 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 98 |
| 4-METHYLPHENOL (1) | ND | 200 | 98 |
| 4-NITROANILINE | ND | 200 | 98 |
| 4-NITROPHENOL | ND | 390 | 200 |
| ACENAPHTHENE | ND | 200 | 98 |
| ACENAPHTHYLENE | ND | 200 | 98 |
| ANTHRACENE | ND | 200 | 98 |
| BENZO(A)ANTHRACENE | ND | 200 | 98 |
| BENZO(A)PYRENE | ND | 200 | 98 |
| BENZO(B)FLUORANTHENE | ND | 200 | 98 |
| BENZO(K)FLUORANTHENE | ND | 200 | 98 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 98 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 98 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 98 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 98 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 98 |
| CHRYSENE | ND | 200 | 98 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 98 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 98 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 98 |
| DIBENZOFURAN | ND | 200 | 98 |
| DIETHYLPHTHALATE | ND | 200 | 98 |
| DIMETHYLPHTHALATE | ND | 200 | 98 |
| FLUORANTHENE | ND | 200 | 98 |
| FLUORENE | ND | 200 | 98 |
| HEXACHLOROBENZENE | ND | 200 | 98 |
| HEXACHLOROBUTADIENE | ND | 200 | 98 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 98 |
| HEXACHLOROETHANE | ND | 200 | 98 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 98 |
| ISOPHORONE | ND | 200 | 98 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 98 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 98 |
| NAPHTHALENE | ND | 200 | 98 |
| NITROBENZENE | ND | 200 | 98 |
| PENTACHLOROPHENOL | ND | 390 | 200 |
| PHENANTHRENE | ND | 200 | 98 |
| PHENOL | ND | 200 | 98 |
| PYRENE | ND | 200 | 98 |
| BENZYL ALCOHOL | ND | 200 | 98 |
| 1-METHYLNAPHTHALENE | ND | 200 | 98 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 98 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 98 |
| ANILINE | ND | 390 | 200 |
| BENZIDINE | ND | 970 | 490 |
| BENZOIC ACID | ND | 780 | 390 |
| CARBAZOLE | ND | 200 | 98 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 98 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 982 | 1168 | 84.1 | 35-130 |
| 2-FLUOROBIPHENYL | 274 | 389.4 | 70.4 | 45-130 |
| 2-FLUOROPHENOL | 808 | 1168 | 69.2 | 25-130 |
| NITROBENZENE-D5 | 310 | 389.4 | 79.6 | 40-130 |
| PHENOL-D5 | 850 | 1168 | 72.8 | 25-120 |
| TERPHENYL-D14 | 314 | 389.4 | 80.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-085-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 14:34 |
| Lab Samp ID: D092-03 | Dilution Factor: 1 |
| Lab File ID: RDJ315 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 15.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 99 |
| 1,2-DICHLOROBENZENE | ND | 200 | 99 |
| 1,3-DICHLOROBENZENE | ND | 200 | 99 |
| 1,4-DICHLOROBENZENE | ND | 200 | 99 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 99 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 99 |
| 2,4-DICHLOROPHENOL | ND | 200 | 99 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 99 |
| 2,4-DINITROPHENOL | ND | 390 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 99 |
| 2,6-DINITROTOLUENE | ND | 200 | 99 |
| 2-CHLORONAPHTHALENE | ND | 200 | 99 |
| 2-CHLOROPHENOL | ND | 200 | 99 |
| 2-METHYLNAPHTHALENE | ND | 200 | 99 |
| 2-METHYLPHENOL | ND | 200 | 99 |
| 2-NITROANILINE | ND | 200 | 99 |
| 2-NITROPHENOL | ND | 200 | 99 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 99 |
| 3-NITROANILINE | ND | 200 | 99 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 99 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 99 |
| 4-CHLOROANILINE | ND | 200 | 99 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 99 |
| 4-METHYLPHENOL (1) | ND | 200 | 99 |
| 4-NITROANILINE | ND | 200 | 99 |
| 4-NITROPHENOL | ND | 390 | 200 |
| ACENAPHTHENE | ND | 200 | 99 |
| ACENAPHTHYLENE | ND | 200 | 99 |
| ANTHRACENE | ND | 200 | 99 |
| BENZO(A)ANTHRACENE | ND | 200 | 99 |
| BENZO(A)PYRENE | ND | 200 | 99 |
| BENZO(B)FLUORANTHENE | ND | 200 | 99 |
| BENZO(K)FLUORANTHENE | ND | 200 | 99 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 99 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 99 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 99 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 99 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 99 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 99 |
| CHRYSENE | ND | 200 | 99 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 99 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 99 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 99 |
| DIBENZOFURAN | ND | 200 | 99 |
| DIETHYLPHTHALATE | ND | 200 | 99 |
| DIMETHYLPHTHALATE | ND | 200 | 99 |
| FLUORANTHENE | ND | 200 | 99 |
| FLUORENE | ND | 200 | 99 |
| HEXACHLOROBENZENE | ND | 200 | 99 |
| HEXACHLOROBUTADIENE | ND | 200 | 99 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 99 |
| HEXACHLOROETHANE | ND | 200 | 99 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 99 |
| ISOPHORONE | ND | 200 | 99 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 99 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 99 |
| NAPHTHALENE | ND | 200 | 99 |
| NITROBENZENE | ND | 200 | 99 |
| PENTACHLOROPHENOL | ND | 390 | 200 |
| PHENANTHRENE | ND | 200 | 99 |
| PHENOL | ND | 200 | 99 |
| PYRENE | ND | 200 | 99 |
| BENZYL ALCOHOL | ND | 200 | 99 |
| 1-METHYLNAPHTHALENE | ND | 200 | 99 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 99 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 99 |
| ANILINE | ND | 390 | 200 |
| BENZIDINE | ND | 980 | 500 |
| BENZOIC ACID | ND | 790 | 390 |
| CARBAZOLE | ND | 200 | 99 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 99 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 998 | 1182 | 84.5 | 35-130 |
| 2-FLUOROBIPHENYL | 208 | 394.0 | 52.9 | 45-130 |
| 2-FLUOROPHENOL | 536 | 1182 | 45.3 | 25-130 |
| NITROBENZENE-D5 | 189 | 394.0 | 48.0 | 40-130 |
| PHENOL-D5 | 638 | 1182 | 53.9 | 25-120 |
| TERPHENYL-D14 | 319 | 394.0 | 81.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-186-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 14:55 |
| Lab Samp ID: D092-04 | Dilution Factor: 1 |
| Lab File ID: RDJ316 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 7.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 100J | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 450 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 906 | 1081 | 83.8 | 35-130 |
| 2-FLUOROBIPHENYL | 262 | 360.3 | 72.8 | 45-130 |
| 2-FLUOROPHENOL | 760 | 1081 | 70.3 | 25-130 |
| NITROBENZENE-D5 | 283 | 360.3 | 78.5 | 40-130 |
| PHENOL-D5 | 780 | 1081 | 72.1 | 25-120 |
| TERPHENYL-D14 | 305 | 360.3 | 84.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-177-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 15:15 |
| Lab Samp ID: D092-05 | Dilution Factor: 1 |
| Lab File ID: RDJ317 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 5.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 89 |
| 1,2-DICHLOROBENZENE | ND | 180 | 89 |
| 1,3-DICHLOROBENZENE | ND | 180 | 89 |
| 1,4-DICHLOROBENZENE | ND | 180 | 89 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 89 |
| 2,4-DINITROPHENOL | ND | 350 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 89 |
| 2,6-DINITROTOLUENE | ND | 180 | 89 |
| 2-CHLORONAPHTHALENE | ND | 180 | 89 |
| 2-CHLOROPHENOL | ND | 180 | 89 |
| 2-METHYLNAPHTHALENE | ND | 180 | 89 |
| 2-METHYLPHENOL | ND | 180 | 89 |
| 2-NITROANILINE | ND | 180 | 89 |
| 2-NITROPHENOL | ND | 180 | 89 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 89 |
| 3-NITROANILINE | ND | 180 | 89 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 89 |
| 4-CHLOROANILINE | ND | 180 | 89 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-METHYLPHENOL (1) | ND | 180 | 89 |
| 4-NITROANILINE | ND | 180 | 89 |
| 4-NITROPHENOL | ND | 350 | 180 |
| ACENAPHTHENE | ND | 180 | 89 |
| ACENAPHTHYLENE | ND | 180 | 89 |
| ANTHRACENE | ND | 180 | 89 |
| BENZO(A)ANTHRACENE | ND | 180 | 89 |
| BENZO(A)PYRENE | ND | 180 | 89 |
| BENZO(B)FLUORANTHENE | ND | 180 | 89 |
| BENZO(K)FLUORANTHENE | ND | 180 | 89 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 89 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 89 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 89 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 89 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 89 |
| CHRYSENE | ND | 180 | 89 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 89 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 89 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 89 |
| DIBENZOFURAN | ND | 180 | 89 |
| DIETHYLPHTHALATE | ND | 180 | 89 |
| DIMETHYLPHTHALATE | ND | 180 | 89 |
| FLUORANTHENE | ND | 180 | 89 |
| FLUORENE | ND | 180 | 89 |
| HEXACHLOROBENZENE | ND | 180 | 89 |
| HEXACHLOROBUTADIENE | ND | 180 | 89 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 89 |
| HEXACHLOROETHANE | ND | 180 | 89 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 89 |
| ISOPHORONE | ND | 180 | 89 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 89 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 89 |
| NAPHTHALENE | ND | 180 | 89 |
| NITROBENZENE | ND | 180 | 89 |
| PENTACHLOROPHENOL | ND | 350 | 180 |
| PHENANTHRENE | ND | 180 | 89 |
| PHENOL | ND | 180 | 89 |
| PYRENE | ND | 180 | 89 |
| BENZYL ALCOHOL | ND | 180 | 89 |
| 1-METHYLNAPHTHALENE | ND | 180 | 89 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 89 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 89 |
| ANILINE | ND | 350 | 180 |
| BENZIDINE | ND | 880 | 440 |
| BENZOIC ACID | ND | 710 | 350 |
| CARBAZOLE | ND | 180 | 89 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 89 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 847 | 1058 | 80.1 | 35-130 |
| 2-FLUOROBIPHENYL | 229 | 352.7 | 64.9 | 45-130 |
| 2-FLUOROPHENOL | 663 | 1058 | 62.7 | 25-130 |
| NITROBENZENE-D5 | 241 | 352.7 | 68.4 | 40-130 |
| PHENOL-D5 | 692 | 1058 | 65.4 | 25-120 |
| TERPHENYL-D14 | 316 | 352.7 | 89.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-188-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 15:36 |
| Lab Samp ID: D092-06 | Dilution Factor: 1 |
| Lab File ID: RDJ318 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 7.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 90 |
| 1,2-DICHLOROBENZENE | ND | 180 | 90 |
| 1,3-DICHLOROBENZENE | ND | 180 | 90 |
| 1,4-DICHLOROBENZENE | ND | 180 | 90 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 90 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 90 |
| 2,4-DICHLOROPHENOL | ND | 180 | 90 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 90 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 90 |
| 2,6-DINITROTOLUENE | ND | 180 | 90 |
| 2-CHLORONAPHTHALENE | ND | 180 | 90 |
| 2-CHLOROPHENOL | ND | 180 | 90 |
| 2-METHYLNAPHTHALENE | ND | 180 | 90 |
| 2-METHYLPHENOL | ND | 180 | 90 |
| 2-NITROANILINE | ND | 180 | 90 |
| 2-NITROPHENOL | ND | 180 | 90 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 90 |
| 3-NITROANILINE | ND | 180 | 90 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 90 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 90 |
| 4-CHLOROANILINE | ND | 180 | 90 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 90 |
| 4-METHYLPHENOL (1) | ND | 180 | 90 |
| 4-NITROANILINE | ND | 180 | 90 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 90 |
| ACENAPHTHYLENE | ND | 180 | 90 |
| ANTHRACENE | ND | 180 | 90 |
| BENZO(A)ANTHRACENE | ND | 180 | 90 |
| BENZO(A)PYRENE | ND | 180 | 90 |
| BENZO(B)FLUORANTHENE | ND | 180 | 90 |
| BENZO(K)FLUORANTHENE | ND | 180 | 90 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 90 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 90 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 90 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 90 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 90 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 90 |
| CHRYSENE | ND | 180 | 90 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 90 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 90 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 90 |
| DIBENZOFURAN | ND | 180 | 90 |
| DIETHYLPHTHALATE | ND | 180 | 90 |
| DIMETHYLPHTHALATE | ND | 180 | 90 |
| FLUORANTHENE | ND | 180 | 90 |
| FLUORENE | ND | 180 | 90 |
| HEXACHLOROBENZENE | ND | 180 | 90 |
| HEXACHLOROBUTADIENE | ND | 180 | 90 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 90 |
| HEXACHLOROETHANE | ND | 180 | 90 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 90 |
| ISOPHORONE | ND | 180 | 90 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 90 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 90 |
| NAPHTHALENE | ND | 180 | 90 |
| NITROBENZENE | ND | 180 | 90 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 90 |
| PHENOL | ND | 180 | 90 |
| PYRENE | ND | 180 | 90 |
| BENZYL ALCOHOL | ND | 180 | 90 |
| 1-METHYLNAPHTHALENE | ND | 180 | 90 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 90 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 90 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 890 | 450 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 90 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 90 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 760 | 1076 | 70.6 | 35-130 |
| 2-FLUOROBIPHENYL | 228 | 358.8 | 63.4 | 45-130 |
| 2-FLUOROPHENOL | 643 | 1076 | 59.8 | 25-130 |
| NITROBENZENE-D5 | 235 | 358.8 | 65.4 | 40-130 |
| PHENOL-D5 | 653 | 1076 | 60.6 | 25-120 |
| TERPHENYL-D14 | 274 | 358.8 | 76.3 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 14:34 |
| Sample ID: DUP-07-NBZ-QC-041012 | Date Analyzed: 04/19/12 15:57 |
| Lab Samp ID: D092-07 | Dilution Factor: 1 |
| Lab File ID: RDJ319 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 12.9 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 96 |
| 1,2-DICHLOROBENZENE | ND | 190 | 96 |
| 1,3-DICHLOROBENZENE | ND | 190 | 96 |
| 1,4-DICHLOROBENZENE | ND | 190 | 96 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 96 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 96 |
| 2,6-DINITROTOLUENE | ND | 190 | 96 |
| 2-CHLORONAPHTHALENE | ND | 190 | 96 |
| 2-CHLOROPHENOL | ND | 190 | 96 |
| 2-METHYLNAPHTHALENE | ND | 190 | 96 |
| 2-METHYLPHENOL | ND | 190 | 96 |
| 2-NITROANILINE | ND | 190 | 96 |
| 2-NITROPHENOL | ND | 190 | 96 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 96 |
| 3-NITROANILINE | ND | 190 | 96 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 96 |
| 4-CHLOROANILINE | ND | 190 | 96 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-METHYLPHENOL (1) | ND | 190 | 96 |
| 4-NITROANILINE | ND | 190 | 96 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 96 |
| ACENAPHTHYLENE | ND | 190 | 96 |
| ANTHRACENE | ND | 190 | 96 |
| BENZO(A)ANTHRACENE | ND | 190 | 96 |
| BENZO(A)PYRENE | ND | 190 | 96 |
| BENZO(B)FLUORANTHENE | ND | 190 | 96 |
| BENZO(K)FLUORANTHENE | ND | 190 | 96 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 96 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 96 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 96 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 96 |
| CHRYSENE | ND | 190 | 96 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 96 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 96 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 96 |
| DIBENZOFURAN | ND | 190 | 96 |
| DIETHYLPHTHALATE | ND | 190 | 96 |
| DIMETHYLPHTHALATE | ND | 190 | 96 |
| FLUORANTHENE | ND | 190 | 96 |
| FLUORENE | ND | 190 | 96 |
| HEXACHLOROBENZENE | ND | 190 | 96 |
| HEXACHLOROBUTADIENE | ND | 190 | 96 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 96 |
| HEXACHLOROETHANE | ND | 190 | 96 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 96 |
| ISOPHORONE | ND | 190 | 96 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 96 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 96 |
| NAPHTHALENE | ND | 190 | 96 |
| NITROBENZENE | ND | 190 | 96 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 96 |
| PHENOL | ND | 190 | 96 |
| PYRENE | ND | 190 | 96 |
| BENZYL ALCOHOL | ND | 190 | 96 |
| 1-METHYLNAPHTHALENE | ND | 190 | 96 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 96 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 96 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 950 | 480 |
| BENZOIC ACID | ND | 770 | 380 |
| CARBAZOLE | ND | 190 | 96 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 96 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 873 | 1148 | 76.0 | 35-130 |
| 2-FLUOROBIPHENYL | 239 | 382.7 | 62.4 | 45-130 |
| 2-FLUOROPHENOL | 650 | 1148 | 56.6 | 25-130 |
| NITROBENZENE-D5 | 243 | 382.7 | 63.6 | 40-130 |
| PHENOL-D5 | 701 | 1148 | 61.1 | 25-120 |
| TERPHENYL-D14 | 302 | 382.7 | 78.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 14:34 |
| Sample ID: MBLK1S | Date Analyzed: 04/19/12 10:47 |
| Lab Samp ID: SVD035SB | Dilution Factor: 1 |
| Lab File ID: RDJ304 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 847 | 1000 | 84.7 | 35-130 |
| 2-FLUOROBIPHENYL | 277 | 333.3 | 83.0 | 45-130 |
| 2-FLUOROPHENOL | 832 | 1000 | 83.2 | 25-130 |
| NITROBENZENE-D5 | 302 | 333.3 | 90.5 | 40-130 |
| PHENOL-D5 | 808 | 1000 | 80.8 | 25-120 |
| TERPHENYL-D14 | 323 | 333.3 | 96.8 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVD035SB SVD035SL SVD035SC
LAB FILE ID: RDJ304 RDJ305 RDJ306
DATE EXTRACTED: 04/18/1214:34 04/18/1214:34 04/18/1214:34 DATE COLLECTED: NA
DATE ANALYZED: 04/19/1210:47 04/19/1211:07 04/19/1211:28 DATE RECEIVED: 04/18/12
PREP. BATCH: SVD035S SVD035S SVD035S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 517 | 78 | 667 | 426 | 64 | 19 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 458 | 69 | 667 | 390 | 59 | 16 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 455 | 68 | 667 | 389 | 58 | 16 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 459 | 69 | 667 | 382 | 57 | 18 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 559 | 84 | 667 | 448 | 67 | 22 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 594 | 89 | 667 | 496 | 74 | 18 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 540 | 81 | 667 | 454 | 68 | 17 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 570 | 86 | 667 | 479 | 72 | 17 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 517 | 78 | 667 | 408 | 61 | 24 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 707 | 106 | 667 | 545 | 82 | 26 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 627 | 94 | 667 | 507 | 76 | 21 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 490 | 74 | 667 | 417 | 63 | 16 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 511 | 77 | 667 | 437 | 66 | 16 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 611 | 92 | 667 | 512 | 77 | 18 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 477 | 71 | 667 | 412 | 62 | 15 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 679 | 102 | 667 | 540 | 81 | 23 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 568 | 85 | 667 | 470 | 70 | 19 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 624 | 94 | 667 | 451 | 68 | 32 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 545 | 82 | 667 | 428 | 64 | 24 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 635 | 95 | 667 | 476 | 71 | 29 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 564 | 85 | 667 | 460 | 69 | 20 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 592 | 89 | 667 | 497 | 75 | 17 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 485 | 73 | 667 | 398 | 60 | 20 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 640 | 96 | 667 | 528 | 79 | 19 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 495 | 74 | 667 | 422 | 63 | 16 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 625 | 94 | 667 | 456 | 68 | 31 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 719 | 108 | 667 | 535 | 80 | 29 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 570 | 85 | 667 | 470 | 71 | 19 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 600 | 90 | 667 | 502 | 75 | 18 | 30-130 | 50 |
| Anthracene | ND | 667 | 586 | 88 | 667 | 462 | 69 | 24 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 679 | 102 | 667 | 504 | 76 | 30 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 661 | 99 | 667 | 491 | 74 | 29 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 720 | 108 | 667 | 525 | 79 | 31 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 679 | 102 | 667 | 536 | 80 | 24 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 699 | 105 | 667 | 527 | 79 | 28 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 643 | 96 | 667 | 544 | 82 | 17 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 621 | 93 | 667 | 514 | 77 | 19 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 724 | 109 | 667 | 609 | 91 | 17 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 658 | 99 | 667 | 495 | 74 | 28 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 680 | 102 | 667 | 504 | 76 | 30 | 40-150 | 50 |
| Chrysene | ND | 667 | 675 | 101 | 667 | 512 | 77 | 28 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 650 | 97 | 667 | 485 | 73 | 29 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 662 | 99 | 667 | 497 | 75 | 28 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 692 | 104 | 667 | 528 | 79 | 27 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 555 | 83 | 667 | 460 | 69 | 19 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 639 | 96 | 667 | 499 | 75 | 25 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 615 | 92 | 667 | 494 | 74 | 22 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 686 | 103 | 667 | 515 | 77 | 28 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 635 | 95 | 667 | 518 | 78 | 20 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 565 | 85 | 667 | 457 | 69 | 21 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 569 | 85 | 667 | 473 | 71 | 18 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 423 | 63 | 667 | 350 | 53 | 19 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 503 | 75 | 667 | 430 | 65 | 15 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 716 | 107 | 667 | 527 | 79 | 30 | 30-140 | 50 |
| Isophorone | ND | 667 | 649 | 97 | 667 | 538 | 81 | 19 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 513 | 77 | 667 | 433 | 65 | 17 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 432 | 65 | 667 | 346 | 52 | 22 | 30-140 | 50 |
| Naphthalene | ND | 667 | 581 | 87 | 667 | 487 | 73 | 18 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 630 | 95 | 667 | 526 | 79 | 18 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 609 | 91 | 667 | 445 | 67 | 31 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 610 | 92 | 667 | 481 | 72 | 24 | 30-130 | 50 |
| Phenol | ND | 667 | 531 | 80 | 667 | 456 | 68 | 15 | 30-130 | 50 |
| Pyrene | ND | 667 | 636 | 95 | 667 | 485 | 73 | 27 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 508 | 76 | 667 | 433 | 65 | 16 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 603 | 90 | 667 | 508 | 76 | 17 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 554 | 83 | 667 | 457 | 69 | 19 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 489 | 73 | 667 | 404 | 61 | 19 | 20-150 | 50 |
| Aniline | ND | 667 | 409 | 61 | 667 | 341 | 51 | 18 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1690 | 63 | 2670 | 1300 | 49 | 26 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 1060 | 40 | 2670 | 905 | 34 | 16 | 10-130 | 50 |
| Carbazole | ND | 667 | 617 | 93 | 667 | 464 | 70 | 28 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 673 | 101 | 667 | 546 | 82 | 21 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 812 | 81 | 1000 | 696 | 70 | 35-130 |
| 2-Fluorobiphenyl | 333 | 238 | 71 | 333 | 216 | 65 | 45-130 |
| 2-Fluorophenol | 1000 | 696 | 70 | 1000 | 627 | 63 | 25-130 |
| Nitrobenzene-d5 | 333 | 263 | 79 | 333 | 235 | 71 | 40-130 |
| Phenol-d5 | 1000 | 701 | 70 | 1000 | 627 | 63 | 25-120 |
| Terphenyl-d14 | 333 | 296 | 89 | 333 | 237 | 71 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: 13.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-009-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D092-01 | D092-01M | D092-01S | | |
| LAB FILE ID: | RDJ313 | RDJ309 | RDJ310 | | |
| DATE EXTRACTED: | 04/18/1214:34 | 04/18/1214:34 | 04/18/1214:34 | DATE COLLECTED: | 04/10/12 |
| DATE ANALYZED: | 04/19/1213:53 | 04/19/1212:30 | 04/19/1212:51 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | SVD035S | SVD035S | SVD035S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 772 | 441 | 57 | 772 | 474 | 61 | 7 | 10-130 | 50 |
| 1,2-Dichlorobenzene | ND | 772 | 323 | 42 | 772 | 323 | 42 | 0 | 30-130 | 50 |
| 1,3-Dichlorobenzene | ND | 772 | 282 | 37 | 772 | 282 | 37 | 0 | 30-130 | 50 |
| 1,4-Dichlorobenzene | ND | 772 | 292 | 38 | 772 | 291 | 38 | 0 | 10-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 772 | 595 | 77 | 772 | 646 | 84 | 8 | 30-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 772 | 642 | 83 | 772 | 677 | 88 | 5 | 30-130 | 50 |
| 2,4-Dichlorophenol | ND | 772 | 559 | 72 | 772 | 616 | 80 | 10 | 30-130 | 50 |
| 2,4-Dimethylphenol | ND | 772 | 587 | 76 | 772 | 613 | 79 | 4 | 30-130 | 50 |
| 2,4-Dinitrophenol | ND | 772 | 458 | 59 | 772 | 504 | 65 | 10 | 10-130 | 50 |
| 2,4-Dinitrotoluene | ND | 772 | 670 | 87 | 772 | 732 | 95 | 9 | 20-130 | 50 |
| 2,6-Dinitrotoluene | ND | 772 | 650 | 84 | 772 | 690 | 89 | 6 | 30-130 | 50 |
| 2-Chloronaphthalene | ND | 772 | 505 | 65 | 772 | 540 | 70 | 7 | 30-130 | 50 |
| 2-Chlorophenol | ND | 772 | 510 | 66 | 772 | 555 | 72 | 9 | 20-130 | 50 |
| 2-Methylnaphthalene | ND | 772 | 581 | 75 | 772 | 642 | 83 | 10 | 30-130 | 50 |
| 2-Methylphenol | ND | 772 | 493 | 64 | 772 | 552 | 72 | 11 | 30-130 | 50 |
| 2-Nitroaniline | ND | 772 | 712 | 92 | 772 | 772 | 100 | 8 | 30-130 | 50 |
| 2-Nitrophenol | ND | 772 | 538 | 70 | 772 | 607 | 79 | 12 | 30-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 772 | 434 | 56 | 772 | 426 | 55 | 2 | 30-130 | 50 |
| 3-Nitroaniline | ND | 772 | 499 | 65 | 772 | 548 | 71 | 9 | 30-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 772 | 615 | 80 | 772 | 635 | 82 | 3 | 30-130 | 50 |
| 4-Bromophenyl-phenylether | ND | 772 | 594 | 77 | 772 | 622 | 81 | 5 | 30-130 | 50 |
| 4-Chloro-3-Methylphenol | ND | 772 | 622 | 81 | 772 | 680 | 88 | 9 | 20-130 | 50 |
| 4-Chloroaniline | ND | 772 | 427 | 55 | 772 | 457 | 59 | 7 | 30-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 772 | 651 | 84 | 772 | 705 | 91 | 8 | 30-130 | 50 |
| 4-Methylphenol | ND | 772 | 519 | 67 | 772 | 546 | 71 | 5 | 20-130 | 50 |
| 4-Nitroaniline | ND | 772 | 542 | 70 | 772 | 566 | 73 | 4 | 40-130 | 50 |
| 4-Nitrophenol | ND | 772 | 661 | 86 | 772 | 702 | 91 | 6 | 10-130 | 50 |
| Acenaphthene | ND | 772 | 586 | 76 | 772 | 622 | 81 | 6 | 20-130 | 50 |
| Acenaphthylene | ND | 772 | 621 | 80 | 772 | 660 | 86 | 6 | 20-130 | 50 |
| Anthracene | ND | 772 | 592 | 77 | 772 | 609 | 79 | 3 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 772 | 646 | 84 | 772 | 673 | 87 | 4 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 772 | 627 | 81 | 772 | 645 | 84 | 3 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 772 | 667 | 86 | 772 | 732 | 95 | 9 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 772 | 676 | 88 | 772 | 672 | 87 | 1 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 772 | 637 | 83 | 772 | 660 | 86 | 4 | 30-130 | 50 |
| bis(2-Chloroethoxy)methane | ND | 772 | 624 | 81 | 772 | 680 | 88 | 9 | 30-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 772 | 557 | 72 | 772 | 576 | 75 | 3 | 30-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 772 | 619 | 80 | 772 | 668 | 87 | 8 | 20-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 772 | 673 | 87 | 772 | 701 | 91 | 4 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 772 | 707 | 92 | 772 | 736 | 95 | 4 | 30-130 | 50 |
| Chrysene | ND | 772 | 670 | 87 | 772 | 681 | 88 | 2 | 30-130 | 50 |
| Di-n-butylphthalate | ND | 772 | 634 | 82 | 772 | 664 | 86 | 5 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 772 | 706 | 91 | 772 | 750 | 97 | 6 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 772 | 659 | 85 | 772 | 681 | 88 | 3 | 30-130 | 50 |
| Dibenzofuran | ND | 772 | 570 | 74 | 772 | 608 | 79 | 7 | 30-130 | 50 |
| Diethylphthalate | ND | 772 | 640 | 83 | 772 | 684 | 89 | 7 | 30-130 | 50 |
| Dimethylphthalate | ND | 772 | 628 | 81 | 772 | 673 | 87 | 7 | 30-130 | 50 |
| Fluoranthene | ND | 772 | 648 | 84 | 772 | 684 | 89 | 5 | 30-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 772 | 645 | 84 | 772 | 700 | 91 | 8 | 20-130 | 50 |
| Hexachlorobenzene | ND | 772 | 582 | 75 | 772 | 605 | 78 | 4 | 10-160 | 50 |
| Hexachlorobutadiene | ND | 772 | 446 | 58 | 772 | 467 | 61 | 5 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 772 | 365 | 47 | 772 | 321 | 42 | 13 | 10-130 | 50 |
| Hexachloroethane | ND | 772 | 304 | 39 | 772 | 286 | 37 | 6 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 772 | 656 | 85 | 772 | 675 | 87 | 3 | 20-130 | 50 |
| Isophorone | ND | 772 | 657 | 85 | 772 | 700 | 91 | 6 | 30-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 772 | 504 | 65 | 772 | 555 | 72 | 10 | 20-130 | 50 |
| n-Nitrosodiphenylamine | ND | 772 | 457 | 59 | 772 | 466 | 60 | 2 | 20-140 | 50 |
| Naphthalene | ND | 772 | 523 | 68 | 772 | 562 | 73 | 7 | 30-130 | 50 |
| Nitrobenzene | ND | 772 | 574 | 74 | 772 | 638 | 83 | 11 | 30-130 | 50 |
| Pentachlorophenol | ND | 772 | 598 | 78 | 772 | 630 | 82 | 5 | 10-130 | 50 |
| Phenanthrene | ND | 772 | 624 | 81 | 772 | 644 | 83 | 3 | 20-130 | 50 |
| Phenol | ND | 772 | 554 | 72 | 772 | 609 | 79 | 9 | 20-130 | 50 |
| Pyrene | ND | 772 | 642 | 83 | 772 | 662 | 86 | 3 | 10-160 | 50 |
| Benzyl Alcohol | ND | 772 | 521 | 68 | 772 | 591 | 77 | 12 | 30-130 | 50 |
| 1-Methylnaphthalene | ND | 772 | 583 | 76 | 772 | 643 | 83 | 10 | 20-130 | 50 |
| 1,2-Diphenylhydrazine | ND | 772 | 575 | 75 | 772 | 602 | 78 | 5 | 20-150 | 50 |
| 3,5-Dimethylphenol | ND | 772 | 503 | 65 | 772 | 625 | 81 | 22 | 20-130 | 50 |
| Aniline | ND | 772 | 343J | 44 | 772 | 350J | 45 | 2 | 10-150 | 50 |
| Benzidine | ND | 3090 | ND | 0* | 3090 | ND | 0* | 0 | 10-150 | 50 |
| Benzoic Acid | ND | 3090 | 1550 | 50 | 3090 | 1690 | 55 | 9 | 10-130 | 50 |
| Carbazole | ND | 772 | 601 | 78 | 772 | 616 | 80 | 2 | 30-130 | 50 |
| N-Nitrosodimethylamine | ND | 772 | 611 | 79 | 772 | 657 | 85 | 7 | 20-130 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1160 | 894 | 77 | 1160 | 932 | 81 | 35-130 |
| 2-Fluorobiphenyl | 386 | 253 | 66 | 386 | 270 | 70 | 45-130 |
| 2-Fluorophenol | 1160 | 704 | 61 | 1160 | 767 | 66 | 25-130 |
| Nitrobenzene-d5 | 386 | 255 | 66 | 386 | 290 | 75 | 40-130 |
| Phenol-d5 | 1160 | 731 | 63 | 1160 | 807 | 70 | 25-120 |
| Terphenyl-d14 | 386 | 288 | 75 | 386 | 303 | 79 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-009-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 13:53 |
| Lab Samp ID: D092-01 | Dilution Factor: 1 |
| Lab File ID: RDJ313 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 13.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 0.98 |
| ACENAPHTHYLENE | ND | 2.0 | 0.98 |
| ANTHRACENE | ND | 2.0 | 0.98 |
| BENZO(A)ANTHRACENE | 1.7J | 2.0 | 0.98 |
| BENZO(A)PYRENE | ND | 2.0 | 0.98 |
| BENZO(B)FLUORANTHENE | 1.8J | 2.0 | 0.98 |
| BENZO(K)FLUORANTHENE | 1.4J | 2.0 | 0.98 |
| BENZO(G,H,I)PERYLENE | 1.4J | 2.0 | 0.98 |
| CHRYSENE | 1.6J | 2.0 | 0.98 |
| DIBENZO(A,H)ANTHRACENE | 1.1J | 2.0 | 0.98 |
| FLUORANTHENE | 1.6J | 2.0 | 0.98 |
| FLUORENE | ND | 2.0 | 0.98 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 0.98 |
| NAPHTHALENE | ND | 2.0 | 0.98 |
| PHENANTHRENE | 1.2J | 2.0 | 0.98 |
| PYRENE | 1.5J | 2.0 | 0.98 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 0.98 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 0.98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 18J | 19 | 9.7 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.7 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.7 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.7 |
| DIETHYLPHTHALATE | ND | 19 | 9.7 |
| DIMETHYLPHTHALATE | ND | 19 | 9.7 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 0.98 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 308 | 385.8 | 79.7 | 40-130 |
| 2-FLUOROBIPHENYL | 265 | 385.8 | 68.8 | 45-130 |
| TERPHENYL-D14 | 315 | 385.8 | 81.7 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-084-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 14:13 |
| Lab Samp ID: D092-02 | Dilution Factor: 1 |
| Lab File ID: RDJ314 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 14.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 0.99 |
| ACENAPHTHYLENE | ND | 2.0 | 0.99 |
| ANTHRACENE | ND | 2.0 | 0.99 |
| BENZO(A)ANTHRACENE | 5.0 | 2.0 | 0.99 |
| BENZO(A)PYRENE | 2.3 | 2.0 | 0.99 |
| BENZO(B)FLUORANTHENE | 3.1 | 2.0 | 0.99 |
| BENZO(K)FLUORANTHENE | 1.8J | 2.0 | 0.99 |
| BENZO(G,H,I)PERYLENE | 2.4 | 2.0 | 0.99 |
| CHRYSENE | ND | 2.0 | 0.99 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 0.99 |
| FLUORANTHENE | 3.1 | 2.0 | 0.99 |
| FLUORENE | ND | 2.0 | 0.99 |
| INDENO(1,2,3-CD)PYRENE | 2.1 | 2.0 | 0.99 |
| NAPHTHALENE | 1.0J | 2.0 | 0.99 |
| PHENANTHRENE | 1.8J | 2.0 | 0.99 |
| PYRENE | 2.9 | 2.0 | 0.99 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 42 | 20 | 9.8 |
| BUTYLBENZYLPHTHALATE | 37 | 20 | 9.8 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 9.8 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 9.8 |
| DIETHYLPHTHALATE | ND | 20 | 9.8 |
| DIMETHYLPHTHALATE | ND | 20 | 9.8 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 0.99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 325 | 389.4 | 83.5 | 40-130 |
| 2-FLUOROBIPHENYL | 264 | 389.4 | 67.9 | 45-130 |
| TERPHENYL-D14 | 304 | 389.4 | 78.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-085-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 14:34 |
| Lab Samp ID: D092-03 | Dilution Factor: 1 |
| Lab File ID: RDJ315 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 15.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 1.0 |
| ACENAPHTHYLENE | ND | 2.0 | 1.0 |
| ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | 1.2J | 2.0 | 1.0 |
| BENZO(A)PYRENE | ND | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | 1.5J | 2.0 | 1.0 |
| CHRYSENE | 1.3J | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 1.0 |
| FLUORANTHENE | 2.1 | 2.0 | 1.0 |
| FLUORENE | ND | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 1.0 |
| NAPHTHALENE | ND | 2.0 | 1.0 |
| PHENANTHRENE | 1.6J | 2.0 | 1.0 |
| PYRENE | 2.1 | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 31 | 20 | 9.9 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 9.9 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 9.9 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 9.9 |
| DIETHYLPHTHALATE | ND | 20 | 9.9 |
| DIMETHYLPHTHALATE | ND | 20 | 9.9 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 200 | 394.0 | 50.7 | 40-130 |
| 2-FLUOROBIPHENYL | 203 | 394.0 | 51.6 | 45-130 |
| TERPHENYL-D14 | 311 | 394.0 | 78.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-186-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 14:55 |
| Lab Samp ID: D092-04 | Dilution Factor: 1 |
| Lab File ID: RDJ316 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 7.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | 1.1J | 1.8 | 0.92 |
| CHRYSENE | 0.96J | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | 1.2J | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | ND | 1.8 | 0.92 |
| PYRENE | 0.96J | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 94 | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 303 | 360.3 | 84.1 | 40-130 |
| 2-FLUOROBIPHENYL | 264 | 360.3 | 73.3 | 45-130 |
| TERPHENYL-D14 | 291 | 360.3 | 80.7 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-177-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 15:15 |
| Lab Samp ID: D092-05 | Dilution Factor: 1 |
| Lab File ID: RDJ317 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 5.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.90 |
| ACENAPHTHYLENE | ND | 1.8 | 0.90 |
| ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)PYRENE | ND | 1.8 | 0.90 |
| BENZO(B)FLUORANTHENE | 1.2J | 1.8 | 0.90 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(G,H,I)PERYLENE | 1.2J | 1.8 | 0.90 |
| CHRYSENE | ND | 1.8 | 0.90 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.90 |
| FLUORANTHENE | 1.3J | 1.8 | 0.90 |
| FLUORENE | ND | 1.8 | 0.90 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.90 |
| NAPHTHALENE | ND | 1.8 | 0.90 |
| PHENANTHRENE | ND | 1.8 | 0.90 |
| PYRENE | 1.1J | 1.8 | 0.90 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 17J | 18 | 8.9 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 8.9 |
| DIETHYLPHTHALATE | ND | 18 | 8.9 |
| DIMETHYLPHTHALATE | ND | 18 | 8.9 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.90 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 259 | 352.7 | 73.3 | 40-130 |
| 2-FLUOROBIPHENYL | 231 | 352.7 | 65.6 | 45-130 |
| TERPHENYL-D14 | 296 | 352.7 | 83.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-188-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 15:36 |
| Lab Samp ID: D092-06 | Dilution Factor: 1 |
| Lab File ID: RDJ318 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 7.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.91 |
| ACENAPHTHYLENE | ND | 1.8 | 0.91 |
| ANTHRACENE | ND | 1.8 | 0.91 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.91 |
| BENZO(A)PYRENE | ND | 1.8 | 0.91 |
| BENZO(B)FLUORANTHENE | 2.5 | 1.8 | 0.91 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.91 |
| BENZO(G,H,I)PERYLENE | 1.6J | 1.8 | 0.91 |
| CHRYSENE | 1.2J | 1.8 | 0.91 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.91 |
| FLUORANTHENE | 1.4J | 1.8 | 0.91 |
| FLUORENE | ND | 1.8 | 0.91 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.91 |
| NAPHTHALENE | ND | 1.8 | 0.91 |
| PHENANTHRENE | ND | 1.8 | 0.91 |
| PYRENE | 1.8J | 1.8 | 0.91 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.91 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 18J | 18 | 9.0 |
| BUTYLBENZYLPHTHALATE | 12J | 18 | 9.0 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.0 |
| DI-N-OCTYLPHTHALATE | 17J | 18 | 9.0 |
| DIETHYLPHTHALATE | ND | 18 | 9.0 |
| DIMETHYLPHTHALATE | ND | 18 | 9.0 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.91 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 255 | 358.8 | 71.1 | 40-130 |
| 2-FLUOROBIPHENYL | 226 | 358.8 | 62.9 | 45-130 |
| TERPHENYL-D14 | 253 | 358.8 | 70.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 14:34 |
| Sample ID: DUP-07-NBZ-QC-041012 | Date Analyzed: 04/19/12 15:57 |
| Lab Samp ID: D092-07 | Dilution Factor: 1 |
| Lab File ID: RDJ319 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 12.9 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 0.98 |
| ACENAPHTHYLENE | ND | 2.0 | 0.98 |
| ANTHRACENE | ND | 2.0 | 0.98 |
| BENZO(A)ANTHRACENE | 0.99J | 2.0 | 0.98 |
| BENZO(A)PYRENE | ND | 2.0 | 0.98 |
| BENZO(B)FLUORANTHENE | 1.5J | 2.0 | 0.98 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 0.98 |
| BENZO(G,H,I)PERYLENE | 1.2J | 2.0 | 0.98 |
| CHRYSENE | ND | 2.0 | 0.98 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 0.98 |
| FLUORANTHENE | 1.4J | 2.0 | 0.98 |
| FLUORENE | 1.7J | 2.0 | 0.98 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 0.98 |
| NAPHTHALENE | ND | 2.0 | 0.98 |
| PHENANTHRENE | 1.0J | 2.0 | 0.98 |
| PYRENE | 1.3J | 2.0 | 0.98 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 0.98 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 0.98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 18J | 19 | 9.6 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.6 |
| DIETHYLPHTHALATE | ND | 19 | 9.6 |
| DIMETHYLPHTHALATE | ND | 19 | 9.6 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 0.98 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 259 | 382.7 | 67.7 | 40-130 |
| 2-FLUOROBIPHENYL | 243 | 382.7 | 63.5 | 45-130 |
| TERPHENYL-D14 | 287 | 382.7 | 75.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 14:34 |
| Sample ID: MBLK1S | Date Analyzed: 04/19/12 10:47 |
| Lab Samp ID: SVD035SB | Dilution Factor: 1 |
| Lab File ID: RDJ304 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 317 | 333.3 | 95.2 | 40-130 |
| 2-FLUOROBIPHENYL | 277 | 333.3 | 83.0 | 45-130 |
| TERPHENYL-D14 | 342 | 333.3 | 103 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVD035SB | SVD035SX | SVD035SY | | |
| LAB FILE ID: | RDJ304 | RDJ307 | RDJ308 | | |
| DATE EXTRACTED: | 04/18/1214:34 | 04/18/1214:34 | 04/18/1214:34 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/19/1210:47 | 04/19/1211:49 | 04/19/1212:09 | DATE RECEIVED: | 04/18/12 |
| PREP. BATCH: | SVD035S | SVD035S | SVD035S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 276 | 83 | 333 | 235 | 71 | 16 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 312 | 94 | 333 | 264 | 79 | 17 | 20-130 | 50 |
| Anthracene | ND | 333 | 278 | 83 | 333 | 238 | 71 | 16 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 338 | 102 | 333 | 283 | 85 | 18 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 339 | 102 | 333 | 287 | 86 | 17 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 356 | 107 | 333 | 315 | 94 | 12 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 357 | 107 | 333 | 296 | 89 | 19 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 365 | 109 | 333 | 314 | 94 | 15 | 30-140 | 50 |
| Chrysene | ND | 333 | 318 | 95 | 333 | 272 | 82 | 16 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 366 | 110 | 333 | 315 | 94 | 15 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 333 | 100 | 333 | 280 | 84 | 17 | 30-130 | 50 |
| Fluorene | ND | 333 | 313 | 94 | 333 | 262 | 78 | 18 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 368 | 111 | 333 | 314 | 94 | 16 | 20-160 | 50 |
| Naphthalene | ND | 333 | 265 | 80 | 333 | 226 | 68 | 16 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 281 | 84 | 333 | 241 | 72 | 15 | 20-130 | 50 |
| Pyrene | ND | 333 | 322 | 97 | 333 | 268 | 80 | 18 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 290 | 87 | 333 | 250 | 75 | 15 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 288 | 86 | 333 | 249 | 75 | 15 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 315 | 95 | 333 | 263 | 79 | 18 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 304 | 91 | 333 | 250 | 75 | 20 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 299 | 90 | 333 | 251 | 75 | 17 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 293 | 88 | 333 | 242 | 73 | 19 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 320 | 96 | 333 | 264 | 79 | 19 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 306 | 92 | 333 | 251 | 75 | 20 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 302 | 91 | 333 | 254 | 76 | 17 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 280 | 84 | 333 | 248 | 74 | 40-130 |
| 2-Fluorobiphenyl | 333 | 235 | 71 | 333 | 212 | 63 | 45-130 |
| Terphenyl-d14 | 333 | 300 | 90 | 333 | 257 | 77 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: 13.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-009-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D092-01 | D092-01M | D092-01S | | |
| LAB FILE ID: | RDJ313 | RDJ311 | RDJ312 | | |
| DATE EXTRACTED: | 04/18/1214:34 | 04/18/1214:34 | 04/18/1214:34 | DATE COLLECTED: | 04/10/12 |
| DATE ANALYZED: | 04/19/1213:53 | 04/19/1213:11 | 04/19/1213:32 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | SVD035S | SVD035S | SVD035S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 386 | 299 | 77 | 386 | 324 | 84 | 8 | 10-130 | 50 |
| Acenaphthylene | ND | 386 | 342 | 89 | 386 | 372 | 97 | 8 | 20-130 | 50 |
| Anthracene | ND | 386 | 310 | 80 | 386 | 335 | 87 | 8 | 20-130 | 50 |
| Benzo(a)anthracene | 1.68J | 386 | 346 | 89 | 386 | 363 | 94 | 5 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 386 | 361 | 94 | 386 | 391 | 101 | 8 | 30-130 | 50 |
| Benzo(b)fluoranthene | 1.78J | 386 | 377 | 97 | 386 | 434 | 112 | 14 | 30-130 | 50 |
| Benzo(k)fluoranthene | 1.36J | 386 | 380 | 98 | 386 | 387 | 100 | 2 | 30-130 | 50 |
| Benzo(g,h,i)perylene | 1.42J | 386 | 369 | 95 | 386 | 405 | 105 | 9 | 30-140 | 50 |
| Chrysene | 1.64J | 386 | 331 | 86 | 386 | 343 | 89 | 4 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | 1.14J | 386 | 385 | 100 | 386 | 419 | 108 | 8 | 30-130 | 50 |
| Fluoranthene | 1.55J | 386 | 360 | 93 | 386 | 381 | 98 | 6 | 30-130 | 50 |
| Fluorene | ND | 386 | 346 | 90 | 386 | 371 | 96 | 7 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 386 | 379 | 98 | 386 | 416 | 108 | 9 | 20-160 | 50 |
| Naphthalene | ND | 386 | 249 | 65 | 386 | 264 | 68 | 6 | 10-130 | 50 |
| Phenanthrene | 1.22J | 386 | 314 | 81 | 386 | 340 | 88 | 8 | 20-130 | 50 |
| Pyrene | 1.51J | 386 | 341 | 88 | 386 | 361 | 93 | 6 | 10-160 | 50 |
| 2-Methylnaphthalene | ND | 386 | 295 | 76 | 386 | 319 | 83 | 8 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 386 | 297 | 77 | 386 | 324 | 84 | 9 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | 17.8J | 386 | 364 | 90 | 386 | 377 | 93 | 3 | 20-150 | 50 |
| Butylbenzylphthalate | ND | 386 | 353 | 92 | 386 | 368 | 95 | 4 | 20-150 | 50 |
| Di-n-butylphthalate | ND | 386 | 331 | 86 | 386 | 358 | 93 | 8 | 20-150 | 50 |
| Di-n-octylphthalate | ND | 386 | 369 | 96 | 386 | 397 | 103 | 7 | 10-150 | 50 |
| Diethylphthalate | ND | 386 | 362 | 94 | 386 | 380 | 99 | 5 | 20-150 | 50 |
| Dimethylphthalate | ND | 386 | 346 | 90 | 386 | 367 | 95 | 6 | 20-150 | 50 |
| N-Nitrosodimethylamine | ND | 386 | 298 | 77 | 386 | 312 | 81 | 4 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 386 | 312 | 81 | 386 | 308 | 80 | 40-130 |
| 2-Fluorobiphenyl | 386 | 262 | 68 | 386 | 265 | 69 | 45-130 |
| Terphenyl-d14 | 386 | 313 | 81 | 386 | 322 | 83 | 45-135 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/17/12 10:10 |
| Sample ID: SL-009-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 18:45 |
| Lab Samp ID: D092-01 | Dilution Factor: 1 |
| Lab File ID: LD18089A | Matrix : SOIL |
| Ext Btch ID: DSD029S | % Moisture : 13.6 |
| Calib. Ref.: LD18080A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.65J | 1.2 | 0.58 |
| EFH(C12-C14) | ND | 1.2 | 0.58 |
| EFH(C15-C20) | 2.1 | 1.2 | 0.58 |
| EFH(C21-C30) | 20 | 1.2 | 0.58 |
| EFH(C30-C40) | 35 | 1.2 | 0.58 |
| TOTAL EFH(C8-C40) | 58 | 1.2 | 0.58 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 8.03 | 11.57 | 69.4 | 50-150 |
| HEXACOSANE | 2.77 | 2.894 | 95.6 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/17/12 10:10 |
| Sample ID: SL-084-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 20:28 |
| Lab Samp ID: D092-02 | Dilution Factor: 1 |
| Lab File ID: LD18095A | Matrix : SOIL |
| Ext Btch ID: DSD029S | % Moisture : 14.4 |
| Calib. Ref.: LD18092A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 1.7 | 1.2 | 0.58 |
| EFH(C12-C14) | ND | 1.2 | 0.58 |
| EFH(C15-C20) | 2.4 | 1.2 | 0.58 |
| EFH(C21-C30) | 14 | 1.2 | 0.58 |
| EFH(C30-C40) | 30 | 1.2 | 0.58 |
| TOTAL EFH(C8-C40) | 48 | 1.2 | 0.58 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 8.27 | 11.68 | 70.8 | 50-150 |
| HEXACOSANE | 2.55 | 2.921 | 87.4 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/17/12 10:10 |
| Sample ID: SL-085-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 20:45 |
| Lab Samp ID: D092-03 | Dilution Factor: 1 |
| Lab File ID: LD18096A | Matrix : SOIL |
| Ext Btch ID: DSD029S | % Moisture : 15.4 |
| Calib. Ref.: LD18092A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.63J | 1.2 | 0.59 |
| EFH(C12-C14) | ND | 1.2 | 0.59 |
| EFH(C15-C20) | 1.8 | 1.2 | 0.59 |
| EFH(C21-C30) | 15 | 1.2 | 0.59 |
| EFH(C30-C40) | 32 | 1.2 | 0.59 |
| TOTAL EFH(C8-C40) | 49 | 1.2 | 0.59 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 8.04 | 11.82 | 68.0 | 50-150 |
| HEXACOSANE | 2.74 | 2.955 | 92.8 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/17/12 10:10 |
| Sample ID: DUP-07-NBZ-QC-041012 | Date Analyzed: 04/19/12 21:02 |
| Lab Samp ID: D092-07 | Dilution Factor: 1 |
| Lab File ID: LD18097A | Matrix : SOIL |
| Ext Btch ID: DSD029S | % Moisture : 12.9 |
| Calib. Ref.: LD18092A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.57 |
| EFH(C12-C14) | ND | 1.1 | 0.57 |
| EFH(C15-C20) | 2.5 | 1.1 | 0.57 |
| EFH(C21-C30) | 17 | 1.1 | 0.57 |
| EFH(C30-C40) | 34 | 1.1 | 0.57 |
| TOTAL EFH(C8-C40) | 54 | 1.1 | 0.57 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.18 | 11.48 | 62.5 | 50-150 |
| HEXACOSANE | 2.68 | 2.870 | 93.2 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D092 | Date Extracted: 04/17/12 10:10 |
| Sample ID: MBLK1S | Date Analyzed: 04/19/12 18:28 |
| Lab Samp ID: DSD029SB | Dilution Factor: 1 |
| Lab File ID: LD18088A | Matrix : SOIL |
| Ext Btch ID: DSD029S | % Moisture : NA |
| Calib. Ref.: LD18080A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.11 | 10.00 | 71.1 | 50-150 |
| HEXACOSANE | 2.01 | 2.500 | 80.4 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSD029SB | DSD029SL | DSD029SC | | |
| LAB FILE ID: | LD18088A | LD18086A | LD18087A | | |
| DATE EXTRACTED: | 04/17/1210:10 | 04/17/1210:10 | 04/17/1210:10 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/19/1218:28 | 04/19/1217:54 | 04/19/1218:11 | DATE RECEIVED: | 04/17/12 |
| PREP. BATCH: | DSD029S | DSD029S | DSD029S | | |
| CALIB. REF: | LD18080A | LD18080A | LD18080A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 39.1 | 78 | 50.0 | 40.3 | 81 | 3 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 6.05 | 61 | 10.0 | 6.51 | 65 | 50-150 |
| Hexacosane | 2.50 | 2.04 | 82 | 2.50 | 2.08 | 83 | 50-150 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: METHOD 3550B/8015B EFH

MATRIX: SOIL % MOISTURE: 13.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-009-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D092-01 | D092-01M | D092-01S | | |
| LAB FILE ID: | LD18089A | LD18090A | LD18091A | | |
| DATE EXTRACTED: | 04/17/1210:10 | 04/17/1210:10 | 04/17/1210:10 | DATE COLLECTED: | 04/10/12 |
| DATE ANALYZED: | 04/19/1218:45 | 04/19/1219:02 | 04/19/1219:19 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | DSD029S | DSD029S | DSD029S | | |
| CALIB. REF: | LD18080A | LD18080A | LD18080A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | 57.8 | 57.9 | 93.5 | 62 | 57.9 | 103 | 78 | 10 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 11.6 | 8.06 | 70 | 11.6 | 8.81 | 76 | 50-150 |
| Hexacosane | 2.89 | 2.65 | 92 | 2.89 | 2.73 | 94 | 50-150 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/14/12 11:21 |
| Sample ID: SL-009-NBZ-SS-0.0-0.5 | Date Analyzed: 04/21/12 02:01 |
| Lab Samp ID: D092-01 | Dilution Factor: 1 |
| Lab File ID: MD20037A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : 13.6 |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.58 | 0.20 | 0.098 \| 0.098 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| BETA-BHC | 1.1 \| (ND) | 0.20 | 0.098 \| 0.098 |
| HEPTACHLOR | (ND) \| 0.56 | 0.20 | 0.098 \| 0.098 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| ALDRIN | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| HEPTACHLOR EPOXIDE | (ND) \| 0.46 | 0.20 | 0.098 \| 0.098 |
| ENDOSULFAN I | (ND) \| 0.14J | 0.20 | 0.098 \| 0.098 |
| 4,4'-DDE | (1.5) \| 1.3 | 0.39 | 0.20 \| 0.20 |
| DIELDRIN | 1.3 \| (ND) | 0.39 | 0.20 \| 0.20 |
| ENDRIN | 0.39J \| (ND) | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN II | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDT | (ND) \| 3.9 | 0.39 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| 0.22J | 0.39 | 0.20 \| 0.20 |
| ENDRIN KETONE | 0.33J \| (ND) | 0.39 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| 1.1J | 2.0 | 0.98 \| 0.98 |
| MIREX | 0.77 \| (ND) | 0.39 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.999 \| (5.261) | 6.172 | 64.8 \| (85.2) | 50-130 |
| DECACHLOROBIPHENYL | (5.043) \| 4.211 | 6.172 | (81.7) \| 68.2 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/14/12 11:21 |
| Sample ID: SL-084-NBZ-SS-0.0-0.5 | Date Analyzed: 04/21/12 03:09 |
| Lab Samp ID: D092-02 | Dilution Factor: 1 |
| Lab File ID: MD20040A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : 14.4 |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| GAMMA-BHC (LINDANE) | 0.12J \| (ND) | 0.20 | 0.099 \| 0.099 |
| BETA-BHC | 5.4 \| (ND) | 0.20 | 0.099 \| 0.099 |
| HEPTACHLOR | (ND) \| 0.37 | 0.20 | 0.099 \| 0.099 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| ALDRIN | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| HEPTACHLOR EPOXIDE | 0.47 \| (ND) | 0.20 | 0.099 \| 0.099 |
| ENDOSULFAN I | (ND) \| 0.15J | 0.20 | 0.099 \| 0.099 |
| 4,4'-DDE | (1.4) \| 0.56 | 0.40 | 0.20 \| 0.20 |
| DIELDRIN | 0.98 \| (ND) | 0.40 | 0.20 \| 0.20 |
| ENDRIN | (ND) \| 0.46 | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN II | 0.21J \| (ND) | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDT | (ND) \| 3.1 | 0.40 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | 0.91 \| (ND) | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | 0.28J \| (ND) | 0.40 | 0.20 \| 0.20 |
| ENDRIN KETONE | 0.25J \| (ND) | 0.40 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| 2.9 | 2.0 | 0.99 \| 0.99 |
| MIREX | 0.27J \| (ND) | 0.40 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.7 | 3.9 \| 3.9 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.0 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.449 \| (6.146) | 6.230 | 71.4 \| (98.7) | 50-130 |
| DECACHLOROBIPHENYL | (4.419) \| 4.283 | 6.230 | (70.9) \| 68.7 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/14/12 11:21 |
| Sample ID: SL-085-NBZ-SS-0.0-0.5 | Date Analyzed: 04/21/12 03:32 |
| Lab Samp ID: D092-03 | Dilution Factor: 1 |
| Lab File ID: MD20041A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : 15.4 |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | 0.37 \| (ND) | 0.20 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| 5.4 | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR | 0.47 \| (0.64) | 0.20 | 0.10 \| 0.10 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| ALDRIN | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | (ND) \| 0.51 | 0.20 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| 4,4'-DDE | 1.6 \| (ND) | 0.40 | 0.20 \| 0.20 |
| DIELDRIN | 0.81 \| (1.0) | 0.40 | 0.20 \| 0.20 |
| ENDRIN | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN II | 0.24J \| (ND) | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDT | (0.26J) \| 3.0 | 0.40 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | 0.44 \| (ND) | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDRIN KETONE | 0.22J \| (ND) | 0.40 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| 2.3 | 2.0 | 1.0 \| 1.0 |
| MIREX | 0.50 \| (ND) | 0.40 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.8 | 3.9 \| 3.9 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.0 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (6.348) \| 5.892 | 6.304 | (101) \| 93.5 | 50-130 |
| DECACHLOROBIPHENYL | (5.360) \| 4.940 | 6.304 | (85.0) \| 78.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/14/12 11:21 |
| Sample ID: SL-186-NBZ-SS-0.0-0.5 | Date Analyzed: 04/21/12 03:54 |
| Lab Samp ID: D092-04 | Dilution Factor: 1 |
| Lab File ID: MD20042A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : 7.5 |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.17J | 0.18 | 0.092 \| 0.092 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| BETA-BHC | (ND) \| 0.25 | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR | 0.45 \| (ND) | 0.18 | 0.092 \| 0.092 |
| DELTA-BHC | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| ALDRIN | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| ENDOSULFAN I | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| 4,4'-DDE | 0.51 \| (0.22J) | 0.37 | 0.18 \| 0.18 |
| DIELDRIN | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDRIN | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDD | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN II | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDT | 0.26J \| (ND) | 0.37 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDRIN KETONE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| METHOXYCHLOR | (ND) \| 1.1J | 1.8 | 0.92 \| 0.92 |
| MIREX | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 7.1 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.000 \| (5.539) | 5.765 | 69.4 \| (96.1) | 50-130 |
| DECACHLOROBIPHENYL | (5.006) \| 4.673 | 5.765 | (86.8) \| 81.0 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/14/12 11:21 |
| Sample ID: SL-177-NBZ-SS-0.0-0.5 | Date Analyzed: 04/21/12 04:17 |
| Lab Samp ID: D092-05 | Dilution Factor: 1 |
| Lab File ID: MD20043A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : 5.5 |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.19 | 0.18 | 0.090 \| 0.090 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.090J | 0.18 | 0.090 \| 0.090 |
| BETA-BHC | (ND) \| ND | 0.18 | 0.090 \| 0.090 |
| HEPTACHLOR | (ND) \| 0.44 | 0.18 | 0.090 \| 0.090 |
| DELTA-BHC | (ND) \| ND | 0.18 | 0.090 \| 0.090 |
| ALDRIN | (ND) \| ND | 0.18 | 0.090 \| 0.090 |
| HEPTACHLOR EPOXIDE | 0.097J \| (ND) | 0.18 | 0.090 \| 0.090 |
| ENDOSULFAN I | 0.16J \| (ND) | 0.18 | 0.090 \| 0.090 |
| 4,4'-DDE | (0.65) \| 0.49 | 0.36 | 0.18 \| 0.18 |
| DIELDRIN | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| ENDRIN | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| 4,4'-DDD | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| ENDOSULFAN II | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| 4,4'-DDT | (0.71) \| 0.70 | 0.36 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | 0.28J \| (ND) | 0.36 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| ENDRIN KETONE | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| METHOXYCHLOR | (ND) \| ND | 1.8 | 0.90 \| 0.90 |
| MIREX | (ND) \| ND | 0.36 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 7.0 | 3.5 \| 3.5 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.6 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.131 \| (5.503) | 5.643 | 73.2 \| (97.5) | 50-130 |
| DECACHLOROBIPHENYL | (4.733) \| 4.595 | 5.643 | (83.9) \| 81.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/14/12 11:21 |
| Sample ID: SL-188-NBZ-SS-0.0-0.5 | Date Analyzed: 04/21/12 04:39 |
| Lab Samp ID: D092-06 | Dilution Factor: 1 |
| Lab File ID: MD20044A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : 7.1 |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.12J | 0.18 | 0.091\|0.091 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.18 | 0.091\|0.091 |
| BETA-BHC | (ND)\|ND | 0.18 | 0.091\|0.091 |
| HEPTACHLOR | (ND)\|0.34 | 0.18 | 0.091\|0.091 |
| DELTA-BHC | (ND)\|ND | 0.18 | 0.091\|0.091 |
| ALDRIN | (ND)\|ND | 0.18 | 0.091\|0.091 |
| HEPTACHLOR EPOXIDE | 0.20\|(ND) | 0.18 | 0.091\|0.091 |
| ENDOSULFAN I | (ND)\|ND | 0.18 | 0.091\|0.091 |
| 4,4'-DDE | (0.70)\|0.57 | 0.37 | 0.18\|0.18 |
| DIELDRIN | (ND)\|0.39 | 0.37 | 0.18\|0.18 |
| ENDRIN | 0.22J\|(ND) | 0.37 | 0.18\|0.18 |
| 4,4'-DDD | (ND)\|0.91 | 0.37 | 0.18\|0.18 |
| ENDOSULFAN II | (ND)\|0.19J | 0.37 | 0.18\|0.18 |
| 4,4'-DDT | (ND)\|ND | 0.37 | 0.18\|0.18 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.37 | 0.18\|0.18 |
| ENDOSULFAN SULFATE | (ND)\|1.3 | 0.37 | 0.18\|0.18 |
| ENDRIN KETONE | (ND)\|ND | 0.37 | 0.18\|0.18 |
| METHOXYCHLOR | (ND)\|1.5J | 1.8 | 0.91\|0.91 |
| MIREX | 0.86\|(ND) | 0.37 | 0.18\|0.18 |
| TOXAPHENE | (ND)\|ND | 7.1 | 3.6\|3.6 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.7 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.320\|(5.541) | 5.741 | 75.3\|(96.5) | 50-130 |
| DECACHLOROBIPHENYL | (4.892)\|4.792 | 5.741 | (85.2)\|83.5 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/14/12 11:21 |
| Sample ID: DUP-07-NBZ-QC-041012 | Date Analyzed: 04/21/12 05:02 |
| Lab Samp ID: D092-07 | Dilution Factor: 1 |
| Lab File ID: MD20045A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : 12.9 |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.31 | 0.20 | 0.098 \| 0.098 |
| GAMMA-BHC (LINDANE) | 0.13J \| (ND) | 0.20 | 0.098 \| 0.098 |
| BETA-BHC | 4.9 \| (ND) | 0.20 | 0.098 \| 0.098 |
| HEPTACHLOR | (ND) \| 0.73 | 0.20 | 0.098 \| 0.098 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| ALDRIN | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| HEPTACHLOR EPOXIDE | 0.19J \| (0.66) | 0.20 | 0.098 \| 0.098 |
| ENDOSULFAN I | (ND) \| 0.16J | 0.20 | 0.098 \| 0.098 |
| 4,4'-DDE | (2.0) \| 1.7 | 0.39 | 0.20 \| 0.20 |
| DIELDRIN | 1.7 \| (ND) | 0.39 | 0.20 \| 0.20 |
| ENDRIN | 0.56 \| (ND) | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN II | 0.24J \| (ND) | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDT | (ND) \| 8.6 | 0.39 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (1.3) \| 1.0 | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | 0.34J \| (ND) | 0.39 | 0.20 \| 0.20 |
| ENDRIN KETONE | 0.33J \| (ND) | 0.39 | 0.20 \| 0.20 |
| METHOXYCHLOR | 3.3 \| (ND) | 2.0 | 0.98 \| 0.98 |
| MIREX | 0.91 \| (ND) | 0.39 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.202 \| (5.556) | 6.123 | 68.6 \| (90.7) | 50-130 |
| DECACHLOROBIPHENYL | (5.382) \| 4.434 | 6.123 | (87.9) \| 72.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/14/12 |
| Batch No. : 12D092 | Date Extracted: 04/14/12 11:21 |
| Sample ID: MBLK1S | Date Analyzed: 04/20/12 20:22 |
| Lab Samp ID: CPD035SB | Dilution Factor: 1 |
| Lab File ID: MD20022A | Matrix : SOIL |
| Ext Btch ID: CPD035S | % Moisture : NA |
| Calib. Ref.: MD20017A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| BETA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| HEPTACHLOR | 0.20 \| (ND) | 0.17 | 0.085 \| 0.085 |
| DELTA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| ALDRIN | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| ENDOSULFAN I | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| 4,4'-DDE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| DIELDRIN | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| 4,4'-DDD | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDOSULFAN II | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| 4,4'-DDT | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN KETONE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| METHOXYCHLOR | (ND) \| ND | 1.7 | 0.85 \| 0.85 |
| MIREX | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| TOXAPHENE | (ND) \| ND | 6.6 | 3.3 \| 3.3 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.4 | 1.7 \| 1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.832 \| (4.233) | 5.333 | 71.9 \| (79.4) | 50-130 |
| DECACHLOROBIPHENYL | (4.840) \| 4.450 | 5.333 | (90.8) \| 83.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPD035SB CPD035SL CPD035SC
LAB FILE ID: MD20022A MD20023A MD20024A
DATE EXTRACTED: 04/14/1211:21 04/14/1211:21 04/14/1211:21 DATE COLLECTED: NA
DATE ANALYZED: 04/20/1220:22 04/20/1220:45 04/20/1221:07 DATE RECEIVED: 04/14/12
PREP. BATCH: CPD035S CPD035S CPD035S
CALIB. REF: MD20017A MD20017A MD20017A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND) \| ND | 2.67 | 2.18 \| (2.43) | 82 \| (91) | 2.67 | 2.19 \| (2.42) | 82 \| (91) | 0 \| (0) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND) \| ND | 2.67 | 1.99 \| (2.34) | 75 \| (88) | 2.67 | 2.00 \| (2.30) | 75 \| (86) | 1 \| (2) | 40-130 | 50 |
| beta-BHC | (ND) \| ND | 2.67 | 2.45 \| (2.48) | 92 \| (93) | 2.67 | (2.38) \| 2.29 | (89) \| 86 | (3) \| 8 | 50-140 | 50 |
| Heptachlor | 0.20 \| (ND) | 2.67 | (2.31) \| 2.30 | (87) \| 86 | 2.67 | (2.29) \| 2.27 | (86) \| 85 | (1) \| 1 | 30-130 | 50 |
| delta-BHC | (ND) \| ND | 2.67 | 2.27 \| (2.60) | 85 \| (97) | 2.67 | 2.20 \| (2.48) | 82 \| (93) | 3 \| (5) | 30-150 | 50 |
| Aldrin | (ND) \| ND | 2.67 | 2.08 \| (2.14) | 78 \| (80) | 2.67 | 2.08 \| (2.16) | 78 \| (81) | 0 \| (1) | 30-130 | 50 |
| Heptachlor Epoxide | (ND) \| ND | 2.67 | (2.30) \| 2.17 | (86) \| 81 | 2.67 | (2.24) \| 2.24 | (84) \| 84 | (3) \| 3 | 60-140 | 50 |
| Endosulfan I | (ND) \| ND | 2.67 | 2.16 \| (2.18) | 81 \| (82) | 2.67 | (2.13) \| 2.11 | (80) \| 79 | (1) \| 3 | 50-150 | 50 |
| 4,4'-DDE | (ND) \| ND | 2.67 | (2.54) \| 2.50 | (95) \| 94 | 2.67 | (2.53) \| 2.46 | (95) \| 92 | (0) \| 2 | 50-150 | 50 |
| Dieldrin | (ND) \| ND | 2.67 | (2.53) \| 2.21 | (95) \| 83 | 2.67 | (2.55) \| 2.15 | (96) \| 81 | (1) \| 3 | 60-130 | 50 |
| Endrin | (ND) \| ND | 2.67 | (2.40) \| 2.19 | (90) \| 82 | 2.67 | (2.33) \| 2.14 | (87) \| 80 | (3) \| 2 | 50-140 | 50 |
| 4,4'-DDD | (ND) \| ND | 2.67 | (2.40) \| 2.32 | (90) \| 87 | 2.67 | (2.39) \| 2.29 | (90) \| 86 | (0) \| 1 | 50-160 | 50 |
| Endosulfan II | (ND) \| ND | 2.67 | (2.56) \| 2.46 | (96) \| 92 | 2.67 | (2.56) \| 2.43 | (96) \| 91 | (0) \| 1 | 60-150 | 50 |
| 4,4'-DDT | (ND) \| ND | 2.67 | (2.90) \| 2.41 | (109) \| 90 | 2.67 | (2.88) \| 2.43 | (108) \| 91 | (1) \| 1 | 60-140 | 50 |
| Endrin aldehyde | (ND) \| ND | 2.67 | (2.51) \| 2.28 | (94) \| 85 | 2.67 | (2.42) \| 2.37 | (91) \| 89 | (4) \| 4 | 50-160 | 50 |
| Endosulfan Sulfate | (ND) \| ND | 2.67 | (2.51) \| 2.46 | (94) \| 92 | 2.67 | (2.52) \| 2.46 | (94) \| 92 | (0) \| 0 | 70-140 | 50 |
| Endrin Ketone | (ND) \| ND | 2.67 | (2.52) \| 2.46 | (94) \| 92 | 2.67 | (2.55) \| 2.40 | (96) \| 90 | (1) \| 2 | 70-160 | 50 |
| Methoxychlor | (ND) \| ND | 26.7 | (24.8) \| 23.6 | (93) \| 88 | 26.7 | (24.6) \| 22.9 | (92) \| 86 | (1) \| 3 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 3.734 \| (4.359) | 70.0 \| (81.7) | 5.333 | 3.935 \| (4.502) | 73.8 \| (84.4) | 50-130 |
| Decachlorobiphenyl | 5.333 | (4.722) \| 4.321 | (88.5) \| 81.0 | 5.333 | (4.856) \| 4.429 | (91.1) \| 83.1 | 20-120 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: 13.6
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-009-NBZ-SS-0.0-0.5
LAB SAMP ID: D092-01 D092-01M D092-01S
LAB FILE ID: MD20037A MD20038A MD20039A
DATE EXTRACTED: 04/14/1211:21 04/14/1211:21 04/14/1211:21 DATE COLLECTED: 04/10/12
DATE ANALYZED: 04/21/1202:01 04/21/1202:24 04/21/1202:47 DATE RECEIVED: 04/10/12
PREP. BATCH: CPD035S CPD035S CPD035S
CALIB. REF: MD20017A MD20017A MD20017A

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|0.58 | 3.09 | 2.71\|(2.98) | 88\|(78) | 3.09 | 2.93\|(3.24) | 95\|(86) | 8\|(8) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|ND | 3.09 | 2.12\|(3.20) | 69\|(104) | 3.09 | 2.21\|(3.44) | 72\|(111) | 4\|(7) | 20-150 | 50 |
| beta-BHC | 1.1\|(ND) | 3.09 | (3.55)\|2.63 | (79)\|85 | 3.09 | (3.23)\|2.45 | (69)\|79 | (9)\|7 | 50-140 | 50 |
| Heptachlor | (ND)\|0.56 | 3.09 | (2.72)\|2.28 | (88)\|56 | 3.09 | (2.89)\|2.80 | (94)\|72 | (6)\|20 | 20-140 | 50 |
| delta-BHC | (ND)\|ND | 3.09 | (2.91)\|2.25 | (94)\|73 | 3.09 | (3.13)\|2.67 | (101)\|86 | (7)\|17 | 30-150 | 50 |
| Aldrin | (ND)\|ND | 3.09 | 2.13\|(2.26) | 69\|(73) | 3.09 | 2.20\|(2.71) | 71\|(88) | 3\|(18) | 20-160 | 50 |
| Heptachlor Epoxide | 0.15J\|(0.46) | 3.09 | 2.04\|(2.69) | 61\|(72) | 3.09 | 2.11\|(3.89) | 63\|(111) | 3\|(36) | 40-140 | 50 |
| Endosulfan I | (ND)\|0.14J | 3.09 | 2.02\|(2.19) | 65\|(66) | 3.09 | 2.16\|(2.64) | 70\|(81) | 7\|(19) | 50-160 | 50 |
| 4,4'-DDE | (1.5)\|1.3 | 3.09 | 3.34\|(3.65) | 60\|(76) | 3.09 | 3.72\|(4.40) | 72\|(100) | 11\|(19) | 50-150 | 50 |
| Dieldrin | 1.3\|(ND) | 3.09 | 3.00\|(3.81) | 55\|(123) | 3.09 | 3.39\|(4.24) | 68\|(137) | 12\|(11) | 10-160 | 50 |
| Endrin | 0.39J\|(ND) | 3.09 | 2.32\|(2.97) | 62\|(96) | 3.09 | 2.55\|(3.31) | 70\|(107) | 9\|(11) | 20-160 | 50 |
| 4,4'-DDD | (ND)\|ND | 3.09 | (2.48)\|1.97 | (80)\|64 | 3.09 | (2.57)\|2.54 | (83)\|82 | (4)\|25 | 50-160 | 50 |
| Endosulfan II | (ND)\|ND | 3.09 | (2.30)\|2.25 | (74)\|73 | 3.09 | (2.57)\|4.16 | (83)\|135 | (11)\|60* | 40-160 | 50 |
| 4,4'-DDT | (ND)\|3.9 | 3.09 | (4.30)\|8.89 | (139)\|161* | 3.09 | (4.22)\|10.1 | (137)\|201* | (2)\|13 | 30-160 | 50 |
| Endrin aldehyde | (0.92)\|0.68 | 3.09 | 2.32\|(2.71) | 45*\|(66) | 3.09 | 3.26\|(3.36) | 76\|(87) | 34\|(21) | 50-140 | 50 |
| Endosulfan Sulfate | (0.30J)\|0.22J | 3.09 | 2.57\|(2.78) | 73\|(83) | 3.09 | 2.93\|(3.45) | 85\|(105) | 13\|(22) | 40-160 | 50 |
| Endrin Ketone | 0.33J\|(ND) | 3.09 | (2.81)\|2.16 | (80)\|70 | 3.09 | (3.21)\|2.54 | (93)\|82 | (13)\|16 | 50-160 | 50 |
| Methoxychlor | (ND)\|1.1J | 30.9 | (29.0)\|25.5 | (94)\|79 | 30.9 | (29.6)\|27.1 | (96)\|84 | (2)\|6 | 60-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 6.172 | 4.251\|(5.555) | 68.9\|(90.0) | 6.172 | 4.408\|(6.040) | 71.4\|(97.8) | 50-130 |
| Decachlorobiphenyl | 6.172 | (5.120)\|4.662 | (82.9)\|75.5 | 6.172 | (5.107)\|4.497 | (82.7)\|72.9 | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/15/12 10:24 |
| Sample ID: SL-009-NBZ-SS-0.0-0.5 | Date Analyzed: 05/08/12 13:04 |
| Lab Samp ID: D092-01 | Dilution Factor: 1 |
| Lab File ID: KE07033A | Matrix : SOIL |
| Ext Btch ID: CPD036S | % Moisture : 13.6 |
| Calib. Ref.: KE07030A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1254 | 68\|(41) | 2.0 | 0.98\|0.98 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.234)\|6.036 | 6.172 | (117)\|97.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.732)\|4.585 | 6.172 | (125)\|74.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/15/12 10:24 |
| Sample ID: SL-084-NBZ-SS-0.0-0.5 | Date Analyzed: 05/08/12 15:43 |
| Lab Samp ID: D092-02 | Dilution Factor: 1 |
| Lab File ID: KE07036A | Matrix : SOIL |
| Ext Btch ID: CPD036S | % Moisture : 14.4 |
| Calib. Ref.: KE07030A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1254 | 150\|(100) | 2.0 | 0.99\|0.99 |
| AROCLOR 1260 | 120\|(110) | 2.0 | 0.99\|0.99 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 5432 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5460 | 5.5\|(4.9) | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.228)\|6.119 | 6.230 | (116)\|98.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.604)\|4.511 | 6.230 | (122)\|72.4 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/15/12 10:24 |
| Sample ID: SL-085-NBZ-SS-0.0-0.5 | Date Analyzed: 05/08/12 16:36 |
| Lab Samp ID: D092-03 | Dilution Factor: 1 |
| Lab File ID: KE07037A | Matrix : SOIL |
| Ext Btch ID: CPD036S | % Moisture : 15.4 |
| Calib. Ref.: KE07030A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1254 | 16\|(10) | 2.0 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.719\|(6.328) | 6.304 | 122*\|(100) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.691)\|4.805 | 6.304 | (122)\|76.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/15/12 10:24 |
| Sample ID: SL-186-NBZ-SS-0.0-0.5 | Date Analyzed: 05/08/12 17:29 |
| Lab Samp ID: D092-04 | Dilution Factor: 1 |
| Lab File ID: KE07038A | Matrix : SOIL |
| Ext Btch ID: CPD036S | % Moisture : 7.5 |
| Calib. Ref.: KE07030A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.756\|(6.591) | 5.765 | 135*\|(114) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.559)\|4.607 | 5.765 | (131)\|79.9 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/15/12 10:24 |
| Sample ID: SL-177-NBZ-SS-0.0-0.5 | Date Analyzed: 05/08/12 18:22 |
| Lab Samp ID: D092-05 | Dilution Factor: 1 |
| Lab File ID: KE07039A | Matrix : SOIL |
| Ext Btch ID: CPD036S | % Moisture : 5.5 |
| Calib. Ref.: KE07030A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.320\|(6.157) | 5.643 | 130*\|(109) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.253)\|4.699 | 5.643 | (129)\|83.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/10/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/10/12 |
| Batch No. | : 12D092 | Date Extracted | : 04/15/12 10:24 |
| Sample ID | : SL-188-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/08/12 19:15 |
| Lab Samp ID | : D092-06 | Dilution Factor | : 1 |
| Lab File ID | : KE07040A | Matrix | : SOIL |
| Ext Btch ID | : CPD036S | % Moisture | : 7.1 |
| Calib. Ref. | : KE07030A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.005\|(5.803) | 5.741 | 122*\|(101) | 45-120 |
| TETRACHLORO-M-XYLENE | (6.989)\|4.647 | 5.741 | (122)\|80.9 | 10-160 |

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Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/15/12 10:24 |
| Sample ID: DUP-07-NBZ-QC-041012 | Date Analyzed: 05/08/12 20:08 |
| Lab Samp ID: D092-07 | Dilution Factor: 1 |
| Lab File ID: KE07041A | Matrix : SOIL |
| Ext Btch ID: CPD036S | % Moisture : 12.9 |
| Calib. Ref.: KE07030A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1254 | (30)\|18 | 2.0 | 0.98\|0.98 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.165)\|6.081 | 6.123 | (117)\|99.3 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.708)\|4.967 | 6.123 | (126)\|81.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/15/12 |
| Batch No. : 12D092 | Date Extracted: 04/15/12 10:24 |
| Sample ID: MBLK1S | Date Analyzed: 04/25/12 13:38 |
| Lab Samp ID: 60D036SB | Dilution Factor: 1 |
| Lab File ID: KD25007A | Matrix : SOIL |
| Ext Btch ID: CPD036S | % Moisture : NA |
| Calib. Ref.: KD25002A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 6.979\|(5.706) | 5.333 | 131*\|(107) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.465)\|6.054 | 5.333 | (140)\|114 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60D036SB | 60D036SL | 60D036SC | | |
| LAB FILE ID: | KD25007A | KD25008A | KD25009A | | |
| DATE EXTRACTED: | 04/15/1210:24 | 04/15/1210:24 | 04/15/1210:24 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1213:38 | 04/25/1214:31 | 04/25/1215:24 | DATE RECEIVED: | 04/15/12 |
| PREP. BATCH: | CPD036S | CPD036S | CPD036S | | |
| CALIB. REF: | KD25002A | KD25002A | KD25002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (79.7)\|62.3 | (120)\|93 | 66.7 | (65.3)\|57.9 | (98)\|87 | (20)\|7 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (88.2)\|82.3 | (132)\|123 | 66.7 | (68.9)\|65.5 | (103)\|98 | (25)\|23 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | 80.7\|(90.5) | 121\|(136) | 66.7 | 56.3\|(64.2) | 84\|(96) | 36\|(34) | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | 6.845\|(5.554) | 128*\|(104) | 5.333 | (5.535)\|4.626 | (104)\|86.7 | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (6.621)\|4.868 | (124)\|91.3 | 5.333 | (5.552)\|5.194 | (104)\|97.4 | 10-160 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 13.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-009-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D092-01 | D092-01M | D092-01S | | |
| LAB FILE ID: | KE07033A | KE07034A | KE07035A | | |
| DATE EXTRACTED: | 04/15/1210:24 | 04/15/1210:24 | 04/15/1210:24 | DATE COLLECTED: | 04/10/12 |
| DATE ANALYZED: | 05/08/1213:04 | 05/08/1213:56 | 05/08/1214:50 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | CPD036S | CPD036S | CPD036S | | |
| CALIB. REF: | KE07030A | KE07030A | KE07030A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 77.2 | (83.4)\|55.9 | (108)\|72 | 77.2 | (88.0)\|55.0 | (114)\|71 | (5)\|2 | 20-160 | 50 |
| Aroclor 1260 | (ND)\|ND | 77.2 | 133\|(92.2) | 172*\|(119) | 77.2 | 140\|(97.2) | 181*\|(126) | 5\|(5) | 20-160 | 50 |
| Aroclor 5460 | (ND)\|ND | 77.2 | (94.0)\|86.2 | (122)\|112 | 77.2 | (101)\|89.8 | (131)\|116 | (7)\|4 | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 6.172 | 7.462\|(6.405) | 121*\|(104) | 6.172 | 7.704\|(6.603) | 125*\|(107) | 45-120 |
| Tetrachloro-m-xylene | 6.172 | (8.182)\|4.825 | (133)\|78.2 | 6.172 | (8.347)\|5.137 | (135)\|83.2 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 17:58 |
| Sample ID: SL-009-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 17:12 |
| Lab Samp ID: D092-01 | Dilution Factor: 1 |
| Lab File ID: WD19010A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : 13.6 |
| Calib. Ref.: WD19002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 0.98\|0.98 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.098\|0.098 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.098\|0.098 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.69\|0.69 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 0.98\|0.98 |
| MCPA | (ND)\|ND | 290 | 140\|140 |
| MCPP | (ND)\|ND | 290 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (180.8)\|129.5 | 173.6 | (104)\|74.6 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 17:58 |
| Sample ID: SL-084-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 18:13 |
| Lab Samp ID: D092-02 | Dilution Factor: 1 |
| Lab File ID: WD19013A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : 14.4 |
| Calib. Ref.: WD19002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 0.99\|0.99 |
| 2,4,5-T | 2.1\|(ND) | 0.20 | 0.099\|0.099 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.099\|0.099 |
| DALAPON | (ND)\|ND | 11 | 5.3\|5.3 |
| DICAMBA | (ND)\|ND | 1.4 | 0.70\|0.70 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 0.99\|0.99 |
| MCPA | (ND)\|ND | 290 | 150\|150 |
| MCPP | (ND)\|ND | 290 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (216.6)\|145.4 | 175.2 | (124)\|83.0 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 17:58 |
| Sample ID: SL-085-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 18:34 |
| Lab Samp ID: D092-03 | Dilution Factor: 1 |
| Lab File ID: WD19014A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : 15.4 |
| Calib. Ref.: WD19002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.3 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| 2,4,5-T | 0.39\|(ND) | 0.20 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.3\|5.3 |
| DICAMBA | (ND)\|ND | 1.4 | 0.71\|0.71 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|1.6J | 2.0 | 1.0\|1.0 |
| MCPA | (ND)\|ND | 300 | 150\|150 |
| MCPP | (ND)\|ND | 300 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (191.9)\|140.7 | 177.3 | (108)\|79.4 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 17:58 |
| Sample ID: SL-186-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 18:54 |
| Lab Samp ID: D092-04 | Dilution Factor: 1 |
| Lab File ID: WD19015A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : 7.5 |
| Calib. Ref.: WD19002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 1.9\|1.9 |
| 2,4-DB | (ND)\|ND | 1.8 | 0.92\|0.92 |
| 2,4,5-T | 0.90\|(ND) | 0.18 | 0.092\|0.092 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.18 | 0.092\|0.092 |
| DALAPON | (ND)\|ND | 9.7 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.65\|0.65 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|2.8 | 1.8 | 0.92\|0.92 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (189.4)\|159.0 | 162.2 | (117)\|98.1 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 17:58 |
| Sample ID: SL-177-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 19:14 |
| Lab Samp ID: D092-05 | Dilution Factor: 1 |
| Lab File ID: WD19016A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : 5.5 |
| Calib. Ref.: WD19002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.8 | 1.9\|1.9 |
| 2,4-DB | (ND)\|ND | 1.8 | 0.90\|0.90 |
| 2,4,5-T | 0.71\|(ND) | 0.18 | 0.090\|0.090 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.18 | 0.090\|0.090 |
| DALAPON | (ND)\|ND | 9.5 | 4.8\|4.8 |
| DICAMBA | (ND)\|ND | 1.3 | 0.63\|0.63 |
| DICHLOROPROP | (ND)\|ND | 2.5 | 1.3\|1.3 |
| DINOSEB | (ND)\|2.1 | 1.8 | 0.90\|0.90 |
| MCPA | (ND)\|ND | 260 | 130\|130 |
| MCPP | (ND)\|ND | 260 | 130\|130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (221.3)\|162.4 | 158.7 | (139)\|102 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 17:58 |
| Sample ID: SL-188-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 19:35 |
| Lab Samp ID: D092-06 | Dilution Factor: 1 |
| Lab File ID: WD19017A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : 7.1 |
| Calib. Ref.: WD19002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 1.9\|1.9 |
| 2,4-DB | (ND)\|280 | 1.8 | 0.91\|0.91 |
| 2,4,5-T | (ND)\|ND | 0.18 | 0.091\|0.091 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.18 | 0.091\|0.091 |
| DALAPON | (ND)\|ND | 9.7 | 4.8\|4.8 |
| DICAMBA | (ND)\|ND | 1.3 | 0.65\|0.65 |
| DICHLOROPROP | (ND)\|8.2 | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.8 | 0.91\|0.91 |
| MCPA | (ND)\|4200 | 270 | 130\|130 |
| MCPP | (ND)\|ND | 270 | 130\|130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (148.8)\|123.5 | 161.5 | (92.2)\|76.5 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 17:58 |
| Sample ID: DUP-07-NBZ-QC-041012 | Date Analyzed: 04/19/12 19:55 |
| Lab Samp ID: D092-07 | Dilution Factor: 1 |
| Lab File ID: WD19018A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : 12.9 |
| Calib. Ref.: WD19002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 0.98\|0.98 |
| 2,4,5-T | 1.1\|(ND) | 0.20 | 0.098\|0.098 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.098\|0.098 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.69\|0.69 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 0.98\|0.98 |
| MCPA | (ND)\|ND | 290 | 140\|140 |
| MCPP | (ND)\|ND | 290 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (234.7)\|162.7 | 172.2 | (136)\|94.5 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D092 | Date Extracted: 04/18/12 17:58 |
| Sample ID: MBLK1S | Date Analyzed: 04/19/12 14:50 |
| Lab Samp ID: HED009SB | Dilution Factor: 1 |
| Lab File ID: WD19003A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : NA |
| Calib. Ref.: WD19002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (189.4)\|141.9 | 150.0 | (126)\|94.6 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HED009SB | HED009SL | HED009SC | | |
| LAB FILE ID: | WD19003A | WD19004A | WD19005A | | |
| DATE EXTRACTED: | 04/18/1217:58 | 04/18/1217:58 | 04/18/1217:58 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/19/1214:50 | 04/19/1215:11 | 04/19/1215:31 | DATE RECEIVED: | 04/18/12 |
| PREP. BATCH: | HED009S | HED009S | HED009S | | |
| CALIB. REF: | WD19002A | WD19002A | WD19002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | (14.7)\|12.8 | (98)\|85 | 15.0 | (16.4)\|14.2 | (109)\|95 | (11)\|10 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 13.0\|(15.7) | 87\|(105) | 15.0 | 13.2\|(14.0) | 88\|(93) | 2\|(11) | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | (13.9)\|13.7 | (93)\|91 | 15.0 | (15.7)\|14.4 | (105)\|96 | (12)\|5 | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 15.0 | 13.4\|(13.7) | 89\|(91) | 15.0 | (15.1)\|14.3 | (101)\|95 | (12)\|4 | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | 6.63J\|(8.87J) | 44\|(59) | 15.0 | 6.74J\|(9.71) | 45\|(65) | 2\|(9) | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (14.0)\|11.8 | (93)\|79 | 15.0 | (15.4)\|13.4 | (103)\|89 | (10)\|13 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | (15.6)\|14.1 | (104)\|94 | 15.0 | (16.3)\|15.4 | (109)\|103 | (4)\|9 | 60-160 | 50 |
| Dinoseb | (ND)\|ND | 15.0 | (9.06)\|8.00 | (60)\|53 | 15.0 | (10.1)\|7.65 | (67)\|51 | (11)\|4 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (709)\|562 | (95)\|75 | 750 | (745)\|624 | (99)\|83 | (5)\|10 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | (634)\|476 | (85)\|63 | 750 | (674)\|590 | (90)\|79 | (6)\|21 | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 (157.4)\|120.6 | (105)\|80.4 | 150.0 | (172.7)\|134.0 | (115)\|89.4 | 10-150 | |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: 13.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-009-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D092-01 | D092-01M | D092-01S | | |
| LAB FILE ID: | WD19010A | WD19011A | WD19012A | | |
| DATE EXTRACTED: | 04/18/1217:58 | 04/18/1217:58 | 04/18/1217:58 | DATE COLLECTED: | 04/10/12 |
| DATE ANALYZED: | 04/19/1217:12 | 04/19/1217:32 | 04/19/1217:53 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | HED009S | HED009S | HED009S | | |
| CALIB. REF: | WD19002A | WD19002A | WD19002A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 17.4 | (18.4)\|14.8 | (106)\|85 | 17.4 | 15.9\|(16.7) | 92\|(96) | 15\|(12) | 30-140 | 50 |
| 2,4-DB | (ND)\|ND | 17.4 | (17.8)\|10.2 | (103)\|59 | 17.4 | (16.5)\|10.6 | (95)\|61 | (8)\|4 | 30-160 | 50 |
| 2,4,5-T | (ND)\|ND | 17.4 | 15.7\|(16.9) | 90\|(97) | 17.4 | (17.6)\|16.4 | (101)\|94 | (11)\|3 | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 17.4 | 15.6\|(17.0) | 90\|(98) | 17.4 | 17.3\|(18.2) | 100\|(105) | 10\|(7) | 30-150 | 50 |
| Dalapon | (ND)\|ND | 17.4 | (7.17J)\|6.20J | (41)\|36 | 17.4 | (8.50J)\|13.8 | (49)\|79 | (17)\|76* | 10-160 | 50 |
| Dicamba | (ND)\|ND | 17.4 | (17.3)\|16.5 | (100)\|95 | 17.4 | 18.4\|(18.9) | 106\|(109) | 6\|(14) | 50-130 | 50 |
| Dichloroprop | (ND)\|ND | 17.4 | (18.8)\|14.6 | (108)\|84 | 17.4 | (17.9)\|15.8 | (103)\|91 | (5)\|8 | 60-150 | 50 |
| Dinoseb | (ND)\|ND | 17.4 | (10.1)\|7.09 | (58)\|41 | 17.4 | (11.4)\|9.66 | (66)\|56 | (12)\|31 | 10-130 | 50 |
| MCPA | (ND)\|ND | 868 | 908\|(936) | 105\|(108) | 868 | (1060)\|866 | (122)\|100 | (15)\|8 | 10-160 | 50 |
| MCPP | (ND)\|ND | 868 | (1040)\|843 | (120)\|97 | 868 | (1080)\|850 | (124)\|98 | (4)\|1 | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 173.6 | (194.8)\|147.8 | (112)\|85.2 | 173.6 | (223.2)\|168.1 | (129)\|96.8 | 10-150 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/16/12 19:08 |
| Sample ID: SL-009-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 19:15 |
| Lab Samp ID: D092-01 | Dilution Factor: 1 |
| Lab File ID: XD17015A | Matrix : SOIL |
| Ext Btch ID: EXD012S | % Moisture : NA |
| Calib. Ref.: XD17011A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1960 | 2000 | 98.2 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/16/12 19:08 |
| Sample ID: SL-084-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 20:57 |
| Lab Samp ID: D092-02 | Dilution Factor: 1 |
| Lab File ID: XD17018A | Matrix : SOIL |
| Ext Btch ID: EXD012S | % Moisture : NA |
| Calib. Ref.: XD17011A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1890 | 2000 | 94.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/16/12 19:08 |
| Sample ID: SL-085-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 21:31 |
| Lab Samp ID: D092-03 | Dilution Factor: 1 |
| Lab File ID: XD17019A | Matrix : SOIL |
| Ext Btch ID: EXD012S | % Moisture : NA |
| Calib. Ref.: XD17011A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2020 | 2000 | 101 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/16/12 19:08 |
| Sample ID: DUP-07-NBZ-QC-041012 | Date Analyzed: 04/17/12 22:05 |
| Lab Samp ID: D092-07 | Dilution Factor: 1 |
| Lab File ID: XD17020A | Matrix : SOIL |
| Ext Btch ID: EXD012S | % Moisture : NA |
| Calib. Ref.: XD17011A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1890 | 2000 | 94.5 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D092 | Date Extracted: 04/16/12 19:08 |
| Sample ID: MBLK1S | Date Analyzed: 04/17/12 17:33 |
| Lab Samp ID: EXD012SB | Dilution Factor: 1 |
| Lab File ID: XD17012A | Matrix : SOIL |
| Ext Btch ID: EXD012S | % Moisture : NA |
| Calib. Ref.: XD17011A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1910 | 2000 | 95.7 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD012SB | EXD012SL | EXD012SC | | |
| LAB FILE ID: | XD17012A | XD17013A | XD17014A | | |
| DATE EXTRACTED: | 04/16/1219:08 | 04/16/1219:08 | 04/16/1219:08 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/17/1217:33 | 04/17/1218:07 | 04/17/1218:41 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | EXD012S | EXD012S | EXD012S | | |
| CALIB. REF: | XD17011A | XD17011A | XD17011A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 1800 | 90 | 2000 | 1840 | 92 | 2 | 70-130 | 50 |
| RDX | ND | 2000 | 1980 | 99 | 2000 | 1940 | 97 | 2 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2140 | 107 | 2000 | 2150 | 107 | 0 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2100 | 105 | 2000 | 2120 | 106 | 1 | 70-130 | 50 |
| Tetryl | ND | 2000 | 1950 | 97 | 2000 | 1900 | 95 | 2 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 2180 | 109 | 2000 | 2190 | 110 | 1 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 1810 | 90 | 2000 | 1900 | 95 | 5 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 1920 | 96 | 2000 | 1900 | 95 | 1 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 1980 | 99 | 2000 | 1870 | 94 | 5 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2080 | 104 | 2000 | 2070 | 103 | 1 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2140 | 107 | 2000 | 2150 | 108 | 0 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 1780 | 89 | 2000 | 2200 | 110 | 21 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1930 | 97 | 2000 | 1780 | 89 | 8 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 1950 | 97 | 2000 | 1970 | 99 | 1 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1930 | 97 | 2000 | 1940 | 97 | 0 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2080 | 104 | 2000 | 2090 | 104 | 0 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1940 | 97 | 2000 | 1900 | 95 | 65-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 .99
SAMPLE ID: SL-009-NBZ-SS-0.0-0.5
LAB SAMP ID: D092-01 D092-01M D092-01S
LAB FILE ID: XD17015A XD17016A XD17017A
DATE EXTRACTED: 04/16/1219:08 04/16/1219:08 04/16/1219:08 DATE COLLECTED: 04/10/12
DATE ANALYZED: 04/17/1219:15 04/17/1219:49 04/17/1220:23 DATE RECEIVED: 04/10/12
PREP. BATCH: EXD012S EXD012S EXD012S
CALIB. REF: XD17011A XD17011A XD17011A

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 1920 | 96 | 1980 | 1850 | 93 | 3 | 70-130 | 50 |
| RDX | ND | 2000 | 1970 | 98 | 1980 | 1910 | 96 | 2 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2120 | 106 | 1980 | 2090 | 105 | 1 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2130 | 107 | 1980 | 2040 | 103 | 4 | 70-130 | 50 |
| Tetryl | ND | 2000 | 1920 | 96 | 1980 | 1870 | 94 | 2 | 60-130 | 50 |
| Nitrobenzene | ND | 2000 | 2130 | 107 | 1980 | 2090 | 106 | 1 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 1770 | 88 | 1980 | 1760 | 89 | 1 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 1900 | 95 | 1980 | 1820 | 92 | 3 | 70-140 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 1800 | 90 | 1980 | 1830 | 92 | 2 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2010 | 101 | 1980 | 2110 | 106 | 5 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2080 | 104 | 1980 | 2050 | 104 | 0 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 2120 | 106 | 1980 | 2030 | 102 | 4 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 2080 | 104 | 1980 | 1870 | 94 | 10 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 1930 | 96 | 1980 | 1800 | 91 | 5 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1380 | 69 | 1980 | 1390 | 70 | 1 | 20-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 1700 | 85 | 1980 | 1720 | 87 | 2 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1940 | 97 | 1980 | 1870 | 94 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/10/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/10/12 |
| Batch No. | : 12D092 | Date Extracted | : 04/16/12 19:08 |
| Sample ID | : SL-009-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/17/12 16:26 |
| Lab Samp ID | : D092-01 | Dilution Factor | : 1 |
| Lab File ID | : PD17012A | Matrix | : SOIL |
| Ext Btch ID | : EXD012S | % Moisture | : NA |
| Calib. Ref. | : PD17008A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2530 | 2000 | 127 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/10/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/10/12 |
| Batch No. | : 12D092 | Date Extracted | : 04/16/12 19:08 |
| Sample ID | : SL-084-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/17/12 17:08 |
| Lab Samp ID | : D092-02 | Dilution Factor | : 1 |
| Lab File ID | : PD17015A | Matrix | : SOIL |
| Ext Btch ID | : EXD012S | % Moisture | : NA |
| Calib. Ref. | : PD17008A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2430 | 2000 | 122 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/10/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/10/12 |
| Batch No. | : 12D092 | Date Extracted | : 04/16/12 19:08 |
| Sample ID | : SL-085-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/17/12 17:22 |
| Lab Samp ID | : D092-03 | Dilution Factor | : 1 |
| Lab File ID | : PD17016A | Matrix | : SOIL |
| Ext Btch ID | : EXD012S | % Moisture | : NA |
| Calib. Ref. | : PD17008A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2430 | 2000 | 122 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| Batch No. : 12D092 | Date Extracted: 04/16/12 19:08 |
| Sample ID: DUP-07-NBZ-QC-041012 | Date Analyzed: 04/17/12 17:35 |
| Lab Samp ID: D092-07 | Dilution Factor: 1 |
| Lab File ID: PD17017A | Matrix : SOIL |
| Ext Btch ID: EXD012S | % Moisture : NA |
| Calib. Ref.: PD17008A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2460 | 2000 | 123 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D092 | Date Extracted: 04/16/12 19:08 |
| Sample ID: MBLK1S | Date Analyzed: 04/17/12 15:45 |
| Lab Samp ID: EXD012SB | Dilution Factor: 1 |
| Lab File ID: PD17009A | Matrix : SOIL |
| Ext Btch ID: EXD012S | % Moisture : NA |
| Calib. Ref.: PD17008A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2350 | 2000 | 117 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD012SB | EXD012SX | EXD012SY | | |
| LAB FILE ID: | PD17009A | PD17010A | PD17011A | | |
| DATE EXTRACTED: | 04/16/1219:08 | 04/16/1219:08 | 04/16/1219:08 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/17/1215:45 | 04/17/1215:59 | 04/17/1216:12 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | EXD012S | EXD012S | EXD012S | | |
| CALIB. REF: | PD17008A | PD17008A | PD17008A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 6940 | 92 | 7500 | 7670 | 102 | 10 | 50-150 | 50 |
| PETN | ND | 7500 | 6930 | 92 | 7500 | 7410 | 99 | 7 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2320 | 116 | 2000 | 2350 | 118 | 65-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: Method 8332

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-009-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D092-01 | D092-01M | D092-01S | | |
| LAB FILE ID: | PD17012A | PD17013A | PD17014A | | |
| DATE EXTRACTED: | 04/16/1219:08 | 04/16/1219:08 | 04/16/1219:08 | DATE COLLECTED: | 04/10/12 |
| DATE ANALYZED: | 04/17/1216:26 | 04/17/1216:40 | 04/17/1216:54 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | EXD012S | EXD012S | EXD012S | | |
| CALIB. REF: | PD17008A | PD17008A | PD17008A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7120 | 95 | 7500 | 7120 | 95 | 0 | 50-150 | 50 |
| PETN | ND | 7500 | 7120 | 95 | 7500 | 7270 | 97 | 2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2320 | 116 | 2000 | 2300 | 115 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/10/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/10/12 |
| SDG NO. | : 12D092 | Date Extracted | : 04/18/12 10:17 |
| Sample ID | : SL-009-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 17:23 |
| Lab Samp ID | : D092-01W | Dilution Factor | : 1.00 |
| Lab File ID | : 98D19056 | Matrix | : SOIL |
| Ext Btch ID | : IMD027S | % Moisture | : 13.6 |
| Calib. Ref. | : 98D19053 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10500 | 27.8 | 13.9 |
| Antimony | 0.186J | 0.231 | 0.116 |
| Arsenic | 16.2 | 0.463 | 0.231 |
| Barium | 96.8 | 0.463 | 0.231 |
| Beryllium | 0.390 | 0.116 | 0.0579 |
| Boron | ND | 5.79 | 2.89 |
| Cadmium | 0.257 | 0.116 | 0.0579 |
| Calcium | 3250 | 23.1 | 11.6 |
| Chromium | 13.1 | 0.463 | 0.231 |
| Cobalt | 4.65 | 0.116 | 0.0579 |
| Copper | 7.92 | 0.463 | 0.231 |
| Iron | 17100 | 23.1 | 11.6 |
| Lead | 9.42 | 0.231 | 0.116 |
| Magnesium | 4660 | 11.6 | 5.79 |
| Manganese | 285 | 0.579 | 0.289 |
| Molybdenum | 0.389 | 0.116 | 0.0579 |
| Nickel | 9.51 | 0.463 | 0.231 |
| Potassium | 3920 | 69.4 | 34.7 |
| Selenium | ND | 0.463 | 0.231 |
| Silver | 0.0901J | 0.116 | 0.0579 |
| Sodium | 70.0J | 116 | 57.9 |
| Strontium | 17.0 | 0.579 | 0.289 |
| Thallium | 0.229 | 0.116 | 0.0579 |
| Tin | ND | 11.6 | 5.79 |
| Titanium | 878 | 1.16 | 0.579 |
| Vanadium | 27.8 | 0.116 | 0.0579 |
| Zinc | 66.9 | 3.47 | 1.74 |
| Lithium | 23.6 | 2.31 | 1.16 |
| Phosphorus | 550 | 13.9 | 6.94 |
| Zirconium | ND | 5.79 | 2.89 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/10/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/10/12 |
| SDG NO. | : 12D092 | Date Extracted | : 04/18/12 10:17 |
| Sample ID | : SL-084-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 17:32 |
| Lab Samp ID | : D092-02W | Dilution Factor | : 1.00 |
| Lab File ID | : 98D19058 | Matrix | : SOIL |
| Ext Btch ID | : IMD027S | % Moisture | : 14.4 |
| Calib. Ref. | : 98D19053 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10500 | 28.0 | 14.0 |
| Antimony | 0.326 | 0.234 | 0.117 |
| Arsenic | 10.9 | 0.467 | 0.234 |
| Barium | 98.9 | 0.467 | 0.234 |
| Beryllium | 0.367 | 0.117 | 0.0584 |
| Boron | ND | 5.84 | 2.92 |
| Cadmium | 0.258 | 0.117 | 0.0584 |
| Calcium | 3640 | 23.4 | 11.7 |
| Chromium | 12.0 | 0.467 | 0.234 |
| Cobalt | 5.06 | 0.117 | 0.0584 |
| Copper | 8.04 | 0.467 | 0.234 |
| Iron | 18500 | 23.4 | 11.7 |
| Lead | 13.3 | 0.234 | 0.117 |
| Magnesium | 4360 | 11.7 | 5.84 |
| Manganese | 293 | 0.584 | 0.292 |
| Molybdenum | 0.404 | 0.117 | 0.0584 |
| Nickel | 9.04 | 0.467 | 0.234 |
| Potassium | 3600 | 70.1 | 35.0 |
| Selenium | 0.286J | 0.467 | 0.234 |
| Silver | 0.0730J | 0.117 | 0.0584 |
| Sodium | 82.8J | 117 | 58.4 |
| Strontium | 20.5 | 0.584 | 0.292 |
| Thallium | 0.245 | 0.117 | 0.0584 |
| Tin | ND | 11.7 | 5.84 |
| Titanium | 891 | 1.17 | 0.584 |
| Vanadium | 27.4 | 0.117 | 0.0584 |
| Zinc | 69.5 | 3.50 | 1.75 |
| Lithium | 23.0 | 2.34 | 1.17 |
| Phosphorus | 570 | 14.0 | 7.01 |
| Zirconium | ND | 5.84 | 2.92 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/10/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/10/12 |
| SDG NO. | : 12D092 | Date Extracted | : 04/18/12 10:17 |
| Sample ID | : SL-085-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 17:36 |
| Lab Samp ID | : D092-03W | Dilution Factor | : 0.966 |
| Lab File ID | : 98D19059 | Matrix | : SOIL |
| Ext Btch ID | : IMD027S | % Moisture | : 15.4 |
| Calib. Ref. | : 98D19053 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11400 | 27.4 | 13.7 |
| Antimony | 0.219J | 0.228 | 0.114 |
| Arsenic | 4.28 | 0.457 | 0.228 |
| Barium | 98.1 | 0.457 | 0.228 |
| Beryllium | 0.423 | 0.114 | 0.0571 |
| Boron | ND | 5.71 | 2.85 |
| Cadmium | 0.271 | 0.114 | 0.0571 |
| Calcium | 3530 | 22.8 | 11.4 |
| Chromium | 14.0 | 0.457 | 0.228 |
| Cobalt | 4.86 | 0.114 | 0.0571 |
| Copper | 8.28 | 0.457 | 0.228 |
| Iron | 17200 | 22.8 | 11.4 |
| Lead | 10.4 | 0.228 | 0.114 |
| Magnesium | 4260 | 11.4 | 5.71 |
| Manganese | 281 | 0.571 | 0.285 |
| Molybdenum | 0.501 | 0.114 | 0.0571 |
| Nickel | 9.35 | 0.457 | 0.228 |
| Potassium | 3410 | 68.5 | 34.3 |
| Selenium | ND | 0.457 | 0.228 |
| Silver | ND | 0.114 | 0.0571 |
| Sodium | 86.8J | 114 | 57.1 |
| Strontium | 21.4 | 0.571 | 0.285 |
| Thallium | 0.234 | 0.114 | 0.0571 |
| Tin | ND | 11.4 | 5.71 |
| Titanium | 795 | 1.14 | 0.571 |
| Vanadium | 29.2 | 0.114 | 0.0571 |
| Zinc | 56.9 | 3.43 | 1.71 |
| Lithium | 19.6 | 2.28 | 1.14 |
| Phosphorus | 486 | 13.7 | 6.85 |
| Zirconium | ND | 5.71 | 2.85 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/10/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/10/12 |
| SDG NO. | : 12D092 | Date Extracted | : 04/18/12 10:17 |
| Sample ID | : SL-186-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 17:41 |
| Lab Samp ID | : D092-04W | Dilution Factor | : 1.00 |
| Lab File ID | : 98D19060 | Matrix | : SOIL |
| Ext Btch ID | : IMD027S | % Moisture | : 7.5 |
| Calib. Ref. | : 98D19053 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10500 | 25.9 | 13.0 |
| Antimony | 0.127J | 0.216 | 0.108 |
| Arsenic | 19.9 | 0.432 | 0.216 |
| Barium | 92.5 | 0.432 | 0.216 |
| Beryllium | 0.368 | 0.108 | 0.0541 |
| Boron | ND | 5.41 | 2.70 |
| Cadmium | 0.264 | 0.108 | 0.0541 |
| Calcium | 2670 | 21.6 | 10.8 |
| Chromium | 13.8 | 0.432 | 0.216 |
| Cobalt | 4.94 | 0.108 | 0.0541 |
| Copper | 7.02 | 0.432 | 0.216 |
| Iron | 17900 | 21.6 | 10.8 |
| Lead | 7.43 | 0.216 | 0.108 |
| Magnesium | 4850 | 10.8 | 5.41 |
| Manganese | 288 | 0.541 | 0.270 |
| Molybdenum | 0.387 | 0.108 | 0.0541 |
| Nickel | 9.58 | 0.432 | 0.216 |
| Potassium | 3980 | 64.9 | 32.4 |
| Selenium | ND | 0.432 | 0.216 |
| Silver | ND | 0.108 | 0.0541 |
| Sodium | ND | 108 | 54.1 |
| Strontium | 11.7 | 0.541 | 0.270 |
| Thallium | 0.244 | 0.108 | 0.0541 |
| Tin | ND | 10.8 | 5.41 |
| Titanium | 909 | 1.08 | 0.541 |
| Vanadium | 29.2 | 0.108 | 0.0541 |
| Zinc | 78.6 | 3.24 | 1.62 |
| Lithium | 26.9 | 2.16 | 1.08 |
| Phosphorus | 504 | 13.0 | 6.49 |
| Zirconium | ND | 5.41 | 2.70 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/10/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/10/12 |
| SDG NO. : 12D092 | Date Extracted: 04/18/12 10:17 |
| Sample ID: SL-177-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 17:45 |
| Lab Samp ID: D092-05W | Dilution Factor: 0.995 |
| Lab File ID: 98D19061 | Matrix : SOIL |
| Ext Btch ID: IMD027S | % Moisture : 5.5 |
| Calib. Ref.: 98D19053 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9850 | 25.3 | 12.6 |
| Antimony | ND | 0.211 | 0.105 |
| Arsenic | 10.1 | 0.421 | 0.211 |
| Barium | 61.2 | 0.421 | 0.211 |
| Beryllium | 0.356 | 0.105 | 0.0526 |
| Boron | ND | 5.26 | 2.63 |
| Cadmium | 0.123 | 0.105 | 0.0526 |
| Calcium | 1790 | 21.1 | 10.5 |
| Chromium | 10.3 | 0.421 | 0.211 |
| Cobalt | 3.93 | 0.105 | 0.0526 |
| Copper | 4.65 | 0.421 | 0.211 |
| Iron | 16400 | 21.1 | 10.5 |
| Lead | 5.43 | 0.211 | 0.105 |
| Magnesium | 4130 | 10.5 | 5.26 |
| Manganese | 220 | 0.526 | 0.263 |
| Molybdenum | 0.214 | 0.105 | 0.0526 |
| Nickel | 6.46 | 0.421 | 0.211 |
| Potassium | 3210 | 63.2 | 31.6 |
| Selenium | ND | 0.421 | 0.211 |
| Silver | ND | 0.105 | 0.0526 |
| Sodium | ND | 105 | 52.6 |
| Strontium | 8.67 | 0.526 | 0.263 |
| Thallium | 0.221 | 0.105 | 0.0526 |
| Tin | ND | 10.5 | 5.26 |
| Titanium | 830 | 1.05 | 0.526 |
| Vanadium | 23.5 | 0.105 | 0.0526 |
| Zinc | 47.5 | 3.16 | 1.58 |
| Lithium | 27.6 | 2.11 | 1.05 |
| Phosphorus | 327 | 12.6 | 6.32 |
| Zirconium | ND | 5.26 | 2.63 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/10/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/10/12 |
| SDG NO. | : 12D092 | Date Extracted | : 04/18/12 10:17 |
| Sample ID | : SL-188-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 17:50 |
| Lab Samp ID | : D092-06W | Dilution Factor | : 0.995 |
| Lab File ID | : 98D19062 | Matrix | : SOIL |
| Ext Btch ID | : IMD027S | % Moisture | : 7.1 |
| Calib. Ref. | : 98D19053 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 13500 | 25.7 | 12.9 |
| Antimony | 0.169J | 0.214 | 0.107 |
| Arsenic | 25.4 | 0.428 | 0.214 |
| Barium | 113 | 0.428 | 0.214 |
| Beryllium | 0.552 | 0.107 | 0.0536 |
| Boron | ND | 5.36 | 2.68 |
| Cadmium | 0.283 | 0.107 | 0.0536 |
| Calcium | 2690 | 21.4 | 10.7 |
| Chromium | 16.7 | 0.428 | 0.214 |
| Cobalt | 5.60 | 0.107 | 0.0536 |
| Copper | 7.56 | 0.428 | 0.214 |
| Iron | 19200 | 21.4 | 10.7 |
| Lead | 10.1 | 0.214 | 0.107 |
| Magnesium | 4870 | 10.7 | 5.36 |
| Manganese | 324 | 0.536 | 0.268 |
| Molybdenum | 0.510 | 0.107 | 0.0536 |
| Nickel | 11.3 | 0.428 | 0.214 |
| Potassium | 4530 | 64.3 | 32.1 |
| Selenium | 0.218J | 0.428 | 0.214 |
| Silver | 0.0613J | 0.107 | 0.0536 |
| Sodium | ND | 107 | 53.6 |
| Strontium | 20.7 | 0.536 | 0.268 |
| Thallium | 0.295 | 0.107 | 0.0536 |
| Tin | ND | 10.7 | 5.36 |
| Titanium | 940 | 1.07 | 0.536 |
| Vanadium | 33.5 | 0.107 | 0.0536 |
| Zinc | 54.4 | 3.21 | 1.61 |
| Lithium | 23.6 | 2.14 | 1.07 |
| Phosphorus | 403 | 12.9 | 6.43 |
| Zirconium | ND | 5.36 | 2.68 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/10/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/10/12 |
| SDG NO. | : 12D092 | Date Extracted | : 04/18/12 10:17 |
| Sample ID | : DUP-07-NBZ-QC-041012 | Date Analyzed | : 04/27/12 17:54 |
| Lab Samp ID | : D092-07W | Dilution Factor | : 1.00 |
| Lab File ID | : 98D19063 | Matrix | : SOIL |
| Ext Btch ID | : IMD027S | % Moisture | : 12.9 |
| Calib. Ref. | : 98D19053 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9530 | 27.6 | 13.8 |
| Antimony | 0.164J | 0.230 | 0.115 |
| Arsenic | 14.4 | 0.459 | 0.230 |
| Barium | 89.7 | 0.459 | 0.230 |
| Beryllium | 0.347 | 0.115 | 0.0574 |
| Boron | ND | 5.74 | 2.87 |
| Cadmium | 0.251 | 0.115 | 0.0574 |
| Calcium | 3190 | 23.0 | 11.5 |
| Chromium | 12.3 | 0.459 | 0.230 |
| Cobalt | 4.33 | 0.115 | 0.0574 |
| Copper | 7.33 | 0.459 | 0.230 |
| Iron | 16000 | 23.0 | 11.5 |
| Lead | 8.84 | 0.230 | 0.115 |
| Magnesium | 4150 | 11.5 | 5.74 |
| Manganese | 263 | 0.574 | 0.287 |
| Molybdenum | 0.388 | 0.115 | 0.0574 |
| Nickel | 8.73 | 0.459 | 0.230 |
| Potassium | 3530 | 68.9 | 34.4 |
| Selenium | ND | 0.459 | 0.230 |
| Silver | 0.0909J | 0.115 | 0.0574 |
| Sodium | 69.5J | 115 | 57.4 |
| Strontium | 16.9 | 0.574 | 0.287 |
| Thallium | 0.214 | 0.115 | 0.0574 |
| Tin | ND | 11.5 | 5.74 |
| Titanium | 806 | 1.15 | 0.574 |
| Vanadium | 25.7 | 0.115 | 0.0574 |
| Zinc | 61.5 | 3.44 | 1.72 |
| Lithium | 22.1 | 2.30 | 1.15 |
| Phosphorus | 488 | 13.8 | 6.89 |
| Zirconium | ND | 5.74 | 2.87 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| SDG NO. | : 12D092 | Date Extracted | : 04/18/12 10:17 |
| Sample ID | : MBLK1S | Date Analyzed | : 04/26/12 20:34 |
| Lab Samp ID | : IMD027SB | Dilution Factor | : 1 |
| Lab File ID | : 98D18055 | Matrix | : SOIL |
| Ext Btch ID | : IMD027S | % Moisture | : NA |
| Calib. Ref. | : 98D18053 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D092
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IMD027SB | IMD027SL | IMD027SC | | |
| LAB FILE ID: | 98D18055 | 98D18056 | 98D18057 | | |
| DATIME EXTRCTD: | 04/18/1210:17 | 04/18/1210:17 | 04/18/1210:17 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/26/1220:34 | 04/26/1220:39 | 04/26/1220:43 | DATE RECEIVED: | 04/18/12 |
| PREP. BATCH: | NA | NA | NA | | |
| CALIB. REF: | 98D18053 | 98D18053 | 98D18053 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2800 | 112 | 2500 | 2770 | 111 | 1 | 80-120 | 20 |
| Antimony | ND | 25.0 | 26.4 | 106 | 25.0 | 26.5 | 106 | 0 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 25.4 | 102 | 25.0 | 25.6 | 102 | 0 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.5 | 102 | 25.0 | 25.5 | 102 | 0 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 23.9 | 96 | 25.0 | 24.4 | 98 | 2 | 80-120 | 20 |
| Boron | ND | 25.0 | 24.7 | 99 | 25.0 | 25.1 | 100 | 2 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 25.1 | 101 | 25.0 | 25.3 | 101 | 1 | 80-120 | 20 |
| Calcium | ND | 2500 | 2640 | 105 | 2500 | 2650 | 106 | 1 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.8 | 99 | 25.0 | 24.6 | 98 | 1 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 25.3 | 101 | 25.0 | 25.3 | 101 | 0 | 80-120 | 20 |
| Copper | ND | 25.0 | 24.8 | 99 | 25.0 | 25.7 | 103 | 4 | 80-120 | 20 |
| Iron | ND | 2500 | 2600 | 104 | 2500 | 2580 | 103 | 1 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.3 | 101 | 25.0 | 25.5 | 102 | 1 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2760 | 110 | 2500 | 2780 | 111 | 1 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.0 | 100 | 25.0 | 25.7 | 103 | 3 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 26.3 | 105 | 25.0 | 26.5 | 106 | 1 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.5 | 98 | 25.0 | 24.5 | 98 | 0 | 80-120 | 20 |
| Potassium | ND | 2500 | 2690 | 108 | 2500 | 2680 | 107 | 1 | 80-120 | 20 |
| Selenium | ND | 25.0 | 24.9 | 99 | 25.0 | 25.3 | 101 | 2 | 80-120 | 20 |
| Silver | ND | 25.0 | 25.4 | 102 | 25.0 | 25.6 | 102 | 1 | 80-120 | 20 |
| Sodium | ND | 2500 | 2610 | 104 | 2500 | 2640 | 106 | 1 | 80-120 | 20 |
| Strontium | ND | 25.0 | 26.0 | 104 | 25.0 | 26.1 | 104 | 0 | 80-120 | 20 |
| Thallium | ND | 25.0 | 26.1 | 104 | 25.0 | 25.9 | 104 | 1 | 80-120 | 20 |
| Tin | ND | 25.0 | 28.0 | 112 | 25.0 | 28.2 | 113 | 1 | 80-120 | 20 |
| Titanium | ND | 25.0 | 26.6 | 106 | 25.0 | 27.1 | 108 | 2 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 25.3 | 101 | 25.0 | 25.4 | 102 | 0 | 80-120 | 20 |
| Zinc | ND | 50.0 | 49.7 | 99 | 50.0 | 50.5 | 101 | 2 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.6 | 102 | 25.0 | 26.1 | 105 | 2 | 80-120 | 20 |
| Phosphorus | ND | 250 | 270 | 108 | 250 | 270 | 108 | 0 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 25.9 | 103 | 25.0 | 26.3 | 105 | 2 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D092
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 13.6
DILTN FACTR: 1.00 0.995 0.976
SAMPLE ID: SL-009-NBZ-SS-0.0-0.5
CONTROL NO.: D092-01W D092-01M D092-01S
LAB FILE ID: 98D19056 98D19026 98D19027
DATIME EXTRCTD: 04/18/1210:17 04/18/1210:17 04/18/1210:17 DATE COLLECTED: 04/10/12
DATIME ANALYZD: 04/27/1217:23 04/27/1215:06 04/27/1215:10 DATE RECEIVED: 04/10/12
PREP. BATCH: NA NA NA
CALIB. REF: 98D19053 98D19017 98D19017

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 10500 | 2880 | 13700 | 112 | 2820 | 13800 | 119 | 1 | 75-125 | 20 |
| Antimony | 0.186J | 28.8 | 23.8 | 82 | 28.2 | 22.7 | 80 | 5 | 75-125 | 20 |
| Arsenic | 16.2 | 28.8 | 42.4 | 91 | 28.2 | 43.2 | 96 | 2 | 75-125 | 20 |
| Barium | 96.8 | 28.8 | 130 | 115 | 28.2 | 130 | 118 | 0 | 75-125 | 20 |
| Beryllium | 0.390 | 28.8 | 26.1 | 89 | 28.2 | 26.3 | 92 | 0 | 75-125 | 20 |
| Boron | ND | 28.8 | 27.1 | 94 | 28.2 | 28.7 | 102 | 6 | 75-125 | 20 |
| Cadmium | 0.257 | 28.8 | 28.6 | 99 | 28.2 | 27.9 | 98 | 2 | 75-125 | 20 |
| Calcium | 3250 | 2880 | 6480 | 112 | 2820 | 6390 | 111 | 1 | 75-125 | 20 |
| Chromium | 13.1 | 28.8 | 40.5 | 95 | 28.2 | 39.5 | 93 | 3 | 75-125 | 20 |
| Cobalt | 4.65 | 28.8 | 32.1 | 95 | 28.2 | 30.3 | 91 | 6 | 75-125 | 20 |
| Copper | 7.92 | 28.8 | 33.6 | 89 | 28.2 | 33.5 | 91 | 0 | 75-125 | 20 |
| Iron | 17100 | 2880 | 20100 | 102 | 2820 | 19900 | 96 | 1 | 75-125 | 20 |
| Lead | 9.42 | 28.8 | 39.5 | 105 | 28.2 | 36.6 | 96 | 8 | 75-125 | 20 |
| Magnesium | 4660 | 2880 | 7420 | 96 | 2820 | 7420 | 98 | 0 | 75-125 | 20 |
| Manganese | 285 | 28.8 | 361 | 263* | 28.2 | 310 | 88 | 15 | 75-125 | 20 |
| Molybdenum | 0.389 | 28.8 | 29.3 | 101 | 28.2 | 28.6 | 100 | 3 | 75-125 | 20 |
| Nickel | 9.51 | 28.8 | 35.7 | 91 | 28.2 | 35.2 | 91 | 2 | 75-125 | 20 |
| Potassium | 3920 | 2880 | 6570 | 92 | 2820 | 6550 | 93 | 0 | 75-125 | 20 |
| Selenium | ND | 28.8 | 27.8 | 96 | 28.2 | 27.3 | 97 | 2 | 75-125 | 20 |
| Silver | 0.0901J | 28.8 | 28.6 | 99 | 28.2 | 27.7 | 98 | 3 | 75-125 | 20 |
| Sodium | 70.0J | 2880 | 2870 | 97 | 2820 | 2890 | 100 | 1 | 75-125 | 20 |
| Strontium | 17.0 | 28.8 | 46.7 | 103 | 28.2 | 46.9 | 106 | 0 | 75-125 | 20 |
| Thallium | 0.229 | 28.8 | 29.0 | 100 | 28.2 | 28.0 | 98 | 4 | 75-125 | 20 |
| Tin | ND | 28.8 | 32.5 | 113 | 28.2 | 32.1 | 114 | 1 | 75-125 | 20 |
| Titanium | 878 | 28.8 | 897 | 63* | 28.2 | 953 | 263* | 6 | 75-125 | 20 |
| Vanadium | 27.8 | 28.8 | 57.6 | 103 | 28.2 | 55.8 | 99 | 3 | 75-125 | 20 |
| Zinc | 66.9 | 57.6 | 131 | 111 | 56.5 | 123 | 99 | 6 | 75-125 | 20 |
| Lithium | 23.6 | 28.8 | 51.5 | 97 | 28.2 | 52.9 | 104 | 3 | 75-125 | 20 |
| Phosphorus | 550 | 288 | 808 | 90 | 282 | 788 | 84 | 3 | 75-125 | 20 |
| Zirconium | ND | 28.8 | 13.3 | 46* | 28.2 | 14.2 | 50* | 6 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D092
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 13.6
DILTN FACTR: 1.00 1.00
SAMPLE ID: SL-009-NBZ-SS-0.0-0.5
CONTROL NO.: D092-01W D092-01A
LAB FILE ID: 98D19056 98D19055
DATIME EXTRCTD: 04/18/1210:17 04/18/1210:17 DATE COLLECTED: 04/10/12
DATIME ANALYZD: 04/27/1217:23 04/27/1217:18 DATE RECEIVED: 04/10/12
PREP. BATCH: NA NA
CALIB. REF: 98D19053 98D19053

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 10500 | 2890 | 13700 | 111 | 75-125 |
| Antimony | 0.186J | 28.9 | 30.4 | 105 | 75-125 |
| Arsenic | 16.2 | 28.9 | 45.3 | 101 | 75-125 |
| Barium | 96.8 | 28.9 | 135 | 132* | 75-125 |
| Beryllium | 0.390 | 28.9 | 27.0 | 92 | 75-125 |
| Boron | ND | 28.9 | 29.5 | 102 | 75-125 |
| Cadmium | 0.257 | 28.9 | 29.0 | 99 | 75-125 |
| Calcium | 3250 | 2890 | 6260 | 104 | 75-125 |
| Chromium | 13.1 | 28.9 | 39.0 | 89 | 75-125 |
| Cobalt | 4.65 | 28.9 | 30.9 | 91 | 75-125 |
| Copper | 7.92 | 28.9 | 32.7 | 86 | 75-125 |
| Iron | 17100 | 2890 | 20400 | 114 | 75-125 |
| Lead | 9.42 | 28.9 | 37.6 | 97 | 75-125 |
| Magnesium | 4660 | 2890 | 7670 | 104 | 75-125 |
| Manganese | 285 | 28.9 | 310 | 86 | 75-125 |
| Molybdenum | 0.389 | 28.9 | 30.5 | 104 | 75-125 |
| Nickel | 9.51 | 28.9 | 34.4 | 86 | 75-125 |
| Potassium | 3920 | 2890 | 6890 | 103 | 75-125 |
| Selenium | ND | 28.9 | 28.7 | 99 | 75-125 |
| Silver | 0.0901J | 28.9 | 29.3 | 101 | 75-125 |
| Sodium | 70.0J | 2890 | 2950 | 99 | 75-125 |
| Strontium | 17.0 | 28.9 | 47.2 | 104 | 75-125 |
| Thallium | 0.229 | 28.9 | 29.3 | 101 | 75-125 |
| Tin | ND | 28.9 | 33.2 | 115 | 75-125 |
| Titanium | 878 | 28.9 | 932 | 186* | 75-125 |
| Vanadium | 27.8 | 28.9 | 55.3 | 95 | 75-125 |
| Zinc | 66.9 | 57.9 | 126 | 102 | 75-125 |
| Lithium | 23.6 | 28.9 | 53.6 | 104 | 75-125 |
| Phosphorus | 550 | 289 | 851 | 104 | 75-125 |
| Zirconium | ND | 28.9 | 28.6 | 99 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 13.6
DILUTION FACTOR: 1.00 5.00
SAMPLE ID: SL-009-NBZ-SS- SL-009-NBZ-SS-
EMAX SAMP ID: D092-01W D092-01J
LAB FILE ID: 98D19056 98D19057
DATE EXTRACTED: 04/18/1210:17 04/18/1210:17 DATE COLLECTED: 04/10/12
DATE ANALYZED: 04/27/1217:23 04/27/1217:27 DATE RECEIVED: 04/10/12
PREP. BATCH: IMD027S IMD027S
CALIB. REF: 98D19053 98D19053

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 10500 | 10300 | 2 | 10 |
| Antimony | 0.186J | ND | NA | 10 |
| Arsenic | 16.2 | 16.0 | 1 | 10 |
| Barium | 96.8 | 91.7 | 5 | 10 |
| Beryllium | 0.390 | 0.410J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.257 | ND | NA | 10 |
| Calcium | 3250 | 3280 | 1 | 10 |
| Chromium | 13.1 | 13.0 | 1 | 10 |
| Cobalt | 4.65 | 4.62 | 1 | 10 |
| Copper | 7.92 | 9.55 | 21* | 10 |
| Iron | 17100 | 17400 | 2 | 10 |
| Lead | 9.42 | 9.27 | 2 | 10 |
| Magnesium | 4660 | 4540 | 2 | 10 |
| Manganese | 285 | 286 | 1 | 10 |
| Molybdenum | 0.389 | 0.363J | NA | 10 |
| Nickel | 9.51 | 9.67 | 2 | 10 |
| Potassium | 3920 | 3810 | 3 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | 0.0901J | ND | NA | 10 |
| Sodium | 70.0J | ND | NA | 10 |
| Strontium | 17.0 | 16.1 | 5 | 10 |
| Thallium | 0.229 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 878 | 874 | 0 | 10 |
| Vanadium | 27.8 | 27.5 | 1 | 10 |
| Zinc | 66.9 | 68.5 | 2 | 10 |
| Lithium | 23.6 | 22.1 | 7 | 10 |
| Phosphorus | 550 | 507 | 8 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D092
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD021SB | ND | 1 | NA | 0.100 | 0.0500 | 04/20/1216:16 | 04/20/1212:45 | M47D014041 | M47D014032 | HGD021S | NA | 04/20/12 |
| LCS1S | HGD021SL | 0.877 | 1 | NA | 0.100 | 0.0500 | 04/20/1216:19 | 04/20/1212:45 | M47D014042 | M47D014032 | HGD021S | NA | 04/20/12 |
| LCD1S | HGD021SC | 0.878 | 1 | NA | 0.100 | 0.0500 | 04/20/1216:21 | 04/20/1212:45 | M47D014043 | M47D014032 | HGD021S | NA | 04/20/12 |
| SL-009-NBZ-SS-0.0-0.5AS | D092-01A | 1.05 | 1.00 | 13.6 | 0.116 | 0.0579 | 04/20/1216:27 | 04/20/1212:45 | M47D014046 | M47D014044 | HGD021S | 04/10/12 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5 | D092-01 | 0.0631J | 1.00 | 13.6 | 0.116 | 0.0579 | 04/20/1216:29 | 04/20/1212:45 | M47D014047 | M47D014044 | HGD021S | 04/10/12 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5DL | D092-01J | ND | 5.02 | 13.6 | 0.581 | 0.291 | 04/20/1216:31 | 04/20/1212:45 | M47D014048 | M47D014044 | HGD021S | 04/10/12 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5MS | D092-01M | 1.13 | 0.985 | 13.6 | 0.114 | 0.0570 | 04/20/1216:34 | 04/20/1212:45 | M47D014049 | M47D014044 | HGD021S | 04/10/12 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5MSD | D092-01S | 1.09 | 0.997 | 13.6 | 0.115 | 0.0577 | 04/20/1216:36 | 04/20/1212:45 | M47D014050 | M47D014044 | HGD021S | 04/10/12 | 04/10/12 |
| SL-084-NBZ-SS-0.0-0.5 | D092-02 | 0.0584J | 0.997 | 14.4 | 0.116 | 0.0582 | 04/20/1216:38 | 04/20/1212:45 | M47D014051 | M47D014044 | HGD021S | 04/10/12 | 04/10/12 |
| SL-085-NBZ-SS-0.0-0.5 | D092-03 | 0.532 | 0.993 | 15.4 | 0.117 | 0.0587 | 04/20/1216:41 | 04/20/1212:45 | M47D014052 | M47D014044 | HGD021S | 04/10/12 | 04/10/12 |
| SL-186-NBZ-SS-0.0-0.5 | D092-04 | ND | 0.992 | 7.5 | 0.107 | 0.0536 | 04/20/1216:43 | 04/20/1212:45 | M47D014053 | M47D014044 | HGD021S | 04/10/12 | 04/10/12 |
| SL-177-NBZ-SS-0.0-0.5 | D092-05 | ND | 1.00 | 5.5 | 0.106 | 0.0529 | 04/20/1216:45 | 04/20/1212:45 | M47D014054 | M47D014044 | HGD021S | 04/10/12 | 04/10/12 |
| SL-188-NBZ-SS-0.0-0.5 | D092-06 | ND | 0.993 | 7.1 | 0.107 | 0.0534 | 04/20/1216:47 | 04/20/1212:45 | M47D014055 | M47D014044 | HGD021S | 04/10/12 | 04/10/12 |
| DUP-07-NBZ-QC-041012 | D092-07 | 0.102J | 0.993 | 12.9 | 0.114 | 0.0570 | 04/20/1216:53 | 04/20/1212:45 | M47D014058 | M47D014056 | HGD021S | 04/10/12 | 04/10/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D092
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGD021SB | HGD021SL | HGD021SC | | |
| LAB FILE ID: | M47D014041 | M47D014042 | M47D014043 | | |
| DATIME EXTRCTD: | 04/20/1212:45 | 04/20/1212:45 | 04/20/1212:45 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/20/1216:16 | 04/20/1216:19 | 04/20/1216:21 | DATE RECEIVED: | 04/20/12 |
| PREP. BATCH: | HGD021S | HGD021S | HGD021S | | |
| CALIB. REF: | M47D014032 | M47D014032 | M47D014032 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .877 | 105 | .833 | .878 | 105 | 0 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D092
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 13.6

| | | | | | |
|---|---|---|---|---|---|
| DILTN FACTR: | 1.00 | 0.985 | 0.997 | | |
| SAMPLE ID: | SL-009-NBZ-SS-0.0-0.5 | | | | |
| CONTROL NO.: | D092-01 | D092-01M | D092-01S | | |
| LAB FILE ID: | M47D014047 | M47D014049 | M47D014050 | | |
| DATIME EXTRCTD: | 04/20/1212:45 | 04/20/1212:45 | 04/20/1212:45 | DATE COLLECTED: | 04/10/12 |
| DATIME ANALYZD: | 04/20/1216:29 | 04/20/1216:34 | 04/20/1216:36 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | HGD021S | HGD021S | HGD021S | | |
| CALIB. REF: | M47D014044 | M47D014044 | M47D014044 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | .0631J | .95 | 1.13 | 112 | .961 | 1.09 | 106 | 6 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D092
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 13.6 |
| DILTN FACTR: | 1.00 | 1.00 | | |
| SAMPLE ID: | SL-009-NBZ-SS-0.0-0.5 | | | |
| CONTROL NO.: | D092-01 | D092-01A | | |
| LAB FILE ID: | M47D014047 | M47D014046 | | |
| DATIME EXTRCTD: | 04/20/1212:45 | 04/20/1212:45 | DATE COLLECTED: | 04/10/12 |
| DATIME ANALYZD: | 04/20/1216:29 | 04/20/1216:27 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | HGD021S | HGD021S | | |
| CALIB. REF: | M47D014044 | M47D014044 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | .0631J | .964 | 1.05 | 102 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 13.6

| | | | | |
|---|---|---|---|---|
| DILUTION FACTOR: | 1.00 | 5.02 | | |
| SAMPLE ID: | SL-009-NBZ-SS-0.0-0 | SL-009-NBZ-SS-0.0-0 | | |
| EMAX SAMP ID: | D092-01 | D092-01J | | |
| LAB FILE ID: | M47D014047 | M47D014048 | | |
| DATE EXTRACTED: | 04/20/1212:45 | 04/20/1212:45 | DATE COLLECTED: | 04/10/12 |
| DATE ANALYZED: | 04/20/1216:29 | 04/20/1216:31 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | HGD021S | HGD021S | | |
| CALIB. REF: | M47D014044 | M47D014044 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | 0.0631J | ND | NA | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D092
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD007SB | ND | 1 | NA | 1.00 | 0.500 | 04/13/1212:54 | 04/12/1212:25 | AD19-13 | AD19-11 | ICD007S | NA | 04/12/12 |
| LCS1S | ICD007SL | 6.08 | 1 | NA | 1.00 | 0.500 | 04/13/1213:10 | 04/12/1212:25 | AD19-14 | AD19-11 | ICD007S | NA | 04/12/12 |
| LCD1S | ICD007SC | 6.09 | 1 | NA | 1.00 | 0.500 | 04/13/1213:26 | 04/12/1212:25 | AD19-15 | AD19-11 | ICD007S | NA | 04/12/12 |
| SL-084-NBZ-SS-0.0-0.5 | D092-02 | ND | 1 | 14.4 | 1.17 | 0.584 | 04/13/1218:01 | 04/12/1212:25 | AD19-32 | AD19-23 | ICD007S | 04/10/1211:10 | 04/10/12 |
| SL-085-NBZ-SS-0.0-0.5 | D092-03 | 0.965J | 1 | 15.4 | 1.18 | 0.591 | 04/13/1218:17 | 04/12/1212:25 | AD19-33 | AD19-23 | ICD007S | 04/10/1214:02 | 04/10/12 |
| SL-186-NBZ-SS-0.0-0.5 | D092-04 | ND | 1 | 7.5 | 1.08 | 0.541 | 04/13/1218:33 | 04/12/1212:25 | AD19-34 | AD19-23 | ICD007S | 04/10/1210:40 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5RE | D092-01R | 0.788J | 1 | 13.6 | 1.16 | 0.579 | 04/13/1219:21 | 04/12/1212:25 | AD19-37 | AD19-35 | ICD007S | 04/10/1209:30 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5MS | D092-01M | 8.13 | 1 | 13.6 | 1.16 | 0.579 | 04/13/1219:38 | 04/12/1212:25 | AD19-38 | AD19-35 | ICD007S | 04/10/1209:30 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5MSD | D092-01S | 8.16 | 1 | 13.6 | 1.16 | 0.579 | 04/13/1219:54 | 04/12/1212:25 | AD19-39 | AD19-35 | ICD007S | 04/10/1209:30 | 04/10/12 |
| SL-177-NBZ-SS-0.0-0.5 | D092-05 | ND | 1 | 5.5 | 1.06 | 0.529 | 04/13/1220:10 | 04/12/1212:25 | AD19-40 | AD19-35 | ICD007S | 04/10/1215:10 | 04/10/12 |
| SL-188-NBZ-SS-0.0-0.5 | D092-06 | ND | 1 | 7.1 | 1.08 | 0.538 | 04/13/1220:26 | 04/12/1212:25 | AD19-41 | AD19-35 | ICD007S | 04/10/1214:49 | 04/10/12 |
| DUP-07-NBZ-QC-041012 | D092-07 | 0.742J | 1 | 12.9 | 1.15 | 0.574 | 04/13/1220:42 | 04/12/1212:25 | AD19-42 | AD19-35 | ICD007S | 04/10/1209:25 | 04/10/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD007SB | ICD007SL | ICD007SC | | |
| LAB FILE ID: | AD19-13 | AD19-14 | AD19-15 | | |
| DATE EXTRACTED: | 04/12/1212:25 | 04/12/1212:25 | 04/12/1212:25 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/13/1212:54 | 04/13/1213:10 | 04/13/1213:26 | DATE RECEIVED: | 04/12/12 |
| PREP. BATCH: | ICD007S | ICD007S | ICD007S | | |
| CALIB. REF: | AD19-11 | AD19-11 | AD19-11 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 6.08 | 101 | 6.00 | 6.09 | 101 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: 300.0

MATRIX: SOIL % MOISTURE: 13.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-009-NBZ-SS-0.0-0.5RE | | | | |
| LAB SAMP ID: | D092-01R | D092-01M | D092-01S | | |
| LAB FILE ID: | AD19-37 | AD19-38 | AD19-39 | | |
| DATE EXTRACTED: | 04/12/1212:25 | 04/12/1212:25 | 04/12/1212:25 | DATE COLLECTED: | 04/10/12 09:30 |
| DATE ANALYZED: | 04/13/1219:21 | 04/13/1219:38 | 04/13/1219:54 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | ICD007S | ICD007S | ICD007S | | |
| CALIB. REF: | AD19-35 | AD19-35 | AD19-35 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | 0.788 | 6.94 | 8.13 | 106 | 6.94 | 8.16 | 106 | 0 | 80-120 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D092
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD007SB | ND | 1 | NA | 1.50 | 0.750 | 04/13/1212:54 | 04/12/1212:25 | AD19-13 | AD19-11 | ICD007S | NA | 04/12/12 |
| LCS1S | ICD007SL | 26.5 | 1 | NA | 1.50 | 0.750 | 04/13/1213:10 | 04/12/1212:25 | AD19-14 | AD19-11 | ICD007S | NA | 04/12/12 |
| LCD1S | ICD007SC | 26.6 | 1 | NA | 1.50 | 0.750 | 04/13/1213:26 | 04/12/1212:25 | AD19-15 | AD19-11 | ICD007S | NA | 04/12/12 |
| SL-084-NBZ-SS-0.0-0.5 | D092-02 | 4.93 | 1 | 14.4 | 1.75 | 0.876 | 04/13/1218:01 | 04/12/1212:25 | AD19-32 | AD19-23 | ICD007S | 04/10/1211:10 | 04/10/12 |
| SL-085-NBZ-SS-0.0-0.5 | D092-03 | 6.52 | 1 | 15.4 | 1.77 | 0.887 | 04/13/1218:17 | 04/12/1212:25 | AD19-33 | AD19-23 | ICD007S | 04/10/1214:02 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5RE | D092-01R | 6.36 | 1 | 13.6 | 1.74 | 0.868 | 04/13/1219:21 | 04/12/1212:25 | AD19-37 | AD19-35 | ICD007S | 04/10/1209:30 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5MS | D092-01M | 37.6 | 1 | 13.6 | 1.74 | 0.868 | 04/13/1219:38 | 04/12/1212:25 | AD19-38 | AD19-35 | ICD007S | 04/10/1209:30 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5MSD | D092-01S | 37.7 | 1 | 13.6 | 1.74 | 0.868 | 04/13/1219:54 | 04/12/1212:25 | AD19-39 | AD19-35 | ICD007S | 04/10/1209:30 | 04/10/12 |
| DUP-07-NBZ-QC-041012 | D092-07 | 6.39 | 1 | 12.9 | 1.72 | 0.861 | 04/13/1220:42 | 04/12/1212:25 | AD19-42 | AD19-35 | ICD007S | 04/10/1209:25 | 04/10/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD007SB | ICD007SL | ICD007SC | | |
| LAB FILE ID: | AD19-13 | AD19-14 | AD19-15 | | |
| DATE EXTRACTED: | 04/12/1212:25 | 04/12/1212:25 | 04/12/1212:25 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/13/1212:54 | 04/13/1213:10 | 04/13/1213:26 | DATE RECEIVED: | 04/12/12 |
| PREP. BATCH: | ICD007S | ICD007S | ICD007S | | |
| CALIB. REF: | AD19-11 | AD19-11 | AD19-11 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 26.5 | 100 | 26.6 | 26.6 | 100 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: 300.0

MATRIX: SOIL % MOISTURE: 13.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-009-NBZ-SS-0.0-0.5RE | | | | |
| LAB SAMP ID: | D092-01R | D092-01M | D092-01S | | |
| LAB FILE ID: | AD19-37 | AD19-38 | AD19-39 | | |
| DATE EXTRACTED: | 04/12/1212:25 | 04/12/1212:25 | 04/12/1212:25 | DATE COLLECTED: | 04/10/12 09:30 |
| DATE ANALYZED: | 04/13/1219:21 | 04/13/1219:38 | 04/13/1219:54 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | ICD007S | ICD007S | ICD007S | | |
| CALIB. REF: | AD19-35 | AD19-35 | AD19-35 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | 6.36 | 30.8 | 37.6 | 101 | 30.8 | 37.7 | 102 | 0 | 80-120 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D092
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD014SB | ND | 1 | NA | 20.0 | 10.0 | 04/17/1213:32 | 04/12/1210:15 | JD17011 | JD17010 | PCD014S | NA | 04/12/12 |
| LCS1S | PCD014SL | 259 | 1 | NA | 20.0 | 10.0 | 04/17/1214:25 | 04/12/1210:15 | JD17013 | JD17010 | PCD014S | NA | 04/12/12 |
| LCD1S | PCD014SC | 257 | 1 | NA | 20.0 | 10.0 | 04/17/1214:47 | 04/12/1210:15 | JD17014 | JD17010 | PCD014S | NA | 04/12/12 |
| SL-009-NBZ-SS-0.0-0.5 | D092-01 | ND | 1 | 13.6 | 23.1 | 11.6 | 04/17/1215:08 | 04/12/1210:15 | JD17015 | JD17010 | PCD014S | 04/10/1209:30 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5MS | D092-01M | 287 | 1 | 13.6 | 23.1 | 11.6 | 04/17/1215:30 | 04/12/1210:15 | JD17016 | JD17010 | PCD014S | 04/10/1209:30 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5MSD | D092-01S | 284 | 1 | 13.6 | 23.1 | 11.6 | 04/17/1215:51 | 04/12/1210:15 | JD17017 | JD17010 | PCD014S | 04/10/1209:30 | 04/10/12 |
| SL-084-NBZ-SS-0.0-0.5 | D092-02 | ND | 1 | 14.4 | 23.4 | 11.7 | 04/17/1216:12 | 04/12/1210:15 | JD17018 | JD17010 | PCD014S | 04/10/1211:10 | 04/10/12 |
| SL-085-NBZ-SS-0.0-0.5 | D092-03 | ND | 1 | 15.4 | 23.6 | 11.8 | 04/17/1216:33 | 04/12/1210:15 | JD17019 | JD17010 | PCD014S | 04/10/1214:02 | 04/10/12 |
| SL-186-NBZ-SS-0.0-0.5 | D092-04 | ND | 1 | 7.5 | 21.6 | 10.8 | 04/17/1218:02 | 04/12/1210:15 | JD17022 | JD17021 | PCD014S | 04/10/1210:40 | 04/10/12 |
| SL-177-NBZ-SS-0.0-0.5 | D092-05 | ND | 1 | 5.5 | 21.2 | 10.6 | 04/17/1218:23 | 04/12/1210:15 | JD17023 | JD17021 | PCD014S | 04/10/1215:10 | 04/10/12 |
| SL-188-NBZ-SS-0.0-0.5 | D092-06 | ND | 1 | 7.1 | 21.5 | 10.8 | 04/17/1218:44 | 04/12/1210:15 | JD17024 | JD17021 | PCD014S | 04/10/1214:49 | 04/10/12 |
| DUP-07-NBZ-QC-041012 | D092-07 | ND | 1 | 12.9 | 23.0 | 11.5 | 04/17/1219:05 | 04/12/1210:15 | JD17025 | JD17021 | PCD014S | 04/10/1209:25 | 04/10/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD014SB | PCD014SL | PCD014SC | | |
| LAB FILE ID: | JD17011 | JD17013 | JD17014 | | |
| DATE EXTRACTED: | 04/12/1210:15 | 04/12/1210:15 | 04/12/1210:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/17/1213:32 | 04/17/1214:25 | 04/17/1214:47 | DATE RECEIVED: | 04/12/12 |
| PREP. BATCH: | PCD014S | PCD014S | PCD014S | | |
| CALIB. REF: | JD17010 | JD17010 | JD17010 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 259 | 104 | 250 | 257 | 103 | 1 | 85-115 | 15 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 13.6 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-009-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D092-01 | D092-01M | D092-01S | | |
| LAB FILE ID: | JD17015 | JD17016 | JD17017 | | |
| DATE EXTRACTED: | 04/12/1210:15 | 04/12/1210:15 | 04/12/1210:15 | DATE COLLECTED: | 04/10/12 09:30 |
| DATE ANALYZED: | 04/17/1215:08 | 04/17/1215:30 | 04/17/1215:51 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | PCD014S | PCD014S | PCD014S | | |
| CALIB. REF: | JD17010 | JD17010 | JD17010 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 289 | 287 | 99 | 289 | 284 | 98 | 1 | 80-120 | 20 |

METHOD 6850
PERCHLORATE BY LC/MS

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D092
Matrix : SOIL
Instrument ID : G0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PLD003SB | ND | 1 | NA | 5.00 | 2.50 | 04/18/1216:50 | 04/17/1215:53 | ND18004 | ND18003 | PLD003S | NA | 04/17/12 |
| LCS1S | PLD003SL | 25.5 | 1 | NA | 5.00 | 2.50 | 04/18/1217:04 | 04/17/1215:53 | ND18005 | ND18003 | PLD003S | NA | 04/17/12 |
| LCD1S | PLD003SC | 25.4 | 1 | NA | 5.00 | 2.50 | 04/18/1217:20 | 04/17/1215:53 | ND18006 | ND18003 | PLD003S | NA | 04/17/12 |
| DUP-07-NBZ-QC-041012 | D092-07 | ND | 1 | 12.9 | 5.74 | 2.87 | 04/18/1217:34 | 04/17/1215:53 | ND18007 | ND18003 | PLD003S | 04/10/1209:25 | 04/10/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: METHOD 6850

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PLD003SB | PLD003SL | PLD003SC | | |
| LAB FILE ID: | ND18004 | ND18005 | ND18006 | | |
| DATE EXTRACTED: | 04/17/1215:53 | 04/17/1215:53 | 04/17/1215:53 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/18/1216:50 | 04/18/1217:04 | 04/18/1217:20 | DATE RECEIVED: | 04/17/12 |
| PREP. BATCH: | PLD003S | PLD003S | PLD003S | | |
| CALIB. REF: | ND18003 | ND18003 | ND18003 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 25.0 | 25.5 | 102 | 25.0 | 25.4 | 102 | 0 | 85-115 | 15 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D092

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD008SB | ND | 1 | NA | 1.00 | 0.500 | 04/18/1212:54 | 04/13/1211:40 | ID18024 | ID18020 | HCD008S | NA | 04/13/12 |
| MBLK1S | HCD008SQ | ND | 1 | NA | 1.00 | 0.500 | 04/18/1213:04 | 04/13/1211:40 | ID18025 | ID18020 | HCD008S | NA | 04/13/12 |
| LCS1S | CSD008SL | 10.6 | 1 | NA | 1.00 | 0.500 | 04/18/1216:28 | 04/13/1211:40 | ID18032 | ID18028 | HCD008S | NA | 04/13/12 |
| LCS1S | CSD008SX | 9.12 | 1 | NA | 1.00 | 0.500 | 04/18/1216:38 | 04/13/1211:40 | ID18033 | ID18028 | HCD008S | NA | 04/13/12 |
| LCS2S | CID008SL | 403 | 25 | NA | 25.0 | 12.5 | 04/18/1217:09 | 04/13/1211:40 | ID18034 | ID18028 | HCD008S | NA | 04/13/12 |
| LCS2S | CID008SX | 382 | 25 | NA | 25.0 | 12.5 | 04/18/1217:20 | 04/13/1211:40 | ID18035 | ID18028 | HCD008S | NA | 04/13/12 |
| SL-009-NBZ-SS-0.0-0.5MS | D092-01M | 11.7 | 1 | 13.6 | 1.16 | 0.579 | 04/18/1219:14 | 04/13/1211:40 | ID18046 | ID18040 | HCD008S | 04/10/1209:30 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5MS | D092-01M1 | 11.4 | 1 | 13.6 | 1.16 | 0.579 | 04/18/1219:25 | 04/13/1211:40 | ID18047 | ID18040 | HCD008S | 04/10/1209:30 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5 | D092-01 | ND | 1 | 13.6 | 1.16 | 0.579 | 04/18/1219:56 | 04/13/1211:40 | ID18050 | ID18040 | HCD008S | 04/10/1209:30 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5 | D092-01R | ND | 1 | 13.6 | 1.16 | 0.579 | 04/18/1220:06 | 04/13/1211:40 | ID18051 | ID18040 | HCD008S | 04/10/1209:30 | 04/10/12 |
| SL-084-NBZ-SS-0.0-0.5 | D092-02 | ND | 1 | 14.4 | 1.17 | 0.584 | 04/19/1200:06 | 04/13/1211:40 | ID18074 | ID18064 | HCD008S | 04/10/1211:10 | 04/10/12 |
| SL-084-NBZ-SS-0.0-0.5 | D092-02R | ND | 1 | 14.4 | 1.17 | 0.584 | 04/19/1200:16 | 04/13/1211:40 | ID18075 | ID18064 | HCD008S | 04/10/1211:10 | 04/10/12 |
| SL-085-NBZ-SS-0.0-0.5 | D092-03 | ND | 1 | 15.4 | 1.18 | 0.591 | 04/19/1200:47 | 04/13/1211:40 | ID18078 | ID18076 | HCD008S | 04/10/1214:02 | 04/10/12 |
| SL-085-NBZ-SS-0.0-0.5 | D092-03R | ND | 1 | 15.4 | 1.18 | 0.591 | 04/19/1200:58 | 04/13/1211:40 | ID18079 | ID18076 | HCD008S | 04/10/1214:02 | 04/10/12 |
| SL-186-NBZ-SS-0.0-0.5 | D092-04 | ND | 1 | 7.5 | 1.08 | 0.541 | 04/19/1201:08 | 04/13/1211:40 | ID18080 | ID18076 | HCD008S | 04/10/1210:40 | 04/10/12 |
| SL-186-NBZ-SS-0.0-0.5 | D092-04R | ND | 1 | 7.5 | 1.08 | 0.541 | 04/19/1201:18 | 04/13/1211:40 | ID18081 | ID18076 | HCD008S | 04/10/1210:40 | 04/10/12 |
| SL-177-NBZ-SS-0.0-0.5 | D092-05 | ND | 1 | 5.5 | 1.06 | 0.529 | 04/19/1201:29 | 04/13/1211:40 | ID18082 | ID18076 | HCD008S | 04/10/1215:10 | 04/10/12 |
| SL-177-NBZ-SS-0.0-0.5 | D092-05R | ND | 1 | 5.5 | 1.06 | 0.529 | 04/19/1201:39 | 04/13/1211:40 | ID18083 | ID18076 | HCD008S | 04/10/1215:10 | 04/10/12 |
| SL-188-NBZ-SS-0.0-0.5 | D092-06 | ND | 1 | 7.1 | 1.08 | 0.538 | 04/19/1201:50 | 04/13/1211:40 | ID18084 | ID18076 | HCD008S | 04/10/1214:49 | 04/10/12 |
| SL-188-NBZ-SS-0.0-0.5 | D092-06R | ND | 1 | 7.1 | 1.08 | 0.538 | 04/19/1202:00 | 04/13/1211:40 | ID18085 | ID18076 | HCD008S | 04/10/1214:49 | 04/10/12 |
| DUP-07-NBZ-QC-041012 | D092-07 | ND | 1 | 12.9 | 1.15 | 0.574 | 04/19/1202:10 | 04/13/1211:40 | ID18086 | ID18076 | HCD008S | 04/10/1209:25 | 04/10/12 |
| DUP-07-NBZ-QC-041012 | D092-07R | ND | 1 | 12.9 | 1.15 | 0.574 | 04/19/1202:21 | 04/13/1211:40 | ID18087 | ID18076 | HCD008S | 04/10/1209:25 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5MSD | D092-01S | 10.7 | 1 | 13.6 | 1.16 | 0.579 | 04/19/1210:07 | 04/13/1211:40 | ID18092 | ID18090 | HCD008S | 04/10/1209:30 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5MSD | D092-01S1 | 10.3 | 1 | 13.6 | 1.16 | 0.579 | 04/19/1210:18 | 04/13/1211:40 | ID18093 | ID18090 | HCD008S | 04/10/1209:30 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5MS | D092-01G | 120 | 10 | 13.6 | 11.6 | 5.79 | 04/19/1210:28 | 04/13/1211:40 | ID18094 | ID18090 | HCD008S | 04/10/1209:30 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5MS | D092-01G1 | 126 | 10 | 13.6 | 11.6 | 5.79 | 04/19/1210:39 | 04/13/1211:40 | ID18095 | ID18090 | HCD008S | 04/10/1209:30 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5MSD | D092-01H | 124 | 10 | 13.6 | 11.6 | 5.79 | 04/19/1210:49 | 04/13/1211:40 | ID18096 | ID18090 | HCD008S | 04/10/1209:30 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5MSD | D092-01H1 | 115 | 10 | 13.6 | 11.6 | 5.79 | 04/19/1210:59 | 04/13/1211:40 | ID18097 | ID18090 | HCD008S | 04/10/1209:30 | 04/10/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD008SB CSD008SL
LAB FILE ID: ID18024 ID18032
DATE EXTRACTED: 04/13/1211:40 04/13/1211:40 DATE COLLECTED: NA
DATE ANALYZED: 04/18/1212:54 04/18/1216:28 DATE RECEIVED: 04/13/12
PREP. BATCH: HCD008S HCD008S
CALIB. REF: ID18020 ID18028

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 10.6 | 106 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD008SQ | CSD008SX | | |
| LAB FILE ID: | ID18025 | ID18033 | | |
| DATE EXTRACTED: | 04/13/1211:40 | 04/13/1211:40 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/18/1213:04 | 04/18/1216:38 | DATE RECEIVED: | 04/13/12 |
| PREP. BATCH: | HCD008S | HCD008S | | |
| CALIB. REF: | ID18020 | ID18028 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 9.12 | 91 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 25
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD008SB CID008SL
LAB FILE ID: ID18024 ID18034
DATE EXTRACTED: 04/13/1211:40 04/13/1211:40 DATE COLLECTED: NA
DATE ANALYZED: 04/18/1212:54 04/18/1217:09 DATE RECEIVED: 04/13/12
PREP. BATCH: HCD008S HCD008S
CALIB. REF: ID18020 ID18028

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 426 | 403 | 95 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 25 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD008SQ | CID008SX | | |
| LAB FILE ID: | ID18025 | ID18035 | | |
| DATE EXTRACTED: | 04/13/1211:40 | 04/13/1211:40 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/18/1213:04 | 04/18/1217:20 | DATE RECEIVED: | 04/13/12 |
| PREP. BATCH: | HCD008S | HCD008S | | |
| CALIB. REF: | ID18020 | ID18028 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 426 | 382 | 90 | 80-120 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: 7199

MATRIX: SOIL % MOISTURE: 13.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 10 | 10 | | |
| SAMPLE ID: | SL-009-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D092-01 | D092-01G | D092-01H | | |
| LAB FILE ID: | ID18050 | ID18094 | ID18096 | | |
| DATE EXTRACTED: | 04/13/1211:40 | 04/13/1211:40 | 04/13/1211:40 | DATE COLLECTED: | 04/10/12 09:30 |
| DATE ANALYZED: | 04/18/1219:56 | 04/19/1210:28 | 04/19/1210:49 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | HCD008S | HCD008S | HCD008S | | |
| CALIB. REF: | ID18040 | ID18090 | ID18090 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 136 | 120 | 88 | 133 | 124 | 93 | 3 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: 7199

MATRIX: SOIL % MOISTURE: 13.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 10 | 10 | | |
| SAMPLE ID: | SL-009-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D092-01R | D092-01G1 | D092-01H1 | | |
| LAB FILE ID: | ID18051 | ID18095 | ID18097 | | |
| DATE EXTRACTED: | 04/13/1211:40 | 04/13/1211:40 | 04/13/1211:40 | DATE COLLECTED: | 04/10/12 09:30 |
| DATE ANALYZED: | 04/18/1220:06 | 04/19/1210:39 | 04/19/1210:59 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | HCD008S | HCD008S | HCD008S | | |
| CALIB. REF: | ID18040 | ID18090 | ID18090 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 136 | 126 | 93 | 133 | 115 | 86 | 9 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: 7199

MATRIX: SOIL % MOISTURE: 13.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-009-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D092-01 | D092-01M | D092-01S | | |
| LAB FILE ID: | ID18050 | ID18046 | ID18092 | | |
| DATE EXTRACTED: | 04/13/1211:40 | 04/13/1211:40 | 04/13/1211:40 | DATE COLLECTED: | 04/10/12 09:30 |
| DATE ANALYZED: | 04/18/1219:56 | 04/18/1219:14 | 04/19/1210:07 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | HCD008S | HCD008S | HCD008S | | |
| CALIB. REF: | ID18040 | ID18040 | ID18090 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 11.6 | 11.7 | 101 | 11.6 | 10.7 | 92 | 9 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D092
METHOD: 7199

MATRIX: SOIL % MOISTURE: 13.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-009-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D092-01R | D092-01M1 | D092-01S | | |
| LAB FILE ID: | ID18051 | ID18047 | ID18092 | | |
| DATE EXTRACTED: | 04/13/1211:40 | 04/13/1211:40 | 04/13/1211:40 | DATE COLLECTED: | 04/10/12 09:30 |
| DATE ANALYZED: | 04/18/1220:06 | 04/18/1219:25 | 04/19/1210:07 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | HCD008S | HCD008S | HCD008S | | |
| CALIB. REF: | ID18040 | ID18040 | ID18090 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 11.6 | 11.4 | 98 | 11.6 | 10.7 | 92 | 6 | 75-125 | 20 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D092
Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CND006SB | ND | 1 | NA | 0.500 | 0.250 | 04/18/1218:12 | 04/18/1211:00 | CND00610 | CND00608 | CND006S | NA | 04/18/12 |
| LCS1S | CND006SL | 2.47 | 1 | NA | 0.500 | 0.250 | 04/18/1218:12 | 04/18/1211:00 | CND00611 | CND00608 | CND006S | NA | 04/18/12 |
| LCD1S | CND006SC | 2.44 | 1 | NA | 0.500 | 0.250 | 04/18/1218:12 | 04/18/1211:00 | CND00612 | CND00608 | CND006S | NA | 04/18/12 |
| SL-009-NBZ-SS-0.0-0.5 | D092-01 | 0.356J | 1 | 13.6 | 0.579 | 0.289 | 04/18/1218:13 | 04/18/1211:00 | CND00616 | CND00608 | CND006S | 04/10/1209:30 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5MS | D092-01M | 2.57 | 1 | 13.6 | 0.579 | 0.289 | 04/18/1218:14 | 04/18/1211:00 | CND00617 | CND00608 | CND006S | 04/10/1209:30 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5MSD | D092-01S | 2.74 | 1 | 13.6 | 0.579 | 0.289 | 04/18/1218:14 | 04/18/1211:00 | CND00618 | CND00608 | CND006S | 04/10/1209:30 | 04/10/12 |
| SL-084-NBZ-SS-0.0-0.5 | D092-02 | 0.499J | 1 | 14.4 | 0.584 | 0.292 | 04/18/1218:14 | 04/18/1211:00 | CND00619 | CND00608 | CND006S | 04/10/1211:10 | 04/10/12 |
| SL-085-NBZ-SS-0.0-0.5 | D092-03 | ND | 1 | 15.4 | 0.591 | 0.296 | 04/18/1218:15 | 04/18/1211:00 | CND00622 | CND00620 | CND006S | 04/10/1214:02 | 04/10/12 |
| DUP-07-NBZ-QC-041012 | D092-07 | 0.294J | 1 | 12.9 | 0.574 | 0.287 | 04/18/1218:15 | 04/18/1211:00 | CND00623 | CND00620 | CND006S | 04/10/1209:25 | 04/10/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D092
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CND006SL/C

DATE RECEIVED: 04/18/12
DATE EXTRACTED: 04/18/1211:00
DATE ANALYZED: 04/18/1218:12/18:12

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.47 | 99 | 2.50 | 2.44 | 98 | 1 | 85-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: 13.6

BATCH NO.: 12D092
SAMPLE ID: SL-009-NBZ-SS-0.0-0.5MS/MSD
CONTROL NO.: D092-01M/S

DATE RECEIVED: 04/10/12
DATE EXTRACTED: 04/18/1211:00
DATE ANALYZED: 04/18/1218:14/18:14

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.356J | 2.85 | 2.57 | 90 | 2.85 | 2.74 | 96 | 6 | 75-125 | 20 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D092
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-009-NBZ-SS-0.0-0.5 | D092-01 | 7.14 | 1 | NA | NA | NA | 04/11/1216:54 | 04/11/1216:54 | 12PHD009S01 | PHD009S | PHD009S | 04/10/1209:30 | 04/10/12 |
| SL-009-NBZ-SS-0.0-0.5DUP | D092-01D | 7.17 | 1 | NA | NA | NA | 04/11/1216:55 | 04/11/1216:54 | 12PHD009S02 | PHD009S | PHD009S | 04/10/1209:30 | 04/10/12 |
| SL-084-NBZ-SS-0.0-0.5 | D092-02 | 6.56 | 1 | NA | NA | NA | 04/11/1216:57 | 04/11/1216:54 | 12PHD009S03 | PHD009S | PHD009S | 04/10/1211:10 | 04/10/12 |
| SL-085-NBZ-SS-0.0-0.5 | D092-03 | 7.40 | 1 | NA | NA | NA | 04/11/1216:58 | 04/11/1216:54 | 12PHD009S04 | PHD009S | PHD009S | 04/10/1214:02 | 04/10/12 |
| SL-186-NBZ-SS-0.0-0.5 | D092-04 | 6.95 | 1 | NA | NA | NA | 04/11/1217:00 | 04/11/1216:54 | 12PHD009S05 | PHD009S | PHD009S | 04/10/1210:40 | 04/10/12 |
| SL-177-NBZ-SS-0.0-0.5 | D092-05 | 6.34 | 1 | NA | NA | NA | 04/11/1217:01 | 04/11/1216:54 | 12PHD009S06 | PHD009S | PHD009S | 04/10/1215:10 | 04/10/12 |
| SL-188-NBZ-SS-0.0-0.5 | D092-06 | 6.92 | 1 | NA | NA | NA | 04/11/1217:02 | 04/11/1216:54 | 12PHD009S07 | PHD009S | PHD009S | 04/10/1214:49 | 04/10/12 |
| DUP-07-NBZ-QC-041012 | D092-07 | 7.03 | 1 | NA | NA | NA | 04/11/1217:04 | 04/11/1216:54 | 12PHD009S08 | PHD009S | PHD009S | 04/10/1209:25 | 04/10/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D092 DATE RECEIVED: 04/10/12
SAMPLE ID: SL-009-NBZ-SS-0.0-0.5DUP DATE EXTRACTED: 04/11/1216:54
CONTROL NO.: D092-01D DATE ANALYZED: 04/11/1216:55

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 7.14 | 7.17 | -0.03 | 0.10 |

# SAMPLE DELIVERY GROUP

# 12D106

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-004-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 17:20 |
| Lab Samp ID: D106-01 | Dilution Factor: 1 |
| Lab File ID: RDJ323 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 18.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 410 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 410 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 410 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 410 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 410 | 200 |
| BENZIDINE | ND | 1000 | 510 |
| BENZOIC ACID | ND | 820 | 410 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 978 | 1225 | 79.8 | 35-130 |
| 2-FLUOROBIPHENYL | 281 | 408.5 | 68.7 | 45-130 |
| 2-FLUOROPHENOL | 772 | 1225 | 63.0 | 25-130 |
| NITROBENZENE-D5 | 282 | 408.5 | 69.1 | 40-130 |
| PHENOL-D5 | 806 | 1225 | 65.8 | 25-120 |
| TERPHENYL-D14 | 334 | 408.5 | 81.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-145-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 17:40 |
| Lab Samp ID: D106-02 | Dilution Factor: 1 |
| Lab File ID: RDJ324 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 21.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 210 | 110 |
| 1,2-DICHLOROBENZENE | ND | 210 | 110 |
| 1,3-DICHLOROBENZENE | ND | 210 | 110 |
| 1,4-DICHLOROBENZENE | ND | 210 | 110 |
| 2,4,5-TRICHLOROPHENOL | ND | 210 | 110 |
| 2,4,6-TRICHLOROPHENOL | ND | 210 | 110 |
| 2,4-DICHLOROPHENOL | ND | 210 | 110 |
| 2,4-DIMETHYLPHENOL | ND | 210 | 110 |
| 2,4-DINITROPHENOL | ND | 420 | 210 |
| 2,4-DINITROTOLUENE | ND | 210 | 110 |
| 2,6-DINITROTOLUENE | ND | 210 | 110 |
| 2-CHLORONAPHTHALENE | ND | 210 | 110 |
| 2-CHLOROPHENOL | ND | 210 | 110 |
| 2-METHYLNAPHTHALENE | ND | 210 | 110 |
| 2-METHYLPHENOL | ND | 210 | 110 |
| 2-NITROANILINE | ND | 210 | 110 |
| 2-NITROPHENOL | ND | 210 | 110 |
| 3,3'-DICHLOROBENZIDINE | ND | 210 | 110 |
| 3-NITROANILINE | ND | 210 | 110 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 420 | 210 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 210 | 110 |
| 4-CHLORO-3-METHYLPHENOL | ND | 210 | 110 |
| 4-CHLOROANILINE | ND | 210 | 110 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 210 | 110 |
| 4-METHYLPHENOL (1) | ND | 210 | 110 |
| 4-NITROANILINE | ND | 210 | 110 |
| 4-NITROPHENOL | ND | 420 | 210 |
| ACENAPHTHENE | ND | 210 | 110 |
| ACENAPHTHYLENE | ND | 210 | 110 |
| ANTHRACENE | ND | 210 | 110 |
| BENZO(A)ANTHRACENE | ND | 210 | 110 |
| BENZO(A)PYRENE | ND | 210 | 110 |
| BENZO(B)FLUORANTHENE | ND | 210 | 110 |
| BENZO(K)FLUORANTHENE | ND | 210 | 110 |
| BENZO(G,H,I)PERYLENE | ND | 210 | 110 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 210 | 110 |
| BIS(2-CHLOROETHYL)ETHER | ND | 210 | 110 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 210 | 110 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 210 | 110 |
| BUTYLBENZYLPHTHALATE | ND | 210 | 110 |
| CHRYSENE | ND | 210 | 110 |
| DI-N-BUTYLPHTHALATE | ND | 210 | 110 |
| DI-N-OCTYLPHTHALATE | ND | 210 | 110 |
| DIBENZO(A,H)ANTHRACENE | ND | 210 | 110 |
| DIBENZOFURAN | ND | 210 | 110 |
| DIETHYLPHTHALATE | ND | 210 | 110 |
| DIMETHYLPHTHALATE | ND | 210 | 110 |
| FLUORANTHENE | ND | 210 | 110 |
| FLUORENE | ND | 210 | 110 |
| HEXACHLOROBENZENE | ND | 210 | 110 |
| HEXACHLOROBUTADIENE | ND | 210 | 110 |
| HEXACHLOROCYCLOPENTADIENE | ND | 210 | 110 |
| HEXACHLOROETHANE | ND | 210 | 110 |
| INDENO(1,2,3-CD)PYRENE | ND | 210 | 110 |
| ISOPHORONE | ND | 210 | 110 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 210 | 110 |
| N-NITROSODIPHENYLAMINE (2) | ND | 210 | 110 |
| NAPHTHALENE | ND | 210 | 110 |
| NITROBENZENE | ND | 210 | 110 |
| PENTACHLOROPHENOL | ND | 420 | 210 |
| PHENANTHRENE | ND | 210 | 110 |
| PHENOL | ND | 210 | 110 |
| PYRENE | ND | 210 | 110 |
| BENZYL ALCOHOL | ND | 210 | 110 |
| 1-METHYLNAPHTHALENE | ND | 210 | 110 |
| 1,2-DIPHENYLHYDRAZINE | ND | 210 | 110 |
| 3,5-DIMETHYLPHENOL | ND | 210 | 110 |
| ANILINE | ND | 420 | 210 |
| BENZIDINE | ND | 1100 | 530 |
| BENZOIC ACID | ND | 850 | 420 |
| CARBAZOLE | ND | 210 | 110 |
| N-NITROSODIMETHYLAMINE | ND | 210 | 110 |
| TETRALIN | ND | 210 | 210 |
| 2-BUTOXYETHANOL | ND | 210 | 210 |
| 2-PHENOXYETHANOL | ND | 210 | 210 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1010 | 1269 | 79.3 | 35-130 |
| 2-FLUOROBIPHENYL | 262 | 423.0 | 61.8 | 45-130 |
| 2-FLUOROPHENOL | 795 | 1269 | 62.6 | 25-130 |
| NITROBENZENE-D5 | 292 | 423.0 | 69.0 | 40-130 |
| PHENOL-D5 | 835 | 1269 | 65.8 | 25-120 |
| TERPHENYL-D14 | 311 | 423.0 | 73.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-148-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 18:01 |
| Lab Samp ID: D106-03 | Dilution Factor: 1 |
| Lab File ID: RDJ325 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 18.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 410 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 410 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 410 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 410 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 410 | 200 |
| BENZIDINE | ND | 1000 | 510 |
| BENZOIC ACID | ND | 820 | 410 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 938 | 1222 | 76.7 | 35-130 |
| 2-FLUOROBIPHENYL | 260 | 407.5 | 63.9 | 45-130 |
| 2-FLUOROPHENOL | 708 | 1222 | 57.9 | 25-130 |
| NITROBENZENE-D5 | 256 | 407.5 | 62.9 | 40-130 |
| PHENOL-D5 | 762 | 1222 | 62.4 | 25-120 |
| TERPHENYL-D14 | 325 | 407.5 | 79.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-154-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 18:22 |
| Lab Samp ID: D106-04 | Dilution Factor: 1 |
| Lab File ID: RDJ326 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 25.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 220 | 110 |
| 1,2-DICHLOROBENZENE | ND | 220 | 110 |
| 1,3-DICHLOROBENZENE | ND | 220 | 110 |
| 1,4-DICHLOROBENZENE | ND | 220 | 110 |
| 2,4,5-TRICHLOROPHENOL | ND | 220 | 110 |
| 2,4,6-TRICHLOROPHENOL | ND | 220 | 110 |
| 2,4-DICHLOROPHENOL | ND | 220 | 110 |
| 2,4-DIMETHYLPHENOL | ND | 220 | 110 |
| 2,4-DINITROPHENOL | ND | 450 | 220 |
| 2,4-DINITROTOLUENE | ND | 220 | 110 |
| 2,6-DINITROTOLUENE | ND | 220 | 110 |
| 2-CHLORONAPHTHALENE | ND | 220 | 110 |
| 2-CHLOROPHENOL | ND | 220 | 110 |
| 2-METHYLNAPHTHALENE | ND | 220 | 110 |
| 2-METHYLPHENOL | ND | 220 | 110 |
| 2-NITROANILINE | ND | 220 | 110 |
| 2-NITROPHENOL | ND | 220 | 110 |
| 3,3'-DICHLOROBENZIDINE | ND | 220 | 110 |
| 3-NITROANILINE | ND | 220 | 110 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 450 | 220 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 220 | 110 |
| 4-CHLORO-3-METHYLPHENOL | ND | 220 | 110 |
| 4-CHLOROANILINE | ND | 220 | 110 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 220 | 110 |
| 4-METHYLPHENOL (1) | ND | 220 | 110 |
| 4-NITROANILINE | ND | 220 | 110 |
| 4-NITROPHENOL | ND | 450 | 220 |
| ACENAPHTHENE | ND | 220 | 110 |
| ACENAPHTHYLENE | ND | 220 | 110 |
| ANTHRACENE | ND | 220 | 110 |
| BENZO(A)ANTHRACENE | ND | 220 | 110 |
| BENZO(A)PYRENE | ND | 220 | 110 |
| BENZO(B)FLUORANTHENE | ND | 220 | 110 |
| BENZO(K)FLUORANTHENE | ND | 220 | 110 |
| BENZO(G,H,I)PERYLENE | ND | 220 | 110 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 220 | 110 |
| BIS(2-CHLOROETHYL)ETHER | ND | 220 | 110 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 220 | 110 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 220 | 110 |
| BUTYLBENZYLPHTHALATE | ND | 220 | 110 |
| CHRYSENE | ND | 220 | 110 |
| DI-N-BUTYLPHTHALATE | ND | 220 | 110 |
| DI-N-OCTYLPHTHALATE | ND | 220 | 110 |
| DIBENZO(A,H)ANTHRACENE | ND | 220 | 110 |
| DIBENZOFURAN | ND | 220 | 110 |
| DIETHYLPHTHALATE | ND | 220 | 110 |
| DIMETHYLPHTHALATE | ND | 220 | 110 |
| FLUORANTHENE | ND | 220 | 110 |
| FLUORENE | ND | 220 | 110 |
| HEXACHLOROBENZENE | ND | 220 | 110 |
| HEXACHLOROBUTADIENE | ND | 220 | 110 |
| HEXACHLOROCYCLOPENTADIENE | ND | 220 | 110 |
| HEXACHLOROETHANE | ND | 220 | 110 |
| INDENO(1,2,3-CD)PYRENE | ND | 220 | 110 |
| ISOPHORONE | ND | 220 | 110 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 220 | 110 |
| N-NITROSODIPHENYLAMINE (2) | ND | 220 | 110 |
| NAPHTHALENE | ND | 220 | 110 |
| NITROBENZENE | ND | 220 | 110 |
| PENTACHLOROPHENOL | ND | 450 | 220 |
| PHENANTHRENE | ND | 220 | 110 |
| PHENOL | ND | 220 | 110 |
| PYRENE | ND | 220 | 110 |
| BENZYL ALCOHOL | ND | 220 | 110 |
| 1-METHYLNAPHTHALENE | ND | 220 | 110 |
| 1,2-DIPHENYLHYDRAZINE | ND | 220 | 110 |
| 3,5-DIMETHYLPHENOL | ND | 220 | 110 |
| ANILINE | ND | 450 | 220 |
| BENZIDINE | ND | 1100 | 560 |
| BENZOIC ACID | ND | 890 | 450 |
| CARBAZOLE | ND | 220 | 110 |
| N-NITROSODIMETHYLAMINE | ND | 220 | 110 |
| TETRALIN | ND | 220 | 220 |
| 2-BUTOXYETHANOL | ND | 220 | 220 |
| 2-PHENOXYETHANOL | ND | 220 | 220 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1180 | 1337 | 88.1 | 35-130 |
| 2-FLUOROBIPHENYL | 339 | 445.6 | 76.0 | 45-130 |
| 2-FLUOROPHENOL | 945 | 1337 | 70.7 | 25-130 |
| NITROBENZENE-D5 | 361 | 445.6 | 81.0 | 40-130 |
| PHENOL-D5 | 977 | 1337 | 73.1 | 25-120 |
| TERPHENYL-D14 | 400 | 445.6 | 89.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-163-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 08:51 |
| Lab Samp ID: D106-05R | Dilution Factor: 1 |
| Lab File ID: REL051 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 15.4 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 99 |
| 1,2-DICHLOROBENZENE | ND | 200 | 99 |
| 1,3-DICHLOROBENZENE | ND | 200 | 99 |
| 1,4-DICHLOROBENZENE | ND | 200 | 99 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 99 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 99 |
| 2,4-DICHLOROPHENOL | ND | 200 | 99 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 99 |
| 2,4-DINITROPHENOL | ND | 390 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 99 |
| 2,6-DINITROTOLUENE | ND | 200 | 99 |
| 2-CHLORONAPHTHALENE | ND | 200 | 99 |
| 2-CHLOROPHENOL | ND | 200 | 99 |
| 2-METHYLNAPHTHALENE | ND | 200 | 99 |
| 2-METHYLPHENOL | ND | 200 | 99 |
| 2-NITROANILINE | ND | 200 | 99 |
| 2-NITROPHENOL | ND | 200 | 99 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 99 |
| 3-NITROANILINE | ND | 200 | 99 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 99 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 99 |
| 4-CHLOROANILINE | ND | 200 | 99 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 99 |
| 4-METHYLPHENOL (1) | ND | 200 | 99 |
| 4-NITROANILINE | ND | 200 | 99 |
| 4-NITROPHENOL | ND | 390 | 200 |
| ACENAPHTHENE | ND | 200 | 99 |
| ACENAPHTHYLENE | ND | 200 | 99 |
| ANTHRACENE | ND | 200 | 99 |
| BENZO(A)ANTHRACENE | ND | 200 | 99 |
| BENZO(A)PYRENE | ND | 200 | 99 |
| BENZO(B)FLUORANTHENE | ND | 200 | 99 |
| BENZO(K)FLUORANTHENE | ND | 200 | 99 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 99 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 99 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 99 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 99 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 99 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 99 |
| CHRYSENE | ND | 200 | 99 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 99 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 99 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 99 |
| DIBENZOFURAN | ND | 200 | 99 |
| DIETHYLPHTHALATE | ND | 200 | 99 |
| DIMETHYLPHTHALATE | ND | 200 | 99 |
| FLUORANTHENE | ND | 200 | 99 |
| FLUORENE | ND | 200 | 99 |
| HEXACHLOROBENZENE | ND | 200 | 99 |
| HEXACHLOROBUTADIENE | ND | 200 | 99 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 99 |
| HEXACHLOROETHANE | ND | 200 | 99 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 99 |
| ISOPHORONE | ND | 200 | 99 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 99 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 99 |
| NAPHTHALENE | ND | 200 | 99 |
| NITROBENZENE | ND | 200 | 99 |
| PENTACHLOROPHENOL | ND | 390 | 200 |
| PHENANTHRENE | ND | 200 | 99 |
| PHENOL | ND | 200 | 99 |
| PYRENE | ND | 200 | 99 |
| BENZYL ALCOHOL | ND | 200 | 99 |
| 1-METHYLNAPHTHALENE | ND | 200 | 99 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 99 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 99 |
| ANILINE | ND | 390 | 200 |
| BENZIDINE | ND | 980 | 500 |
| BENZOIC ACID | ND | 790 | 390 |
| CARBAZOLE | ND | 200 | 99 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 99 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 736 | 1182 | 62.3 | 35-130 |
| 2-FLUOROBIPHENYL | 191 | 394.0 | 48.5 | 45-130 |
| 2-FLUOROPHENOL | 609 | 1182 | 51.5 | 25-130 |
| NITROBENZENE-D5 | 187 | 394.0 | 47.5 | 40-130 |
| PHENOL-D5 | 604 | 1182 | 51.1 | 25-120 |
| TERPHENYL-D14 | 358 | 394.0 | 90.8 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-168-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 19:03 |
| Lab Samp ID: D106-06 | Dilution Factor: 1 |
| Lab File ID: RDJ328 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 10.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 750 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 877 | 1120 | 78.3 | 35-130 |
| 2-FLUOROBIPHENYL | 224 | 373.2 | 59.9 | 45-130 |
| 2-FLUOROPHENOL | 620 | 1120 | 55.3 | 25-130 |
| NITROBENZENE-D5 | 228 | 373.2 | 61.0 | 40-130 |
| PHENOL-D5 | 663 | 1120 | 59.2 | 25-120 |
| TERPHENYL-D14 | 299 | 373.2 | 80.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-176-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 19:24 |
| Lab Samp ID: D106-07 | Dilution Factor: 1 |
| Lab File ID: RDJ329 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 14.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 98 |
| 1,2-DICHLOROBENZENE | ND | 200 | 98 |
| 1,3-DICHLOROBENZENE | ND | 200 | 98 |
| 1,4-DICHLOROBENZENE | ND | 200 | 98 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 98 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 98 |
| 2,4-DICHLOROPHENOL | ND | 200 | 98 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 98 |
| 2,4-DINITROPHENOL | ND | 390 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 98 |
| 2,6-DINITROTOLUENE | ND | 200 | 98 |
| 2-CHLORONAPHTHALENE | ND | 200 | 98 |
| 2-CHLOROPHENOL | ND | 200 | 98 |
| 2-METHYLNAPHTHALENE | ND | 200 | 98 |
| 2-METHYLPHENOL | ND | 200 | 98 |
| 2-NITROANILINE | ND | 200 | 98 |
| 2-NITROPHENOL | ND | 200 | 98 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 98 |
| 3-NITROANILINE | ND | 200 | 98 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 98 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 98 |
| 4-CHLOROANILINE | ND | 200 | 98 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 98 |
| 4-METHYLPHENOL (1) | ND | 200 | 98 |
| 4-NITROANILINE | ND | 200 | 98 |
| 4-NITROPHENOL | ND | 390 | 200 |
| ACENAPHTHENE | ND | 200 | 98 |
| ACENAPHTHYLENE | ND | 200 | 98 |
| ANTHRACENE | ND | 200 | 98 |
| BENZO(A)ANTHRACENE | ND | 200 | 98 |
| BENZO(A)PYRENE | ND | 200 | 98 |
| BENZO(B)FLUORANTHENE | ND | 200 | 98 |
| BENZO(K)FLUORANTHENE | ND | 200 | 98 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 98 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 98 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 98 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 98 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 98 |
| CHRYSENE | ND | 200 | 98 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 98 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 98 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 98 |
| DIBENZOFURAN | ND | 200 | 98 |
| DIETHYLPHTHALATE | ND | 200 | 98 |
| DIMETHYLPHTHALATE | ND | 200 | 98 |
| FLUORANTHENE | ND | 200 | 98 |
| FLUORENE | ND | 200 | 98 |
| HEXACHLOROBENZENE | ND | 200 | 98 |
| HEXACHLOROBUTADIENE | ND | 200 | 98 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 98 |
| HEXACHLOROETHANE | ND | 200 | 98 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 98 |
| ISOPHORONE | ND | 200 | 98 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 98 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 98 |
| NAPHTHALENE | ND | 200 | 98 |
| NITROBENZENE | ND | 200 | 98 |
| PENTACHLOROPHENOL | ND | 390 | 200 |
| PHENANTHRENE | ND | 200 | 98 |
| PHENOL | ND | 200 | 98 |
| PYRENE | ND | 200 | 98 |
| BENZYL ALCOHOL | ND | 200 | 98 |
| 1-METHYLNAPHTHALENE | ND | 200 | 98 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 98 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 98 |
| ANILINE | ND | 390 | 200 |
| BENZIDINE | ND | 970 | 490 |
| BENZOIC ACID | ND | 780 | 390 |
| CARBAZOLE | ND | 200 | 98 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 98 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 859 | 1171 | 73.4 | 35-130 |
| 2-FLUOROBIPHENYL | 233 | 390.3 | 59.7 | 45-130 |
| 2-FLUOROPHENOL | 691 | 1171 | 59.0 | 25-130 |
| NITROBENZENE-D5 | 246 | 390.3 | 62.9 | 40-130 |
| PHENOL-D5 | 718 | 1171 | 61.3 | 25-120 |
| TERPHENYL-D14 | 323 | 390.3 | 82.8 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-182-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 19:45 |
| Lab Samp ID: D106-08 | Dilution Factor: 1 |
| Lab File ID: RDJ330 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 14.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 98 |
| 1,2-DICHLOROBENZENE | ND | 190 | 98 |
| 1,3-DICHLOROBENZENE | ND | 190 | 98 |
| 1,4-DICHLOROBENZENE | ND | 190 | 98 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 98 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 98 |
| 2,4-DICHLOROPHENOL | ND | 190 | 98 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 98 |
| 2,4-DINITROPHENOL | ND | 390 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 98 |
| 2,6-DINITROTOLUENE | ND | 190 | 98 |
| 2-CHLORONAPHTHALENE | ND | 190 | 98 |
| 2-CHLOROPHENOL | ND | 190 | 98 |
| 2-METHYLNAPHTHALENE | ND | 190 | 98 |
| 2-METHYLPHENOL | ND | 190 | 98 |
| 2-NITROANILINE | ND | 190 | 98 |
| 2-NITROPHENOL | ND | 190 | 98 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 98 |
| 3-NITROANILINE | ND | 190 | 98 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 98 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 98 |
| 4-CHLOROANILINE | ND | 190 | 98 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 98 |
| 4-METHYLPHENOL (1) | ND | 190 | 98 |
| 4-NITROANILINE | ND | 190 | 98 |
| 4-NITROPHENOL | ND | 390 | 190 |
| ACENAPHTHENE | ND | 190 | 98 |
| ACENAPHTHYLENE | ND | 190 | 98 |
| ANTHRACENE | ND | 190 | 98 |
| BENZO(A)ANTHRACENE | ND | 190 | 98 |
| BENZO(A)PYRENE | ND | 190 | 98 |
| BENZO(B)FLUORANTHENE | ND | 190 | 98 |
| BENZO(K)FLUORANTHENE | ND | 190 | 98 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 98 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 98 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 98 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 98 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 98 |
| CHRYSENE | ND | 190 | 98 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 98 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 98 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 98 |
| DIBENZOFURAN | ND | 190 | 98 |
| DIETHYLPHTHALATE | ND | 190 | 98 |
| DIMETHYLPHTHALATE | ND | 190 | 98 |
| FLUORANTHENE | ND | 190 | 98 |
| FLUORENE | ND | 190 | 98 |
| HEXACHLOROBENZENE | ND | 190 | 98 |
| HEXACHLOROBUTADIENE | ND | 190 | 98 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 98 |
| HEXACHLOROETHANE | ND | 190 | 98 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 98 |
| ISOPHORONE | ND | 190 | 98 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 98 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 98 |
| NAPHTHALENE | ND | 190 | 98 |
| NITROBENZENE | ND | 190 | 98 |
| PENTACHLOROPHENOL | ND | 390 | 190 |
| PHENANTHRENE | ND | 190 | 98 |
| PHENOL | ND | 190 | 98 |
| PYRENE | ND | 190 | 98 |
| BENZYL ALCOHOL | ND | 190 | 98 |
| 1-METHYLNAPHTHALENE | ND | 190 | 98 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 98 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 98 |
| ANILINE | ND | 390 | 190 |
| BENZIDINE | ND | 970 | 490 |
| BENZOIC ACID | ND | 780 | 390 |
| CARBAZOLE | ND | 190 | 98 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 98 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1020 | 1167 | 87.3 | 35-130 |
| 2-FLUOROBIPHENYL | 269 | 388.9 | 69.1 | 45-130 |
| 2-FLUOROPHENOL | 668 | 1167 | 57.2 | 25-130 |
| NITROBENZENE-D5 | 251 | 388.9 | 64.6 | 40-130 |
| PHENOL-D5 | 762 | 1167 | 65.3 | 25-120 |
| TERPHENYL-D14 | 329 | 388.9 | 84.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 14:34 |
| Sample ID: MBLK1S | Date Analyzed: 04/19/12 10:47 |
| Lab Samp ID: SVD035SB | Dilution Factor: 1 |
| Lab File ID: RDJ304 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 847 | 1000 | 84.7 | 35-130 |
| 2-FLUOROBIPHENYL | 277 | 333.3 | 83.0 | 45-130 |
| 2-FLUOROPHENOL | 832 | 1000 | 83.2 | 25-130 |
| NITROBENZENE-D5 | 302 | 333.3 | 90.5 | 40-130 |
| PHENOL-D5 | 808 | 1000 | 80.8 | 25-120 |
| TERPHENYL-D14 | 323 | 333.3 | 96.8 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/25/12 |
| Batch No. : 12D106 | Date Extracted: 04/25/12 11:53 |
| Sample ID: MBLK2S | Date Analyzed: 05/02/12 02:15 |
| Lab Samp ID: SVD047SB | Dilution Factor: 1 |
| Lab File ID: REL036 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : NA |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 680 | 1000 | 68.0 | 35-130 |
| 2-FLUOROBIPHENYL | 266 | 333.3 | 79.8 | 45-130 |
| 2-FLUOROPHENOL | 756 | 1000 | 75.6 | 25-130 |
| NITROBENZENE-D5 | 244 | 333.3 | 73.2 | 40-130 |
| PHENOL-D5 | 717 | 1000 | 71.7 | 25-120 |
| TERPHENYL-D14 | 332 | 333.3 | 99.6 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVD035SB SVD035SL SVD035SC
LAB FILE ID: RDJ304 RDJ305 RDJ306
DATE EXTRACTED: 04/18/1214:34 04/18/1214:34 04/18/1214:34 DATE COLLECTED: NA
DATE ANALYZED: 04/19/1210:47 04/19/1211:07 04/19/1211:28 DATE RECEIVED: 04/18/12
PREP. BATCH: SVD035S SVD035S SVD035S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 517 | 78 | 667 | 426 | 64 | 19 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 458 | 69 | 667 | 390 | 59 | 16 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 455 | 68 | 667 | 389 | 58 | 16 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 459 | 69 | 667 | 382 | 57 | 18 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 559 | 84 | 667 | 448 | 67 | 22 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 594 | 89 | 667 | 496 | 74 | 18 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 540 | 81 | 667 | 454 | 68 | 17 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 570 | 86 | 667 | 479 | 72 | 17 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 517 | 78 | 667 | 408 | 61 | 24 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 707 | 106 | 667 | 545 | 82 | 26 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 627 | 94 | 667 | 507 | 76 | 21 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 490 | 74 | 667 | 417 | 63 | 16 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 511 | 77 | 667 | 437 | 66 | 16 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 611 | 92 | 667 | 512 | 77 | 18 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 477 | 71 | 667 | 412 | 62 | 15 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 679 | 102 | 667 | 540 | 81 | 23 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 568 | 85 | 667 | 470 | 70 | 19 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 624 | 94 | 667 | 451 | 68 | 32 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 545 | 82 | 667 | 428 | 64 | 24 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 635 | 95 | 667 | 476 | 71 | 29 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 564 | 85 | 667 | 460 | 69 | 20 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 592 | 89 | 667 | 497 | 75 | 17 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 485 | 73 | 667 | 398 | 60 | 20 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 640 | 96 | 667 | 528 | 79 | 19 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 495 | 74 | 667 | 422 | 63 | 16 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 625 | 94 | 667 | 456 | 68 | 31 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 719 | 108 | 667 | 535 | 80 | 29 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 570 | 85 | 667 | 470 | 71 | 19 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 600 | 90 | 667 | 502 | 75 | 18 | 30-130 | 50 |
| Anthracene | ND | 667 | 586 | 88 | 667 | 462 | 69 | 24 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 679 | 102 | 667 | 504 | 76 | 30 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 661 | 99 | 667 | 491 | 74 | 29 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 720 | 108 | 667 | 525 | 79 | 31 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 679 | 102 | 667 | 536 | 80 | 24 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 699 | 105 | 667 | 527 | 79 | 28 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 643 | 96 | 667 | 544 | 82 | 17 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 621 | 93 | 667 | 514 | 77 | 19 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 724 | 109 | 667 | 609 | 91 | 17 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 658 | 99 | 667 | 495 | 74 | 28 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 680 | 102 | 667 | 504 | 76 | 30 | 40-150 | 50 |
| Chrysene | ND | 667 | 675 | 101 | 667 | 512 | 77 | 28 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 650 | 97 | 667 | 485 | 73 | 29 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 662 | 99 | 667 | 497 | 75 | 28 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 692 | 104 | 667 | 528 | 79 | 27 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 555 | 83 | 667 | 460 | 69 | 19 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 639 | 96 | 667 | 499 | 75 | 25 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 615 | 92 | 667 | 494 | 74 | 22 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 686 | 103 | 667 | 515 | 77 | 28 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 635 | 95 | 667 | 518 | 78 | 20 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 565 | 85 | 667 | 457 | 69 | 21 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 569 | 85 | 667 | 473 | 71 | 18 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 423 | 63 | 667 | 350 | 53 | 19 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 503 | 75 | 667 | 430 | 65 | 15 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 716 | 107 | 667 | 527 | 79 | 30 | 30-140 | 50 |
| Isophorone | ND | 667 | 649 | 97 | 667 | 538 | 81 | 19 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 513 | 77 | 667 | 433 | 65 | 17 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 432 | 65 | 667 | 346 | 52 | 22 | 30-140 | 50 |
| Naphthalene | ND | 667 | 581 | 87 | 667 | 487 | 73 | 18 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 630 | 95 | 667 | 526 | 79 | 18 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 609 | 91 | 667 | 445 | 67 | 31 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 610 | 92 | 667 | 481 | 72 | 24 | 30-130 | 50 |
| Phenol | ND | 667 | 531 | 80 | 667 | 456 | 68 | 15 | 30-130 | 50 |
| Pyrene | ND | 667 | 636 | 95 | 667 | 485 | 73 | 27 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 508 | 76 | 667 | 433 | 65 | 16 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 603 | 90 | 667 | 508 | 76 | 17 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 554 | 83 | 667 | 457 | 69 | 19 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 489 | 73 | 667 | 404 | 61 | 19 | 20-150 | 50 |
| Aniline | ND | 667 | 409 | 61 | 667 | 341 | 51 | 18 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1690 | 63 | 2670 | 1300 | 49 | 26 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 1060 | 40 | 2670 | 905 | 34 | 16 | 10-130 | 50 |
| Carbazole | ND | 667 | 617 | 93 | 667 | 464 | 70 | 28 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 673 | 101 | 667 | 546 | 82 | 21 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 812 | 81 | 1000 | 696 | 70 | 35-130 |
| 2-Fluorobiphenyl | 333 | 238 | 71 | 333 | 216 | 65 | 45-130 |
| 2-Fluorophenol | 1000 | 696 | 70 | 1000 | 627 | 63 | 25-130 |
| Nitrobenzene-d5 | 333 | 263 | 79 | 333 | 235 | 71 | 40-130 |
| Phenol-d5 | 1000 | 701 | 70 | 1000 | 627 | 63 | 25-120 |
| Terphenyl-d14 | 333 | 296 | 89 | 333 | 237 | 71 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK2S
LAB SAMP ID: SVD047SB SVD047SL SVD047SY
LAB FILE ID: REL036 REL037 REL148
DATE EXTRACTED: 04/25/1211:53 04/25/1211:53 04/25/1211:53 DATE COLLECTED: NA
DATE ANALYZED: 05/02/1202:15 05/02/1202:42 05/02/1216:30 DATE RECEIVED: 04/25/12
PREP. BATCH: SVD047S SVD047S SVD047S
CALIB. REF: RDL204 RDL204 RDL204

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 451 | 68 | 667 | 518 | 78 | 14 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 448 | 67 | 667 | 502 | 75 | 11 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 460 | 69 | 667 | 508 | 76 | 10 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 446 | 67 | 667 | 499 | 75 | 11 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 455 | 68 | 667 | 518 | 78 | 13 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 497 | 75 | 667 | 565 | 85 | 13 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 490 | 74 | 667 | 658 | 99 | 29 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 510 | 76 | 667 | 680 | 102 | 29 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 495 | 74 | 667 | 630 | 94 | 24 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 594 | 89 | 667 | 775 | 116 | 26 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 492 | 74 | 667 | 597 | 90 | 19 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 466 | 70 | 667 | 526 | 79 | 12 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 492 | 74 | 667 | 664 | 100 | 30 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 603 | 90 | 667 | 642 | 96 | 6 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 443 | 66 | 667 | 539 | 81 | 20 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 440 | 66 | 667 | 622 | 93 | 34 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 522 | 78 | 667 | 568 | 85 | 9 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 603 | 90 | 667 | 671 | 101 | 11 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 473 | 71 | 667 | 552 | 83 | 15 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 585 | 88 | 667 | 720 | 108 | 21 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 596 | 89 | 667 | 564 | 85 | 6 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 482 | 72 | 667 | 662 | 99 | 31 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 458 | 69 | 667 | 592 | 89 | 25 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 563 | 84 | 667 | 642 | 96 | 13 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 442 | 66 | 667 | 547 | 82 | 21 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 574 | 86 | 667 | 690 | 104 | 18 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 487 | 73 | 667 | 640 | 96 | 27 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 523 | 78 | 667 | 605 | 91 | 15 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 550 | 83 | 667 | 568 | 85 | 3 | 30-130 | 50 |
| Anthracene | ND | 667 | 614 | 92 | 667 | 708 | 106 | 14 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 729 | 109 | 667 | 853 | 128 | 16 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 688 | 103 | 667 | 744 | 112 | 8 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 788 | 118 | 667 | 855 | 128 | 8 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 739 | 111 | 667 | 896 | 134 | 19 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 679 | 102 | 667 | 716 | 107 | 5 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 529 | 79 | 667 | 682 | 102 | 25 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 496 | 74 | 667 | 608 | 91 | 20 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 541 | 81 | 667 | 633 | 95 | 16 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 669 | 100 | 667 | 857 | 129 | 25 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 656 | 98 | 667 | 829 | 124 | 23 | 40-150 | 50 |
| Chrysene | ND | 667 | 705 | 106 | 667 | 818 | 123 | 15 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 666 | 100 | 667 | 774 | 116 | 15 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 702 | 105 | 667 | 832 | 125 | 17 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 693 | 104 | 667 | 775 | 116 | 11 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 512 | 77 | 667 | 578 | 87 | 12 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 562 | 84 | 667 | 654 | 98 | 15 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 489 | 73 | 667 | 611 | 92 | 22 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 742 | 111 | 667 | 898 | 135* | 19 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 529 | 79 | 667 | 665 | 100 | 23 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 561 | 84 | 667 | 612 | 92 | 9 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 486 | 73 | 667 | 477 | 72 | 2 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 390 | 59 | 667 | 373 | 56 | 5 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 447 | 67 | 667 | 535 | 80 | 18 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 686 | 103 | 667 | 746 | 112 | 8 | 30-140 | 50 |
| Isophorone | ND | 667 | 511 | 77 | 667 | 669 | 100 | 27 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 421 | 63 | 667 | 547 | 82 | 26 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 475 | 71 | 667 | 566 | 85 | 17 | 30-140 | 50 |
| Naphthalene | ND | 667 | 540 | 81 | 667 | 701 | 105 | 26 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 522 | 78 | 667 | 824 | 124 | 45 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 641 | 96 | 667 | 657 | 99 | 2 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 622 | 93 | 667 | 725 | 109 | 15 | 30-130 | 50 |
| Phenol | ND | 667 | 487 | 73 | 667 | 593 | 89 | 20 | 30-130 | 50 |
| Pyrene | ND | 667 | 694 | 104 | 667 | 876 | 131* | 23 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 460 | 69 | 667 | 561 | 84 | 20 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 589 | 88 | 667 | 680 | 102 | 14 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 448 | 67 | 667 | 670 | 100 | 40 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 475 | 71 | 667 | 628 | 94 | 28 | 20-150 | 50 |
| Aniline | ND | 667 | 379 | 57 | 667 | 448 | 67 | 17 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1570 | 59 | 2670 | 1830 | 68 | 14 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 794 | 30 | 2670 | 1150 | 43 | 37 | 10-130 | 50 |
| Carbazole | ND | 667 | 660 | 99 | 667 | 809 | 121 | 20 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 504 | 76 | 667 | 718 | 108 | 35 | 30-150 | 50 |

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| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 653 | 65 | 1000 | 668 | 67 | 35-130 |
| 2-Fluorobiphenyl | 333 | 207 | 62 | 333 | 231 | 69 | 45-130 |
| 2-Fluorophenol | 1000 | 574 | 57 | 1000 | 692 | 69 | 25-130 |
| Nitrobenzene-d5 | 333 | 180 | 54 | 333 | 244 | 73 | 40-130 |
| Phenol-d5 | 1000 | 571 | 57 | 1000 | 736 | 74 | 25-120 |
| Terphenyl-d14 | 333 | 303 | 91 | 333 | 347 | 104 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-004-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 17:20 |
| Lab Samp ID: D106-01 | Dilution Factor: 1 |
| Lab File ID: RDJ323 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 18.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.1 | 1.0 |
| ACENAPHTHYLENE | ND | 2.1 | 1.0 |
| ANTHRACENE | ND | 2.1 | 1.0 |
| BENZO(A)ANTHRACENE | ND | 2.1 | 1.0 |
| BENZO(A)PYRENE | ND | 2.1 | 1.0 |
| BENZO(B)FLUORANTHENE | 1.1J | 2.1 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.1 | 1.0 |
| BENZO(G,H,I)PERYLENE | ND | 2.1 | 1.0 |
| CHRYSENE | ND | 2.1 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.1 | 1.0 |
| FLUORANTHENE | ND | 2.1 | 1.0 |
| FLUORENE | ND | 2.1 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.1 | 1.0 |
| NAPHTHALENE | ND | 2.1 | 1.0 |
| PHENANTHRENE | ND | 2.1 | 1.0 |
| PYRENE | ND | 2.1 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.1 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.1 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 13J | 20 | 10 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.1 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 307 | 408.5 | 75.1 | 40-130 |
| 2-FLUOROBIPHENYL | 274 | 408.5 | 67.0 | 45-130 |
| TERPHENYL-D14 | 326 | 408.5 | 79.8 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-145-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 17:40 |
| Lab Samp ID: D106-02 | Dilution Factor: 1 |
| Lab File ID: RDJ324 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 21.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.2 | 1.1 |
| ACENAPHTHYLENE | ND | 2.2 | 1.1 |
| ANTHRACENE | ND | 2.2 | 1.1 |
| BENZO(A)ANTHRACENE | 2.0J | 2.2 | 1.1 |
| BENZO(A)PYRENE | 1.6J | 2.2 | 1.1 |
| BENZO(B)FLUORANTHENE | 2.5 | 2.2 | 1.1 |
| BENZO(K)FLUORANTHENE | ND | 2.2 | 1.1 |
| BENZO(G,H,I)PERYLENE | 1.7J | 2.2 | 1.1 |
| CHRYSENE | ND | 2.2 | 1.1 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.2 | 1.1 |
| FLUORANTHENE | 2.0J | 2.2 | 1.1 |
| FLUORENE | ND | 2.2 | 1.1 |
| INDENO(1,2,3-CD)PYRENE | 1.2J | 2.2 | 1.1 |
| NAPHTHALENE | ND | 2.2 | 1.1 |
| PHENANTHRENE | ND | 2.2 | 1.1 |
| PYRENE | 2.0J | 2.2 | 1.1 |
| 2-METHYLNAPHTHALENE | ND | 2.2 | 1.1 |
| 1-METHYLNAPHTHALENE | ND | 2.2 | 1.1 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 22 | 21 | 11 |
| BUTYLBENZYLPHTHALATE | 29 | 21 | 11 |
| DI-N-BUTYLPHTHALATE | ND | 21 | 11 |
| DI-N-OCTYLPHTHALATE | ND | 21 | 11 |
| DIETHYLPHTHALATE | ND | 21 | 11 |
| DIMETHYLPHTHALATE | ND | 21 | 11 |
| N-NITROSODIMETHYLAMINE | ND | 2.2 | 1.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 313 | 423.0 | 74.1 | 40-130 |
| 2-FLUOROBIPHENYL | 260 | 423.0 | 61.6 | 45-130 |
| TERPHENYL-D14 | 289 | 423.0 | 68.4 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-148-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 18:01 |
| Lab Samp ID: D106-03 | Dilution Factor: 1 |
| Lab File ID: RDJ325 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 18.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.1 | 1.0 |
| ACENAPHTHYLENE | ND | 2.1 | 1.0 |
| ANTHRACENE | ND | 2.1 | 1.0 |
| BENZO(A)ANTHRACENE | ND | 2.1 | 1.0 |
| BENZO(A)PYRENE | ND | 2.1 | 1.0 |
| BENZO(B)FLUORANTHENE | 1.4J | 2.1 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.1 | 1.0 |
| BENZO(G,H,I)PERYLENE | 1.2J | 2.1 | 1.0 |
| CHRYSENE | ND | 2.1 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.1 | 1.0 |
| FLUORANTHENE | 1.4J | 2.1 | 1.0 |
| FLUORENE | ND | 2.1 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.1 | 1.0 |
| NAPHTHALENE | ND | 2.1 | 1.0 |
| PHENANTHRENE | 1.2J | 2.1 | 1.0 |
| PYRENE | 1.5J | 2.1 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.1 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.1 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 24 | 20 | 10 |
| BUTYLBENZYLPHTHALATE | 110 | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.1 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 281 | 407.5 | 69.0 | 40-130 |
| 2-FLUOROBIPHENYL | 245 | 407.5 | 60.1 | 45-130 |
| TERPHENYL-D14 | 296 | 407.5 | 72.7 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-154-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 18:22 |
| Lab Samp ID: D106-04 | Dilution Factor: 1 |
| Lab File ID: RDJ326 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 25.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.3 | 1.1 |
| ACENAPHTHYLENE | ND | 2.3 | 1.1 |
| ANTHRACENE | ND | 2.3 | 1.1 |
| BENZO(A)ANTHRACENE | ND | 2.3 | 1.1 |
| BENZO(A)PYRENE | ND | 2.3 | 1.1 |
| BENZO(B)FLUORANTHENE | 2.1J | 2.3 | 1.1 |
| BENZO(K)FLUORANTHENE | ND | 2.3 | 1.1 |
| BENZO(G,H,I)PERYLENE | 1.4J | 2.3 | 1.1 |
| CHRYSENE | 1.4J | 2.3 | 1.1 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.3 | 1.1 |
| FLUORANTHENE | 2.2J | 2.3 | 1.1 |
| FLUORENE | ND | 2.3 | 1.1 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.3 | 1.1 |
| NAPHTHALENE | ND | 2.3 | 1.1 |
| PHENANTHRENE | 1.2J | 2.3 | 1.1 |
| PYRENE | 1.9J | 2.3 | 1.1 |
| 2-METHYLNAPHTHALENE | ND | 2.3 | 1.1 |
| 1-METHYLNAPHTHALENE | ND | 2.3 | 1.1 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 23 | 22 | 11 |
| BUTYLBENZYLPHTHALATE | ND | 22 | 11 |
| DI-N-BUTYLPHTHALATE | ND | 22 | 11 |
| DI-N-OCTYLPHTHALATE | ND | 22 | 11 |
| DIETHYLPHTHALATE | ND | 22 | 11 |
| DIMETHYLPHTHALATE | ND | 22 | 11 |
| N-NITROSODIMETHYLAMINE | ND | 2.3 | 1.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 386 | 445.6 | 86.6 | 40-130 |
| 2-FLUOROBIPHENYL | 322 | 445.6 | 72.2 | 45-130 |
| TERPHENYL-D14 | 381 | 445.6 | 85.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-163-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 08:51 |
| Lab Samp ID: D106-05R | Dilution Factor: 1 |
| Lab File ID: REL051 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 15.4 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 1.0 |
| ACENAPHTHYLENE | ND | 2.0 | 1.0 |
| ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)PYRENE | ND | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 1.0 |
| CHRYSENE | ND | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 1.0 |
| FLUORANTHENE | ND | 2.0 | 1.0 |
| FLUORENE | ND | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 1.0 |
| NAPHTHALENE | ND | 2.0 | 1.0 |
| PHENANTHRENE | ND | 2.0 | 1.0 |
| PYRENE | ND | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 20 | 9.9 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 9.9 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 9.9 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 9.9 |
| DIETHYLPHTHALATE | ND | 20 | 9.9 |
| DIMETHYLPHTHALATE | ND | 20 | 9.9 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 198 | 394.0 | 50.2 | 40-130 |
| 2-FLUOROBIPHENYL | 189 | 394.0 | 48.0 | 45-130 |
| TERPHENYL-D14 | 330 | 394.0 | 83.8 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-168-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 19:03 |
| Lab Samp ID: D106-06 | Dilution Factor: 1 |
| Lab File ID: RDJ328 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 10.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)PYRENE | ND | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | 1.0J | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.95 |
| CHRYSENE | ND | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | ND | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.95 |
| NAPHTHALENE | ND | 1.9 | 0.95 |
| PHENANTHRENE | ND | 1.9 | 0.95 |
| PYRENE | ND | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 16J | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 245 | 373.2 | 65.7 | 40-130 |
| 2-FLUOROBIPHENYL | 221 | 373.2 | 59.2 | 45-130 |
| TERPHENYL-D14 | 285 | 373.2 | 76.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-176-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 19:24 |
| Lab Samp ID: D106-07 | Dilution Factor: 1 |
| Lab File ID: RDJ329 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 14.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 1.0 |
| ACENAPHTHYLENE | ND | 2.0 | 1.0 |
| ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)PYRENE | ND | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 1.0 |
| CHRYSENE | ND | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 1.0 |
| FLUORANTHENE | ND | 2.0 | 1.0 |
| FLUORENE | ND | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 1.0 |
| NAPHTHALENE | ND | 2.0 | 1.0 |
| PHENANTHRENE | ND | 2.0 | 1.0 |
| PYRENE | ND | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 14J | 20 | 9.8 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 9.8 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 9.8 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 9.8 |
| DIETHYLPHTHALATE | ND | 20 | 9.8 |
| DIMETHYLPHTHALATE | ND | 20 | 9.8 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 267 | 390.3 | 68.3 | 40-130 |
| 2-FLUOROBIPHENYL | 229 | 390.3 | 58.6 | 45-130 |
| TERPHENYL-D14 | 312 | 390.3 | 79.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-182-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 19:45 |
| Lab Samp ID: D106-08 | Dilution Factor: 1 |
| Lab File ID: RDJ330 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 14.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 0.99 |
| ACENAPHTHYLENE | ND | 2.0 | 0.99 |
| ANTHRACENE | ND | 2.0 | 0.99 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 0.99 |
| BENZO(A)PYRENE | ND | 2.0 | 0.99 |
| BENZO(B)FLUORANTHENE | ND | 2.0 | 0.99 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 0.99 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 0.99 |
| CHRYSENE | ND | 2.0 | 0.99 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 0.99 |
| FLUORANTHENE | ND | 2.0 | 0.99 |
| FLUORENE | ND | 2.0 | 0.99 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 0.99 |
| NAPHTHALENE | ND | 2.0 | 0.99 |
| PHENANTHRENE | ND | 2.0 | 0.99 |
| PYRENE | ND | 2.0 | 0.99 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 18J | 19 | 9.8 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.8 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.8 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.8 |
| DIETHYLPHTHALATE | ND | 19 | 9.8 |
| DIMETHYLPHTHALATE | ND | 19 | 9.8 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 0.99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 255 | 388.9 | 65.5 | 40-130 |
| 2-FLUOROBIPHENYL | 245 | 388.9 | 63.1 | 45-130 |
| TERPHENYL-D14 | 315 | 388.9 | 80.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 14:34 |
| Sample ID: MBLK1S | Date Analyzed: 04/19/12 10:47 |
| Lab Samp ID: SVD035SB | Dilution Factor: 1 |
| Lab File ID: RDJ304 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 317 | 333.3 | 95.2 | 40-130 |
| 2-FLUOROBIPHENYL | 277 | 333.3 | 83.0 | 45-130 |
| TERPHENYL-D14 | 342 | 333.3 | 103 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/25/12 |
| Batch No. : 12D106 | Date Extracted: 04/25/12 11:53 |
| Sample ID: MBLK2S | Date Analyzed: 05/02/12 02:15 |
| Lab Samp ID: SVD047SB | Dilution Factor: 1 |
| Lab File ID: REL036 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : NA |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 231 | 333.3 | 69.2 | 40-130 |
| 2-FLUOROBIPHENYL | 247 | 333.3 | 74.2 | 45-130 |
| TERPHENYL-D14 | 312 | 333.3 | 93.6 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVD035SB | SVD035SX | SVD035SY | | |
| LAB FILE ID: | RDJ304 | RDJ307 | RDJ308 | | |
| DATE EXTRACTED: | 04/18/1214:34 | 04/18/1214:34 | 04/18/1214:34 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/19/1210:47 | 04/19/1211:49 | 04/19/1212:09 | DATE RECEIVED: | 04/18/12 |
| PREP. BATCH: | SVD035S | SVD035S | SVD035S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 276 | 83 | 333 | 235 | 71 | 16 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 312 | 94 | 333 | 264 | 79 | 17 | 20-130 | 50 |
| Anthracene | ND | 333 | 278 | 83 | 333 | 238 | 71 | 16 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 338 | 102 | 333 | 283 | 85 | 18 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 339 | 102 | 333 | 287 | 86 | 17 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 356 | 107 | 333 | 315 | 94 | 12 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 357 | 107 | 333 | 296 | 89 | 19 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 365 | 109 | 333 | 314 | 94 | 15 | 30-140 | 50 |
| Chrysene | ND | 333 | 318 | 95 | 333 | 272 | 82 | 16 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 366 | 110 | 333 | 315 | 94 | 15 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 333 | 100 | 333 | 280 | 84 | 17 | 30-130 | 50 |
| Fluorene | ND | 333 | 313 | 94 | 333 | 262 | 78 | 18 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 368 | 111 | 333 | 314 | 94 | 16 | 20-160 | 50 |
| Naphthalene | ND | 333 | 265 | 80 | 333 | 226 | 68 | 16 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 281 | 84 | 333 | 241 | 72 | 15 | 20-130 | 50 |
| Pyrene | ND | 333 | 322 | 97 | 333 | 268 | 80 | 18 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 290 | 87 | 333 | 250 | 75 | 15 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 288 | 86 | 333 | 249 | 75 | 15 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 315 | 95 | 333 | 263 | 79 | 18 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 304 | 91 | 333 | 250 | 75 | 20 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 299 | 90 | 333 | 251 | 75 | 17 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 293 | 88 | 333 | 242 | 73 | 19 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 320 | 96 | 333 | 264 | 79 | 19 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 306 | 92 | 333 | 251 | 75 | 20 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 302 | 91 | 333 | 254 | 76 | 17 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 280 | 84 | 333 | 248 | 74 | 40-130 |
| 2-Fluorobiphenyl | 333 | 235 | 71 | 333 | 212 | 63 | 45-130 |
| Terphenyl-d14 | 333 | 300 | 90 | 333 | 257 | 77 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK2S | | | | |
| LAB SAMP ID: | SVD047SB | SVD047SX | SVD047SY | | |
| LAB FILE ID: | REL036 | REL039 | REL040 | | |
| DATE EXTRACTED: | 04/25/1211:53 | 04/25/1211:53 | 04/25/1211:53 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/02/1202:15 | 05/02/1203:36 | 05/02/1204:03 | DATE RECEIVED: | 04/25/12 |
| PREP. BATCH: | SVD047S | SVD047S | SVD047S | | |
| CALIB. REF: | RDL204 | RDL204 | RDL204 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 250 | 75 | 333 | 251 | 75 | 0 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 280 | 84 | 333 | 272 | 81 | 3 | 20-130 | 50 |
| Anthracene | ND | 333 | 245 | 74 | 333 | 256 | 77 | 4 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 286 | 86 | 333 | 319 | 96 | 11 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 318 | 95 | 333 | 355 | 106 | 11 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 334 | 100 | 333 | 386 | 116 | 14 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 344 | 103 | 333 | 352 | 106 | 2 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 294 | 88 | 333 | 336 | 101 | 13 | 30-140 | 50 |
| Chrysene | ND | 333 | 287 | 86 | 333 | 318 | 95 | 10 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 315 | 95 | 333 | 359 | 108 | 13 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 310 | 93 | 333 | 340 | 102 | 9 | 30-130 | 50 |
| Fluorene | ND | 333 | 266 | 80 | 333 | 267 | 80 | 0 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 311 | 93 | 333 | 349 | 105 | 12 | 20-160 | 50 |
| Naphthalene | ND | 333 | 251 | 75 | 333 | 249 | 75 | 1 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 250 | 75 | 333 | 264 | 79 | 5 | 20-130 | 50 |
| Pyrene | ND | 333 | 280 | 84 | 333 | 306 | 92 | 9 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 279 | 84 | 333 | 276 | 83 | 1 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 275 | 83 | 333 | 270 | 81 | 2 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 262 | 79 | 333 | 290 | 87 | 10 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 234 | 70 | 333 | 259 | 78 | 10 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 273 | 82 | 333 | 304 | 91 | 11 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 298 | 89 | 333 | 328 | 98 | 10 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 243 | 73 | 333 | 271 | 81 | 11 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 251 | 75 | 333 | 257 | 77 | 2 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 251 | 75 | 333 | 253 | 76 | 1 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 195 | 59 | 333 | 186 | 56 | 40-130 |
| 2-Fluorobiphenyl | 333 | 217 | 65 | 333 | 208 | 62 | 45-130 |
| Terphenyl-d14 | 333 | 263 | 79 | 333 | 279 | 84 | 45-135 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/17/12 10:10 |
| Sample ID: SL-004-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 21:19 |
| Lab Samp ID: D106-01 | Dilution Factor: 1 |
| Lab File ID: LD18098A | Matrix : SOIL |
| Ext Btch ID: DSD029S | % Moisture : 18.4 |
| Calib. Ref.: LD18092A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.69J | 1.2 | 0.61 |
| EFH(C12-C14) | ND | 1.2 | 0.61 |
| EFH(C15-C20) | 1.9 | 1.2 | 0.61 |
| EFH(C21-C30) | 15 | 1.2 | 0.61 |
| EFH(C30-C40) | 30 | 1.2 | 0.61 |
| TOTAL EFH(C8-C40) | 48 | 1.2 | 0.61 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 8.56 | 12.25 | 69.9 | 50-150 |
| HEXACOSANE | 2.80 | 3.064 | 91.5 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D106 | Date Extracted: 04/17/12 10:10 |
| Sample ID: MBLK1S | Date Analyzed: 04/19/12 18:28 |
| Lab Samp ID: DSD029SB | Dilution Factor: 1 |
| Lab File ID: LD18088A | Matrix : SOIL |
| Ext Btch ID: DSD029S | % Moisture : NA |
| Calib. Ref.: LD18080A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.11 | 10.00 | 71.1 | 50-150 |
| HEXACOSANE | 2.01 | 2.500 | 80.4 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSD029SB | DSD029SL | DSD029SC | | |
| LAB FILE ID: | LD18088A | LD18086A | LD18087A | | |
| DATE EXTRACTED: | 04/17/1210:10 | 04/17/1210:10 | 04/17/1210:10 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/19/1218:28 | 04/19/1217:54 | 04/19/1218:11 | DATE RECEIVED: | 04/17/12 |
| PREP. BATCH: | DSD029S | DSD029S | DSD029S | | |
| CALIB. REF: | LD18080A | LD18080A | LD18080A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 39.1 | 78 | 50.0 | 40.3 | 81 | 3 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 6.05 | 61 | 10.0 | 6.51 | 65 | 50-150 |
| Hexacosane | 2.50 | 2.04 | 82 | 2.50 | 2.08 | 83 | 50-150 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/17/12 16:12 |
| Sample ID: SL-004-NBZ-SS-0.0-0.5 | Date Analyzed: 04/22/12 10:20 |
| Lab Samp ID: D106-01 | Dilution Factor: 1 |
| Lab File ID: LD21033A | Matrix : SOIL |
| Ext Btch ID: CPD039S | % Moisture : 18.4 |
| Calib. Ref.: LD21015A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.31 | 0.21 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.21 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| ND | 0.21 | 0.10 \| 0.10 |
| HEPTACHLOR | 0.38 \| (ND) | 0.21 | 0.10 \| 0.10 |
| DELTA-BHC | (ND) \| ND | 0.21 | 0.10 \| 0.10 |
| ALDRIN | (ND) \| ND | 0.21 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.21 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| ND | 0.21 | 0.10 \| 0.10 |
| 4,4'-DDE | (0.37J) \| 0.42 | 0.42 | 0.21 \| 0.21 |
| DIELDRIN | (ND) \| ND | 0.42 | 0.21 \| 0.21 |
| ENDRIN | (ND) \| ND | 0.42 | 0.21 \| 0.21 |
| 4,4'-DDD | (ND) \| ND | 0.42 | 0.21 \| 0.21 |
| ENDOSULFAN II | (ND) \| ND | 0.42 | 0.21 \| 0.21 |
| 4,4'-DDT | (0.36J) \| 0.68 | 0.42 | 0.21 \| 0.21 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.42 | 0.21 \| 0.21 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.42 | 0.21 \| 0.21 |
| ENDRIN KETONE | 1.9 \| (ND) | 0.42 | 0.21 \| 0.21 |
| METHOXYCHLOR | (ND) \| 8.5 | 2.1 | 1.0 \| 1.0 |
| MIREX | (ND) \| ND | 0.42 | 0.21 \| 0.21 |
| TOXAPHENE | (ND) \| ND | 8.1 | 4.0 \| 4.0 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.2 | 2.1 \| 2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.467 \| (5.633) | 6.536 | 83.6 \| (86.2) | 50-130 |
| DECACHLOROBIPHENYL | 3.981 \| (4.144) | 6.536 | 60.9 \| (63.4) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/17/12 16:12 |
| Sample ID: SL-145-NBZ-SS-0.0-0.5 | Date Analyzed: 04/22/12 10:42 |
| Lab Samp ID: D106-02 | Dilution Factor: 1 |
| Lab File ID: LD21034A | Matrix : SOIL |
| Ext Btch ID: CPD039S | % Moisture : 21.2 |
| Calib. Ref.: LD21015A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.22 | 0.11 \| 0.11 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.22 | 0.11 \| 0.11 |
| BETA-BHC | (ND) \| ND | 0.22 | 0.11 \| 0.11 |
| HEPTACHLOR | (ND) \| 0.17J | 0.22 | 0.11 \| 0.11 |
| DELTA-BHC | (ND) \| ND | 0.22 | 0.11 \| 0.11 |
| ALDRIN | 0.45 \| (ND) | 0.22 | 0.11 \| 0.11 |
| HEPTACHLOR EPOXIDE | 0.40 \| (ND) | 0.22 | 0.11 \| 0.11 |
| ENDOSULFAN I | (ND) \| ND | 0.22 | 0.11 \| 0.11 |
| 4,4'-DDE | (ND) \| 0.95 | 0.43 | 0.22 \| 0.22 |
| DIELDRIN | 3.6 \| (ND) | 0.43 | 0.22 \| 0.22 |
| ENDRIN | 0.45 \| (ND) | 0.43 | 0.22 \| 0.22 |
| 4,4'-DDD | (ND) \| 0.91 | 0.43 | 0.22 \| 0.22 |
| ENDOSULFAN II | 0.24J \| (ND) | 0.43 | 0.22 \| 0.22 |
| 4,4'-DDT | 0.79 \| (2.4) | 0.43 | 0.22 \| 0.22 |
| ENDRIN ALDEHYDE | (ND) \| 0.24J | 0.43 | 0.22 \| 0.22 |
| ENDOSULFAN SULFATE | (ND) \| 1.8 | 0.43 | 0.22 \| 0.22 |
| ENDRIN KETONE | (ND) \| ND | 0.43 | 0.22 \| 0.22 |
| METHOXYCHLOR | (ND) \| 4.6 | 2.2 | 1.1 \| 1.1 |
| MIREX | 0.75 \| (ND) | 0.43 | 0.22 \| 0.22 |
| TOXAPHENE | (ND) \| ND | 8.4 | 4.2 \| 4.2 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.3 | 2.2 \| 2.2 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.452 \| (5.875) | 6.768 | 80.6 \| (86.8) | 50-130 |
| DECACHLOROBIPHENYL | 4.195 \| (4.960) | 6.768 | 62.0 \| (73.3) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/17/12 16:12 |
| Sample ID: SL-148-NBZ-SS-0.0-0.5 | Date Analyzed: 04/22/12 11:03 |
| Lab Samp ID: D106-03 | Dilution Factor: 1 |
| Lab File ID: LD21035A | Matrix : SOIL |
| Ext Btch ID: CPD039S | % Moisture : 18.2 |
| Calib. Ref.: LD21015A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.36 | 0.21 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.24 | 0.21 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| ND | 0.21 | 0.10 \| 0.10 |
| HEPTACHLOR | 0.41 \| (ND) | 0.21 | 0.10 \| 0.10 |
| DELTA-BHC | (ND) \| ND | 0.21 | 0.10 \| 0.10 |
| ALDRIN | 0.20J \| (ND) | 0.21 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | 0.11J \| (ND) | 0.21 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| ND | 0.21 | 0.10 \| 0.10 |
| 4,4'-DDE | (0.49) \| 0.40J | 0.42 | 0.21 \| 0.21 |
| DIELDRIN | (ND) \| ND | 0.42 | 0.21 \| 0.21 |
| ENDRIN | 0.39J \| (ND) | 0.42 | 0.21 \| 0.21 |
| 4,4'-DDD | (ND) \| ND | 0.42 | 0.21 \| 0.21 |
| ENDOSULFAN II | (ND) \| ND | 0.42 | 0.21 \| 0.21 |
| 4,4'-DDT | (1.0) \| 0.60 | 0.42 | 0.21 \| 0.21 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.42 | 0.21 \| 0.21 |
| ENDOSULFAN SULFATE | (ND) \| 0.64 | 0.42 | 0.21 \| 0.21 |
| ENDRIN KETONE | (ND) \| ND | 0.42 | 0.21 \| 0.21 |
| METHOXYCHLOR | (ND) \| 1.4J | 2.1 | 1.0 \| 1.0 |
| MIREX | (ND) \| 0.57 | 0.42 | 0.21 \| 0.21 |
| TOXAPHENE | (ND) \| ND | 8.1 | 4.0 \| 4.0 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.2 | 2.1 \| 2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.445 \| (6.220) | 6.520 | 83.5 \| (95.4) | 50-130 |
| DECACHLOROBIPHENYL | 4.444 \| (5.089) | 6.520 | 68.2 \| (78.1) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/17/12 16:12 |
| Sample ID: SL-154-NBZ-SS-0.0-0.5 | Date Analyzed: 04/22/12 11:25 |
| Lab Samp ID: D106-04 | Dilution Factor: 1 |
| Lab File ID: LD21036A | Matrix : SOIL |
| Ext Btch ID: CPD039S | % Moisture : 25.2 |
| Calib. Ref.: LD21015A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.51 | 0.23 | 0.11 \| 0.11 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.23 | 0.11 \| 0.11 |
| BETA-BHC | (ND) \| ND | 0.23 | 0.11 \| 0.11 |
| HEPTACHLOR | 0.54 \| (ND) | 0.23 | 0.11 \| 0.11 |
| DELTA-BHC | (ND) \| ND | 0.23 | 0.11 \| 0.11 |
| ALDRIN | (ND) \| ND | 0.23 | 0.11 \| 0.11 |
| HEPTACHLOR EPOXIDE | 0.19J \| (ND) | 0.23 | 0.11 \| 0.11 |
| ENDOSULFAN I | (ND) \| ND | 0.23 | 0.11 \| 0.11 |
| 4,4'-DDE | (1.6) \| 1.5 | 0.45 | 0.23 \| 0.23 |
| DIELDRIN | (ND) \| ND | 0.45 | 0.23 \| 0.23 |
| ENDRIN | (ND) \| ND | 0.45 | 0.23 \| 0.23 |
| 4,4'-DDD | (ND) \| ND | 0.45 | 0.23 \| 0.23 |
| ENDOSULFAN II | (ND) \| ND | 0.45 | 0.23 \| 0.23 |
| 4,4'-DDT | (1.6) \| 1.4 | 0.45 | 0.23 \| 0.23 |
| ENDRIN ALDEHYDE | 0.48 \| (ND) | 0.45 | 0.23 \| 0.23 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.45 | 0.23 \| 0.23 |
| ENDRIN KETONE | (ND) \| ND | 0.45 | 0.23 \| 0.23 |
| METHOXYCHLOR | (ND) \| 1.3J | 2.3 | 1.1 \| 1.1 |
| MIREX | (ND) \| ND | 0.45 | 0.23 \| 0.23 |
| TOXAPHENE | (ND) \| ND | 8.8 | 4.4 \| 4.4 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.5 | 2.3 \| 2.3 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 6.049 \| (6.551) | 7.130 | 84.8 \| (91.9) | 50-130 |
| DECACHLOROBIPHENYL | 5.228 \| (7.202) | 7.130 | 73.3 \| (101) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/17/12 16:12 |
| Sample ID: SL-163-NBZ-SS-0.0-0.5 | Date Analyzed: 04/22/12 11:46 |
| Lab Samp ID: D106-05 | Dilution Factor: 1 |
| Lab File ID: LD21037A | Matrix : SOIL |
| Ext Btch ID: CPD039S | % Moisture : 15.4 |
| Calib. Ref.: LD21015A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|1.3 | 0.20 | 0.10\|0.10 |
| GAMMA-BHC (LINDANE) | (ND)\|0.36 | 0.20 | 0.10\|0.10 |
| BETA-BHC | (ND)\|0.27 | 0.20 | 0.10\|0.10 |
| HEPTACHLOR | (ND)\|ND | 0.20 | 0.10\|0.10 |
| DELTA-BHC | (ND)\|ND | 0.20 | 0.10\|0.10 |
| ALDRIN | (ND)\|0.18J | 0.20 | 0.10\|0.10 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.20 | 0.10\|0.10 |
| ENDOSULFAN I | (ND)\|ND | 0.20 | 0.10\|0.10 |
| 4,4'-DDE | (ND)\|ND | 0.40 | 0.20\|0.20 |
| DIELDRIN | (ND)\|ND | 0.40 | 0.20\|0.20 |
| ENDRIN | (ND)\|ND | 0.40 | 0.20\|0.20 |
| 4,4'-DDD | (ND)\|ND | 0.40 | 0.20\|0.20 |
| ENDOSULFAN II | (ND)\|ND | 0.40 | 0.20\|0.20 |
| 4,4'-DDT | 0.25J\|(ND) | 0.40 | 0.20\|0.20 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.40 | 0.20\|0.20 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.40 | 0.20\|0.20 |
| ENDRIN KETONE | (ND)\|ND | 0.40 | 0.20\|0.20 |
| METHOXYCHLOR | (ND)\|ND | 2.0 | 1.0\|1.0 |
| MIREX | (ND)\|ND | 0.40 | 0.20\|0.20 |
| TOXAPHENE | (ND)\|ND | 7.8 | 3.9\|3.9 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 4.0 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.815\|(5.479) | 6.304 | 76.4\|(86.9) | 50-130 |
| DECACHLOROBIPHENYL | 4.370\|(4.970) | 6.304 | 69.3\|(78.8) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/17/12 16:12 |
| Sample ID: SL-168-NBZ-SS-0.0-0.5 | Date Analyzed: 04/22/12 12:07 |
| Lab Samp ID: D106-06 | Dilution Factor: 1 |
| Lab File ID: LD21038A | Matrix : SOIL |
| Ext Btch ID: CPD039S | % Moisture : 10.7 |
| Calib. Ref.: LD21015A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.12J | 0.19 | 0.095\|0.095 |
| GAMMA-BHC (LINDANE) | (ND)\|0.13J | 0.19 | 0.095\|0.095 |
| BETA-BHC | (ND)\|ND | 0.19 | 0.095\|0.095 |
| HEPTACHLOR | (ND)\|0.52 | 0.19 | 0.095\|0.095 |
| DELTA-BHC | (ND)\|ND | 0.19 | 0.095\|0.095 |
| ALDRIN | (ND)\|ND | 0.19 | 0.095\|0.095 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.19 | 0.095\|0.095 |
| ENDOSULFAN I | (ND)\|ND | 0.19 | 0.095\|0.095 |
| 4,4'-DDE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| DIELDRIN | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.38 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDOSULFAN II | (ND)\|ND | 0.38 | 0.19\|0.19 |
| 4,4'-DDT | 0.54\|(0.21J) | 0.38 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| METHOXYCHLOR | (ND)\|1.1J | 1.9 | 0.95\|0.95 |
| MIREX | (ND)\|ND | 0.38 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.4 | 3.7\|3.7 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.772\|(5.191) | 5.972 | 79.9\|(86.9) | 50-130 |
| DECACHLOROBIPHENYL | 4.713\|(6.509) | 5.972 | 78.9\|(109) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/17/12 16:12 |
| Sample ID: SL-176-NBZ-SS-0.0-0.5 | Date Analyzed: 04/22/12 12:29 |
| Lab Samp ID: D106-07 | Dilution Factor: 1 |
| Lab File ID: LD21039A | Matrix : SOIL |
| Ext Btch ID: CPD039S | % Moisture : 14.6 |
| Calib. Ref.: LD21015A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.17J | 0.20 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.13J | 0.20 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR | 0.44 \| (ND) | 0.20 | 0.10 \| 0.10 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| ALDRIN | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| 4,4'-DDE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| DIELDRIN | 0.20J \| (ND) | 0.40 | 0.20 \| 0.20 |
| ENDRIN | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN II | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDT | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| ND | 2.0 | 1.0 \| 1.0 |
| MIREX | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.7 | 3.9 \| 3.9 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.0 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (5.406) \| 5.328 | 6.245 | (86.6) \| 85.3 | 50-130 |
| DECACHLOROBIPHENYL | 4.574 \| (4.743) | 6.245 | 73.2 \| (76.0) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/17/12 16:12 |
| Sample ID: SL-182-NBZ-SS-0.0-0.5 | Date Analyzed: 04/22/12 12:50 |
| Lab Samp ID: D106-08 | Dilution Factor: 1 |
| Lab File ID: LD21040A | Matrix : SOIL |
| Ext Btch ID: CPD039S | % Moisture : 14.3 |
| Calib. Ref.: LD21015A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 27 | 0.20 | 0.099 \| 0.099 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| BETA-BHC | (ND) \| 2.5 | 0.20 | 0.099 \| 0.099 |
| HEPTACHLOR | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| ALDRIN | (ND) \| 0.87 | 0.20 | 0.099 \| 0.099 |
| HEPTACHLOR EPOXIDE | 1.0 \| (ND) | 0.20 | 0.099 \| 0.099 |
| ENDOSULFAN I | (ND) \| 0.44 | 0.20 | 0.099 \| 0.099 |
| 4,4'-DDE | 0.52 \| (0.31J) | 0.40 | 0.20 \| 0.20 |
| DIELDRIN | 1.1 \| (ND) | 0.40 | 0.20 \| 0.20 |
| ENDRIN | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN II | (ND) \| 0.63 | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDT | (0.77) \| 0.61 | 0.40 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| 0.93 | 0.40 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| ND | 2.0 | 0.99 \| 0.99 |
| MIREX | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.7 | 3.9 \| 3.9 |
| CHLORDANE (TECHNICAL) | (ND) \| 4.8 | 4.0 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.870 \| (6.184) | 6.223 | 94.3 \| (99.4) | 50-130 |
| DECACHLOROBIPHENYL | (5.033) \| 4.822 | 6.223 | (80.9) \| 77.5 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D106 | Date Extracted: 04/17/12 16:12 |
| Sample ID: MBLK1S | Date Analyzed: 04/22/12 05:41 |
| Lab Samp ID: CPD039SB | Dilution Factor: 1 |
| Lab File ID: LD21020A | Matrix : SOIL |
| Ext Btch ID: CPD039S | % Moisture : NA |
| Calib. Ref.: LD21015A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.791\|(3.889) | 5.333 | 71.1\|(72.9) | 50-130 |
| DECACHLOROBIPHENYL | 4.611\|(4.825) | 5.333 | 86.5\|(90.5) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPD039SB CPD039SL CPD039SC
LAB FILE ID: LD21020A LD21021A LD21022A
DATE EXTRACTED: 04/17/1216:12 04/17/1216:12 04/17/1216:12 DATE COLLECTED: NA
DATE ANALYZED: 04/22/1205:41 04/22/1206:02 04/22/1206:24 DATE RECEIVED: 04/17/12
PREP. BATCH: CPD039S CPD039S CPD039S
CALIB. REF: LD21015A LD21015A LD21015A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 2.67 | 2.00\|(2.07) | 75\|(78) | 2.67 | 1.76\|(1.82) | 66\|(68) | 13\|(13) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|ND | 2.67 | 2.09\|(2.17) | 78\|(81) | 2.67 | 1.86\|(1.92) | 70\|(72) | 12\|(12) | 40-130 | 50 |
| beta-BHC | (ND)\|ND | 2.67 | (2.43)\|2.23 | (91)\|84 | 2.67 | (2.27)\|2.04 | (85)\|76 | (7)\|9 | 50-140 | 50 |
| Heptachlor | (ND)\|ND | 2.67 | (2.45)\|2.28 | (92)\|85 | 2.67 | (2.24)\|2.06 | (84)\|77 | (9)\|10 | 30-130 | 50 |
| delta-BHC | (ND)\|ND | 2.67 | 2.62\|(2.69) | 98\|(101) | 2.67 | 2.41\|(2.48) | 90\|(93) | 8\|(8) | 30-150 | 50 |
| Aldrin | (ND)\|ND | 2.67 | 2.24\|(2.57) | 84\|(96) | 2.67 | (2.07)\|2.00 | (78)\|75 | (8)\|25 | 30-130 | 50 |
| Heptachlor Epoxide | (ND)\|ND | 2.67 | 2.14\|(2.47) | 80\|(93) | 2.67 | 1.90\|(2.10) | 71\|(79) | 12\|(16) | 60-140 | 50 |
| Endosulfan I | (ND)\|ND | 2.67 | 1.93\|(2.17) | 72\|(81) | 2.67 | 1.64\|(1.90) | 61\|(71) | 16\|(13) | 50-150 | 50 |
| 4,4'-DDE | (ND)\|ND | 2.67 | 2.30\|(2.36) | 86\|(88) | 2.67 | (2.05)\|2.03 | (77)\|76 | (11)\|15 | 50-150 | 50 |
| Dieldrin | (ND)\|ND | 2.67 | (2.40)\|2.14 | (90)\|80 | 2.67 | (2.13)\|1.90 | (80)\|71 | (12)\|12 | 60-130 | 50 |
| Endrin | (ND)\|ND | 2.67 | (2.41)\|2.27 | (90)\|85 | 2.67 | (2.14)\|2.05 | (80)\|77 | (12)\|10 | 50-140 | 50 |
| 4,4'-DDD | (ND)\|ND | 2.67 | (2.40)\|2.13 | (90)\|80 | 2.67 | (2.18)\|1.98 | (82)\|74 | (10)\|7 | 50-160 | 50 |
| Endosulfan II | (ND)\|ND | 2.67 | (2.56)\|2.36 | (96)\|88 | 2.67 | (2.35)\|2.22 | (88)\|83 | (9)\|6 | 60-150 | 50 |
| 4,4'-DDT | (ND)\|ND | 2.67 | (3.02)\|2.35 | (113)\|88 | 2.67 | (2.88)\|2.19 | (108)\|82 | (5)\|7 | 60-140 | 50 |
| Endrin aldehyde | (ND)\|ND | 2.67 | (2.39)\|2.28 | (90)\|85 | 2.67 | (2.26)\|2.16 | (85)\|81 | (6)\|5 | 50-160 | 50 |
| Endosulfan Sulfate | (ND)\|ND | 2.67 | (2.54)\|2.48 | (95)\|93 | 2.67 | (2.39)\|2.31 | (90)\|87 | (6)\|7 | 70-140 | 50 |
| Endrin Ketone | (ND)\|ND | 2.67 | 2.48\|(2.49) | 93\|(93) | 2.67 | (2.35)\|2.34 | (88)\|88 | (5)\|6 | 70-160 | 50 |
| Methoxychlor | (ND)\|ND | 26.7 | 24.7\|(25.5) | 93\|(96) | 26.7 | 23.6\|(24.3) | 88\|(91) | 5\|(5) | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 3.799\|(3.937) | 71.2\|(73.8) | 5.333 | 3.665\|(3.769) | 68.7\|(70.7) | 50-130 |
| Decachlorobiphenyl | 5.333 | 4.694\|(4.850) | 88.0\|(90.9) | 5.333 | 4.967\|(4.991) | 93.1\|(93.6) | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/20/12 09:55 |
| Sample ID: SL-004-NBZ-SS-0.0-0.5 | Date Analyzed: 05/09/12 10:45 |
| Lab Samp ID: D106-01 | Dilution Factor: 1 |
| Lab File ID: KE07058A | Matrix : SOIL |
| Ext Btch ID: CPD048S | % Moisture : 18.4 |
| Calib. Ref.: KE07055A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 4.0 | 2.1\|2.1 |
| AROCLOR 5442 | (ND)\|ND | 4.0 | 2.1\|2.1 |
| AROCLOR 5460 | (ND)\|ND | 4.0 | 2.1\|2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.594)\|5.951 | 6.536 | (116)\|91.1 | 45-120 |
| TETRACHLORO-M-XYLENE | (8.356)\|4.821 | 6.536 | (128)\|73.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/11/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/11/12 |
| Batch No. | : 12D106 | Date Extracted | : 04/20/12 09:55 |
| Sample ID | : SL-145-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/09/12 11:37 |
| Lab Samp ID | : D106-02 | Dilution Factor | : 1 |
| Lab File ID | : KE07059A | Matrix | : SOIL |
| Ext Btch ID | : CPD048S | % Moisture | : 21.2 |
| Calib. Ref. | : KE07055A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1221 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1232 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1242 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1248 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1254 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1260 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1262 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1268 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 5432 | (ND)\|ND | 4.2 | 2.2\|2.2 |
| AROCLOR 5442 | (ND)\|ND | 4.2 | 2.2\|2.2 |
| AROCLOR 5460 | (ND)\|ND | 4.2 | 2.2\|2.2 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 8.691\|(6.766) | 6.768 | 128*\|(100) | 45-120 |
| TETRACHLORO-M-XYLENE | (8.855)\|5.608 | 6.768 | (131)\|82.9 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/20/12 09:55 |
| Sample ID: SL-148-NBZ-SS-0.0-0.5 | Date Analyzed: 05/09/12 12:30 |
| Lab Samp ID: D106-03 | Dilution Factor: 1 |
| Lab File ID: KE07060A | Matrix : SOIL |
| Ext Btch ID: CPD048S | % Moisture : 18.2 |
| Calib. Ref.: KE07055A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 4.0 | 2.1\|2.1 |
| AROCLOR 5442 | (ND)\|ND | 4.0 | 2.1\|2.1 |
| AROCLOR 5460 | (ND)\|ND | 4.0 | 2.1\|2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.575)\|5.621 | 6.520 | (116)\|86.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.236)\|4.652 | 6.520 | (111)\|71.4 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/20/12 09:55 |
| Sample ID: SL-154-NBZ-SS-0.0-0.5 | Date Analyzed: 05/09/12 13:23 |
| Lab Samp ID: D106-04 | Dilution Factor: 1 |
| Lab File ID: KE07061A | Matrix : SOIL |
| Ext Btch ID: CPD048S | % Moisture : 25.2 |
| Calib. Ref.: KE07055A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.3 | 1.1\|1.1 |
| AROCLOR 1221 | (ND)\|ND | 2.3 | 1.1\|1.1 |
| AROCLOR 1232 | (ND)\|ND | 2.3 | 1.1\|1.1 |
| AROCLOR 1242 | (ND)\|ND | 2.3 | 1.1\|1.1 |
| AROCLOR 1248 | (ND)\|ND | 2.3 | 1.1\|1.1 |
| AROCLOR 1254 | (ND)\|ND | 2.3 | 1.1\|1.1 |
| AROCLOR 1260 | (ND)\|ND | 2.3 | 1.1\|1.1 |
| AROCLOR 1262 | (ND)\|ND | 2.3 | 1.1\|1.1 |
| AROCLOR 1268 | (ND)\|ND | 2.3 | 1.1\|1.1 |
| AROCLOR 5432 | (ND)\|ND | 4.4 | 2.3\|2.3 |
| AROCLOR 5442 | (ND)\|ND | 4.4 | 2.3\|2.3 |
| AROCLOR 5460 | (ND)\|ND | 4.4 | 2.3\|2.3 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 9.284\|(7.125) | 7.130 | 130*\|(99.9) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.984)\|5.185 | 7.130 | (112)\|72.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/20/12 09:55 |
| Sample ID: SL-163-NBZ-SS-0.0-0.5 | Date Analyzed: 05/09/12 14:16 |
| Lab Samp ID: D106-05 | Dilution Factor: 1 |
| Lab File ID: KE07062A | Matrix : SOIL |
| Ext Btch ID: CPD048S | % Moisture : 15.4 |
| Calib. Ref.: KE07055A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 8.050\|(6.631) | 6.304 | 128*\|(105) | 45-120 |
| TETRACHLORO-M-XYLENE | (8.299)\|4.959 | 6.304 | (132)\|78.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/20/12 09:55 |
| Sample ID: SL-168-NBZ-SS-0.0-0.5 | Date Analyzed: 05/09/12 15:09 |
| Lab Samp ID: D106-06 | Dilution Factor: 1 |
| Lab File ID: KE07063A | Matrix : SOIL |
| Ext Btch ID: CPD048S | % Moisture : 10.7 |
| Calib. Ref.: KE07055A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.216\|(5.945) | 5.972 | 121*\|(99.5) | 45-120 |
| TETRACHLORO-M-XYLENE | (6.713)\|4.492 | 5.972 | (112)\|75.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/11/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/11/12 |
| Batch No. | : 12D106 | Date Extracted | : 04/20/12 09:55 |
| Sample ID | : SL-176-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/09/12 17:48 |
| Lab Samp ID | : D106-07 | Dilution Factor | : 1 |
| Lab File ID | : KE07066A | Matrix | : SOIL |
| Ext Btch ID | : CPD048S | % Moisture | : 14.6 |
| Calib. Ref. | : KE07055A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.883)\|5.916 | 6.245 | (110)\|94.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.919)\|4.511 | 6.245 | (111)\|72.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/11/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/11/12 |
| Batch No. | : 12D106 | Date Extracted | : 04/20/12 09:55 |
| Sample ID | : SL-182-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/09/12 06:45 |
| Lab Samp ID | : D106-08 | Dilution Factor | : 1 |
| Lab File ID | : KE07053A | Matrix | : SOIL |
| Ext Btch ID | : CPD048S | % Moisture | : 14.3 |
| Calib. Ref. | : KE07043A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 5432 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.503\|(6.367) | 6.223 | 121*\|(102) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.230)\|4.670 | 6.223 | (116)\|75.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D106 | Date Extracted: 04/20/12 09:55 |
| Sample ID: MBLK1S | Date Analyzed: 05/10/12 14:08 |
| Lab Samp ID: 60D048SB | Dilution Factor: 1 |
| Lab File ID: KE07075A | Matrix : SOIL |
| Ext Btch ID: CPD048S | % Moisture : NA |
| Calib. Ref.: KE07068A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 6.838\|(5.515) | 5.333 | 128*\|(103) | 45-120 |
| TETRACHLORO-M-XYLENE | (5.938)\|4.717 | 5.333 | (111)\|88.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60D048SB | 60D048SL | 60D048SC | | |
| LAB FILE ID: | KE07075A | KE07076A | KE07077A | | |
| DATE EXTRACTED: | 04/20/1209:55 | 04/20/1209:55 | 04/20/1209:55 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/10/1214:08 | 05/10/1215:01 | 05/10/1215:55 | DATE RECEIVED: | 04/20/12 |
| PREP. BATCH: | CPD048S | CPD048S | CPD048S | | |
| CALIB. REF: | KE07068A | KE07068A | KE07068A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (65.0)\|50.4 | (97)\|76 | 66.7 | (64.6)\|49.9 | (97)\|75 | (1)\|1 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (87.8)\|60.3 | (132)\|90 | 66.7 | (86.6)\|59.6 | (130)\|89 | (1)\|1 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | (41.1)\|40.3 | (62)\|60 | 66.7 | (45.2)\|44.3 | (68)\|66 | (10)\|9 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | 6.829\|(5.241) | 128*\|(98.3) | 5.333 | 6.874\|(5.428) | 129*\|(102) | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (5.967)\|4.634 | (112)\|86.9 | 5.333 | (5.966)\|4.654 | (112)\|87.3 | 10-160 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 10.7

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-168-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D106-06 | D106-06M | D106-06S | | |
| LAB FILE ID: | KE07063A | KE07064A | KE07065A | | |
| DATE EXTRACTED: | 04/20/1209:55 | 04/20/1209:55 | 04/20/1209:55 | DATE COLLECTED: | 04/11/12 |
| DATE ANALYZED: | 05/09/1215:09 | 05/09/1216:02 | 05/09/1216:55 | DATE RECEIVED: | 04/11/12 |
| PREP. BATCH: | CPD048S | CPD048S | CPD048S | | |
| CALIB. REF: | KE07055A | KE07055A | KE07055A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 74.7 | (65.1)\|47.2 | (87)\|63 | 74.7 | (69.1)\|47.1 | (93)\|63 | (6)\|0 | 20-160 | 50 |
| Aroclor 1260 | (ND)\|ND | 74.7 | (91.3)\|59.6 | (122)\|80 | 74.7 | (92.5)\|60.8 | (124)\|81 | (1)\|2 | 20-160 | 50 |
| Aroclor 5460 | (ND)\|ND | 74.7 | 47.9\|(61.0) | 64\|(82) | 74.7 | (49.0)\|47.9 | (66)\|64 | (2)\|24 | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.972 | 7.482\|(6.399) | 125*\|(107) | 5.972 | 7.303\|(5.911) | 122*\|(99.0) | 45-120 |
| Tetrachloro-m-xylene | 5.972 | (6.269)\|4.380 | (105)\|73.3 | 5.972 | (6.792)\|4.712 | (114)\|78.9 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 17:58 |
| Sample ID: SL-004-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 21:16 |
| Lab Samp ID: D106-01 | Dilution Factor: 1 |
| Lab File ID: WD19022A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : 18.4 |
| Calib. Ref.: WD19021A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.4 | 2.2\|2.2 |
| 2,4-DB | (ND)\|ND | 2.1 | 1.0\|1.0 |
| 2,4,5-T | (ND)\|ND | 0.21 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.21 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.5\|5.5 |
| DICAMBA | (ND)\|ND | 1.5 | 0.74\|0.74 |
| DICHLOROPROP | (ND)\|ND | 2.9 | 1.5\|1.5 |
| DINOSEB | (ND)\|1.1J | 2.1 | 1.0\|1.0 |
| MCPA | (ND)\|ND | 310 | 150\|150 |
| MCPP | (ND)\|910 | 310 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (224.1)\|163.3 | 183.8 | (122)\|88.9 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 17:58 |
| Sample ID: SL-145-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 21:37 |
| Lab Samp ID: D106-02 | Dilution Factor: 1 |
| Lab File ID: WD19023A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : 21.2 |
| Calib. Ref.: WD19021A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.6 | 2.3\|2.3 |
| 2,4-DB | (ND)\|ND | 2.2 | 1.1\|1.1 |
| 2,4,5-T | 0.28\|(ND) | 0.22 | 0.11\|0.11 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.22 | 0.11\|0.11 |
| DALAPON | (ND)\|ND | 11 | 5.7\|5.7 |
| DICAMBA | (ND)\|1.7 | 1.5 | 0.76\|0.76 |
| DICHLOROPROP | (ND)\|ND | 3.0 | 1.5\|1.5 |
| DINOSEB | (ND)\|1.5J | 2.2 | 1.1\|1.1 |
| MCPA | (ND)\|ND | 320 | 160\|160 |
| MCPP | (ND)\|1100 | 320 | 160\|160 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (273.0)\|189.8 | 190.4 | (143)\|99.7 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 17:58 |
| Sample ID: SL-148-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 21:57 |
| Lab Samp ID: D106-03 | Dilution Factor: 1 |
| Lab File ID: WD19024A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : 18.2 |
| Calib. Ref.: WD19021A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.4 | 2.2\|2.2 |
| 2,4-DB | (ND)\|ND | 2.1 | 1.0\|1.0 |
| 2,4,5-T | (ND)\|ND | 0.21 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.21 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.5\|5.5 |
| DICAMBA | (ND)\|ND | 1.5 | 0.73\|0.73 |
| DICHLOROPROP | (ND)\|ND | 2.9 | 1.5\|1.5 |
| DINOSEB | (ND)\|ND | 2.1 | 1.0\|1.0 |
| MCPA | (ND)\|ND | 310 | 150\|150 |
| MCPP | (ND)\|ND | 310 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (224.9)\|155.8 | 183.4 | (123)\|84.9 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 17:58 |
| Sample ID: SL-154-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 22:17 |
| Lab Samp ID: D106-04 | Dilution Factor: 1 |
| Lab File ID: WD19025A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : 25.2 |
| Calib. Ref.: WD19021A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | 5.6 \| (ND) | 4.8 | 2.4 \| 2.4 |
| 2,4-DB | (ND) \| ND | 2.3 | 1.1 \| 1.1 |
| 2,4,5-T | 0.84 \| (ND) | 0.23 | 0.11 \| 0.11 |
| 2,4,5-TP(SILVEX) | (ND) \| ND | 0.23 | 0.11 \| 0.11 |
| DALAPON | (ND) \| ND | 12 | 6.0 \| 6.0 |
| DICAMBA | (ND) \| 2.2 | 1.6 | 0.80 \| 0.80 |
| DICHLOROPROP | (ND) \| ND | 3.2 | 1.6 \| 1.6 |
| DINOSEB | (ND) \| ND | 2.3 | 1.1 \| 1.1 |
| MCPA | (ND) \| ND | 330 | 170 \| 170 |
| MCPP | (ND) \| 2000 | 330 | 170 \| 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (220.6) \| 168.5 | 200.5 | (110) \| 84.0 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 17:58 |
| Sample ID: SL-163-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 22:38 |
| Lab Samp ID: D106-05 | Dilution Factor: 1 |
| Lab File ID: WD19026A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : 15.4 |
| Calib. Ref.: WD19021A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.3 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.3\|5.3 |
| DICAMBA | (ND)\|ND | 1.4 | 0.71\|0.71 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| MCPA | (ND)\|ND | 300 | 150\|150 |
| MCPP | (ND)\|ND | 300 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (206.5)\|149.8 | 177.3 | (116)\|84.5 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 17:58 |
| Sample ID: SL-168-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 22:58 |
| Lab Samp ID: D106-06 | Dilution Factor: 1 |
| Lab File ID: WD19027A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : 10.7 |
| Calib. Ref.: WD19021A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.95\|0.95 |
| 2,4,5-T | 0.20\|(ND) | 0.19 | 0.095\|0.095 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.095\|0.095 |
| DALAPON | (ND)\|ND | 10 | 5.0\|5.0 |
| DICAMBA | (ND)\|ND | 1.3 | 0.67\|0.67 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.95\|0.95 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (224.1)\|162.3 | 168.0 | (133)\|96.6 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 17:58 |
| Sample ID: SL-176-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 23:18 |
| Lab Samp ID: D106-07 | Dilution Factor: 1 |
| Lab File ID: WD19028A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : 14.6 |
| Calib. Ref.: WD19021A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.3\|5.3 |
| DICAMBA | (ND)\|ND | 1.4 | 0.70\|0.70 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| MCPA | (ND)\|ND | 290 | 150\|150 |
| MCPP | (ND)\|ND | 290 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (204.8)\|153.5 | 175.6 | (117)\|87.4 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 17:58 |
| Sample ID: SL-182-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 23:39 |
| Lab Samp ID: D106-08 | Dilution Factor: 1 |
| Lab File ID: WD19029A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : 14.3 |
| Calib. Ref.: WD19021A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | 430\|(ND) | 2.0 | 0.99\|0.99 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.099\|0.099 |
| 2,4,5-TP(SILVEX) | 42\|(ND) | 0.20 | 0.099\|0.099 |
| DALAPON | (ND)\|12 | 11 | 5.3\|5.3 |
| DICAMBA | (ND)\|ND | 1.4 | 0.70\|0.70 |
| DICHLOROPROP | (ND)\|36 | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 0.99\|0.99 |
| MCPA | (ND)\|6300 | 290 | 150\|150 |
| MCPP | (ND)\|ND | 290 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (197.3)\|179.2 | 175.0 | (113)\|102 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D106 | Date Extracted: 04/18/12 17:58 |
| Sample ID: MBLK1S | Date Analyzed: 04/19/12 14:50 |
| Lab Samp ID: HED009SB | Dilution Factor: 1 |
| Lab File ID: WD19003A | Matrix : SOIL |
| Ext Btch ID: HED009S | % Moisture : NA |
| Calib. Ref.: WD19002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (189.4)\|141.9 | 150.0 | (126)\|94.6 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HED009SB | HED009SL | HED009SC | | |
| LAB FILE ID: | WD19003A | WD19004A | WD19005A | | |
| DATE EXTRACTED: | 04/18/1217:58 | 04/18/1217:58 | 04/18/1217:58 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/19/1214:50 | 04/19/1215:11 | 04/19/1215:31 | DATE RECEIVED: | 04/18/12 |
| PREP. BATCH: | HED009S | HED009S | HED009S | | |
| CALIB. REF: | WD19002A | WD19002A | WD19002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | (14.7)\|12.8 | (98)\|85 | 15.0 | (16.4)\|14.2 | (109)\|95 | (11)\|10 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 13.0\|(15.7) | 87\|(105) | 15.0 | 13.2\|(14.0) | 88\|(93) | 2\|(11) | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | (13.9)\|13.7 | (93)\|91 | 15.0 | (15.7)\|14.4 | (105)\|96 | (12)\|5 | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 15.0 | 13.4\|(13.7) | 89\|(91) | 15.0 | (15.1)\|14.3 | (101)\|95 | (12)\|4 | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | 6.63J\|(8.87J) | 44\|(59) | 15.0 | 6.74J\|(9.71) | 45\|(65) | 2\|(9) | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (14.0)\|11.8 | (93)\|79 | 15.0 | (15.4)\|13.4 | (103)\|89 | (10)\|13 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | (15.6)\|14.1 | (104)\|94 | 15.0 | (16.3)\|15.4 | (109)\|103 | (4)\|9 | 60-160 | 50 |
| Dinoseb | (ND)\|ND | 15.0 | (9.06)\|8.00 | (60)\|53 | 15.0 | (10.1)\|7.65 | (67)\|51 | (11)\|4 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (709)\|562 | (95)\|75 | 750 | (745)\|624 | (99)\|83 | (5)\|10 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | (634)\|476 | (85)\|63 | 750 | (674)\|590 | (90)\|79 | (6)\|21 | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 (157.4)\|120.6 | (105)\|80.4 | 150.0 | (172.7)\|134.0 | (115)\|89.4 | 10-150 | |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/11/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/11/12 |
| Batch No. : 12D106 | Date Extracted: 04/16/12 19:08 |
| Sample ID: SL-004-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 00:56 |
| Lab Samp ID: D106-01 | Dilution Factor: 1 |
| Lab File ID: XD17025A | Matrix : SOIL |
| Ext Btch ID: EXD012S | % Moisture : NA |
| Calib. Ref.: XD17022A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1930 | 2000 | 96.3 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D106 | Date Extracted: 04/16/12 19:08 |
| Sample ID: MBLK1S | Date Analyzed: 04/17/12 17:33 |
| Lab Samp ID: EXD012SB | Dilution Factor: 1 |
| Lab File ID: XD17012A | Matrix : SOIL |
| Ext Btch ID: EXD012S | % Moisture : NA |
| Calib. Ref.: XD17011A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1910 | 2000 | 95.7 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: METHOD 8330A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD012SB | EXD012SL | EXD012SC | | |
| LAB FILE ID: | XD17012A | XD17013A | XD17014A | | |
| DATE EXTRACTED: | 04/16/1219:08 | 04/16/1219:08 | 04/16/1219:08 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/17/1217:33 | 04/17/1218:07 | 04/17/1218:41 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | EXD012S | EXD012S | EXD012S | | |
| CALIB. REF: | XD17011A | XD17011A | XD17011A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 1800 | 90 | 2000 | 1840 | 92 | 2 | 70-130 | 50 |
| RDX | ND | 2000 | 1980 | 99 | 2000 | 1940 | 97 | 2 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2140 | 107 | 2000 | 2150 | 107 | 0 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2100 | 105 | 2000 | 2120 | 106 | 1 | 70-130 | 50 |
| Tetryl | ND | 2000 | 1950 | 97 | 2000 | 1900 | 95 | 2 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 2180 | 109 | 2000 | 2190 | 110 | 1 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 1810 | 90 | 2000 | 1900 | 95 | 5 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 1920 | 96 | 2000 | 1900 | 95 | 1 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 1980 | 99 | 2000 | 1870 | 94 | 5 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2080 | 104 | 2000 | 2070 | 103 | 1 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2140 | 107 | 2000 | 2150 | 108 | 0 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 1780 | 89 | 2000 | 2200 | 110 | 21 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1930 | 97 | 2000 | 1780 | 89 | 8 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 1950 | 97 | 2000 | 1970 | 99 | 1 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1930 | 97 | 2000 | 1940 | 97 | 0 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2080 | 104 | 2000 | 2090 | 104 | 0 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1940 | 97 | 2000 | 1900 | 95 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/11/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/11/12 |
| Batch No. | : 12D106 | Date Extracted | : 04/16/12 19:08 |
| Sample ID | : SL-004-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/17/12 18:42 |
| Lab Samp ID | : D106-01 | Dilution Factor | : 1 |
| Lab File ID | : PD17022A | Matrix | : SOIL |
| Ext Btch ID | : EXD012S | % Moisture | : NA |
| Calib. Ref. | : PD17019A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2400 | 2000 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D106 | Date Extracted: 04/16/12 19:08 |
| Sample ID: MBLK1S | Date Analyzed: 04/17/12 15:45 |
| Lab Samp ID: EXD012SB | Dilution Factor: 1 |
| Lab File ID: PD17009A | Matrix : SOIL |
| Ext Btch ID: EXD012S | % Moisture : NA |
| Calib. Ref.: PD17008A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2350 | 2000 | 117 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: Method 8332

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD012SB | EXD012SX | EXD012SY | | |
| LAB FILE ID: | PD17009A | PD17010A | PD17011A | | |
| DATE EXTRACTED: | 04/16/1219:08 | 04/16/1219:08 | 04/16/1219:08 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/17/1215:45 | 04/17/1215:59 | 04/17/1216:12 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | EXD012S | EXD012S | EXD012S | | |
| CALIB. REF: | PD17008A | PD17008A | PD17008A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 6940 | 92 | 7500 | 7670 | 102 | 10 | 50-150 | 50 |
| PETN | ND | 7500 | 6930 | 92 | 7500 | 7410 | 99 | 7 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2320 | 116 | 2000 | 2350 | 118 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/11/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/11/12 |
| SDG NO. | : 12D106 | Date Extracted | : 04/20/12 10:35 |
| Sample ID | : SL-004-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 18:16 |
| Lab Samp ID | : D106-01W | Dilution Factor | : 0.985 |
| Lab File ID | : 98D19067 | Matrix | : SOIL |
| Ext Btch ID | : IMD030S | % Moisture | : 18.4 |
| Calib. Ref. | : 98D19065 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10600 | 29.0 | 14.5 |
| Antimony | 0.174J | 0.241 | 0.121 |
| Arsenic | 3.70 | 0.483 | 0.241 |
| Barium | 79.9 | 0.483 | 0.241 |
| Beryllium | 0.397 | 0.121 | 0.0604 |
| Boron | ND | 6.04 | 3.02 |
| Cadmium | 0.215 | 0.121 | 0.0604 |
| Calcium | 3030 | 24.1 | 12.1 |
| Chromium | 11.3 | 0.483 | 0.241 |
| Cobalt | 4.45 | 0.121 | 0.0604 |
| Copper | 6.43 | 0.483 | 0.241 |
| Iron | 17300 | 24.1 | 12.1 |
| Lead | 8.22 | 0.241 | 0.121 |
| Magnesium | 4110 | 12.1 | 6.04 |
| Manganese | 261 | 0.604 | 0.302 |
| Molybdenum | 0.383 | 0.121 | 0.0604 |
| Nickel | 7.97 | 0.483 | 0.241 |
| Potassium | 3460 | 72.4 | 36.2 |
| Selenium | ND | 0.483 | 0.241 |
| Silver | ND | 0.121 | 0.0604 |
| Sodium | ND | 121 | 60.4 |
| Strontium | 14.1 | 0.604 | 0.302 |
| Thallium | 0.244 | 0.121 | 0.0604 |
| Tin | ND | 12.1 | 6.04 |
| Titanium | 852 | 1.21 | 0.604 |
| Vanadium | 25.6 | 0.121 | 0.0604 |
| Zinc | 57.3 | 3.62 | 1.81 |
| Lithium | 25.5 | 2.41 | 1.21 |
| Phosphorus | 513 | 14.5 | 7.24 |
| Zirconium | ND | 6.04 | 3.02 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/11/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/11/12 |
| SDG NO. | : 12D106 | Date Extracted | : 04/20/12 10:35 |
| Sample ID | : SL-145-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 18:21 |
| Lab Samp ID | : D106-02W | Dilution Factor | : 0.990 |
| Lab File ID | : 98D19068 | Matrix | : SOIL |
| Ext Btch ID | : IMD030S | % Moisture | : 21.2 |
| Calib. Ref. | : 98D19065 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 20200 | 30.2 | 15.1 |
| Antimony | 0.257 | 0.251 | 0.126 |
| Arsenic | 11.5 | 0.503 | 0.251 |
| Barium | 149 | 0.503 | 0.251 |
| Beryllium | 0.945 | 0.126 | 0.0628 |
| Boron | 4.24J | 6.28 | 3.14 |
| Cadmium | 0.316 | 0.126 | 0.0628 |
| Calcium | 5300 | 25.1 | 12.6 |
| Chromium | 25.0 | 0.503 | 0.251 |
| Cobalt | 9.25 | 0.126 | 0.0628 |
| Copper | 15.7 | 0.503 | 0.251 |
| Iron | 30100 | 25.1 | 12.6 |
| Lead | 14.1 | 0.251 | 0.126 |
| Magnesium | 6650 | 12.6 | 6.28 |
| Manganese | 387 | 0.628 | 0.314 |
| Molybdenum | 0.686 | 0.126 | 0.0628 |
| Nickel | 19.2 | 0.503 | 0.251 |
| Potassium | 6090 | 75.4 | 37.7 |
| Selenium | 0.365J | 0.503 | 0.251 |
| Silver | 0.0947J | 0.126 | 0.0628 |
| Sodium | ND | 126 | 62.8 |
| Strontium | 32.5 | 0.628 | 0.314 |
| Thallium | 0.417 | 0.126 | 0.0628 |
| Tin | ND | 12.6 | 6.28 |
| Titanium | 1040 | 1.26 | 0.628 |
| Vanadium | 48.3 | 0.126 | 0.0628 |
| Zinc | 85.1 | 3.77 | 1.88 |
| Lithium | 32.6 | 2.51 | 1.26 |
| Phosphorus | 523 | 15.1 | 7.54 |
| Zirconium | ND | 6.28 | 3.14 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/11/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/11/12 |
| SDG NO. | : 12D106 | Date Extracted | : 04/20/12 10:35 |
| Sample ID | : SL-148-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 18:25 |
| Lab Samp ID | : D106-03W | Dilution Factor | : 0.995 |
| Lab File ID | : 98D19069 | Matrix | : SOIL |
| Ext Btch ID | : IMD030S | % Moisture | : 18.2 |
| Calib. Ref. | : 98D19065 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 21600 | 29.2 | 14.6 |
| Antimony | 0.301 | 0.243 | 0.122 |
| Arsenic | 10.9 | 0.487 | 0.243 |
| Barium | 131 | 0.487 | 0.243 |
| Beryllium | 1.09 | 0.122 | 0.0608 |
| Boron | 3.35J | 6.08 | 3.04 |
| Cadmium | 0.285 | 0.122 | 0.0608 |
| Calcium | 4140 | 24.3 | 12.2 |
| Chromium | 25.9 | 0.487 | 0.243 |
| Cobalt | 10.1 | 0.122 | 0.0608 |
| Copper | 18.3 | 0.487 | 0.243 |
| Iron | 33500 | 24.3 | 12.2 |
| Lead | 15.0 | 0.243 | 0.122 |
| Magnesium | 7530 | 12.2 | 6.08 |
| Manganese | 361 | 0.608 | 0.304 |
| Molybdenum | 0.672 | 0.122 | 0.0608 |
| Nickel | 18.8 | 0.487 | 0.243 |
| Potassium | 4630 | 73.0 | 36.5 |
| Selenium | 0.350J | 0.487 | 0.243 |
| Silver | 0.0914J | 0.122 | 0.0608 |
| Sodium | 77.4J | 122 | 60.8 |
| Strontium | 25.8 | 0.608 | 0.304 |
| Thallium | 0.446 | 0.122 | 0.0608 |
| Tin | ND | 12.2 | 6.08 |
| Titanium | 907 | 1.22 | 0.608 |
| Vanadium | 51.6 | 0.122 | 0.0608 |
| Zinc | 97.1 | 3.65 | 1.82 |
| Lithium | 38.6 | 2.43 | 1.22 |
| Phosphorus | 499 | 14.6 | 7.30 |
| Zirconium | ND | 6.08 | 3.04 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/11/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/11/12 |
| SDG NO. | : 12D106 | Date Extracted | : 04/20/12 10:35 |
| Sample ID | : SL-154-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 18:30 |
| Lab Samp ID | : D106-04W | Dilution Factor | : 0.957 |
| Lab File ID | : 98D19070 | Matrix | : SOIL |
| Ext Btch ID | : IMD030S | % Moisture | : 25.2 |
| Calib. Ref. | : 98D19065 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12900 | 30.7 | 15.4 |
| Antimony | 0.215J | 0.256 | 0.128 |
| Arsenic | 4.34 | 0.512 | 0.256 |
| Barium | 88.9 | 0.512 | 0.256 |
| Beryllium | 0.431 | 0.128 | 0.0640 |
| Boron | ND | 6.40 | 3.20 |
| Cadmium | 0.264 | 0.128 | 0.0640 |
| Calcium | 2340 | 25.6 | 12.8 |
| Chromium | 14.2 | 0.512 | 0.256 |
| Cobalt | 4.97 | 0.128 | 0.0640 |
| Copper | 6.97 | 0.512 | 0.256 |
| Iron | 19600 | 25.6 | 12.8 |
| Lead | 12.3 | 0.256 | 0.128 |
| Magnesium | 5200 | 12.8 | 6.40 |
| Manganese | 287 | 0.640 | 0.320 |
| Molybdenum | 0.586 | 0.128 | 0.0640 |
| Nickel | 9.72 | 0.512 | 0.256 |
| Potassium | 2840 | 76.8 | 38.4 |
| Selenium | ND | 0.512 | 0.256 |
| Silver | ND | 0.128 | 0.0640 |
| Sodium | 67.2J | 128 | 64.0 |
| Strontium | 17.0 | 0.640 | 0.320 |
| Thallium | 0.244 | 0.128 | 0.0640 |
| Tin | ND | 12.8 | 6.40 |
| Titanium | 979 | 1.28 | 0.640 |
| Vanadium | 30.6 | 0.128 | 0.0640 |
| Zinc | 61.2 | 3.84 | 1.92 |
| Lithium | 26.1 | 2.56 | 1.28 |
| Phosphorus | 503 | 15.4 | 7.68 |
| Zirconium | ND | 6.40 | 3.20 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/11/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/11/12 |
| SDG NO. | : 12D106 | Date Extracted | : 04/20/12 10:35 |
| Sample ID | : SL-163-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 18:34 |
| Lab Samp ID | : D106-05W | Dilution Factor | : 0.990 |
| Lab File ID | : 98D19071 | Matrix | : SOIL |
| Ext Btch ID | : IMD030S | % Moisture | : 15.4 |
| Calib. Ref. | : 98D19065 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 20800 | 28.1 | 14.0 |
| Antimony | 0.251 | 0.234 | 0.117 |
| Arsenic | 13.8 | 0.468 | 0.234 |
| Barium | 148 | 0.468 | 0.234 |
| Beryllium | 0.987 | 0.117 | 0.0585 |
| Boron | ND | 5.85 | 2.93 |
| Cadmium | 0.270 | 0.117 | 0.0585 |
| Calcium | 4890 | 23.4 | 11.7 |
| Chromium | 26.3 | 0.468 | 0.234 |
| Cobalt | 9.37 | 0.117 | 0.0585 |
| Copper | 17.4 | 0.468 | 0.234 |
| Iron | 30200 | 23.4 | 11.7 |
| Lead | 11.4 | 0.234 | 0.117 |
| Magnesium | 7120 | 11.7 | 5.85 |
| Manganese | 438 | 0.585 | 0.293 |
| Molybdenum | 0.644 | 0.117 | 0.0585 |
| Nickel | 18.1 | 0.468 | 0.234 |
| Potassium | 3640 | 70.2 | 35.1 |
| Selenium | 0.319J | 0.468 | 0.234 |
| Silver | 0.0936J | 0.117 | 0.0585 |
| Sodium | 96.2J | 117 | 58.5 |
| Strontium | 26.0 | 0.585 | 0.293 |
| Thallium | 0.426 | 0.117 | 0.0585 |
| Tin | ND | 11.7 | 5.85 |
| Titanium | 1040 | 1.17 | 0.585 |
| Vanadium | 49.6 | 0.117 | 0.0585 |
| Zinc | 87.3 | 3.51 | 1.76 |
| Lithium | 32.8 | 2.34 | 1.17 |
| Phosphorus | 375 | 14.0 | 7.02 |
| Zirconium | ND | 5.85 | 2.93 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/11/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/11/12 |
| SDG NO. | : 12D106 | Date Extracted | : 04/20/12 10:35 |
| Sample ID | : SL-168-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 18:39 |
| Lab Samp ID | : D106-06W | Dilution Factor | : 0.957 |
| Lab File ID | : 98D19072 | Matrix | : SOIL |
| Ext Btch ID | : IMD030S | % Moisture | : 10.7 |
| Calib. Ref. | : 98D19065 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10300 | 25.7 | 12.9 |
| Antimony | ND | 0.214 | 0.107 |
| Arsenic | 3.17 | 0.429 | 0.214 |
| Barium | 69.3 | 0.429 | 0.214 |
| Beryllium | 0.336 | 0.107 | 0.0536 |
| Boron | ND | 5.36 | 2.68 |
| Cadmium | 0.137 | 0.107 | 0.0536 |
| Calcium | 1920 | 21.4 | 10.7 |
| Chromium | 9.53 | 0.429 | 0.214 |
| Cobalt | 3.84 | 0.107 | 0.0536 |
| Copper | 4.10 | 0.429 | 0.214 |
| Iron | 16600 | 21.4 | 10.7 |
| Lead | 5.73 | 0.214 | 0.107 |
| Magnesium | 3860 | 10.7 | 5.36 |
| Manganese | 245 | 0.536 | 0.268 |
| Molybdenum | 0.252 | 0.107 | 0.0536 |
| Nickel | 5.31 | 0.429 | 0.214 |
| Potassium | 2640 | 64.3 | 32.2 |
| Selenium | ND | 0.429 | 0.214 |
| Silver | ND | 0.107 | 0.0536 |
| Sodium | ND | 107 | 53.6 |
| Strontium | 9.20 | 0.536 | 0.268 |
| Thallium | 0.220 | 0.107 | 0.0536 |
| Tin | ND | 10.7 | 5.36 |
| Titanium | 953 | 1.07 | 0.536 |
| Vanadium | 24.4 | 0.107 | 0.0536 |
| Zinc | 51.6 | 3.22 | 1.61 |
| Lithium | 28.0 | 2.14 | 1.07 |
| Phosphorus | 376 | 12.9 | 6.43 |
| Zirconium | ND | 5.36 | 2.68 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/11/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/11/12 |
| SDG NO. | : 12D106 | Date Extracted | : 04/20/12 10:35 |
| Sample ID | : SL-176-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 18:44 |
| Lab Samp ID | : D106-07W | Dilution Factor | : 0.995 |
| Lab File ID | : 98D19073 | Matrix | : SOIL |
| Ext Btch ID | : IMD030S | % Moisture | : 14.6 |
| Calib. Ref. | : 98D19065 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 18400 | 28.0 | 14.0 |
| Antimony | 0.229J | 0.233 | 0.117 |
| Arsenic | 9.11 | 0.466 | 0.233 |
| Barium | 115 | 0.466 | 0.233 |
| Beryllium | 0.945 | 0.117 | 0.0583 |
| Boron | ND | 5.83 | 2.91 |
| Cadmium | 0.379 | 0.117 | 0.0583 |
| Calcium | 5170 | 23.3 | 11.7 |
| Chromium | 25.4 | 0.466 | 0.233 |
| Cobalt | 11.1 | 0.117 | 0.0583 |
| Copper | 19.8 | 0.466 | 0.233 |
| Iron | 34100 | 23.3 | 11.7 |
| Lead | 14.2 | 0.233 | 0.117 |
| Magnesium | 8730 | 11.7 | 5.83 |
| Manganese | 480 | 0.583 | 0.291 |
| Molybdenum | 0.531 | 0.117 | 0.0583 |
| Nickel | 20.7 | 0.466 | 0.233 |
| Potassium | 4310 | 69.9 | 35.0 |
| Selenium | 0.256J | 0.466 | 0.233 |
| Silver | 0.145 | 0.117 | 0.0583 |
| Sodium | 103J | 117 | 58.3 |
| Strontium | 22.2 | 0.583 | 0.291 |
| Thallium | 0.430 | 0.117 | 0.0583 |
| Tin | ND | 11.7 | 5.83 |
| Titanium | 927 | 1.17 | 0.583 |
| Vanadium | 48.2 | 0.117 | 0.0583 |
| Zinc | 112 | 3.50 | 1.75 |
| Lithium | 53.8 | 2.33 | 1.17 |
| Phosphorus | 879 | 14.0 | 6.99 |
| Zirconium | 4.00J | 5.83 | 2.91 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/11/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/11/12 |
| SDG NO. | : 12D106 | Date Extracted | : 04/20/12 10:35 |
| Sample ID | : SL-182-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 18:48 |
| Lab Samp ID | : D106-08W | Dilution Factor | : 0.966 |
| Lab File ID | : 98D19074 | Matrix | : SOIL |
| Ext Btch ID | : IMD030S | % Moisture | : 14.3 |
| Calib. Ref. | : 98D19065 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12600 | 27.1 | 13.5 |
| Antimony | 0.201J | 0.225 | 0.113 |
| Arsenic | 4.51 | 0.451 | 0.225 |
| Barium | 134 | 0.451 | 0.225 |
| Beryllium | 0.485 | 0.113 | 0.0564 |
| Boron | ND | 5.64 | 2.82 |
| Cadmium | 0.311 | 0.113 | 0.0564 |
| Calcium | 4090 | 22.5 | 11.3 |
| Chromium | 13.3 | 0.451 | 0.225 |
| Cobalt | 5.47 | 0.113 | 0.0564 |
| Copper | 8.99 | 0.451 | 0.225 |
| Iron | 20100 | 22.5 | 11.3 |
| Lead | 9.78 | 0.225 | 0.113 |
| Magnesium | 4680 | 11.3 | 5.64 |
| Manganese | 343 | 0.564 | 0.282 |
| Molybdenum | 0.503 | 0.113 | 0.0564 |
| Nickel | 10.0 | 0.451 | 0.225 |
| Potassium | 4710 | 67.6 | 33.8 |
| Selenium | 0.231J | 0.451 | 0.225 |
| Silver | ND | 0.113 | 0.0564 |
| Sodium | ND | 113 | 56.4 |
| Strontium | 26.3 | 0.564 | 0.282 |
| Thallium | 0.259 | 0.113 | 0.0564 |
| Tin | ND | 11.3 | 5.64 |
| Titanium | 866 | 1.13 | 0.564 |
| Vanadium | 29.4 | 0.113 | 0.0564 |
| Zinc | 69.5 | 3.38 | 1.69 |
| Lithium | 25.0 | 2.25 | 1.13 |
| Phosphorus | 651 | 13.5 | 6.76 |
| Zirconium | ND | 5.64 | 2.82 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| SDG NO. : 12D106 | Date Extracted: 04/20/12 10:35 |
| Sample ID: MBLK1S | Date Analyzed: 04/26/12 23:46 |
| Lab Samp ID: IMD030SB | Dilution Factor: 1 |
| Lab File ID: 98D18097 | Matrix : SOIL |
| Ext Btch ID: IMD030S | % Moisture : NA |
| Calib. Ref.: 98D18095 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D106
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: NA
DILTN FACTR: 1 1 1
SAMPLE ID: MBLK1S
CONTROL NO.: IMD030SB IMD030SL IMD030SC
LAB FILE ID: 98D18097 98D18098 98D18099
DATIME EXTRCTD: 04/20/1210:35 04/20/1210:35 04/20/1210:35 DATE COLLECTED: NA
DATIME ANALYZD: 04/26/1223:46 04/26/1223:50 04/26/1223:55 DATE RECEIVED: 04/20/12
PREP. BATCH: IMD030S IMD030S IMD030S
CALIB. REF: 98D18095 98D18095 98D18095

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2810 | 112 | 2500 | 2650 | 106 | 6 | 80-120 | 20 |
| Antimony | ND | 25.0 | 27.0 | 108 | 25.0 | 25.3 | 101 | 6 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 25.8 | 103 | 25.0 | 24.4 | 98 | 6 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.7 | 103 | 25.0 | 24.3 | 97 | 6 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 24.2 | 97 | 25.0 | 22.7 | 91 | 6 | 80-120 | 20 |
| Boron | ND | 25.0 | 24.8 | 99 | 25.0 | 23.8 | 95 | 5 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 25.4 | 102 | 25.0 | 24.2 | 97 | 5 | 80-120 | 20 |
| Calcium | ND | 2500 | 2650 | 106 | 2500 | 2500 | 100 | 6 | 80-120 | 20 |
| Chromium | ND | 25.0 | 25.1 | 101 | 25.0 | 23.4 | 94 | 7 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 25.6 | 102 | 25.0 | 24.1 | 96 | 6 | 80-120 | 20 |
| Copper | ND | 25.0 | 24.6 | 99 | 25.0 | 23.1 | 93 | 6 | 80-120 | 20 |
| Iron | ND | 2500 | 2660 | 106 | 2500 | 2490 | 100 | 6 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.1 | 100 | 25.0 | 24.3 | 97 | 3 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2780 | 111 | 2500 | 2620 | 105 | 6 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.8 | 103 | 25.0 | 23.8 | 95 | 8 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 26.3 | 105 | 25.0 | 25.1 | 100 | 5 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.6 | 98 | 25.0 | 23.2 | 93 | 6 | 80-120 | 20 |
| Potassium | ND | 2500 | 2720 | 109 | 2500 | 2620 | 105 | 4 | 80-120 | 20 |
| Selenium | ND | 25.0 | 25.5 | 102 | 25.0 | 24.3 | 97 | 5 | 80-120 | 20 |
| Silver | ND | 25.0 | 26.1 | 104 | 25.0 | 25.2 | 101 | 4 | 80-120 | 20 |
| Sodium | ND | 2500 | 2610 | 104 | 2500 | 2480 | 99 | 5 | 80-120 | 20 |
| Strontium | ND | 25.0 | 26.1 | 104 | 25.0 | 24.6 | 98 | 6 | 80-120 | 20 |
| Thallium | ND | 25.0 | 26.0 | 104 | 25.0 | 25.6 | 102 | 2 | 80-120 | 20 |
| Tin | ND | 25.0 | 28.8 | 115 | 25.0 | 27.6 | 111 | 4 | 80-120 | 20 |
| Titanium | ND | 25.0 | 27.1 | 108 | 25.0 | 25.2 | 101 | 7 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 25.6 | 103 | 25.0 | 24.2 | 97 | 6 | 80-120 | 20 |
| Zinc | ND | 50.0 | 50.0 | 100 | 50.0 | 48.2 | 96 | 4 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.9 | 104 | 25.0 | 24.3 | 97 | 6 | 80-120 | 20 |
| Phosphorus | ND | 250 | 265 | 106 | 250 | 255 | 102 | 4 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 25.6 | 102 | 25.0 | 24.3 | 97 | 5 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D106
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 16.5
DILTN FACTR: 0.952 0.952
SAMPLE ID: SL-183-NBZ-SS-0.0-0.5
CONTROL NO.: D135-02 D135-02A
LAB FILE ID: 98D18103 98D18102
DATIME EXTRCTD: 04/20/1210:35 04/20/1210:35 DATE COLLECTED: 04/13/12
DATIME ANALYZD: 04/27/1200:13 04/27/1200:08 DATE RECEIVED: 04/13/12
PREP. BATCH: IMD030S IMD030S
CALIB. REF: 98D18095 98D18095

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 11000 | 2850 | 14000 | 105 | 75-125 |
| Antimony | 0.183J | 28.5 | 29.2 | 102 | 75-125 |
| Arsenic | 6.15 | 28.5 | 33.5 | 96 | 75-125 |
| Barium | 74.6 | 28.5 | 105 | 107 | 75-125 |
| Beryllium | 0.407 | 28.5 | 26.9 | 93 | 75-125 |
| Boron | ND | 28.5 | 28.4 | 100 | 75-125 |
| Cadmium | 0.153 | 28.5 | 27.8 | 97 | 75-125 |
| Calcium | 2330 | 2850 | 5140 | 99 | 75-125 |
| Chromium | 13.7 | 28.5 | 39.5 | 91 | 75-125 |
| Cobalt | 5.07 | 28.5 | 30.7 | 90 | 75-125 |
| Copper | 6.36 | 28.5 | 31.5 | 88 | 75-125 |
| Iron | 18400 | 2850 | 21400 | 105 | 75-125 |
| Lead | 7.33 | 28.5 | 34.2 | 94 | 75-125 |
| Magnesium | 5180 | 2850 | 8070 | 101 | 75-125 |
| Manganese | 308 | 28.5 | 329 | 74* | 75-125 |
| Molybdenum | 0.433 | 28.5 | 29.6 | 102 | 75-125 |
| Nickel | 9.08 | 28.5 | 34.2 | 88 | 75-125 |
| Potassium | 3620 | 2850 | 6410 | 98 | 75-125 |
| Selenium | ND | 28.5 | 27.9 | 98 | 75-125 |
| Silver | ND | 28.5 | 28.1 | 98 | 75-125 |
| Sodium | ND | 2850 | 2680 | 94 | 75-125 |
| Strontium | 10.6 | 28.5 | 38.8 | 99 | 75-125 |
| Thallium | 0.245 | 28.5 | 28.0 | 97 | 75-125 |
| Tin | ND | 28.5 | 32.3 | 113 | 75-125 |
| Titanium | 963 | 28.5 | 996 | 114 | 75-125 |
| Vanadium | 30.3 | 28.5 | 57.8 | 97 | 75-125 |
| Zinc | 50.7 | 57.0 | 105 | 95 | 75-125 |
| Lithium | 28.6 | 28.5 | 57.6 | 102 | 75-125 |
| Phosphorus | 348 | 285 | 641 | 103 | 75-125 |
| Zirconium | ND | 28.5 | 26.8 | 94 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 16.5
DILUTION FACTOR: 0.952 4.76
SAMPLE ID: SL-183-NBZ-SS- SL-183-NBZ-SS-
EMAX SAMP ID: D135-02 D135-02J
LAB FILE ID: 98D18103 98D18104
DATE EXTRACTED: 04/20/1210:35 04/20/1210:35 DATE COLLECTED: 04/13/12
DATE ANALYZED: 04/27/1200:13 04/27/1200:17 DATE RECEIVED: 04/13/12
PREP. BATCH: IMD030S IMD030S
CALIB. REF: 98D18095 98D18095

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 11000 | 11100 | 1 | 10 |
| Antimony | 0.183J | ND | NA | 10 |
| Arsenic | 6.15 | 6.21 | 1 | 10 |
| Barium | 74.6 | 68.1 | 9 | 10 |
| Beryllium | 0.407 | 0.385J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.153 | ND | NA | 10 |
| Calcium | 2330 | 2330 | 0 | 10 |
| Chromium | 13.7 | 13.9 | 1 | 10 |
| Cobalt | 5.07 | 5.22 | 3 | 10 |
| Copper | 6.36 | 6.65 | 5 | 10 |
| Iron | 18400 | 18900 | 3 | 10 |
| Lead | 7.33 | 7.13 | 3 | 10 |
| Magnesium | 5180 | 5190 | 0 | 10 |
| Manganese | 308 | 314 | 2 | 10 |
| Molybdenum | 0.433 | 0.451J | NA | 10 |
| Nickel | 9.08 | 9.30 | 2 | 10 |
| Potassium | 3620 | 3480 | 4 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | ND | ND | 0 | 10 |
| Strontium | 10.6 | 10.1 | 5 | 10 |
| Thallium | 0.245 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 963 | 973 | 1 | 10 |
| Vanadium | 30.3 | 30.4 | 0 | 10 |
| Zinc | 50.7 | 53.7 | 6 | 10 |
| Lithium | 28.6 | 26.6 | 7 | 10 |
| Phosphorus | 348 | 321 | 8 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D106
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD021SB | ND | 1 | NA | 0.100 | 0.0500 | 04/20/1216:16 | 04/20/1212:45 | M47D014041 | M47D014032 | HGD021S | NA | 04/20/12 |
| LCS1S | HGD021SL | 0.877 | 1 | NA | 0.100 | 0.0500 | 04/20/1216:19 | 04/20/1212:45 | M47D014042 | M47D014032 | HGD021S | NA | 04/20/12 |
| LCD1S | HGD021SC | 0.878 | 1 | NA | 0.100 | 0.0500 | 04/20/1216:21 | 04/20/1212:45 | M47D014043 | M47D014032 | HGD021S | NA | 04/20/12 |
| SL-004-NBZ-SS-0.0-0.5 | D106-01 | ND | 0.993 | 18.4 | 0.122 | 0.0608 | 04/20/1216:55 | 04/20/1212:45 | M47D014059 | M47D014056 | HGD021S | 04/11/12 | 04/11/12 |
| SL-145-NBZ-SS-0.0-0.5 | D106-02 | ND | 1.00 | 21.2 | 0.127 | 0.0635 | 04/20/1216:57 | 04/20/1212:45 | M47D014060 | M47D014056 | HGD021S | 04/11/12 | 04/11/12 |
| SL-148-NBZ-SS-0.0-0.5 | D106-03 | ND | 1.01 | 18.2 | 0.123 | 0.0617 | 04/20/1217:00 | 04/20/1212:45 | M47D014061 | M47D014056 | HGD021S | 04/11/12 | 04/11/12 |
| SL-154-NBZ-SS-0.0-0.5 | D106-04 | ND | 0.997 | 25.2 | 0.133 | 0.0666 | 04/20/1217:02 | 04/20/1212:45 | M47D014062 | M47D014056 | HGD021S | 04/11/12 | 04/11/12 |
| SL-163-NBZ-SS-0.0-0.5 | D106-05 | ND | 1.00 | 15.4 | 0.118 | 0.0591 | 04/20/1217:04 | 04/20/1212:45 | M47D014063 | M47D014056 | HGD021S | 04/11/12 | 04/11/12 |
| SL-168-NBZ-SS-0.0-0.5 | D106-06 | ND | 1.00 | 10.7 | 0.112 | 0.0560 | 04/20/1217:06 | 04/20/1212:45 | M47D014064 | M47D014056 | HGD021S | 04/11/12 | 04/11/12 |
| SL-176-NBZ-SS-0.0-0.5 | D106-07 | ND | 0.997 | 14.6 | 0.117 | 0.0584 | 04/20/1217:08 | 04/20/1212:45 | M47D014065 | M47D014056 | HGD021S | 04/11/12 | 04/11/12 |
| SL-182-NBZ-SS-0.0-0.5 | D106-08 | ND | 0.992 | 14.3 | 0.116 | 0.0579 | 04/20/1217:10 | 04/20/1212:45 | M47D014066 | M47D014056 | HGD021S | 04/11/12 | 04/11/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D106
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGD021SB | HGD021SL | HGD021SC | | |
| LAB FILE ID: | M47D014041 | M47D014042 | M47D014043 | | |
| DATIME EXTRCTD: | 04/20/1212:45 | 04/20/1212:45 | 04/20/1212:45 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/20/1216:16 | 04/20/1216:19 | 04/20/1216:21 | DATE RECEIVED: | 04/20/12 |
| PREP. BATCH: | HGD021S | HGD021S | HGD021S | | |
| CALIB. REF: | M47D014032 | M47D014032 | M47D014032 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .877 | 105 | .833 | .878 | 105 | 0 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D106
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 13.6 |
| DILTN FACTR: | 1.00 | 1.00 | | |
| SAMPLE ID: | SL-009-NBZ-SS-0.0-0.5 | | | |
| CONTROL NO.: | D092-01 | D092-01A | | |
| LAB FILE ID: | M47D014047 | M47D014046 | | |
| DATIME EXTRCTD: | 04/20/1212:45 | 04/20/1212:45 | DATE COLLECTED: | 04/10/12 |
| DATIME ANALYZD: | 04/20/1216:29 | 04/20/1216:27 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | HGD021S | HGD021S | | |
| CALIB. REF: | M47D014044 | M47D014044 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | .0631J | .964 | 1.05 | 102 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 13.6

| | | | | |
|---|---|---|---|---|
| DILUTION FACTOR: | 1.00 | 5.02 | | |
| SAMPLE ID: | SL-009-NBZ-SS-0.0-0 | SL-009-NBZ-SS-0.0-0 | | |
| EMAX SAMP ID: | D092-01 | D092-01J | | |
| LAB FILE ID: | M47D014047 | M47D014048 | | |
| DATE EXTRACTED: | 04/20/1212:45 | 04/20/1212:45 | DATE COLLECTED: | 04/10/12 |
| DATE ANALYZED: | 04/20/1216:29 | 04/20/1216:31 | DATE RECEIVED: | 04/10/12 |
| PREP. BATCH: | HGD021S | HGD021S | | |
| CALIB. REF: | M47D014044 | M47D014044 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | 0.0631J | ND | NA | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D106
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD008SB | ND | 1 | NA | 1.00 | 0.500 | 04/16/1214:03 | 04/16/1210:24 | AD21-08 | AD21-06 | ICD008S | NA | 04/16/12 |
| LCS1S | ICD008SL | 5.99 | 1 | NA | 1.00 | 0.500 | 04/16/1214:19 | 04/16/1210:24 | AD21-09 | AD21-06 | ICD008S | NA | 04/16/12 |
| LCD1S | ICD008SC | 6.01 | 1 | NA | 1.00 | 0.500 | 04/16/1214:36 | 04/16/1210:24 | AD21-10 | AD21-06 | ICD008S | NA | 04/16/12 |
| SL-004-NBZ-SS-0.0-0.5 | D106-01 | 0.650J | 1 | 18.4 | 1.23 | 0.613 | 04/16/1214:52 | 04/16/1210:24 | AD21-11 | AD21-06 | ICD008S | 04/11/1209:12 | 04/11/12 |
| SL-154-NBZ-SS-0.0-0.5 | D106-04 | ND | 1 | 25.2 | 1.34 | 0.668 | 04/16/1215:08 | 04/16/1210:24 | AD21-12 | AD21-06 | ICD008S | 04/11/1210:06 | 04/11/12 |
| SL-168-NBZ-SS-0.0-0.5 | D106-06 | ND | 1 | 10.7 | 1.12 | 0.560 | 04/16/1215:24 | 04/16/1210:24 | AD21-13 | AD21-06 | ICD008S | 04/11/1209:38 | 04/11/12 |
| SL-182-NBZ-SS-0.0-0.5 | D106-08 | ND | 1 | 14.3 | 1.17 | 0.583 | 04/16/1215:40 | 04/16/1210:24 | AD21-14 | AD21-06 | ICD008S | 04/11/1210:41 | 04/11/12 |
| SL-145-NBZ-SS-0.0-0.5 | D106-02 | ND | 1 | 21.2 | 1.27 | 0.635 | 04/16/1217:17 | 04/16/1210:24 | AD21-20 | AD21-18 | ICD008S | 04/11/1214:35 | 04/11/12 |
| SL-148-NBZ-SS-0.0-0.5 | D106-03 | 1.73 | 1 | 18.2 | 1.22 | 0.611 | 04/16/1218:38 | 04/16/1210:24 | AD21-25 | AD21-18 | ICD008S | 04/11/1214:03 | 04/11/12 |
| SL-163-NBZ-SS-0.0-0.5 | D106-05 | 4.89 | 1 | 15.4 | 1.18 | 0.591 | 04/16/1218:54 | 04/16/1210:24 | AD21-26 | AD21-18 | ICD008S | 04/11/1213:23 | 04/11/12 |
| SL-176-NBZ-SS-0.0-0.5 | D106-07 | 2.58 | 1 | 14.6 | 1.17 | 0.585 | 04/16/1219:10 | 04/16/1210:24 | AD21-27 | AD21-18 | ICD008S | 04/11/1213:48 | 04/11/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD008SB | ICD008SL | ICD008SC | | |
| LAB FILE ID: | AD21-08 | AD21-09 | AD21-10 | | |
| DATE EXTRACTED: | 04/16/1210:24 | 04/16/1210:24 | 04/16/1210:24 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/16/1214:03 | 04/16/1214:19 | 04/16/1214:36 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | ICD008S | ICD008S | ICD008S | | |
| CALIB. REF: | AD21-06 | AD21-06 | AD21-06 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 5.99 | 100 | 6.00 | 6.01 | 100 | 0 | 90-110 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D106

Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD008SB | ND | 1 | NA | 1.50 | 0.750 | 04/16/1214:03 | 04/16/1210:24 | AD21-08 | AD21-06 | ICD008S | NA | 04/16/12 |
| LCS1S | ICD008SL | 26.1 | 1 | NA | 1.50 | 0.750 | 04/16/1214:19 | 04/16/1210:24 | AD21-09 | AD21-06 | ICD008S | NA | 04/16/12 |
| LCD1S | ICD008SC | 26.2 | 1 | NA | 1.50 | 0.750 | 04/16/1214:36 | 04/16/1210:24 | AD21-10 | AD21-06 | ICD008S | NA | 04/16/12 |
| SL-004-NBZ-SS-0.0-0.5 | D106-01 | 12.8 | 1 | 18.4 | 1.84 | 0.919 | 04/16/1214:52 | 04/16/1210:24 | AD21-11 | AD21-06 | ICD008S | 04/11/1209:12 | 04/11/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD008SB | ICD008SL | ICD008SC | | |
| LAB FILE ID: | AD21-08 | AD21-09 | AD21-10 | | |
| DATE EXTRACTED: | 04/16/1210:24 | 04/16/1210:24 | 04/16/1210:24 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/16/1214:03 | 04/16/1214:19 | 04/16/1214:36 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | ICD008S | ICD008S | ICD008S | | |
| CALIB. REF: | AD21-06 | AD21-06 | AD21-06 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 26.1 | 98 | 26.6 | 26.2 | 99 | 0 | 90-110 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D106
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD015SB | ND | 1 | NA | 20.0 | 10.0 | 04/17/1220:29 | 04/16/1210:30 | JD17029 | JD17028 | PCD015S | NA | 04/16/12 |
| LCS1S | PCD015SL | 256 | 1 | NA | 20.0 | 10.0 | 04/17/1221:11 | 04/16/1210:30 | JD17031 | JD17028 | PCD015S | NA | 04/16/12 |
| LCD1S | PCD015SC | 258 | 1 | NA | 20.0 | 10.0 | 04/17/1221:32 | 04/16/1210:30 | JD17032 | JD17028 | PCD015S | NA | 04/16/12 |
| SL-004-NBZ-SS-0.0-0.5 | D106-01 | ND | 1 | 18.4 | 24.5 | 12.3 | 04/17/1221:53 | 04/16/1210:30 | JD17033 | JD17028 | PCD015S | 04/11/1209:12 | 04/11/12 |
| SL-145-NBZ-SS-0.0-0.5 | D106-02 | ND | 1 | 21.2 | 25.4 | 12.7 | 04/17/1222:14 | 04/16/1210:30 | JD17034 | JD17028 | PCD015S | 04/11/1214:35 | 04/11/12 |
| SL-148-NBZ-SS-0.0-0.5 | D106-03 | ND | 1 | 18.2 | 24.4 | 12.2 | 04/17/1222:35 | 04/16/1210:30 | JD17035 | JD17028 | PCD015S | 04/11/1214:03 | 04/11/12 |
| SL-154-NBZ-SS-0.0-0.5 | D106-04 | ND | 1 | 25.2 | 26.7 | 13.4 | 04/17/1222:56 | 04/16/1210:30 | JD17036 | JD17028 | PCD015S | 04/11/1210:06 | 04/11/12 |
| SL-163-NBZ-SS-0.0-0.5 | D106-05 | ND | 1 | 15.4 | 23.6 | 11.8 | 04/17/1223:17 | 04/16/1210:30 | JD17037 | JD17028 | PCD015S | 04/11/1213:23 | 04/11/12 |
| SL-168-NBZ-SS-0.0-0.5 | D106-06 | ND | 1 | 10.7 | 22.4 | 11.2 | 04/18/1200:20 | 04/16/1210:30 | JD17040 | JD17039 | PCD015S | 04/11/1209:38 | 04/11/12 |
| SL-176-NBZ-SS-0.0-0.5 | D106-07 | ND | 1 | 14.6 | 23.4 | 11.7 | 04/18/1200:41 | 04/16/1210:30 | JD17041 | JD17039 | PCD015S | 04/11/1213:48 | 04/11/12 |
| SL-182-NBZ-SS-0.0-0.5 | D106-08 | ND | 1 | 14.3 | 23.3 | 11.7 | 04/18/1201:02 | 04/16/1210:30 | JD17042 | JD17039 | PCD015S | 04/11/1210:41 | 04/11/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD015SB | PCD015SL | PCD015SC | | |
| LAB FILE ID: | JD17029 | JD17031 | JD17032 | | |
| DATE EXTRACTED: | 04/16/1210:30 | 04/16/1210:30 | 04/16/1210:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/17/1220:29 | 04/17/1221:11 | 04/17/1221:32 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | PCD015S | PCD015S | PCD015S | | |
| CALIB. REF: | JD17028 | JD17028 | JD17028 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 256 | 102 | 250 | 258 | 103 | 1 | 85-115 | 15 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D106
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD009SB | ND | 1 | NA | 1.00 | 0.500 | 04/19/1213:47 | 04/17/1213:42 | ID19003 | ID19001 | HCD009S | NA | 04/17/12 |
| MBLK2S | HCD009SQ | ND | 1 | NA | 1.00 | 0.500 | 04/19/1213:57 | 04/17/1213:42 | ID19004 | ID19001 | HCD009S | NA | 04/17/12 |
| LCS1S | CSD009SL | 8.97 | 1 | NA | 1.00 | 0.500 | 04/19/1214:29 | 04/17/1213:42 | ID19005 | ID19001 | HCD009S | NA | 04/17/12 |
| LCS1S | CSD009SX | 8.87 | 1 | NA | 1.00 | 0.500 | 04/19/1214:39 | 04/17/1213:42 | ID19006 | ID19001 | HCD009S | NA | 04/17/12 |
| LCS2S | CID009SL | 309 | 25 | NA | 25.0 | 12.5 | 04/19/1214:49 | 04/17/1213:42 | ID19007 | ID19001 | HCD009S | NA | 04/17/12 |
| LCS2S | CID009SX | 295 | 25 | NA | 25.0 | 12.5 | 04/19/1215:00 | 04/17/1213:42 | ID19008 | ID19001 | HCD009S | NA | 04/17/12 |
| SL-004-NBZ-SS-0.0-0.5MS | D106-01M | 10.7 | 1 | 18.4 | 1.23 | 0.613 | 04/19/1215:15 | 04/17/1213:42 | ID19009 | ID19001 | HCD009S | 04/11/1209:12 | 04/11/12 |
| SL-004-NBZ-SS-0.0-0.5MS | D106-01M1 | 10.6 | 1 | 18.4 | 1.23 | 0.613 | 04/19/1215:26 | 04/17/1213:42 | ID19010 | ID19001 | HCD009S | 04/11/1209:12 | 04/11/12 |
| SL-004-NBZ-SS-0.0-0.5MS | D106-01G | 132 | 10 | 18.4 | 12.3 | 6.13 | 04/19/1215:58 | 04/17/1213:42 | ID19011 | ID19001 | HCD009S | 04/11/1209:12 | 04/11/12 |
| SL-004-NBZ-SS-0.0-0.5MS | D106-01G1 | 133 | 10 | 18.4 | 12.3 | 6.13 | 04/19/1216:09 | 04/17/1213:42 | ID19012 | ID19001 | HCD009S | 04/11/1209:12 | 04/11/12 |
| SL-004-NBZ-SS-0.0-0.5 | D106-01 | ND | 1 | 18.4 | 1.23 | 0.613 | 04/19/1216:40 | 04/17/1213:42 | ID19015 | ID19013 | HCD009S | 04/11/1209:12 | 04/11/12 |
| SL-004-NBZ-SS-0.0-0.5 | D106-01R | ND | 1 | 18.4 | 1.23 | 0.613 | 04/19/1216:50 | 04/17/1213:42 | ID19016 | ID19013 | HCD009S | 04/11/1209:12 | 04/11/12 |
| SL-004-NBZ-SS-0.0-0.5DUP | D106-01D | ND | 1 | 18.4 | 1.23 | 0.613 | 04/19/1217:01 | 04/17/1213:42 | ID19017 | ID19013 | HCD009S | 04/11/1209:12 | 04/11/12 |
| SL-004-NBZ-SS-0.0-0.5DUP | D106-01Z | ND | 1 | 18.4 | 1.23 | 0.613 | 04/19/1217:11 | 04/17/1213:42 | ID19018 | ID19013 | HCD009S | 04/11/1209:12 | 04/11/12 |
| SL-145-NBZ-SS-0.0-0.5 | D106-02 | ND | 1 | 21.2 | 1.27 | 0.635 | 04/19/1217:21 | 04/17/1213:42 | ID19019 | ID19013 | HCD009S | 04/11/1214:35 | 04/11/12 |
| SL-145-NBZ-SS-0.0-0.5 | D106-02R | ND | 1 | 21.2 | 1.27 | 0.635 | 04/19/1217:32 | 04/17/1213:42 | ID19020 | ID19013 | HCD009S | 04/11/1214:35 | 04/11/12 |
| SL-148-NBZ-SS-0.0-0.5 | D106-03 | ND | 1 | 18.2 | 1.22 | 0.611 | 04/19/1217:42 | 04/17/1213:42 | ID19021 | ID19013 | HCD009S | 04/11/1214:03 | 04/11/12 |
| SL-148-NBZ-SS-0.0-0.5 | D106-03R | ND | 1 | 18.2 | 1.22 | 0.611 | 04/19/1217:53 | 04/17/1213:42 | ID19022 | ID19013 | HCD009S | 04/11/1214:03 | 04/11/12 |
| SL-154-NBZ-SS-0.0-0.5 | D106-04 | ND | 1 | 25.2 | 1.34 | 0.668 | 04/19/1218:03 | 04/17/1213:42 | ID19023 | ID19013 | HCD009S | 04/11/1210:06 | 04/11/12 |
| SL-154-NBZ-SS-0.0-0.5 | D106-04R | ND | 1 | 25.2 | 1.34 | 0.668 | 04/19/1218:13 | 04/17/1213:42 | ID19024 | ID19013 | HCD009S | 04/11/1210:06 | 04/11/12 |
| SL-163-NBZ-SS-0.0-0.5 | D106-05 | ND | 1 | 15.4 | 1.18 | 0.591 | 04/19/1218:55 | 04/17/1213:42 | ID19027 | ID19025 | HCD009S | 04/11/1213:23 | 04/11/12 |
| SL-163-NBZ-SS-0.0-0.5 | D106-05R | ND | 1 | 15.4 | 1.18 | 0.591 | 04/19/1219:05 | 04/17/1213:42 | ID19028 | ID19025 | HCD009S | 04/11/1213:23 | 04/11/12 |
| SL-168-NBZ-SS-0.0-0.5 | D106-06 | ND | 1 | 10.7 | 1.12 | 0.560 | 04/19/1219:16 | 04/17/1213:42 | ID19029 | ID19025 | HCD009S | 04/11/1209:38 | 04/11/12 |
| SL-168-NBZ-SS-0.0-0.5 | D106-06R | ND | 1 | 10.7 | 1.12 | 0.560 | 04/19/1219:26 | 04/17/1213:42 | ID19030 | ID19025 | HCD009S | 04/11/1209:38 | 04/11/12 |
| SL-176-NBZ-SS-0.0-0.5 | D106-07 | ND | 1 | 14.6 | 1.17 | 0.585 | 04/19/1219:37 | 04/17/1213:42 | ID19031 | ID19025 | HCD009S | 04/11/1213:48 | 04/11/12 |
| SL-176-NBZ-SS-0.0-0.5 | D106-07R | ND | 1 | 14.6 | 1.17 | 0.585 | 04/19/1219:47 | 04/17/1213:42 | ID19032 | ID19025 | HCD009S | 04/11/1213:48 | 04/11/12 |
| SL-182-NBZ-SS-0.0-0.5 | D106-08 | ND | 1 | 14.3 | 1.17 | 0.583 | 04/19/1219:57 | 04/17/1213:42 | ID19033 | ID19025 | HCD009S | 04/11/1210:41 | 04/11/12 |
| SL-182-NBZ-SS-0.0-0.5 | D106-08R | ND | 1 | 14.3 | 1.17 | 0.583 | 04/19/1220:08 | 04/17/1213:42 | ID19034 | ID19025 | HCD009S | 04/11/1210:41 | 04/11/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 25 | | |
| SAMPLE ID: | MBLK2S | | | |
| LAB SAMP ID: | HCD009SQ | CID009SX | | |
| LAB FILE ID: | ID19004 | ID19008 | | |
| DATE EXTRACTED: | 04/17/1213:42 | 04/17/1213:42 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/19/1213:57 | 04/19/1215:00 | DATE RECEIVED: | 04/17/12 |
| PREP. BATCH: | HCD009S | HCD009S | | |
| CALIB. REF: | ID19001 | ID19001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 355 | 295 | 83 | 80-120 |

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: 7199

MATRIX: SOIL % MOISTURE: 18.4
DILUTION FACTOR: 1 10
SAMPLE ID: SL-004-NBZ-SS-0.0-0.5
LAB SAMP ID: D106-01R D106-01G1
LAB FILE ID: ID19016 ID19012
DATE EXTRACTED: 04/17/1213:42 04/17/1213:42 DATE COLLECTED: 04/11/12 09:12
DATE ANALYZED: 04/19/1216:50 04/19/1216:09 DATE RECEIVED: 04/11/12
PREP. BATCH: HCD009S HCD009S
CALIB. REF: ID19013 ID19001

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 170 | 133 | 78 | 75-125 |

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: 7199

MATRIX: SOIL % MOISTURE: 18.4
DILUTION FACTOR: 1 1
SAMPLE ID: SL-004-NBZ-SS-0.0-0.5
LAB SAMP ID: D106-01R D106-01M1
LAB FILE ID: ID19016 ID19010
DATE EXTRACTED: 04/17/1213:42 04/17/1213:42 DATE COLLECTED: 04/11/12 09:12
DATE ANALYZED: 04/19/1216:50 04/19/1215:26 DATE RECEIVED: 04/11/12
PREP. BATCH: HCD009S HCD009S
CALIB. REF: ID19013 ID19001

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 12.3 | 10.6 | 86 | 75-125 |

EMAX QUALITY CONTROL DATA
DUPLICATE SAMPLE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: 7199

MATRIX: SOIL % MOISTURE: 18.4
DILUTION FACTOR: 1 1
SAMPLE ID: SL-004-NBZ-SS-0.0-0.5
EMAX SAMP ID: D106-01R D106-01Z
LAB FILE ID: ID19016 ID19018
DATE EXTRACTED: 04/17/1213:42 04/17/1213:42 DATE COLLECTED: 04/11/12 09:12
DATE ANALYZED: 04/19/1216:50 04/19/1217:11 DATE RECEIVED: 04/11/12
PREP. BATCH: HCD009S HCD009S
CALIB. REF: ID19013 ID19013

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | DUPL RSLT (mg/kg) | RPD RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Hexavalent Chromium | ND | ND | 0 | 20 |

EMAX QUALITY CONTROL DATA
DUPLICATE SAMPLE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D106
METHOD: 7199

MATRIX: SOIL % MOISTURE: 18.4
DILUTION FACTOR: 1 1
SAMPLE ID: SL-004-NBZ-SS-0.0-0.5
EMAX SAMP ID: D106-01 D106-01D
LAB FILE ID: ID19015 ID19017
DATE EXTRACTED: 04/17/1213:42 04/17/1213:42 DATE COLLECTED: 04/11/12 09:12
DATE ANALYZED: 04/19/1216:40 04/19/1217:01 DATE RECEIVED: 04/11/12
PREP. BATCH: HCD009S HCD009S
CALIB. REF: ID19013 ID19013

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | DUPL RSLT (mg/kg) | RPD RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Hexavalent Chromium | ND | ND | 0 | 20 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D106
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-004-NBZ-SS-0.0-0.5 | D106-01 | 7.08 | 1 | NA | NA | NA | 04/12/1217:41 | 04/12/1217:41 | 12PHD011S01 | PHD011S | PHD011S | 04/11/1209:12 | 04/11/12 |
| SL-004-NBZ-SS-0.0-0.5DUP | D106-01D | 7.01 | 1 | NA | NA | NA | 04/12/1217:44 | 04/12/1217:41 | 12PHD011S02 | PHD011S | PHD011S | 04/11/1209:12 | 04/11/12 |
| SL-145-NBZ-SS-0.0-0.5 | D106-02 | 7.30 | 1 | NA | NA | NA | 04/12/1217:45 | 04/12/1217:41 | 12PHD011S03 | PHD011S | PHD011S | 04/11/1214:35 | 04/11/12 |
| SL-148-NBZ-SS-0.0-0.5 | D106-03 | 7.17 | 1 | NA | NA | NA | 04/12/1217:46 | 04/12/1217:41 | 12PHD011S04 | PHD011S | PHD011S | 04/11/1214:03 | 04/11/12 |
| SL-154-NBZ-SS-0.0-0.5 | D106-04 | 6.11 | 1 | NA | NA | NA | 04/12/1217:48 | 04/12/1217:41 | 12PHD011S05 | PHD011S | PHD011S | 04/11/1210:06 | 04/11/12 |
| SL-163-NBZ-SS-0.0-0.5 | D106-05 | 7.93 | 1 | NA | NA | NA | 04/12/1217:50 | 04/12/1217:41 | 12PHD011S06 | PHD011S | PHD011S | 04/11/1213:23 | 04/11/12 |
| SL-168-NBZ-SS-0.0-0.5 | D106-06 | 6.50 | 1 | NA | NA | NA | 04/12/1217:52 | 04/12/1217:41 | 12PHD011S07 | PHD011S | PHD011S | 04/11/1209:38 | 04/11/12 |
| SL-176-NBZ-SS-0.0-0.5 | D106-07 | 7.98 | 1 | NA | NA | NA | 04/12/1217:53 | 04/12/1217:41 | 12PHD011S08 | PHD011S | PHD011S | 04/11/1213:48 | 04/11/12 |
| SL-182-NBZ-SS-0.0-0.5 | D106-08 | 6.95 | 1 | NA | NA | NA | 04/12/1217:55 | 04/12/1217:41 | 12PHD011S09 | PHD011S | PHD011S | 04/11/1210:41 | 04/11/12 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D106

Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CND006SB | ND | 1 | NA | 0.500 | 0.250 | 04/18/1218:12 | 04/18/1211:00 | CND00610 | CND00608 | CND006S | NA | 04/18/12 |
| LCS1S | CND006SL | 2.47 | 1 | NA | 0.500 | 0.250 | 04/18/1218:12 | 04/18/1211:00 | CND00611 | CND00608 | CND006S | NA | 04/18/12 |
| LCD1S | CND006SC | 2.44 | 1 | NA | 0.500 | 0.250 | 04/18/1218:12 | 04/18/1211:00 | CND00612 | CND00608 | CND006S | NA | 04/18/12 |
| SL-004-NBZ-SS-0.0-0.5 | D106-01 | ND | 1 | 18.4 | 0.613 | 0.306 | 04/18/1218:16 | 04/18/1211:00 | CND00624 | CND00620 | CND006S | 04/11/1209:12 | 04/11/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D106
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CND006SL/C

DATE RECEIVED: 04/18/12
DATE EXTRACTED: 04/18/1211:00
DATE ANALYZED: 04/18/1218:12/18:12

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.47 | 99 | 2.50 | 2.44 | 98 | 1 | 85-125 | 20 |

# SAMPLE DELIVERY GROUP

# 12D122

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/16/12 12:00 |
| Sample ID: EB-NBZ-SS-041212 | Date Analyzed: 04/18/12 13:34 |
| Lab Samp ID: D122-06 | Dilution Factor: 1.14 |
| Lab File ID: RDJ273 | Matrix : WATER |
| Ext Btch ID: SVD030W | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 11 | 5.7 |
| 1,2-DICHLOROBENZENE | ND | 11 | 5.7 |
| 1,3-DICHLOROBENZENE | ND | 11 | 5.7 |
| 1,4-DICHLOROBENZENE | ND | 11 | 5.7 |
| 2,4,5-TRICHLOROPHENOL | ND | 11 | 5.7 |
| 2,4,6-TRICHLOROPHENOL | ND | 11 | 5.7 |
| 2,4-DICHLOROPHENOL | ND | 11 | 5.7 |
| 2,4-DIMETHYLPHENOL | ND | 11 | 5.7 |
| 2,4-DINITROPHENOL | ND | 23 | 5.7 |
| 2,4-DINITROTOLUENE | ND | 11 | 5.7 |
| 2,6-DINITROTOLUENE | ND | 11 | 5.7 |
| 2-CHLORONAPHTHALENE | ND | 11 | 5.7 |
| 2-CHLOROPHENOL | ND | 11 | 5.7 |
| 2-METHYLNAPHTHALENE | ND | 11 | 5.7 |
| 2-METHYLPHENOL | ND | 11 | 5.7 |
| 2-NITROANILINE | ND | 11 | 5.7 |
| 2-NITROPHENOL | ND | 11 | 5.7 |
| 3,3'-DICHLOROBENZIDINE | ND | 11 | 5.7 |
| 3-NITROANILINE | ND | 11 | 5.7 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 23 | 5.7 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 11 | 5.7 |
| 4-CHLORO-3-METHYLPHENOL | ND | 11 | 5.7 |
| 4-CHLOROANILINE | ND | 11 | 5.7 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 11 | 5.7 |
| 4-METHYLPHENOL (1) | ND | 11 | 5.7 |
| 4-NITROANILINE | ND | 11 | 5.7 |
| 4-NITROPHENOL | ND | 23 | 5.7 |
| ACENAPHTHENE | ND | 11 | 5.7 |
| ACENAPHTHYLENE | ND | 11 | 5.7 |
| ANTHRACENE | ND | 11 | 5.7 |
| BENZO(A)ANTHRACENE | ND | 11 | 5.7 |
| BENZO(A)PYRENE | ND | 11 | 5.7 |
| BENZO(B)FLUORANTHENE | ND | 11 | 5.7 |
| BENZO(K)FLUORANTHENE | ND | 11 | 5.7 |
| BENZO(G,H,I)PERYLENE | ND | 11 | 5.7 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 11 | 5.7 |
| BIS(2-CHLOROETHYL)ETHER | ND | 11 | 5.7 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 11 | 5.7 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 23 | 5.7 |
| BUTYLBENZYLPHTHALATE | ND | 11 | 5.7 |
| CHRYSENE | ND | 11 | 5.7 |
| DI-N-BUTYLPHTHALATE | ND | 11 | 5.7 |
| DI-N-OCTYLPHTHALATE | ND | 11 | 5.7 |
| DIBENZO(A,H)ANTHRACENE | ND | 11 | 5.7 |
| DIBENZOFURAN | ND | 11 | 5.7 |
| DIETHYLPHTHALATE | ND | 11 | 5.7 |
| DIMETHYLPHTHALATE | ND | 11 | 5.7 |
| FLUORANTHENE | ND | 11 | 5.7 |
| FLUORENE | ND | 11 | 5.7 |
| HEXACHLOROBENZENE | ND | 11 | 5.7 |
| HEXACHLOROBUTADIENE | ND | 11 | 5.7 |
| HEXACHLOROCYCLOPENTADIENE | ND | 23 | 5.7 |
| HEXACHLOROETHANE | ND | 11 | 5.7 |
| INDENO(1,2,3-CD)PYRENE | ND | 11 | 5.7 |
| ISOPHORONE | ND | 11 | 5.7 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 11 | 5.7 |
| N-NITROSODIPHENYLAMINE (2) | ND | 11 | 5.7 |
| NAPHTHALENE | ND | 11 | 5.7 |
| NITROBENZENE | ND | 11 | 5.7 |
| PENTACHLOROPHENOL | ND | 23 | 5.7 |
| PHENANTHRENE | ND | 11 | 5.7 |
| PHENOL | ND | 11 | 5.7 |
| PYRENE | ND | 11 | 5.7 |
| BENZYL ALCOHOL | ND | 11 | 5.7 |
| 1-METHYLNAPHTHALENE | ND | 11 | 5.7 |
| 1,2-DIPHENYLHYDRAZINE | ND | 11 | 5.7 |
| 3,5-DIMETHYLPHENOL | ND | 23 | 5.7 |
| ANILINE | ND | 23 | 11 |
| BENZIDINE | ND | 57 | 23 |
| BENZOIC ACID | ND | 46 | 23 |
| CARBAZOLE | ND | 11 | 5.7 |
| N-NITROSODIMETHYLAMINE | ND | 11 | 5.7 |
| TETRALIN | ND | 11 | 11 |
| 2-BUTOXYETHANOL | ND | 11 | 11 |
| 2-PHENOXYETHANOL | ND | 11 | 11 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 61.9 | 68.40 | 90.4 | 30-130 |
| 2-FLUOROBIPHENYL | 19.5 | 22.80 | 85.7 | 45-130 |
| 2-FLUOROPHENOL | 52.7 | 68.40 | 77.1 | 20-130 |
| NITROBENZENE-D5 | 21.2 | 22.80 | 92.9 | 40-130 |
| PHENOL-D5 | 54.8 | 68.40 | 80.2 | 20-120 |
| TERPHENYL-D14 | 23.0 | 22.80 | 101 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D122 | Date Extracted: 04/16/12 12:00 |
| Sample ID: MBLK1W | Date Analyzed: 04/18/12 11:50 |
| Lab Samp ID: SVD030WB | Dilution Factor: 1 |
| Lab File ID: RDJ268 | Matrix : WATER |
| Ext Btch ID: SVD030W | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 10 | 5.0 |
| 1,2-DICHLOROBENZENE | ND | 10 | 5.0 |
| 1,3-DICHLOROBENZENE | ND | 10 | 5.0 |
| 1,4-DICHLOROBENZENE | ND | 10 | 5.0 |
| 2,4,5-TRICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4,6-TRICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4-DICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4-DIMETHYLPHENOL | ND | 10 | 5.0 |
| 2,4-DINITROPHENOL | ND | 20 | 5.0 |
| 2,4-DINITROTOLUENE | ND | 10 | 5.0 |
| 2,6-DINITROTOLUENE | ND | 10 | 5.0 |
| 2-CHLORONAPHTHALENE | ND | 10 | 5.0 |
| 2-CHLOROPHENOL | ND | 10 | 5.0 |
| 2-METHYLNAPHTHALENE | ND | 10 | 5.0 |
| 2-METHYLPHENOL | ND | 10 | 5.0 |
| 2-NITROANILINE | ND | 10 | 5.0 |
| 2-NITROPHENOL | ND | 10 | 5.0 |
| 3,3'-DICHLOROBENZIDINE | ND | 10 | 5.0 |
| 3-NITROANILINE | ND | 10 | 5.0 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 20 | 5.0 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 10 | 5.0 |
| 4-CHLORO-3-METHYLPHENOL | ND | 10 | 5.0 |
| 4-CHLOROANILINE | ND | 10 | 5.0 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 10 | 5.0 |
| 4-METHYLPHENOL (1) | ND | 10 | 5.0 |
| 4-NITROANILINE | ND | 10 | 5.0 |
| 4-NITROPHENOL | ND | 20 | 5.0 |
| ACENAPHTHENE | ND | 10 | 5.0 |
| ACENAPHTHYLENE | ND | 10 | 5.0 |
| ANTHRACENE | ND | 10 | 5.0 |
| BENZO(A)ANTHRACENE | ND | 10 | 5.0 |
| BENZO(A)PYRENE | ND | 10 | 5.0 |
| BENZO(B)FLUORANTHENE | ND | 10 | 5.0 |
| BENZO(K)FLUORANTHENE | ND | 10 | 5.0 |
| BENZO(G,H,I)PERYLENE | ND | 10 | 5.0 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 10 | 5.0 |
| BIS(2-CHLOROETHYL)ETHER | ND | 10 | 5.0 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 10 | 5.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 20 | 5.0 |
| BUTYLBENZYLPHTHALATE | ND | 10 | 5.0 |
| CHRYSENE | ND | 10 | 5.0 |
| DI-N-BUTYLPHTHALATE | ND | 10 | 5.0 |
| DI-N-OCTYLPHTHALATE | ND | 10 | 5.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 10 | 5.0 |
| DIBENZOFURAN | ND | 10 | 5.0 |
| DIETHYLPHTHALATE | ND | 10 | 5.0 |
| DIMETHYLPHTHALATE | ND | 10 | 5.0 |
| FLUORANTHENE | ND | 10 | 5.0 |
| FLUORENE | ND | 10 | 5.0 |
| HEXACHLOROBENZENE | ND | 10 | 5.0 |
| HEXACHLOROBUTADIENE | ND | 10 | 5.0 |
| HEXACHLOROCYCLOPENTADIENE | ND | 20 | 5.0 |
| HEXACHLOROETHANE | ND | 10 | 5.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 10 | 5.0 |
| ISOPHORONE | ND | 10 | 5.0 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 10 | 5.0 |
| N-NITROSODIPHENYLAMINE (2) | ND | 10 | 5.0 |
| NAPHTHALENE | ND | 10 | 5.0 |
| NITROBENZENE | ND | 10 | 5.0 |
| PENTACHLOROPHENOL | ND | 20 | 5.0 |
| PHENANTHRENE | ND | 10 | 5.0 |
| PHENOL | ND | 10 | 5.0 |
| PYRENE | ND | 10 | 5.0 |
| BENZYL ALCOHOL | ND | 10 | 5.0 |
| 1-METHYLNAPHTHALENE | ND | 10 | 5.0 |
| 1,2-DIPHENYLHYDRAZINE | ND | 10 | 5.0 |
| 3,5-DIMETHYLPHENOL | ND | 20 | 5.0 |
| ANILINE | ND | 20 | 10 |
| BENZIDINE | ND | 50 | 20 |
| BENZOIC ACID | ND | 40 | 20 |
| CARBAZOLE | ND | 10 | 5.0 |
| N-NITROSODIMETHYLAMINE | ND | 10 | 5.0 |
| TETRALIN | ND | 10 | 10 |
| 2-BUTOXYETHANOL | ND | 10 | 10 |
| 2-PHENOXYETHANOL | ND | 10 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 50.2 | 60.00 | 83.6 | 30-130 |
| 2-FLUOROBIPHENYL | 15.8 | 20.00 | 78.9 | 45-130 |
| 2-FLUOROPHENOL | 44.3 | 60.00 | 73.8 | 20-130 |
| NITROBENZENE-D5 | 17.4 | 20.00 | 86.9 | 40-130 |
| PHENOL-D5 | 44.0 | 60.00 | 73.4 | 20-120 |
| TERPHENYL-D14 | 19.6 | 20.00 | 98.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 3520C/8270C

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: SVD030WB SVD030WL
LAB FILE ID: RDJ268 RDJ270
DATE EXTRACTED: 04/16/1212:00 04/16/1212:00 DATE COLLECTED: NA
DATE ANALYZED: 04/18/1211:50 04/18/1212:31 DATE RECEIVED: 04/16/12
PREP. BATCH: SVD030W SVD030W
CALIB. REF: RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 40.0 | 29.5 | 74 | 30-130 |
| 1,2-Dichlorobenzene | ND | 40.0 | 26.2 | 66 | 30-130 |
| 1,3-Dichlorobenzene | ND | 40.0 | 25.6 | 64 | 30-130 |
| 1,4-Dichlorobenzene | ND | 40.0 | 26.2 | 65 | 30-130 |
| 2,4,5-Trichlorophenol | ND | 40.0 | 33.3 | 83 | 30-130 |
| 2,4,6-Trichlorophenol | ND | 40.0 | 35.9 | 90 | 30-130 |
| 2,4-Dichlorophenol | ND | 40.0 | 31.6 | 79 | 40-130 |
| 2,4-Dimethylphenol | ND | 40.0 | 33.1 | 83 | 30-130 |
| 2,4-Dinitrophenol | ND | 40.0 | 32.5 | 81 | 30-130 |
| 2,4-Dinitrotoluene | ND | 40.0 | 42.3 | 106 | 40-130 |
| 2,6-Dinitrotoluene | ND | 40.0 | 39.1 | 98 | 40-130 |
| 2-Chloronaphthalene | ND | 40.0 | 29.7 | 74 | 40-130 |
| 2-Chlorophenol | ND | 40.0 | 28.5 | 71 | 30-130 |
| 2-Methylnaphthalene | ND | 40.0 | 36.3 | 91 | 40-130 |
| 2-Methylphenol | ND | 40.0 | 27.5 | 69 | 30-130 |
| 2-Nitroaniline | ND | 40.0 | 42.0 | 105 | 40-130 |
| 2-Nitrophenol | ND | 40.0 | 32.1 | 80 | 40-130 |
| 3,3'-Dichlorobenzidine | ND | 40.0 | 34.2 | 85 | 20-140 |
| 3-Nitroaniline | ND | 40.0 | 33.3 | 83 | 30-130 |
| 4,6-Dinitro-2-Methylphenol | ND | 40.0 | 35.9 | 90 | 40-130 |
| 4-Bromophenyl-phenylether | ND | 40.0 | 34.1 | 85 | 50-130 |
| 4-Chloro-3-Methylphenol | ND | 40.0 | 37.0 | 92 | 30-130 |
| 4-Chloroaniline | ND | 40.0 | 29.4 | 74 | 30-130 |
| 4-Chlorophenyl-phenylether | ND | 40.0 | 39.6 | 99 | 50-130 |
| 4-Methylphenol | ND | 40.0 | 28.5 | 71 | 30-130 |
| 4-Nitroaniline | ND | 40.0 | 37.0 | 92 | 30-130 |
| 4-Nitrophenol | ND | 40.0 | 41.3 | 103 | 30-130 |
| Acenaphthene | ND | 40.0 | 34.5 | 86 | 40-130 |
| Acenaphthylene | ND | 40.0 | 36.7 | 92 | 40-130 |
| Anthracene | ND | 40.0 | 35.3 | 88 | 50-130 |
| Benzo(a)anthracene | ND | 40.0 | 38.7 | 97 | 50-130 |
| Benzo(a)pyrene | ND | 40.0 | 37.9 | 95 | 50-130 |
| Benzo(b)fluoranthene | ND | 40.0 | 40.1 | 100 | 40-140 |
| Benzo(k)fluoranthene | ND | 40.0 | 41.3 | 103 | 40-130 |
| Benzo(g,h,i)perylene | ND | 40.0 | 41.0 | 102 | 40-130 |
| bis(2-Chloroethoxy)methane | ND | 40.0 | 38.6 | 97 | 40-130 |
| bis(2-Chloroethyl)ether | ND | 40.0 | 35.1 | 88 | 30-130 |
| bis(2-Chloroisopropyl)ether | ND | 40.0 | 41.6 | 104 | 20-130 |
| bis(2-Ethylhexyl)phthalate | ND | 40.0 | 37.1 | 93 | 20-140 |
| Butylbenzylphthalate | ND | 40.0 | 38.0 | 95 | 40-130 |
| Chrysene | ND | 40.0 | 39.7 | 99 | 40-130 |
| Di-n-butylphthalate | ND | 40.0 | 37.3 | 93 | 30-160 |
| Di-n-octylphthalate | ND | 40.0 | 37.4 | 93 | 20-150 |
| Dibenzo(a,h)anthracene | ND | 40.0 | 41.3 | 103 | 40-130 |
| Dibenzofuran | ND | 40.0 | 34.5 | 86 | 40-130 |
| Diethylphthalate | ND | 40.0 | 39.3 | 98 | 30-140 |
| Dimethylphthalate | ND | 40.0 | 38.0 | 95 | 30-130 |
| Fluoranthene | ND | 40.0 | 40.0 | 100 | 40-130 |

| | | | | | |
|---|---|---|---|---|---|
| Fluorene | ND | 40.0 | 38.9 | 97 | 40-130 |
| Hexachlorobenzene | ND | 40.0 | 33.9 | 85 | 30-130 |
| Hexachlorobutadiene | ND | 40.0 | 33.1 | 83 | 10-130 |
| Hexachlorocyclopentadiene | ND | 40.0 | 20.4 | 51 | 10-130 |
| Hexachloroethane | ND | 40.0 | 28.1 | 70 | 20-130 |
| Indeno(1,2,3-cd)pyrene | ND | 40.0 | 41.3 | 103 | 50-130 |
| Isophorone | ND | 40.0 | 40.4 | 101 | 40-130 |
| n-Nitroso-di-n-propylamine | ND | 40.0 | 31.3 | 78 | 30-130 |
| n-Nitrosodiphenylamine | ND | 40.0 | 26.1 | 65 | 10-150 |
| Naphthalene | ND | 40.0 | 33.6 | 84 | 20-130 |
| Nitrobenzene | ND | 40.0 | 37.1 | 93 | 30-130 |
| Pentachlorophenol | ND | 40.0 | 35.9 | 90 | 30-130 |
| Phenanthrene | ND | 40.0 | 36.5 | 91 | 40-130 |
| Phenol | ND | 40.0 | 29.4 | 74 | 20-130 |
| Pyrene | ND | 40.0 | 36.4 | 91 | 40-130 |
| Benzyl Alcohol | ND | 40.0 | 29.0 | 73 | 30-130 |
| 1-Methylnaphthalene | ND | 40.0 | 36.7 | 92 | 40-130 |
| 1,2-Diphenylhydrazine | ND | 40.0 | 33.2 | 83 | 30-130 |
| 3,5-Dimethylphenol | ND | 40.0 | 33.2 | 83 | 20-150 |
| Aniline | ND | 40.0 | 24.4 | 61 | 10-130 |
| Benzidine | ND | 80.0 | 22.1J | 28 | 20-130 |
| Benzoic Acid | ND | 80.0 | 45.1 | 56 | 10-130 |
| Carbazole | ND | 40.0 | 35.5 | 89 | 50-130 |
| N-Nitrosodimethylamine | ND | 40.0 | 37.7 | 94 | 30-150 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|
| 2,4,6-Tribromophenol | 60.0 | 58.0 | 97 | 30-130 |
| 2-Fluorobiphenyl | 20.0 | 17.0 | 85 | 45-130 |
| 2-Fluorophenol | 60.0 | 42.7 | 71 | 20-130 |
| Nitrobenzene-d5 | 20.0 | 17.8 | 89 | 40-130 |
| Phenol-d5 | 60.0 | 46.1 | 77 | 20-120 |
| Terphenyl-d14 | 20.0 | 19.8 | 99 | 45-135 |

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/23/12 15:03 |
| Sample ID: SL-011-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 12:10 |
| Lab Samp ID: D122-01 | Dilution Factor: 1 |
| Lab File ID: RDJ429 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 12.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 96 |
| 1,2-DICHLOROBENZENE | ND | 190 | 96 |
| 1,3-DICHLOROBENZENE | ND | 190 | 96 |
| 1,4-DICHLOROBENZENE | ND | 190 | 96 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 96 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 96 |
| 2,6-DINITROTOLUENE | ND | 190 | 96 |
| 2-CHLORONAPHTHALENE | ND | 190 | 96 |
| 2-CHLOROPHENOL | ND | 190 | 96 |
| 2-METHYLNAPHTHALENE | ND | 190 | 96 |
| 2-METHYLPHENOL | ND | 190 | 96 |
| 2-NITROANILINE | ND | 190 | 96 |
| 2-NITROPHENOL | ND | 190 | 96 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 96 |
| 3-NITROANILINE | ND | 190 | 96 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 96 |
| 4-CHLOROANILINE | ND | 190 | 96 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-METHYLPHENOL (1) | ND | 190 | 96 |
| 4-NITROANILINE | ND | 190 | 96 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 96 |
| ACENAPHTHYLENE | ND | 190 | 96 |
| ANTHRACENE | ND | 190 | 96 |
| BENZO(A)ANTHRACENE | ND | 190 | 96 |
| BENZO(A)PYRENE | ND | 190 | 96 |
| BENZO(B)FLUORANTHENE | ND | 190 | 96 |
| BENZO(K)FLUORANTHENE | ND | 190 | 96 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 96 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 96 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 96 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 96 |
| CHRYSENE | ND | 190 | 96 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 96 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 96 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 96 |
| DIBENZOFURAN | ND | 190 | 96 |
| DIETHYLPHTHALATE | ND | 190 | 96 |
| DIMETHYLPHTHALATE | ND | 190 | 96 |
| FLUORANTHENE | ND | 190 | 96 |
| FLUORENE | ND | 190 | 96 |
| HEXACHLOROBENZENE | ND | 190 | 96 |
| HEXACHLOROBUTADIENE | ND | 190 | 96 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 96 |
| HEXACHLOROETHANE | ND | 190 | 96 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 96 |
| ISOPHORONE | ND | 190 | 96 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 96 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 96 |
| NAPHTHALENE | ND | 190 | 96 |
| NITROBENZENE | ND | 190 | 96 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 96 |
| PHENOL | ND | 190 | 96 |
| PYRENE | ND | 190 | 96 |
| BENZYL ALCOHOL | ND | 190 | 96 |
| 1-METHYLNAPHTHALENE | ND | 190 | 96 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 96 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 96 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 940 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 96 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 96 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 873 | 1138 | 76.7 | 35-130 |
| 2-FLUOROBIPHENYL | 232 | 379.2 | 61.2 | 45-130 |
| 2-FLUOROPHENOL | 752 | 1138 | 66.1 | 25-130 |
| NITROBENZENE-D5 | 280 | 379.2 | 74.0 | 40-130 |
| PHENOL-D5 | 781 | 1138 | 68.7 | 25-120 |
| TERPHENYL-D14 | 304 | 379.2 | 80.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/23/12 15:03 |
| Sample ID: SL-144-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 12:31 |
| Lab Samp ID: D122-02 | Dilution Factor: 1 |
| Lab File ID: RDJ430 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 13.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 97 |
| 1,2-DICHLOROBENZENE | ND | 190 | 97 |
| 1,3-DICHLOROBENZENE | ND | 190 | 97 |
| 1,4-DICHLOROBENZENE | ND | 190 | 97 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 97 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 97 |
| 2,6-DINITROTOLUENE | ND | 190 | 97 |
| 2-CHLORONAPHTHALENE | ND | 190 | 97 |
| 2-CHLOROPHENOL | ND | 190 | 97 |
| 2-METHYLNAPHTHALENE | ND | 190 | 97 |
| 2-METHYLPHENOL | ND | 190 | 97 |
| 2-NITROANILINE | ND | 190 | 97 |
| 2-NITROPHENOL | ND | 190 | 97 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 97 |
| 3-NITROANILINE | ND | 190 | 97 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 97 |
| 4-CHLOROANILINE | ND | 190 | 97 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-METHYLPHENOL (1) | ND | 190 | 97 |
| 4-NITROANILINE | ND | 190 | 97 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 97 |
| ACENAPHTHYLENE | ND | 190 | 97 |
| ANTHRACENE | ND | 190 | 97 |
| BENZO(A)ANTHRACENE | ND | 190 | 97 |
| BENZO(A)PYRENE | ND | 190 | 97 |
| BENZO(B)FLUORANTHENE | ND | 190 | 97 |
| BENZO(K)FLUORANTHENE | ND | 190 | 97 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 97 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 97 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 97 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 97 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 97 |
| CHRYSENE | ND | 190 | 97 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 97 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 97 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 97 |
| DIBENZOFURAN | ND | 190 | 97 |
| DIETHYLPHTHALATE | ND | 190 | 97 |
| DIMETHYLPHTHALATE | ND | 190 | 97 |
| FLUORANTHENE | ND | 190 | 97 |
| FLUORENE | ND | 190 | 97 |
| HEXACHLOROBENZENE | ND | 190 | 97 |
| HEXACHLOROBUTADIENE | ND | 190 | 97 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 97 |
| HEXACHLOROETHANE | ND | 190 | 97 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 97 |
| ISOPHORONE | ND | 190 | 97 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 97 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 97 |
| NAPHTHALENE | ND | 190 | 97 |
| NITROBENZENE | ND | 190 | 97 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 97 |
| PHENOL | ND | 190 | 97 |
| PYRENE | ND | 190 | 97 |
| BENZYL ALCOHOL | ND | 190 | 97 |
| 1-METHYLNAPHTHALENE | ND | 190 | 97 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 97 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 97 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 960 | 480 |
| BENZOIC ACID | ND | 770 | 380 |
| CARBAZOLE | ND | 190 | 97 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 97 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1070 | 1152 | 92.6 | 35-130 |
| 2-FLUOROBIPHENYL | 272 | 384.0 | 70.9 | 45-130 |
| 2-FLUOROPHENOL | 787 | 1152 | 68.3 | 25-130 |
| NITROBENZENE-D5 | 293 | 384.0 | 76.3 | 40-130 |
| PHENOL-D5 | 873 | 1152 | 75.8 | 25-120 |
| TERPHENYL-D14 | 380 | 384.0 | 98.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/23/12 15:03 |
| Sample ID: SL-152-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 12:51 |
| Lab Samp ID: D122-03 | Dilution Factor: 1 |
| Lab File ID: RDJ431 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 15.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 400 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 400 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 400 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 400 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 400 | 200 |
| BENZIDINE | ND | 990 | 500 |
| BENZOIC ACID | ND | 790 | 400 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1080 | 1188 | 91.0 | 35-130 |
| 2-FLUOROBIPHENYL | 274 | 395.8 | 69.3 | 45-130 |
| 2-FLUOROPHENOL | 854 | 1188 | 71.9 | 25-130 |
| NITROBENZENE-D5 | 325 | 395.8 | 82.2 | 40-130 |
| PHENOL-D5 | 911 | 1188 | 76.7 | 25-120 |
| TERPHENYL-D14 | 376 | 395.8 | 95.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/23/12 15:03 |
| Sample ID: SL-158-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 13:12 |
| Lab Samp ID: D122-04 | Dilution Factor: 1 |
| Lab File ID: RDJ432 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 13.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 97 |
| 1,2-DICHLOROBENZENE | ND | 190 | 97 |
| 1,3-DICHLOROBENZENE | ND | 190 | 97 |
| 1,4-DICHLOROBENZENE | ND | 190 | 97 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 97 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 97 |
| 2,6-DINITROTOLUENE | ND | 190 | 97 |
| 2-CHLORONAPHTHALENE | ND | 190 | 97 |
| 2-CHLOROPHENOL | ND | 190 | 97 |
| 2-METHYLNAPHTHALENE | ND | 190 | 97 |
| 2-METHYLPHENOL | ND | 190 | 97 |
| 2-NITROANILINE | ND | 190 | 97 |
| 2-NITROPHENOL | ND | 190 | 97 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 97 |
| 3-NITROANILINE | ND | 190 | 97 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 97 |
| 4-CHLOROANILINE | ND | 190 | 97 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-METHYLPHENOL (1) | ND | 190 | 97 |
| 4-NITROANILINE | ND | 190 | 97 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 97 |
| ACENAPHTHYLENE | ND | 190 | 97 |
| ANTHRACENE | ND | 190 | 97 |
| BENZO(A)ANTHRACENE | ND | 190 | 97 |
| BENZO(A)PYRENE | ND | 190 | 97 |
| BENZO(B)FLUORANTHENE | ND | 190 | 97 |
| BENZO(K)FLUORANTHENE | ND | 190 | 97 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 97 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 97 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 97 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 97 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 97 |
| CHRYSENE | ND | 190 | 97 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 97 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 97 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 97 |
| DIBENZOFURAN | ND | 190 | 97 |
| DIETHYLPHTHALATE | ND | 190 | 97 |
| DIMETHYLPHTHALATE | ND | 190 | 97 |
| FLUORANTHENE | ND | 190 | 97 |
| FLUORENE | ND | 190 | 97 |
| HEXACHLOROBENZENE | ND | 190 | 97 |
| HEXACHLOROBUTADIENE | ND | 190 | 97 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 97 |
| HEXACHLOROETHANE | ND | 190 | 97 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 97 |
| ISOPHORONE | ND | 190 | 97 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 97 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 97 |
| NAPHTHALENE | ND | 190 | 97 |
| NITROBENZENE | ND | 190 | 97 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 97 |
| PHENOL | ND | 190 | 97 |
| PYRENE | ND | 190 | 97 |
| BENZYL ALCOHOL | ND | 190 | 97 |
| 1-METHYLNAPHTHALENE | ND | 190 | 97 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 97 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 97 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 960 | 480 |
| BENZOIC ACID | ND | 770 | 380 |
| CARBAZOLE | ND | 190 | 97 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 97 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1030 | 1152 | 89.8 | 35-130 |
| 2-FLUOROBIPHENYL | 269 | 384.0 | 70.0 | 45-130 |
| 2-FLUOROPHENOL | 761 | 1152 | 66.1 | 25-130 |
| NITROBENZENE-D5 | 285 | 384.0 | 74.3 | 40-130 |
| PHENOL-D5 | 821 | 1152 | 71.3 | 25-120 |
| TERPHENYL-D14 | 358 | 384.0 | 93.4 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/23/12 15:03 |
| Sample ID: SL-172-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 13:32 |
| Lab Samp ID: D122-05 | Dilution Factor: 1 |
| Lab File ID: RDJ433 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 10.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 750 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1050 | 1121 | 93.7 | 35-130 |
| 2-FLUOROBIPHENYL | 274 | 373.7 | 73.3 | 45-130 |
| 2-FLUOROPHENOL | 792 | 1121 | 70.7 | 25-130 |
| NITROBENZENE-D5 | 312 | 373.7 | 83.5 | 40-130 |
| PHENOL-D5 | 869 | 1121 | 77.5 | 25-120 |
| TERPHENYL-D14 | 348 | 373.7 | 93.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D122 | Date Extracted: 04/23/12 15:03 |
| Sample ID: MBLK1S | Date Analyzed: 04/24/12 17:01 |
| Lab Samp ID: SVD040SB | Dilution Factor: 1 |
| Lab File ID: RDJ391 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 779 | 1000 | 77.9 | 35-130 |
| 2-FLUOROBIPHENYL | 229 | 333.3 | 68.7 | 45-130 |
| 2-FLUOROPHENOL | 758 | 1000 | 75.8 | 25-130 |
| NITROBENZENE-D5 | 278 | 333.3 | 83.3 | 40-130 |
| PHENOL-D5 | 764 | 1000 | 76.4 | 25-120 |
| TERPHENYL-D14 | 285 | 333.3 | 85.5 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVD040SB SVD040SL SVD040SC
LAB FILE ID: RDJ391 RDJ392 RDJ393
DATE EXTRACTED: 04/23/1215:03 04/23/1215:03 04/23/1215:03 DATE COLLECTED: NA
DATE ANALYZED: 04/24/1217:01 04/24/1217:21 04/24/1217:42 DATE RECEIVED: 04/23/12
PREP. BATCH: SVD040S SVD040S SVD040S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 577 | 87 | 667 | 496 | 74 | 15 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 516 | 77 | 667 | 451 | 68 | 13 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 517 | 78 | 667 | 447 | 67 | 15 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 507 | 76 | 667 | 450 | 67 | 12 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 635 | 95 | 667 | 540 | 81 | 16 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 695 | 104 | 667 | 580 | 87 | 18 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 646 | 97 | 667 | 543 | 81 | 17 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 668 | 100 | 667 | 571 | 86 | 16 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 648 | 97 | 667 | 596 | 89 | 8 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 773 | 116 | 667 | 691 | 104 | 11 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 720 | 108 | 667 | 609 | 91 | 17 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 569 | 85 | 667 | 487 | 73 | 16 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 597 | 90 | 667 | 520 | 78 | 14 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 698 | 105 | 667 | 599 | 90 | 15 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 568 | 85 | 667 | 491 | 74 | 15 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 767 | 115 | 667 | 637 | 96 | 19 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 666 | 100 | 667 | 576 | 86 | 14 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 668 | 100 | 667 | 633 | 95 | 5 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 602 | 90 | 667 | 507 | 76 | 17 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 715 | 107 | 667 | 682 | 102 | 5 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 657 | 99 | 667 | 566 | 85 | 15 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 700 | 105 | 667 | 569 | 85 | 21 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 560 | 84 | 667 | 468 | 70 | 18 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 733 | 110 | 667 | 615 | 92 | 18 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 603 | 90 | 667 | 512 | 77 | 16 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 628 | 94 | 667 | 608 | 91 | 3 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 724 | 109 | 667 | 745 | 112 | 3 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 638 | 96 | 667 | 539 | 81 | 17 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 686 | 103 | 667 | 588 | 88 | 15 | 30-130 | 50 |
| Anthracene | ND | 667 | 658 | 99 | 667 | 590 | 88 | 11 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 771 | 116 | 667 | 699 | 105 | 10 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 750 | 112 | 667 | 681 | 102 | 10 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 794 | 119 | 667 | 726 | 109 | 9 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 805 | 121 | 667 | 721 | 108 | 11 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 806 | 121 | 667 | 730 | 110 | 10 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 748 | 112 | 667 | 623 | 94 | 18 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 697 | 105 | 667 | 606 | 91 | 14 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 740 | 111 | 667 | 644 | 97 | 14 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 767 | 115 | 667 | 692 | 104 | 10 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 793 | 119 | 667 | 708 | 106 | 11 | 40-150 | 50 |
| Chrysene | ND | 667 | 783 | 117 | 667 | 708 | 106 | 10 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 704 | 106 | 667 | 662 | 99 | 6 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 785 | 118 | 667 | 717 | 108 | 9 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 805 | 121 | 667 | 729 | 109 | 10 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 631 | 95 | 667 | 530 | 80 | 17 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 725 | 109 | 667 | 612 | 92 | 17 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 695 | 104 | 667 | 589 | 88 | 17 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 729 | 109 | 667 | 704 | 106 | 3 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 719 | 108 | 667 | 598 | 90 | 18 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 662 | 99 | 667 | 579 | 87 | 13 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 635 | 95 | 667 | 550 | 83 | 14 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 475 | 71 | 667 | 437 | 66 | 8 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 561 | 84 | 667 | 491 | 74 | 13 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 815 | 122 | 667 | 738 | 111 | 10 | 30-140 | 50 |
| Isophorone | ND | 667 | 821 | 123 | 667 | 625 | 94 | 27 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 604 | 91 | 667 | 521 | 78 | 15 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 503 | 75 | 667 | 435 | 65 | 15 | 30-140 | 50 |
| Naphthalene | ND | 667 | 660 | 99 | 667 | 563 | 84 | 16 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 714 | 107 | 667 | 604 | 91 | 17 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 650 | 97 | 667 | 620 | 93 | 5 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 688 | 103 | 667 | 609 | 91 | 12 | 30-130 | 50 |
| Phenol | ND | 667 | 631 | 95 | 667 | 541 | 81 | 15 | 30-130 | 50 |
| Pyrene | ND | 667 | 761 | 114 | 667 | 654 | 98 | 15 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 614 | 92 | 667 | 518 | 78 | 17 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 705 | 106 | 667 | 595 | 89 | 17 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 638 | 96 | 667 | 545 | 82 | 16 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 605 | 91 | 667 | 529 | 79 | 13 | 20-150 | 50 |
| Aniline | ND | 667 | 468 | 70 | 667 | 403 | 60 | 15 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1670 | 63 | 2670 | 1920 | 72 | 14 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 1600 | 60 | 2670 | 1320 | 49 | 20 | 10-130 | 50 |
| Carbazole | ND | 667 | 662 | 99 | 667 | 632 | 95 | 5 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 746 | 112 | 667 | 632 | 95 | 17 | 30-150 | 50 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 912 | 91 | 1000 | 848 | 85 | 35-130 |
| 2-Fluorobiphenyl | 333 | 235 | 71 | 333 | 214 | 64 | 45-130 |
| 2-Fluorophenol | 1000 | 771 | 77 | 1000 | 716 | 72 | 25-130 |
| Nitrobenzene-d5 | 333 | 292 | 87 | 333 | 268 | 80 | 40-130 |
| Phenol-d5 | 1000 | 799 | 80 | 1000 | 728 | 73 | 25-120 |
| Terphenyl-d14 | 333 | 339 | 102 | 333 | 317 | 95 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/23/12 15:03 |
| Sample ID: SL-011-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 12:10 |
| Lab Samp ID: D122-01 | Dilution Factor: 1 |
| Lab File ID: RDJ429 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 12.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.97 |
| ACENAPHTHYLENE | ND | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)PYRENE | 1.4J | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | 1.8J | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | 1.4J | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | 1.3J | 1.9 | 0.97 |
| CHRYSENE | 0.98J | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | ND | 1.9 | 0.97 |
| FLUORENE | ND | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | 1.1J | 1.9 | 0.97 |
| NAPHTHALENE | ND | 1.9 | 0.97 |
| PHENANTHRENE | ND | 1.9 | 0.97 |
| PYRENE | ND | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 11J | 19 | 9.6 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.6 |
| DIETHYLPHTHALATE | ND | 19 | 9.6 |
| DIMETHYLPHTHALATE | ND | 19 | 9.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 296 | 379.2 | 78.1 | 40-130 |
| 2-FLUOROBIPHENYL | 259 | 379.2 | 68.4 | 45-130 |
| TERPHENYL-D14 | 298 | 379.2 | 78.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/23/12 15:03 |
| Sample ID: SL-144-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 12:31 |
| Lab Samp ID: D122-02 | Dilution Factor: 1 |
| Lab File ID: RDJ430 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 13.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | 1.3J | 2.0 | 0.98 |
| ACENAPHTHYLENE | 1.5J | 2.0 | 0.98 |
| ANTHRACENE | ND | 2.0 | 0.98 |
| BENZO(A)ANTHRACENE | 1.2J | 2.0 | 0.98 |
| BENZO(A)PYRENE | ND | 2.0 | 0.98 |
| BENZO(B)FLUORANTHENE | 1.2J | 2.0 | 0.98 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 0.98 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 0.98 |
| CHRYSENE | ND | 2.0 | 0.98 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 0.98 |
| FLUORANTHENE | 1.1J | 2.0 | 0.98 |
| FLUORENE | 1.1J | 2.0 | 0.98 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 0.98 |
| NAPHTHALENE | 2.0 | 2.0 | 0.98 |
| PHENANTHRENE | ND | 2.0 | 0.98 |
| PYRENE | 1.2J | 2.0 | 0.98 |
| 2-METHYLNAPHTHALENE | 1.9J | 2.0 | 0.98 |
| 1-METHYLNAPHTHALENE | 1.8J | 2.0 | 0.98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 16J | 19 | 9.7 |
| BUTYLBENZYLPHTHALATE | 21 | 19 | 9.7 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.7 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.7 |
| DIETHYLPHTHALATE | ND | 19 | 9.7 |
| DIMETHYLPHTHALATE | ND | 19 | 9.7 |
| N-NITROSODIMETHYLAMINE | 4.4 | 2.0 | 0.98 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 308 | 384.0 | 80.2 | 40-130 |
| 2-FLUOROBIPHENYL | 290 | 384.0 | 75.5 | 45-130 |
| TERPHENYL-D14 | 371 | 384.0 | 96.7 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/23/12 15:03 |
| Sample ID: SL-152-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 12:51 |
| Lab Samp ID: D122-03 | Dilution Factor: 1 |
| Lab File ID: RDJ431 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 15.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 1.0 |
| ACENAPHTHYLENE | ND | 2.0 | 1.0 |
| ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)PYRENE | ND | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | 1.7J | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | 1.2J | 2.0 | 1.0 |
| CHRYSENE | ND | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 1.0 |
| FLUORANTHENE | ND | 2.0 | 1.0 |
| FLUORENE | ND | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | 1.1J | 2.0 | 1.0 |
| NAPHTHALENE | ND | 2.0 | 1.0 |
| PHENANTHRENE | ND | 2.0 | 1.0 |
| PYRENE | 1.1J | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 23 | 20 | 10 |
| BUTYLBENZYLPHTHALATE | 10J | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 338 | 395.8 | 85.3 | 40-130 |
| 2-FLUOROBIPHENYL | 306 | 395.8 | 77.4 | 45-130 |
| TERPHENYL-D14 | 363 | 395.8 | 91.7 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/23/12 15:03 |
| Sample ID: SL-158-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 13:12 |
| Lab Samp ID: D122-04 | Dilution Factor: 1 |
| Lab File ID: RDJ432 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 13.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 0.98 |
| ACENAPHTHYLENE | ND | 2.0 | 0.98 |
| ANTHRACENE | ND | 2.0 | 0.98 |
| BENZO(A)ANTHRACENE | 1.5J | 2.0 | 0.98 |
| BENZO(A)PYRENE | 1.5J | 2.0 | 0.98 |
| BENZO(B)FLUORANTHENE | 2.7 | 2.0 | 0.98 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 0.98 |
| BENZO(G,H,I)PERYLENE | 1.8J | 2.0 | 0.98 |
| CHRYSENE | 3.4 | 2.0 | 0.98 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 0.98 |
| FLUORANTHENE | 1.7J | 2.0 | 0.98 |
| FLUORENE | ND | 2.0 | 0.98 |
| INDENO(1,2,3-CD)PYRENE | 1.9J | 2.0 | 0.98 |
| NAPHTHALENE | ND | 2.0 | 0.98 |
| PHENANTHRENE | ND | 2.0 | 0.98 |
| PYRENE | 1.8J | 2.0 | 0.98 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 0.98 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 0.98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 22 | 19 | 9.7 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.7 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.7 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.7 |
| DIETHYLPHTHALATE | ND | 19 | 9.7 |
| DIMETHYLPHTHALATE | ND | 19 | 9.7 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 0.98 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 305 | 384.0 | 79.5 | 40-130 |
| 2-FLUOROBIPHENYL | 274 | 384.0 | 71.4 | 45-130 |
| TERPHENYL-D14 | 349 | 384.0 | 90.8 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/23/12 15:03 |
| Sample ID: SL-172-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 13:32 |
| Lab Samp ID: D122-05 | Dilution Factor: 1 |
| Lab File ID: RDJ433 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 10.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | 1.5J | 1.9 | 0.95 |
| BENZO(A)PYRENE | 1.4J | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | 2.6 | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | 1.9 | 1.9 | 0.95 |
| CHRYSENE | 1.3J | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | 2.3 | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | 1.5J | 1.9 | 0.95 |
| NAPHTHALENE | ND | 1.9 | 0.95 |
| PHENANTHRENE | 1.1J | 1.9 | 0.95 |
| PYRENE | 2.1 | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 19 | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | 21 | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 323 | 373.7 | 86.4 | 40-130 |
| 2-FLUOROBIPHENYL | 293 | 373.7 | 78.5 | 45-130 |
| TERPHENYL-D14 | 340 | 373.7 | 91.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D122 | Date Extracted: 04/23/12 15:03 |
| Sample ID: MBLK1S | Date Analyzed: 04/24/12 17:01 |
| Lab Samp ID: SVD040SB | Dilution Factor: 1 |
| Lab File ID: RDJ391 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 295 | 333.3 | 88.4 | 40-130 |
| 2-FLUOROBIPHENYL | 264 | 333.3 | 79.3 | 45-130 |
| TERPHENYL-D14 | 280 | 333.3 | 84.1 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVD040SB | SVD040SX | SVD040SY | | |
| LAB FILE ID: | RDJ391 | RDJ394 | RDJ395 | | |
| DATE EXTRACTED: | 04/23/1215:03 | 04/23/1215:03 | 04/23/1215:03 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/24/1217:01 | 04/24/1218:03 | 04/24/1218:23 | DATE RECEIVED: | 04/23/12 |
| PREP. BATCH: | SVD040S | SVD040S | SVD040S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 336 | 101 | 333 | 333 | 100 | 1 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 381 | 114 | 333 | 376 | 113 | 2 | 20-130 | 50 |
| Anthracene | ND | 333 | 304 | 91 | 333 | 307 | 92 | 1 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 311 | 93 | 333 | 335 | 100 | 7 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 350 | 105 | 333 | 376 | 113 | 7 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 371 | 111 | 333 | 404 | 121 | 9 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 369 | 111 | 333 | 395 | 119 | 7 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 382 | 115 | 333 | 413 | 124 | 8 | 30-140 | 50 |
| Chrysene | ND | 333 | 298 | 89 | 333 | 322 | 97 | 8 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 381 | 114 | 333 | 412 | 124 | 8 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 330 | 99 | 333 | 344 | 103 | 4 | 30-130 | 50 |
| Fluorene | ND | 333 | 379 | 114 | 333 | 382 | 115 | 1 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 383 | 115 | 333 | 415 | 124 | 8 | 20-160 | 50 |
| Naphthalene | ND | 333 | 304 | 91 | 333 | 296 | 89 | 3 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 306 | 92 | 333 | 310 | 93 | 1 | 20-130 | 50 |
| Pyrene | ND | 333 | 314 | 94 | 333 | 327 | 98 | 4 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 343 | 103 | 333 | 335 | 100 | 3 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 342 | 103 | 333 | 335 | 101 | 2 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 299 | 90 | 333 | 313 | 94 | 4 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 288 | 86 | 333 | 302 | 91 | 5 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 301 | 90 | 333 | 315 | 95 | 5 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 305 | 91 | 333 | 326 | 98 | 7 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 378 | 113 | 333 | 389 | 117 | 3 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 366 | 110 | 333 | 372 | 112 | 2 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 339 | 102 | 333 | 327 | 98 | 4 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 304 | 91 | 333 | 320 | 96 | 40-130 |
| 2-Fluorobiphenyl | 333 | 263 | 79 | 333 | 282 | 85 | 45-130 |
| Terphenyl-d14 | 333 | 269 | 81 | 333 | 303 | 91 | 45-135 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/17/12 10:10 |
| Sample ID: SL-011-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 21:36 |
| Lab Samp ID: D122-01 | Dilution Factor: 1 |
| Lab File ID: LD18099A | Matrix : SOIL |
| Ext Btch ID: DSD029S | % Moisture : 12.1 |
| Calib. Ref.: LD18092A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.57 |
| EFH(C12-C14) | ND | 1.1 | 0.57 |
| EFH(C15-C20) | 0.65J | 1.1 | 0.57 |
| EFH(C21-C30) | 5.7 | 1.1 | 0.57 |
| EFH(C30-C40) | 12 | 1.1 | 0.57 |
| TOTAL EFH(C8-C40) | 18 | 1.1 | 0.57 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.91 | 11.38 | 69.5 | 50-150 |
| HEXACOSANE | 2.47 | 2.844 | 86.9 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D122 | Date Extracted: 04/17/12 10:10 |
| Sample ID: MBLK1S | Date Analyzed: 04/19/12 18:28 |
| Lab Samp ID: DSD029SB | Dilution Factor: 1 |
| Lab File ID: LD18088A | Matrix : SOIL |
| Ext Btch ID: DSD029S | % Moisture : NA |
| Calib. Ref.: LD18080A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.11 | 10.00 | 71.1 | 50-150 |
| HEXACOSANE | 2.01 | 2.500 | 80.4 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSD029SB | DSD029SL | DSD029SC | | |
| LAB FILE ID: | LD18088A | LD18086A | LD18087A | | |
| DATE EXTRACTED: | 04/17/1210:10 | 04/17/1210:10 | 04/17/1210:10 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/19/1218:28 | 04/19/1217:54 | 04/19/1218:11 | DATE RECEIVED: | 04/17/12 |
| PREP. BATCH: | DSD029S | DSD029S | DSD029S | | |
| CALIB. REF: | LD18080A | LD18080A | LD18080A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 39.1 | 78 | 50.0 | 40.3 | 81 | 3 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 6.05 | 61 | 10.0 | 6.51 | 65 | 50-150 |
| Hexacosane | 2.50 | 2.04 | 82 | 2.50 | 2.08 | 83 | 50-150 |

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/16/12 15:15 |
| Sample ID: EB-NBZ-SS-041212 | Date Analyzed: 04/19/12 09:10 |
| Lab Samp ID: D122-06 | Dilution Factor: 1.14 |
| Lab File ID: LD18055A | Matrix : WATER |
| Ext Btch ID: DSD027W | % Moisture : NA |
| Calib. Ref.: LD18046A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.57 | 0.11 |
| EFH(C12-C14) | ND | 0.57 | 0.11 |
| EFH(C15-C20) | ND | 0.57 | 0.11 |
| EFH(C21-C30) | ND | 0.57 | 0.11 |
| EFH(C30-C40) | ND | 0.57 | 0.11 |
| TOTAL EFH(C8-C40) | ND | 0.57 | 0.11 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.926 | 1.140 | 81.2 | 40-130 |
| HEXACOSANE | 0.260 | 0.2850 | 91.4 | 40-150 |

RL : Reporting Limit

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D122 | Date Extracted: 04/16/12 15:15 |
| Sample ID: MBLK1W | Date Analyzed: 04/19/12 03:48 |
| Lab Samp ID: DSD027WB | Dilution Factor: 1 |
| Lab File ID: LD18036A | Matrix : WATER |
| Ext Btch ID: DSD027W | % Moisture : NA |
| Calib. Ref.: LD18034A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.50 | 0.10 |
| EFH(C12-C14) | ND | 0.50 | 0.10 |
| EFH(C15-C20) | ND | 0.50 | 0.10 |
| EFH(C21-C30) | ND | 0.50 | 0.10 |
| EFH(C30-C40) | ND | 0.50 | 0.10 |
| TOTAL EFH(C8-C40) | ND | 0.50 | 0.10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.804 | 1.000 | 80.4 | 40-130 |
| HEXACOSANE | 0.234 | 0.2500 | 93.5 | 40-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 3520C/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | DSD027WB | DSD027WL | DSD027WC | | |
| LAB FILE ID: | LD18036A | LD18037A | LD18038A | | |
| DATE EXTRACTED: | 04/16/1215:15 | 04/16/1215:15 | 04/16/1215:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/19/1203:48 | 04/19/1204:05 | 04/19/1204:22 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | DSD027W | DSD027W | DSD027W | | |
| CALIB. REF: | LD18034A | LD18034A | LD18034A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 5.00 | 4.85 | 97 | 5.00 | 4.60 | 92 | 5 | 20-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 1.00 | 0.836 | 84 | 1.00 | 0.838 | 84 | 40-130 |
| Hexacosane | 0.250 | 0.231 | 93 | 0.250 | 0.230 | 92 | 40-150 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/16/12 11:34 |
| Sample ID: EB-NBZ-SS-041212 | Date Analyzed: 04/16/12 11:34 |
| Lab Samp ID: D122-06 | Dilution Factor: 1 |
| Lab File ID: BD16006A | Matrix : WATER |
| Ext Btch ID: MED002W | % Moisture : NA |
| Calib. Ref.: BD16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D122 | Date Extracted: 04/16/12 10:38 |
| Sample ID: MBLK1W | Date Analyzed: 04/16/12 10:38 |
| Lab Samp ID: MED002WB | Dilution Factor: 1 |
| Lab File ID: BD16003A | Matrix : WATER |
| Ext Btch ID: MED002W | % Moisture : NA |
| Calib. Ref.: BD16002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | MED002WB | MED002WL | MED002WC | | |
| LAB FILE ID: | BD16003A | BD16004A | BD16005A | | |
| DATE EXTRACTED: | 04/16/1210:38 | 04/16/1211:03 | 04/16/1211:17 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/16/1210:38 | 04/16/1211:03 | 04/16/1211:17 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | MED002W | MED002W | MED002W | | |
| CALIB. REF: | BD16002A | BD16002A | BD16002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 9660 | 97 | 10000 | 10400 | 104 | 7 | 50-150 | 30 |
| Isopropanol | ND | 10000 | 9490 | 95 | 10000 | 9540 | 95 | 1 | 50-150 | 30 |
| Methanol | ND | 10000 | 10200 | 102 | 10000 | 10200 | 102 | 0 | 50-150 | 30 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/16/12 14:08 |
| Sample ID: EB-NBZ-SS-041212 | Date Analyzed: 04/16/12 14:08 |
| Lab Samp ID: D122-06 | Dilution Factor: 1 |
| Lab File ID: TD16009A | Matrix : WATER |
| Ext Btch ID: PED003W | % Moisture : NA |
| Calib. Ref.: TD16004A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D122 | Date Extracted: 04/16/12 13:49 |
| Sample ID: MBLK1W | Date Analyzed: 04/16/12 13:49 |
| Lab Samp ID: PED003WB | Dilution Factor: 1 |
| Lab File ID: TD16008A | Matrix : WATER |
| Ext Btch ID: PED003W | % Moisture : NA |
| Calib. Ref.: TD16004A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 8015M

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | PED003WB | PED003WL | PED003WC | | |
| LAB FILE ID: | TD16008A | TD16005A | TD16006A | | |
| DATE EXTRACTED: | 04/16/1213:49 | 04/16/1212:16 | 04/16/1212:27 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/16/1213:49 | 04/16/1212:16 | 04/16/1212:27 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | PED003W | PED003W | PED003W | | |
| CALIB. REF: | TD16004A | TD16004A | TD16004A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 42.9 | 86 | 50.0 | 51.3 | 103 | 18 | 50-150 | 30 |
| Ethylene Glycol | ND | 50.0 | 49.1 | 98 | 50.0 | 51.0 | 102 | 4 | 50-150 | 30 |
| Propylene Glycol | ND | 25.0 | 26.9 | 107 | 25.0 | 27.9 | 112 | 4 | 50-150 | 30 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/17/12 16:12 |
| Sample ID: SL-011-NBZ-SS-0.0-0.5 | Date Analyzed: 04/22/12 07:50 |
| Lab Samp ID: D122-01 | Dilution Factor: 1 |
| Lab File ID: LD21026A | Matrix : SOIL |
| Ext Btch ID: CPD039S | % Moisture : 12.1 |
| Calib. Ref.: LD21015A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.10J | 0.19 | 0.097 \| 0.097 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| BETA-BHC | 1.2 \| (ND) | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR | 0.62 \| (ND) | 0.19 | 0.097 \| 0.097 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| ALDRIN | 0.11J \| (ND) | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| ENDOSULFAN I | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| 4,4'-DDE | 0.41 \| (0.34J) | 0.39 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| 0.28J | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN II | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDT | 0.46 \| (0.36J) | 0.39 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | 0.31J \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | 0.25J \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| (1.5J) | 1.9 | 0.97 \| 0.97 |
| MIREX | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.5 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.002 \| (5.464) | 6.067 | 82.4 \| (90.1) | 50-130 |
| DECACHLOROBIPHENYL | 4.534 \| (4.543) | 6.067 | 74.7 \| (74.9) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/17/12 16:12 |
| Sample ID: SL-144-NBZ-SS-0.0-0.5 | Date Analyzed: 04/22/12 08:54 |
| Lab Samp ID: D122-02 | Dilution Factor: 1 |
| Lab File ID: LD21029A | Matrix : SOIL |
| Ext Btch ID: CPD039S | % Moisture : 13.2 |
| Calib. Ref.: LD21015A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.16J | 0.20 | 0.098 \| 0.098 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.35 | 0.20 | 0.098 \| 0.098 |
| BETA-BHC | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| HEPTACHLOR | 0.52 \| (ND) | 0.20 | 0.098 \| 0.098 |
| DELTA-BHC | (ND) \| 2.6 | 0.20 | 0.098 \| 0.098 |
| ALDRIN | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| HEPTACHLOR EPOXIDE | 0.58 \| (ND) | 0.20 | 0.098 \| 0.098 |
| ENDOSULFAN I | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| 4,4'-DDE | (0.66) \| 0.64 | 0.39 | 0.20 \| 0.20 |
| DIELDRIN | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDRIN | 0.88 \| (ND) | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| 2.0 | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN II | 1.4 \| (ND) | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDT | (0.74) \| 0.41 | 0.39 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| 1.2 | 0.39 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| METHOXYCHLOR | 3.0 \| (ND) | 2.0 | 0.98 \| 0.98 |
| MIREX | 0.90 \| (ND) | 0.39 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.856 \| (5.518) | 6.144 | 79.0 \| (89.8) | 50-130 |
| DECACHLOROBIPHENYL | 4.119 \| (4.324) | 6.144 | 67.0 \| (70.4) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/17/12 16:12 |
| Sample ID: SL-152-NBZ-SS-0.0-0.5 | Date Analyzed: 04/22/12 09:16 |
| Lab Samp ID: D122-03 | Dilution Factor: 1 |
| Lab File ID: LD21030A | Matrix : SOIL |
| Ext Btch ID: CPD039S | % Moisture : 15.8 |
| Calib. Ref.: LD21015A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.37 | 0.20 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR | 0.72 \| (ND) | 0.20 | 0.10 \| 0.10 |
| DELTA-BHC | (ND) \| 0.83 | 0.20 | 0.10 \| 0.10 |
| ALDRIN | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | 0.33 \| (ND) | 0.20 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| 0.12J | 0.20 | 0.10 \| 0.10 |
| 4,4'-DDE | (2.7) \| 2.6 | 0.40 | 0.20 \| 0.20 |
| DIELDRIN | 0.57 \| (ND) | 0.40 | 0.20 \| 0.20 |
| ENDRIN | 0.38J \| (ND) | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| 1.7 | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN II | 1.2 \| (ND) | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDT | (6.4) \| 6.2 | 0.40 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| 0.44 | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | 1.4 \| (ND) | 0.40 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| METHOXYCHLOR | 4.1 \| (ND) | 2.0 | 1.0 \| 1.0 |
| MIREX | (ND) \| 0.63 | 0.40 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.8 | 3.9 \| 3.9 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.0 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.210 \| (6.561) | 6.334 | 82.3 \| (104) | 50-130 |
| DECACHLOROBIPHENYL | 4.136 \| (4.442) | 6.334 | 65.3 \| (70.1) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/17/12 16:12 |
| Sample ID: SL-158-NBZ-SS-0.0-0.5 | Date Analyzed: 04/22/12 09:37 |
| Lab Samp ID: D122-04 | Dilution Factor: 1 |
| Lab File ID: LD21031A | Matrix : SOIL |
| Ext Btch ID: CPD039S | % Moisture : 13.2 |
| Calib. Ref.: LD21015A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.76\|(ND) | 0.20 | 0.098\|0.098 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.20 | 0.098\|0.098 |
| BETA-BHC | (ND)\|ND | 0.20 | 0.098\|0.098 |
| HEPTACHLOR | 0.33\|(ND) | 0.20 | 0.098\|0.098 |
| DELTA-BHC | 0.18J\|(ND) | 0.20 | 0.098\|0.098 |
| ALDRIN | (ND)\|ND | 0.20 | 0.098\|0.098 |
| HEPTACHLOR EPOXIDE | 0.73\|(ND) | 0.20 | 0.098\|0.098 |
| ENDOSULFAN I | (ND)\|ND | 0.20 | 0.098\|0.098 |
| 4,4'-DDE | 0.27J\|(0.29J) | 0.39 | 0.20\|0.20 |
| DIELDRIN | (ND)\|ND | 0.39 | 0.20\|0.20 |
| ENDRIN | (ND)\|ND | 0.39 | 0.20\|0.20 |
| 4,4'-DDD | 0.26J\|(ND) | 0.39 | 0.20\|0.20 |
| ENDOSULFAN II | (ND)\|ND | 0.39 | 0.20\|0.20 |
| 4,4'-DDT | (0.31J)\|0.24J | 0.39 | 0.20\|0.20 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.39 | 0.20\|0.20 |
| ENDOSULFAN SULFATE | 1.7\|(ND) | 0.39 | 0.20\|0.20 |
| ENDRIN KETONE | (ND)\|0.26J | 0.39 | 0.20\|0.20 |
| METHOXYCHLOR | (ND)\|3.2 | 2.0 | 0.98\|0.98 |
| MIREX | (ND)\|ND | 0.39 | 0.20\|0.20 |
| TOXAPHENE | (ND)\|ND | 7.6 | 3.8\|3.8 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.621\|(6.363) | 6.144 | 91.5\|(104) | 50-130 |
| DECACHLOROBIPHENYL | 4.312\|(4.947) | 6.144 | 70.2\|(80.5) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/17/12 16:12 |
| Sample ID: SL-172-NBZ-SS-0.0-0.5 | Date Analyzed: 04/22/12 09:59 |
| Lab Samp ID: D122-05 | Dilution Factor: 1 |
| Lab File ID: LD21032A | Matrix : SOIL |
| Ext Btch ID: CPD039S | % Moisture : 10.8 |
| Calib. Ref.: LD21015A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.33 | 0.19 | 0.095 \| 0.095 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| BETA-BHC | 0.67 \| (ND) | 0.19 | 0.095 \| 0.095 |
| HEPTACHLOR | (ND) \| 0.38 | 0.19 | 0.095 \| 0.095 |
| DELTA-BHC | (ND) \| 0.58 | 0.19 | 0.095 \| 0.095 |
| ALDRIN | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| HEPTACHLOR EPOXIDE | 0.45 \| (ND) | 0.19 | 0.095 \| 0.095 |
| ENDOSULFAN I | (ND) \| 0.15J | 0.19 | 0.095 \| 0.095 |
| 4,4'-DDE | (0.96) \| 0.87 | 0.38 | 0.19 \| 0.19 |
| DIELDRIN | 0.72 \| (ND) | 0.38 | 0.19 \| 0.19 |
| ENDRIN | 0.32J \| (ND) | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| 0.97 | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.43 \| (ND) | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDT | (1.1) \| 1.1 | 0.38 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| 0.42 | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | 2.0 \| (ND) | 0.38 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| MIREX | (ND) \| 0.27J | 0.38 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.4 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.8 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.919 \| (6.119) | 5.979 | 99.0 \| (102) | 50-130 |
| DECACHLOROBIPHENYL | 4.544 \| (4.967) | 5.979 | 76.0 \| (83.1) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D122 | Date Extracted: 04/17/12 16:12 |
| Sample ID: MBLK1S | Date Analyzed: 04/22/12 05:41 |
| Lab Samp ID: CPD039SB | Dilution Factor: 1 |
| Lab File ID: LD21020A | Matrix : SOIL |
| Ext Btch ID: CPD039S | % Moisture : NA |
| Calib. Ref.: LD21015A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.791\|(3.889) | 5.333 | 71.1\|(72.9) | 50-130 |
| DECACHLOROBIPHENYL | 4.611\|(4.825) | 5.333 | 86.5\|(90.5) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPD039SB CPD039SL CPD039SC
LAB FILE ID: LD21020A LD21021A LD21022A
DATE EXTRACTED: 04/17/1216:12 04/17/1216:12 04/17/1216:12 DATE COLLECTED: NA
DATE ANALYZED: 04/22/1205:41 04/22/1206:02 04/22/1206:24 DATE RECEIVED: 04/17/12
PREP. BATCH: CPD039S CPD039S CPD039S
CALIB. REF: LD21015A LD21015A LD21015A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 2.67 | 2.00\|(2.07) | 75\|(78) | 2.67 | 1.76\|(1.82) | 66\|(68) | 13\|(13) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|ND | 2.67 | 2.09\|(2.17) | 78\|(81) | 2.67 | 1.86\|(1.92) | 70\|(72) | 12\|(12) | 40-130 | 50 |
| beta-BHC | (ND)\|ND | 2.67 | (2.43)\|2.23 | (91)\|84 | 2.67 | (2.27)\|2.04 | (85)\|76 | (7)\|9 | 50-140 | 50 |
| Heptachlor | (ND)\|ND | 2.67 | (2.45)\|2.28 | (92)\|85 | 2.67 | (2.24)\|2.06 | (84)\|77 | (9)\|10 | 30-130 | 50 |
| delta-BHC | (ND)\|ND | 2.67 | 2.62\|(2.69) | 98\|(101) | 2.67 | 2.41\|(2.48) | 90\|(93) | 8\|(8) | 30-150 | 50 |
| Aldrin | (ND)\|ND | 2.67 | 2.24\|(2.57) | 84\|(96) | 2.67 | (2.07)\|2.00 | (78)\|75 | (8)\|25 | 30-130 | 50 |
| Heptachlor Epoxide | (ND)\|ND | 2.67 | 2.14\|(2.47) | 80\|(93) | 2.67 | 1.90\|(2.10) | 71\|(79) | 12\|(16) | 60-140 | 50 |
| Endosulfan I | (ND)\|ND | 2.67 | 1.93\|(2.17) | 72\|(81) | 2.67 | 1.64\|(1.90) | 61\|(71) | 16\|(13) | 50-150 | 50 |
| 4,4'-DDE | (ND)\|ND | 2.67 | 2.30\|(2.36) | 86\|(88) | 2.67 | (2.05)\|2.03 | (77)\|76 | (11)\|15 | 50-150 | 50 |
| Dieldrin | (ND)\|ND | 2.67 | (2.40)\|2.14 | (90)\|80 | 2.67 | (2.13)\|1.90 | (80)\|71 | (12)\|12 | 60-130 | 50 |
| Endrin | (ND)\|ND | 2.67 | (2.41)\|2.27 | (90)\|85 | 2.67 | (2.14)\|2.05 | (80)\|77 | (12)\|10 | 50-140 | 50 |
| 4,4'-DDD | (ND)\|ND | 2.67 | (2.40)\|2.13 | (90)\|80 | 2.67 | (2.18)\|1.98 | (82)\|74 | (10)\|7 | 50-160 | 50 |
| Endosulfan II | (ND)\|ND | 2.67 | (2.56)\|2.36 | (96)\|88 | 2.67 | (2.35)\|2.22 | (88)\|83 | (9)\|6 | 60-150 | 50 |
| 4,4'-DDT | (ND)\|ND | 2.67 | (3.02)\|2.35 | (113)\|88 | 2.67 | (2.88)\|2.19 | (108)\|82 | (5)\|7 | 60-140 | 50 |
| Endrin aldehyde | (ND)\|ND | 2.67 | (2.39)\|2.28 | (90)\|85 | 2.67 | (2.26)\|2.16 | (85)\|81 | (6)\|5 | 50-160 | 50 |
| Endosulfan Sulfate | (ND)\|ND | 2.67 | (2.54)\|2.48 | (95)\|93 | 2.67 | (2.39)\|2.31 | (90)\|87 | (6)\|7 | 70-140 | 50 |
| Endrin Ketone | (ND)\|ND | 2.67 | 2.48\|(2.49) | 93\|(93) | 2.67 | (2.35)\|2.34 | (88)\|88 | (5)\|6 | 70-160 | 50 |
| Methoxychlor | (ND)\|ND | 26.7 | 24.7\|(25.5) | 93\|(96) | 26.7 | 23.6\|(24.3) | 88\|(91) | 5\|(5) | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 3.799\|(3.937) | 71.2\|(73.8) | 5.333 | 3.665\|(3.769) | 68.7\|(70.7) | 50-130 |
| Decachlorobiphenyl | 5.333 | 4.694\|(4.850) | 88.0\|(90.9) | 5.333 | 4.967\|(4.991) | 93.1\|(93.6) | 20-120 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: 12.1

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-011-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D122-01 | D122-01M | D122-01S | | |
| LAB FILE ID: | LD21026A | LD21027A | LD21028A | | |
| DATE EXTRACTED: | 04/17/1216:12 | 04/17/1216:12 | 04/17/1216:12 | DATE COLLECTED: | 04/12/12 |
| DATE ANALYZED: | 04/22/1207:50 | 04/22/1208:11 | 04/22/1208:33 | DATE RECEIVED: | 04/12/12 |
| PREP. BATCH: | CPD039S | CPD039S | CPD039S | | |
| CALIB. REF: | LD21015A | LD21015A | LD21015A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND) \| 0.10J | 3.04 | (3.16) \| 2.87 | (104) \| 91 | 3.04 | (2.87) \| 2.73 | (94) \| 87 | (10) \| 5 | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND) \| ND | 3.04 | 2.60 \| (2.99) | 86 \| (98) | 3.04 | 2.47 \| (2.79) | 81 \| (92) | 5 \| (7) | 20-150 | 50 |
| beta-BHC | 1.2 \| (ND) | 3.04 | 3.36 \| (3.19) | 71 \| (105) | 3.04 | 3.25 \| (3.04) | 67 \| (100) | 3 \| (5) | 50-140 | 50 |
| Heptachlor | 0.62 \| (ND) | 3.04 | 3.19 \| (3.03) | 85 \| (100) | 3.04 | 3.02 \| (2.91) | 79 \| (96) | 5 \| (4) | 20-140 | 50 |
| delta-BHC | (ND) \| ND | 3.04 | (3.28) \| 3.25 | (108) \| 107 | 3.04 | 3.22 \| (3.27) | 106 \| (108) | 2 \| (1) | 30-150 | 50 |
| Aldrin | 0.11J \| (ND) | 3.04 | 2.65 \| (2.69) | 84 \| (89) | 3.04 | 2.55 \| (2.76) | 80 \| (91) | 4 \| (3) | 20-160 | 50 |
| Heptachlor Epoxide | (ND) \| ND | 3.04 | (2.75) \| 2.26 | (91) \| 74 | 3.04 | (2.79) \| 2.62 | (92) \| 86 | (1) \| 15 | 40-140 | 50 |
| Endosulfan I | (ND) \| ND | 3.04 | 2.04 \| (2.30) | 67 \| (76) | 3.04 | 2.20 \| (2.70) | 72 \| (89) | 8 \| (16) | 50-160 | 50 |
| 4,4'-DDE | 0.41 \| (0.34J) | 3.04 | 3.09 \| (2.56) | 88 \| (73) | 3.04 | 3.01 \| (2.81) | 86 \| (81) | 3 \| (9) | 50-150 | 50 |
| Dieldrin | (ND) \| ND | 3.04 | 2.67 \| (2.83) | 88 \| (93) | 3.04 | 2.63 \| (2.82) | 87 \| (93) | 2 \| (0) | 10-160 | 50 |
| Endrin | (ND) \| ND | 3.04 | (3.06) \| 2.00 | (101) \| 66 | 3.04 | (2.57) \| 2.11 | (85) \| 69 | (17) \| 5 | 20-160 | 50 |
| 4,4'-DDD | (ND) \| 0.28J | 3.04 | (2.60) \| 2.65 | (86) \| 78 | 3.04 | (2.48) \| 2.76 | (82) \| 82 | (5) \| 4 | 50-160 | 50 |
| Endosulfan II | (ND) \| ND | 3.04 | (3.17) \| 2.57 | (104) \| 85 | 3.04 | (2.77) \| 2.59 | (91) \| 85 | (13) \| 1 | 40-160 | 50 |
| 4,4'-DDT | 0.46 \| (0.36J) | 3.04 | 3.71 \| (3.61) | 107 \| (107) | 3.04 | 3.44 \| (3.18) | 98 \| (93) | 8 \| (13) | 30-160 | 50 |
| Endrin aldehyde | 0.31J \| (ND) | 3.04 | 2.90 \| (3.97) | 85 \| (131) | 3.04 | 2.83 \| (3.74) | 83 \| (123) | 2 \| (6) | 50-140 | 50 |
| Endosulfan Sulfate | 0.25J \| (ND) | 3.04 | 2.89 \| (3.47) | 87 \| (114) | 3.04 | 2.90 \| (3.38) | 87 \| (111) | 0 \| (3) | 40-160 | 50 |
| Endrin Ketone | (ND) \| ND | 3.04 | 2.98 \| (3.37) | 98 \| (111) | 3.04 | 3.02 \| (3.23) | 99 \| (106) | 1 \| (4) | 50-160 | 50 |
| Methoxychlor | (ND) \| 1.5J | 30.4 | (27.5) \| 31.6 | (90) \| 99 | 30.4 | (27.4) \| 31.2 | (90) \| 98 | (0) \| 1 | 60-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 6.067 | 4.906 \| (5.665) | 80.9 \| (93.4) | 6.067 | 4.575 \| (5.344) | 75.4 \| (88.1) | 50-130 |
| Decachlorobiphenyl | 6.067 | 4.997 \| (5.119) | 82.4 \| (84.4) | 6.067 | (5.185) \| 4.880 | (85.5) \| 80.4 | 20-120 |

METHOD 3520C/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/16/12 14:45 |
| Sample ID: EB-NBZ-SS-041212 | Date Analyzed: 05/02/12 12:01 |
| Lab Samp ID: D122-06 | Dilution Factor: 1.05 |
| Lab File ID: ME01035A | Matrix : WATER |
| Ext Btch ID: CPD038W | % Moisture : NA |
| Calib. Ref.: ME01028A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ALPHA-BHC | 0.12 \| (ND) | 0.10 | 0.011 \| 0.011 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| BETA-BHC | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| HEPTACHLOR | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| DELTA-BHC | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| ALDRIN | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| ENDOSULFAN I | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| 4,4'-DDE | 0.042J \| (ND) | 0.10 | 0.011 \| 0.011 |
| DIELDRIN | 0.057J \| (ND) | 0.10 | 0.011 \| 0.011 |
| ENDRIN | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| 4,4'-DDD | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| ENDOSULFAN II | 0.024J \| (ND) | 0.10 | 0.011 \| 0.011 |
| 4,4'-DDT | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| ENDRIN KETONE | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| METHOXYCHLOR | (ND) \| ND | 1.0 | 0.10 \| 0.10 |
| MIREX | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| TOXAPHENE | (ND) \| ND | 2.1 | 0.52 \| 0.52 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 1.0 | 0.26 \| 0.26 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (0.3836) \| 0.3709 | 0.4200 | (91.3) \| 88.3 | 60-140 |
| DECACHLOROBIPHENYL | (0.4305) \| 0.4250 | 0.4200 | (102) \| 101 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3520C/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D122 | Date Extracted: 04/16/12 14:45 |
| Sample ID: MBLK1W | Date Analyzed: 05/02/12 10:54 |
| Lab Samp ID: CPD038WB | Dilution Factor: 1 |
| Lab File ID: ME01032A | Matrix : WATER |
| Ext Btch ID: CPD038W | % Moisture : NA |
| Calib. Ref.: ME01028A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.10 | 0.010\|0.010 |
| BETA-BHC | (ND)\|0.013J | 0.10 | 0.010\|0.010 |
| HEPTACHLOR | (ND)\|ND | 0.10 | 0.010\|0.010 |
| DELTA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ALDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN I | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| DIELDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDD | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN II | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDT | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN KETONE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| METHOXYCHLOR | (ND)\|ND | 1.0 | 0.10\|0.10 |
| MIREX | (ND)\|ND | 0.10 | 0.010\|0.010 |
| TOXAPHENE | (ND)\|ND | 2.0 | 0.50\|0.50 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 1.0 | 0.25\|0.25 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 0.3832\|(0.3868) | 0.4000 | 95.8\|(96.7) | 60-140 |
| DECACHLOROBIPHENYL | (0.4484)\|0.4448 | 0.4000 | (112)\|111 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 3520C/8081A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | CPD038WB | CPD038WL | CPD038WC | | |
| LAB FILE ID: | ME01032A | ME01033A | ME01034A | | |
| DATE EXTRACTED: | 04/16/1214:45 | 04/16/1214:45 | 04/16/1214:45 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/02/1210:54 | 05/02/1211:16 | 05/02/1211:39 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | CPD038W | CPD038W | CPD038W | | |
| CALIB. REF: | ME01028A | ME01028A | ME01028A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 0.200 | (0.220)\|0.205 | (110)\|102 | 0.200 | (0.182)\|0.166 | (91)\|83 | (19)\|21 | 30-150 | 30 |
| gamma-BHC (Lindane) | (ND)\|ND | 0.200 | 0.216\|(0.217) | 108\|(108) | 0.200 | (0.184)\|0.182 | (92)\|91 | (16)\|18 | 40-130 | 30 |
| beta-BHC | (ND)\|0.013J | 0.200 | 0.235\|(0.242) | 118\|(121) | 0.200 | (0.218)\|0.213 | (109)\|106 | (8)\|13 | 60-130 | 30 |
| Heptachlor | (ND)\|ND | 0.200 | (0.220)\|0.213 | (110)\|106 | 0.200 | (0.184)\|0.177 | (92)\|88 | (18)\|18 | 30-140 | 30 |
| delta-BHC | (ND)\|ND | 0.200 | (0.232)\|0.227 | (116)\|114 | 0.200 | (0.215)\|0.208 | (108)\|104 | (8)\|9 | 30-150 | 30 |
| Aldrin | (ND)\|ND | 0.200 | (0.216)\|0.204 | (108)\|102 | 0.200 | (0.180)\|0.167 | (90)\|84 | (18)\|20 | 40-130 | 30 |
| Heptachlor Epoxide | (ND)\|ND | 0.200 | (0.230)\|0.217 | (115)\|108 | 0.200 | (0.209)\|0.199 | (104)\|100 | (10)\|9 | 50-140 | 30 |
| Endosulfan I | (ND)\|ND | 0.200 | 0.212\|(0.216) | 106\|(108) | 0.200 | 0.200\|(0.201) | 100\|(100) | 6\|(7) | 60-140 | 30 |
| 4,4'-DDE | (ND)\|ND | 0.200 | 0.229\|(0.233) | 114\|(116) | 0.200 | 0.211\|(0.218) | 105\|(109) | 8\|(7) | 50-140 | 30 |
| Dieldrin | (ND)\|ND | 0.200 | (0.232)\|0.221 | (116)\|110 | 0.200 | (0.220)\|0.207 | (110)\|104 | (5)\|7 | 60-140 | 30 |
| Endrin | (ND)\|ND | 0.200 | (0.234)\|0.214 | (117)\|107 | 0.200 | (0.219)\|0.201 | (110)\|100 | (7)\|6 | 50-140 | 30 |
| 4,4'-DDD | (ND)\|ND | 0.200 | (0.236)\|0.231 | (118)\|116 | 0.200 | (0.228)\|0.222 | (114)\|111 | (3)\|4 | 50-160 | 30 |
| Endosulfan II | (ND)\|ND | 0.200 | (0.246)\|0.234 | (123)\|117 | 0.200 | (0.237)\|0.225 | (118)\|112 | (4)\|4 | 60-150 | 30 |
| 4,4'-DDT | (ND)\|ND | 0.200 | (0.277)\|0.242 | (138)\|121 | 0.200 | (0.269)\|0.230 | (134)\|115 | (3)\|5 | 60-140 | 30 |
| Endrin aldehyde | (ND)\|ND | 0.200 | (0.239)\|0.233 | (119)\|116 | 0.200 | (0.238)\|0.223 | (119)\|112 | (0)\|4 | 60-160 | 30 |
| Endosulfan Sulfate | (ND)\|ND | 0.200 | (0.240)\|0.230 | (120)\|115 | 0.200 | (0.235)\|0.225 | (118)\|112 | (2)\|2 | 70-140 | 30 |
| Endrin Ketone | (ND)\|ND | 0.200 | (0.235)\|0.223 | (118)\|112 | 0.200 | (0.230)\|0.218 | (115)\|109 | (2)\|2 | 30-150 | 30 |
| Methoxychlor | (ND)\|ND | 2.00 | (2.34)\|2.31 | (117)\|116 | 2.00 | (2.30)\|2.26 | (115)\|113 | (2)\|2 | 70-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 0.4000 | 0.3757\|(0.3807) | 93.9\|(95.2) | 0.4000 | (0.2820)\|0.2808 | (70.5)\|70.2 | 60-140 |
| Decachlorobiphenyl | 0.4000 | 0.4326\|(0.4337) | 108\|(108) | 0.4000 | (0.4050)\|0.4017 | (101)\|100 | 20-120 |

METHOD 3520C/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/16/12 14:45 |
| Sample ID: EB-NBZ-SS-041212 | Date Analyzed: 05/10/12 13:15 |
| Lab Samp ID: D122-06 | Dilution Factor: 1.05 |
| Lab File ID: KE07074A | Matrix : WATER |
| Ext Btch ID: CPD038W | % Moisture : NA |
| Calib. Ref.: KE07068A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1221 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1232 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1242 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1248 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1254 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1260 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1262 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1268 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 5432 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 5442 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 5460 | (ND)\|ND | 2.1 | 1.0\|1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (0.4678)\|0.3621 | 0.4200 | (111)\|86.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (0.4105)\|0.3031 | 0.4200 | (97.7)\|72.2 | 30-140 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3520C/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D122 | Date Extracted: 04/16/12 14:45 |
| Sample ID: MBLK1W | Date Analyzed: 05/10/12 10:36 |
| Lab Samp ID: CPD038WB | Dilution Factor: 1 |
| Lab File ID: KE07071A | Matrix : WATER |
| Ext Btch ID: CPD038W | % Moisture : NA |
| Calib. Ref.: KE07068A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1221 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1232 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1242 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1248 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1254 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1260 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1262 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1268 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 5432 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5442 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5460 | (ND)\|ND | 2.0 | 1.0\|1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (0.4605)\|0.3849 | 0.4000 | (115)\|96.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (0.4035)\|0.3326 | 0.4000 | (101)\|83.2 | 30-140 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 3520C/8082

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | CPD038WB | 60D038WX | 60D038WY | | |
| LAB FILE ID: | KE07071A | KE07072A | KE07073A | | |
| DATE EXTRACTED: | 04/16/1214:45 | 04/16/1214:45 | 04/16/1214:45 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/10/1210:36 | 05/10/1211:28 | 05/10/1212:22 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | CPD038W | CPD038W | CPD038W | | |
| CALIB. REF: | KE07068A | KE07068A | KE07068A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 5.00 | (5.15)\|4.02 | (103)\|80 | 5.00 | (4.69)\|3.66 | (94)\|73 | (9)\|9 | 50-130 | 30 |
| Aroclor 1260 | (ND)\|ND | 5.00 | (6.14)\|4.52 | (123)\|90 | 5.00 | (5.87)\|4.23 | (117)\|85 | (4)\|7 | 60-150 | 30 |
| Aroclor 5460 | (ND)\|ND | 5.00 | (5.75)\|5.75 | (115)\|115 | 5.00 | (5.70)\|5.32 | (114)\|106 | (1)\|8 | 50-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 0.4000 | (0.4486)\|0.3798 | (112)\|94.9 | 0.4000 | (0.4396)\|0.3474 | (110)\|86.9 | 45-120 |
| Tetrachloro-m-xylene | 0.4000 | (0.3906)\|0.3057 | (97.7)\|76.4 | 0.4000 | (0.3568)\|0.2664 | (89.2)\|66.6 | 30-140 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/20/12 09:55 |
| Sample ID: SL-011-NBZ-SS-0.0-0.5 | Date Analyzed: 05/09/12 00:34 |
| Lab Samp ID: D122-01 | Dilution Factor: 1 |
| Lab File ID: KE07046A | Matrix : SOIL |
| Ext Btch ID: CPD048S | % Moisture : 12.1 |
| Calib. Ref.: KE07043A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.387\|(6.873) | 6.067 | 122*\|(113) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.017)\|4.758 | 6.067 | (116)\|78.4 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/12/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/12/12 |
| Batch No. | : 12D122 | Date Extracted | : 04/20/12 09:55 |
| Sample ID | : SL-144-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/09/12 01:27 |
| Lab Samp ID | : D122-02 | Dilution Factor | : 1 |
| Lab File ID | : KE07047A | Matrix | : SOIL |
| Ext Btch ID | : CPD048S | % Moisture | : 13.2 |
| Calib. Ref. | : KE07043A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.520\|(6.334) | 6.144 | 122*\|(103) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.135)\|4.558 | 6.144 | (116)\|74.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/20/12 09:55 |
| Sample ID: SL-152-NBZ-SS-0.0-0.5 | Date Analyzed: 05/09/12 02:20 |
| Lab Samp ID: D122-03 | Dilution Factor: 1 |
| Lab File ID: KE07048A | Matrix : SOIL |
| Ext Btch ID: CPD048S | % Moisture : 15.8 |
| Calib. Ref.: KE07043A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5460 | (2.7J)\|2.4J | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 11.80\|(9.519) | 6.334 | 186*\|(150*) | 45-120 |
| TETRACHLORO-M-XYLENE | 11.73\|(6.923) | 6.334 | 185*\|(109) | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/20/12 09:55 |
| Sample ID: SL-158-NBZ-SS-0.0-0.5 | Date Analyzed: 05/09/12 03:13 |
| Lab Samp ID: D122-04 | Dilution Factor: 1 |
| Lab File ID: KE07049A | Matrix : SOIL |
| Ext Btch ID: CPD048S | % Moisture : 13.2 |
| Calib. Ref.: KE07043A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5460 | (3.8J)\|3.4J | 3.8 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 10.36\|(7.859) | 6.144 | 169*\|(128*) | 45-120 |
| TETRACHLORO-M-XYLENE | 11.27\|(7.190) | 6.144 | 183*\|(117) | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/20/12 09:55 |
| Sample ID: SL-172-NBZ-SS-0.0-0.5 | Date Analyzed: 05/09/12 04:06 |
| Lab Samp ID: D122-05 | Dilution Factor: 1 |
| Lab File ID: KE07050A | Matrix : SOIL |
| Ext Btch ID: CPD048S | % Moisture : 10.8 |
| Calib. Ref.: KE07043A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.650\|(6.227) | 5.979 | 128*\|(104) | 45-120 |
| TETRACHLORO-M-XYLENE | (6.895)\|4.694 | 5.979 | (115)\|78.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D122 | Date Extracted: 04/20/12 09:55 |
| Sample ID: MBLK1S | Date Analyzed: 05/10/12 14:08 |
| Lab Samp ID: 60D048SB | Dilution Factor: 1 |
| Lab File ID: KE07075A | Matrix : SOIL |
| Ext Btch ID: CPD048S | % Moisture : NA |
| Calib. Ref.: KE07068A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 6.838\|(5.515) | 5.333 | 128*\|(103) | 45-120 |
| TETRACHLORO-M-XYLENE | (5.938)\|4.717 | 5.333 | (111)\|88.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 3550B/8082

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60D048SB | 60D048SL | 60D048SC | | |
| LAB FILE ID: | KE07075A | KE07076A | KE07077A | | |
| DATE EXTRACTED: | 04/20/1209:55 | 04/20/1209:55 | 04/20/1209:55 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/10/1214:08 | 05/10/1215:01 | 05/10/1215:55 | DATE RECEIVED: | 04/20/12 |
| PREP. BATCH: | CPD048S | CPD048S | CPD048S | | |
| CALIB. REF: | KE07068A | KE07068A | KE07068A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (65.0)\|50.4 | (97)\|76 | 66.7 | (64.6)\|49.9 | (97)\|75 | (1)\|1 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (87.8)\|60.3 | (132)\|90 | 66.7 | (86.6)\|59.6 | (130)\|89 | (1)\|1 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | (41.1)\|40.3 | (62)\|60 | 66.7 | (45.2)\|44.3 | (68)\|66 | (10)\|9 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | 6.829\|(5.241) | 128*\|(98.3) | 5.333 | 6.874\|(5.428) | 129*\|(102) | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (5.967)\|4.634 | (112)\|86.9 | 5.333 | (5.966)\|4.654 | (112)\|87.3 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/13/12 17:44 |
| Sample ID: EB-NBZ-SS-041212 | Date Analyzed: 04/17/12 08:04 |
| Lab Samp ID: D122-06 | Dilution Factor: 1 |
| Lab File ID: QD16027A | Matrix : WATER |
| Ext Btch ID: HED006W | % Moisture : NA |
| Calib. Ref.: QD16024A | Instrument ID : GCT009 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4-DB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-T | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DALAPON | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICAMBA | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICHLOROPROP | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DINOSEB | (ND)\|0.24J | 0.80 | 0.20\|0.20 |
| MCPA | (ND)\|ND | 100 | 20\|20 |
| MCPP | (ND)\|ND | 100 | 20\|20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (10.27)\|8.602 | 10.00 | (103)\|86.0 | 40-140 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/13/12 |
| Batch No. : 12D122 | Date Extracted: 04/13/12 17:44 |
| Sample ID: MBLK1W | Date Analyzed: 04/17/12 02:24 |
| Lab Samp ID: HED006WB | Dilution Factor: 1 |
| Lab File ID: QD16013A | Matrix : WATER |
| Ext Btch ID: HED006W | % Moisture : NA |
| Calib. Ref.: QD16012A | Instrument ID : GCT009 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4-DB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-T | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DALAPON | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICAMBA | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICHLOROPROP | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DINOSEB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| MCPA | (ND)\|ND | 100 | 20\|20 |
| MCPP | (ND)\|ND | 100 | 20\|20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (10.93)\|9.278 | 10.00 | (109)\|92.8 | 40-140 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 8151A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HED006WB | HED006WL | HED006WC | | |
| LAB FILE ID: | QD16013A | QD16014A | QD16015A | | |
| DATE EXTRACTED: | 04/13/1217:44 | 04/13/1217:44 | 04/13/1217:44 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/17/1202:24 | 04/17/1202:48 | 04/17/1203:12 | DATE RECEIVED: | 04/13/12 |
| PREP. BATCH: | HED006W | HED006W | HED006W | | |
| CALIB. REF: | QD16012A | QD16012A | QD16012A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 1.00 | (0.889)\|0.864 | (89)\|86 | 1.00 | (0.884)\|0.858 | (88)\|86 | (1)\|1 | 40-130 | 30 |
| 2,4-DB | (ND)\|ND | 1.00 | 0.775J\|(0.937) | 78\|(94) | 1.00 | 0.684J\|(0.939) | 68\|(94) | 12\|(0) | 30-160 | 30 |
| 2,4,5-T | (ND)\|ND | 1.00 | 0.822\|(1.03) | 82\|(103) | 1.00 | 0.825\|(1.07) | 82\|(107) | 0\|(4) | 40-140 | 30 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 1.00 | (0.927)\|0.923 | (93)\|92 | 1.00 | (0.923)\|0.922 | (92)\|92 | (0)\|0 | 60-140 | 30 |
| Dalapon | (ND)\|ND | 1.00 | 0.699J\|(0.778J) | 70\|(78) | 1.00 | 0.710J\|(0.815) | 71\|(82) | 2\|(5) | 30-130 | 30 |
| Dicamba | (ND)\|ND | 1.00 | 0.869\|(0.880) | 87\|(88) | 1.00 | (0.839)\|0.832 | (84)\|83 | (4)\|6 | 50-130 | 30 |
| Dichloroprop | (ND)\|ND | 1.00 | 1.01\|(1.02) | 101\|(102) | 1.00 | 0.993\|(0.999) | 99\|(100) | 2\|(2) | 70-150 | 30 |
| Dinoseb | (ND)\|ND | 1.00 | 0.700J\|(0.733J) | 70\|(73) | 1.00 | 0.701J\|(0.724J) | 70\|(72) | 0\|(1) | 20-130 | 30 |
| MCPA | (ND)\|ND | 50.0 | 40.4J\|(47.3J) | 81\|(95) | 50.0 | 41.1J\|(47.1J) | 82\|(94) | 2\|(0) | 30-150 | 30 |
| MCPP | (ND)\|ND | 50.0 | (66.2J)\|29.7J | (132)\|59 | 50.0 | (60.9J)\|29.1J | (122)\|58 | (8)\|2 | 30-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 10.00 | (10.18)\|9.301 | (102)\|93.0 | 10.00 | (9.806)\|9.194 | (98.1)\|91.9 | 40-140 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/19/12 17:20 |
| Sample ID: SL-011-NBZ-SS-0.0-0.5 | Date Analyzed: 04/23/12 15:12 |
| Lab Samp ID: D122-01 | Dilution Factor: 1 |
| Lab File ID: WD23006A | Matrix : SOIL |
| Ext Btch ID: HED011S | % Moisture : 12.1 |
| Calib. Ref.: WD23002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| 2,4,5-T | 0.40\|(ND) | 0.19 | 0.097\|0.097 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.097\|0.097 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.68\|0.68 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (195.7)\|148.4 | 170.6 | (115)\|87.0 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/19/12 17:20 |
| Sample ID: SL-144-NBZ-SS-0.0-0.5 | Date Analyzed: 04/23/12 15:32 |
| Lab Samp ID: D122-02 | Dilution Factor: 1 |
| Lab File ID: WD23007A | Matrix : SOIL |
| Ext Btch ID: HED011S | % Moisture : 13.2 |
| Calib. Ref.: WD23002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 0.98\|0.98 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.098\|0.098 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.098\|0.098 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.69\|0.69 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 0.98\|0.98 |
| MCPA | (ND)\|ND | 290 | 140\|140 |
| MCPP | (ND)\|ND | 290 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (178.2)\|137.4 | 172.8 | (103)\|79.5 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/19/12 17:20 |
| Sample ID: SL-152-NBZ-SS-0.0-0.5 | Date Analyzed: 04/23/12 15:52 |
| Lab Samp ID: D122-03 | Dilution Factor: 1 |
| Lab File ID: WD23008A | Matrix : SOIL |
| Ext Btch ID: HED011S | % Moisture : 15.8 |
| Calib. Ref.: WD23002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.3 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.3\|5.3 |
| DICAMBA | (ND)\|ND | 1.4 | 0.71\|0.71 |
| DICHLOROPROP | (ND)\|ND | 2.9 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| MCPA | (ND)\|ND | 300 | 150\|150 |
| MCPP | (ND)\|ND | 300 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (228.2)\|163.1 | 178.1 | (128)\|91.5 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/19/12 17:20 |
| Sample ID: SL-158-NBZ-SS-0.0-0.5 | Date Analyzed: 04/23/12 16:12 |
| Lab Samp ID: D122-04 | Dilution Factor: 1 |
| Lab File ID: WD23009A | Matrix : SOIL |
| Ext Btch ID: HED011S | % Moisture : 13.2 |
| Calib. Ref.: WD23002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 0.98\|0.98 |
| 2,4,5-T | 0.67\|(ND) | 0.20 | 0.098\|0.098 |
| 2,4,5-TP(SILVEX) | 0.54\|(ND) | 0.20 | 0.098\|0.098 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.69\|0.69 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 0.98\|0.98 |
| MCPA | (ND)\|ND | 290 | 140\|140 |
| MCPP | (ND)\|ND | 290 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (197.0)\|152.6 | 172.8 | (114)\|88.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/19/12 17:20 |
| Sample ID: SL-172-NBZ-SS-0.0-0.5 | Date Analyzed: 04/23/12 16:32 |
| Lab Samp ID: D122-05 | Dilution Factor: 1 |
| Lab File ID: WD23010A | Matrix : SOIL |
| Ext Btch ID: HED011S | % Moisture : 10.8 |
| Calib. Ref.: WD23002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.95\|0.95 |
| 2,4,5-T | 0.71\|(ND) | 0.19 | 0.095\|0.095 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.095\|0.095 |
| DALAPON | (ND)\|ND | 10 | 5.0\|5.0 |
| DICAMBA | (ND)\|ND | 1.3 | 0.67\|0.67 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.95\|0.95 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (213.9)\|150.9 | 168.2 | (127)\|89.7 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D122 | Date Extracted: 04/19/12 17:20 |
| Sample ID: MBLK1S | Date Analyzed: 04/23/12 14:11 |
| Lab Samp ID: HED011SB | Dilution Factor: 1 |
| Lab File ID: WD23003A | Matrix : SOIL |
| Ext Btch ID: HED011S | % Moisture : NA |
| Calib. Ref.: WD23002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|1.2J | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (190.2)\|156.7 | 150.0 | (127)\|104 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HED011SB | HED011SL | HED011SC | | |
| LAB FILE ID: | WD23003A | WD23004A | WD23005A | | |
| DATE EXTRACTED: | 04/19/1217:20 | 04/19/1217:20 | 04/19/1217:20 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/23/1214:11 | 04/23/1214:31 | 04/23/1214:51 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | HED011S | HED011S | HED011S | | |
| CALIB. REF: | WD23002A | WD23002A | WD23002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | (13.3)\|12.2 | (89)\|81 | 15.0 | (14.0)\|13.0 | (93)\|87 | (5)\|6 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 10.6\|(13.4) | 71\|(89) | 15.0 | 12.5\|(14.2) | 83\|(95) | 16\|(6) | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | 13.1\|(14.0) | 87\|(93) | 15.0 | 14.1\|(15.2) | 94\|(101) | 7\|(8) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 15.0 | 12.2\|(13.3) | 81\|(89) | 15.0 | 13.2\|(14.1) | 88\|(94) | 8\|(6) | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | 8.64J\|(10.5) | 58\|(70) | 15.0 | 9.19\|(10.1) | 61\|(67) | 6\|(4) | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (13.2)\|11.8 | (88)\|79 | 15.0 | (13.9)\|12.5 | (93)\|83 | (5)\|6 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | 14.2\|(14.4) | 95\|(96) | 15.0 | 14.9\|(15.2) | 99\|(101) | 5\|(5) | 60-160 | 50 |
| Dinoseb | (ND)\|1.2J | 15.0 | (9.35)\|8.91 | (62)\|59 | 15.0 | (10.6)\|10.3 | (71)\|69 | (13)\|14 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (718)\|649 | (96)\|87 | 750 | (749)\|673 | (100)\|90 | (4)\|4 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | (719)\|540 | (96)\|72 | 750 | (738)\|562 | (98)\|75 | (3)\|4 | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 | (153.8)\|124.8 | (103)\|83.2 | 150.0 | (155.6)\|130.4 | (104)\|87.0 | 10-150 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/16/12 16:08 |
| Sample ID: EB-NBZ-SS-041212 | Date Analyzed: 04/17/12 15:50 |
| Lab Samp ID: D122-06 | Dilution Factor: 1 |
| Lab File ID: XD17009A | Matrix : WATER |
| Ext Btch ID: EXD011W | % Moisture : NA |
| Calib. Ref.: XD17002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | ND | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 3.48 | 4.000 | 87.1 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D122 | Date Extracted: 04/16/12 16:08 |
| Sample ID: MBLK1W | Date Analyzed: 04/17/12 12:26 |
| Lab Samp ID: EXD011WB | Dilution Factor: 1 |
| Lab File ID: XD17003A | Matrix : WATER |
| Ext Btch ID: EXD011W | % Moisture : NA |
| Calib. Ref.: XD17002A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | ND | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 3.84 | 4.000 | 95.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 8330A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | EXD011WB | EXD011WL | EXD011WC | | |
| LAB FILE ID: | XD17003A | XD17006A | XD17007A | | |
| DATE EXTRACTED: | 04/16/1216:08 | 04/16/1216:08 | 04/16/1216:08 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/17/1212:26 | 04/17/1214:08 | 04/17/1214:42 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | EXD011W | EXD011W | EXD011W | | |
| CALIB. REF: | XD17002A | XD17002A | XD17002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 4.00 | 3.35 | 84 | 4.00 | 3.35 | 84 | 0 | 70-130 | 30 |
| RDX | ND | 4.00 | 3.14 | 79 | 4.00 | 3.12 | 78 | 1 | 60-130 | 30 |
| 1,3,5-Trinitrobenzene | ND | 4.00 | 3.81 | 95 | 4.00 | 3.83 | 96 | 1 | 70-130 | 30 |
| 1,3-Dinitrobenzene | ND | 4.00 | 3.42 | 85 | 4.00 | 3.42 | 85 | 0 | 70-130 | 30 |
| Tetryl | ND | 4.00 | 3.50 | 87 | 4.00 | 3.68 | 92 | 5 | 70-130 | 30 |
| Nitrobenzene | ND | 4.00 | 3.41 | 85 | 4.00 | 3.51 | 88 | 3 | 70-130 | 30 |
| 2,4,6-Trinitrotoluene | ND | 4.00 | 3.32 | 83 | 4.00 | 3.41 | 85 | 3 | 70-130 | 30 |
| 4-Amino-2,6-Dinitrotoluene | ND | 4.00 | 3.61 | 90 | 4.00 | 3.47 | 87 | 4 | 70-130 | 30 |
| 2-Amino-4,6-Dinitrotoluene | ND | 4.00 | 3.53 | 88 | 4.00 | 3.50 | 87 | 1 | 70-130 | 30 |
| 2,6-Dinitrotoluene | ND | 4.00 | 3.71 | 93 | 4.00 | 3.69 | 92 | 1 | 70-130 | 30 |
| 2,4-Dinitrotoluene | ND | 4.00 | 3.97 | 99 | 4.00 | 3.95 | 99 | 1 | 70-130 | 30 |
| 2-Nitrotoluene | ND | 4.00 | 3.60 | 90 | 4.00 | 3.48 | 87 | 4 | 70-130 | 30 |
| 3-Nitrotoluene | ND | 4.00 | 3.40 | 85 | 4.00 | 3.48 | 87 | 2 | 70-130 | 30 |
| 4-Nitrotoluene | ND | 4.00 | 3.05 | 76 | 4.00 | 3.47 | 87 | 13 | 70-130 | 30 |
| 2,4-Diamino-6-nitrotoluene | ND | 4.00 | 1.23J | 31 | 4.00 | 1.28J | 32 | 4 | 20-130 | 30 |
| 2,6-Diamino-4-nitrotoluene | ND | 4.00 | 1.27J | 32 | 4.00 | 1.28J | 32 | 1 | 20-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 4.00 | 3.67 | 92 | 4.00 | 3.59 | 90 | 65-135 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/16/12 19:08 |
| Sample ID: SL-011-NBZ-SS-0.0-0.5 | Date Analyzed: 04/18/12 03:47 |
| Lab Samp ID: D122-01 | Dilution Factor: 1 |
| Lab File ID: XD17030A | Matrix : SOIL |
| Ext Btch ID: EXD012S | % Moisture : NA |
| Calib. Ref.: XD17022A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1830 | 2000 | 91.3 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D122 | Date Extracted: 04/16/12 19:08 |
| Sample ID: MBLK1S | Date Analyzed: 04/17/12 17:33 |
| Lab Samp ID: EXD012SB | Dilution Factor: 1 |
| Lab File ID: XD17012A | Matrix : SOIL |
| Ext Btch ID: EXD012S | % Moisture : NA |
| Calib. Ref.: XD17011A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1910 | 2000 | 95.7 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 8330A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD012SB | EXD012SL | EXD012SC | | |
| LAB FILE ID: | XD17012A | XD17013A | XD17014A | | |
| DATE EXTRACTED: | 04/16/1219:08 | 04/16/1219:08 | 04/16/1219:08 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/17/1217:33 | 04/17/1218:07 | 04/17/1218:41 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | EXD012S | EXD012S | EXD012S | | |
| CALIB. REF: | XD17011A | XD17011A | XD17011A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 1800 | 90 | 2000 | 1840 | 92 | 2 | 70-130 | 50 |
| RDX | ND | 2000 | 1980 | 99 | 2000 | 1940 | 97 | 2 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2140 | 107 | 2000 | 2150 | 107 | 0 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2100 | 105 | 2000 | 2120 | 106 | 1 | 70-130 | 50 |
| Tetryl | ND | 2000 | 1950 | 97 | 2000 | 1900 | 95 | 2 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 2180 | 109 | 2000 | 2190 | 110 | 1 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 1810 | 90 | 2000 | 1900 | 95 | 5 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 1920 | 96 | 2000 | 1900 | 95 | 1 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 1980 | 99 | 2000 | 1870 | 94 | 5 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2080 | 104 | 2000 | 2070 | 103 | 1 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2140 | 107 | 2000 | 2150 | 108 | 0 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 1780 | 89 | 2000 | 2200 | 110 | 21 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1930 | 97 | 2000 | 1780 | 89 | 8 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 1950 | 97 | 2000 | 1970 | 99 | 1 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1930 | 97 | 2000 | 1940 | 97 | 0 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2080 | 104 | 2000 | 2090 | 104 | 0 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1940 | 97 | 2000 | 1900 | 95 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/12/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/12/12 |
| Batch No. | : 12D122 | Date Extracted | : 04/16/12 15:47 |
| Sample ID | : EB-NBZ-SS-041212 | Date Analyzed | : 04/17/12 13:05 |
| Lab Samp ID | : D122-06 | Dilution Factor | : 1 |
| Lab File ID | : PD17007A | Matrix | : WATER |
| Ext Btch ID | : EXD010W | % Moisture | : NA |
| Calib. Ref. | : PD17002A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 564 | 500.0 | 113 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D122 | Date Extracted: 04/16/12 15:47 |
| Sample ID: MBLK1W | Date Analyzed: 04/17/12 12:09 |
| Lab Samp ID: EXD010WB | Dilution Factor: 1 |
| Lab File ID: PD17003A | Matrix : WATER |
| Ext Btch ID: EXD010W | % Moisture : NA |
| Calib. Ref.: PD17002A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 579 | 500.0 | 116 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | EXD010WB | EXD010WL | EXD010WC | | |
| LAB FILE ID: | PD17003A | PD17004A | PD17005A | | |
| DATE EXTRACTED: | 04/16/1215:47 | 04/16/1215:47 | 04/16/1215:47 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/17/1212:09 | 04/17/1212:23 | 04/17/1212:37 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | EXD010W | EXD010W | EXD010W | | |
| CALIB. REF: | PD17002A | PD17002A | PD17002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 1870 | 1930 | 103 | 1870 | 1990 | 106 | 3 | 50-150 | 30 |
| PETN | ND | 1870 | 1840 | 98 | 1870 | 1810 | 97 | 1 | 50-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 500 | 574 | 115 | 500 | 581 | 116 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 04/12/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/12/12 |
| Batch No. : 12D122 | Date Extracted: 04/16/12 19:08 |
| Sample ID: SL-011-NBZ-SS-0.0-0.5 | Date Analyzed: 04/17/12 19:58 |
| Lab Samp ID: D122-01 | Dilution Factor: 1 |
| Lab File ID: PD17027A | Matrix : SOIL |
| Ext Btch ID: EXD012S | % Moisture : NA |
| Calib. Ref.: PD17019A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2480 | 2000 | 124 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D122 | Date Extracted: 04/16/12 19:08 |
| Sample ID: MBLK1S | Date Analyzed: 04/17/12 15:45 |
| Lab Samp ID: EXD012SB | Dilution Factor: 1 |
| Lab File ID: PD17009A | Matrix : SOIL |
| Ext Btch ID: EXD012S | % Moisture : NA |
| Calib. Ref.: PD17008A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2350 | 2000 | 117 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: Method 8332

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD012SB | EXD012SX | EXD012SY | | |
| LAB FILE ID: | PD17009A | PD17010A | PD17011A | | |
| DATE EXTRACTED: | 04/16/1219:08 | 04/16/1219:08 | 04/16/1219:08 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/17/1215:45 | 04/17/1215:59 | 04/17/1216:12 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | EXD012S | EXD012S | EXD012S | | |
| CALIB. REF: | PD17008A | PD17008A | PD17008A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 6940 | 92 | 7500 | 7670 | 102 | 10 | 50-150 | 50 |
| PETN | ND | 7500 | 6930 | 92 | 7500 | 7410 | 99 | 7 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2320 | 116 | 2000 | 2350 | 118 | 65-135 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D122

Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CND006SB | ND | 1 | NA | 0.500 | 0.250 | 04/18/1218:12 | 04/18/1211:00 | CND00610 | CND00608 | CND006S | NA | 04/18/12 |
| LCS1S | CND006SL | 2.47 | 1 | NA | 0.500 | 0.250 | 04/18/1218:12 | 04/18/1211:00 | CND00611 | CND00608 | CND006S | NA | 04/18/12 |
| LCD1S | CND006SC | 2.44 | 1 | NA | 0.500 | 0.250 | 04/18/1218:12 | 04/18/1211:00 | CND00612 | CND00608 | CND006S | NA | 04/18/12 |
| SL-011-NBZ-SS-0.0-0.5 | D122-01 | ND | 1 | 12.1 | 0.569 | 0.284 | 04/18/1218:16 | 04/18/1211:00 | CND00625 | CND00620 | CND006S | 04/12/1211:12 | 04/12/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D122
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CND006SL/C

DATE RECEIVED: 04/18/12
DATE EXTRACTED: 04/18/1211:00
DATE ANALYZED: 04/18/1218:12/18:12

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.47 | 99 | 2.50 | 2.44 | 98 | 1 | 85-125 | 20 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D122

Matrix : WATER
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | CND009WB | ND | 1 | NA | 0.0100 | 0.00500 | 04/23/1217:56 | 04/23/1212:05 | CND00910 | CND00908 | CND009W | NA | 04/23/12 |
| LCS1W | CND009WL | 0.104 | 1 | NA | 0.0100 | 0.00500 | 04/23/1217:56 | 04/23/1212:05 | CND00911 | CND00908 | CND009W | NA | 04/23/12 |
| LCD1W | CND009WC | 0.108 | 1 | NA | 0.0100 | 0.00500 | 04/23/1217:56 | 04/23/1212:05 | CND00912 | CND00908 | CND009W | NA | 04/23/12 |
| EB-NBZ-SS-041212 | D122-06 | ND | 1 | NA | 0.0100 | 0.00500 | 04/23/1217:58 | 04/23/1212:05 | CND00915 | CND00908 | CND009W | 04/12/1215:00 | 04/12/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 12D122
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: CND009WL/C

DATE RECEIVED: 04/23/12
DATE EXTRACTED: 04/23/1212:05
DATE ANALYZED: 04/23/1217:56/17:56

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 0.100 | 0.104 | 104 | 0.100 | 0.108 | 108 | 4 | 85-115 | 20 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/12/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/12/12 |
| SDG NO. | : 12D122 | Date Extracted | : 04/20/12 10:35 |
| Sample ID | : SL-011-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 18:53 |
| Lab Samp ID | : D122-01W | Dilution Factor | : 0.962 |
| Lab File ID | : 98D19075 | Matrix | : SOIL |
| Ext Btch ID | : IMD030S | % Moisture | : 12.1 |
| Calib. Ref. | : 98D19065 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10100 | 26.3 | 13.1 |
| Antimony | 0.140J | 0.219 | 0.109 |
| Arsenic | 5.00 | 0.438 | 0.219 |
| Barium | 69.4 | 0.438 | 0.219 |
| Beryllium | 0.340 | 0.109 | 0.0547 |
| Boron | ND | 5.47 | 2.74 |
| Cadmium | 0.188 | 0.109 | 0.0547 |
| Calcium | 2350 | 21.9 | 10.9 |
| Chromium | 10.9 | 0.438 | 0.219 |
| Cobalt | 4.21 | 0.109 | 0.0547 |
| Copper | 5.31 | 0.438 | 0.219 |
| Iron | 16800 | 21.9 | 10.9 |
| Lead | 8.42 | 0.219 | 0.109 |
| Magnesium | 4120 | 10.9 | 5.47 |
| Manganese | 245 | 0.547 | 0.274 |
| Molybdenum | 0.311 | 0.109 | 0.0547 |
| Nickel | 7.49 | 0.438 | 0.219 |
| Potassium | 3130 | 65.7 | 32.8 |
| Selenium | ND | 0.438 | 0.219 |
| Silver | ND | 0.109 | 0.0547 |
| Sodium | ND | 109 | 54.7 |
| Strontium | 12.9 | 0.547 | 0.274 |
| Thallium | 0.206 | 0.109 | 0.0547 |
| Tin | ND | 10.9 | 5.47 |
| Titanium | 761 | 1.09 | 0.547 |
| Vanadium | 23.9 | 0.109 | 0.0547 |
| Zinc | 50.0 | 3.28 | 1.64 |
| Lithium | 24.7 | 2.19 | 1.09 |
| Phosphorus | 409 | 13.1 | 6.57 |
| Zirconium | ND | 5.47 | 2.74 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/12/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/12/12 |
| SDG NO. | : 12D122 | Date Extracted | : 04/20/12 10:35 |
| Sample ID | : SL-144-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 19:11 |
| Lab Samp ID | : D122-02W | Dilution Factor | : 0.995 |
| Lab File ID | : 98D19079 | Matrix | : SOIL |
| Ext Btch ID | : IMD030S | % Moisture | : 13.2 |
| Calib. Ref. | : 98D19077 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 13200 | 27.5 | 13.8 |
| Antimony | 0.230 | 0.229 | 0.115 |
| Arsenic | 6.10 | 0.459 | 0.229 |
| Barium | 106 | 0.459 | 0.229 |
| Beryllium | 0.596 | 0.115 | 0.0573 |
| Boron | ND | 5.73 | 2.87 |
| Cadmium | 0.210 | 0.115 | 0.0573 |
| Calcium | 3610 | 22.9 | 11.5 |
| Chromium | 18.7 | 0.459 | 0.229 |
| Cobalt | 7.16 | 0.115 | 0.0573 |
| Copper | 10.5 | 0.459 | 0.229 |
| Iron | 23700 | 22.9 | 11.5 |
| Lead | 9.90 | 0.229 | 0.115 |
| Magnesium | 5420 | 11.5 | 5.73 |
| Manganese | 338 | 0.573 | 0.287 |
| Molybdenum | 0.651 | 0.115 | 0.0573 |
| Nickel | 11.5 | 0.459 | 0.229 |
| Potassium | 3030 | 68.8 | 34.4 |
| Selenium | 0.464 | 0.459 | 0.229 |
| Silver | ND | 0.115 | 0.0573 |
| Sodium | 71.0J | 115 | 57.3 |
| Strontium | 16.1 | 0.573 | 0.287 |
| Thallium | 0.302 | 0.115 | 0.0573 |
| Tin | ND | 11.5 | 5.73 |
| Titanium | 1010 | 1.15 | 0.573 |
| Vanadium | 36.4 | 0.115 | 0.0573 |
| Zinc | 65.0 | 3.44 | 1.72 |
| Lithium | 24.2 | 2.29 | 1.15 |
| Phosphorus | 484 | 13.8 | 6.88 |
| Zirconium | ND | 5.73 | 2.87 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/12/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/12/12 |
| SDG NO. | : 12D122 | Date Extracted | : 04/20/12 10:35 |
| Sample ID | : SL-152-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 19:16 |
| Lab Samp ID | : D122-03W | Dilution Factor | : 0.985 |
| Lab File ID | : 98D19080 | Matrix | : SOIL |
| Ext Btch ID | : IMD030S | % Moisture | : 15.8 |
| Calib. Ref. | : 98D19077 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10600 | 28.1 | 14.0 |
| Antimony | 0.294 | 0.234 | 0.117 |
| Arsenic | 5.54 | 0.468 | 0.234 |
| Barium | 68.6 | 0.468 | 0.234 |
| Beryllium | 0.408 | 0.117 | 0.0585 |
| Boron | ND | 5.85 | 2.92 |
| Cadmium | 0.163 | 0.117 | 0.0585 |
| Calcium | 2260 | 23.4 | 11.7 |
| Chromium | 12.1 | 0.468 | 0.234 |
| Cobalt | 5.74 | 0.117 | 0.0585 |
| Copper | 6.93 | 0.468 | 0.234 |
| Iron | 17400 | 23.4 | 11.7 |
| Lead | 12.4 | 0.234 | 0.117 |
| Magnesium | 3900 | 11.7 | 5.85 |
| Manganese | 202 | 0.585 | 0.292 |
| Molybdenum | 0.792 | 0.117 | 0.0585 |
| Nickel | 7.89 | 0.468 | 0.234 |
| Potassium | 2900 | 70.2 | 35.1 |
| Selenium | 0.240J | 0.468 | 0.234 |
| Silver | ND | 0.117 | 0.0585 |
| Sodium | ND | 117 | 58.5 |
| Strontium | 20.3 | 0.585 | 0.292 |
| Thallium | 0.193 | 0.117 | 0.0585 |
| Tin | ND | 11.7 | 5.85 |
| Titanium | 657 | 1.17 | 0.585 |
| Vanadium | 27.1 | 0.117 | 0.0585 |
| Zinc | 44.8 | 3.51 | 1.75 |
| Lithium | 15.6 | 2.34 | 1.17 |
| Phosphorus | 345 | 14.0 | 7.02 |
| Zirconium | ND | 5.85 | 2.92 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/12/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/12/12 |
| SDG NO. | : 12D122 | Date Extracted | : 04/20/12 10:35 |
| Sample ID | : SL-158-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 19:20 |
| Lab Samp ID | : D122-04W | Dilution Factor | : 0.990 |
| Lab File ID | : 98D19081 | Matrix | : SOIL |
| Ext Btch ID | : IMD030S | % Moisture | : 13.2 |
| Calib. Ref. | : 98D19077 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 13200 | 27.4 | 13.7 |
| Antimony | 0.176J | 0.228 | 0.114 |
| Arsenic | 8.27 | 0.456 | 0.228 |
| Barium | 87.7 | 0.456 | 0.228 |
| Beryllium | 0.575 | 0.114 | 0.0570 |
| Boron | ND | 5.70 | 2.85 |
| Cadmium | 0.175 | 0.114 | 0.0570 |
| Calcium | 3380 | 22.8 | 11.4 |
| Chromium | 20.6 | 0.456 | 0.228 |
| Cobalt | 6.19 | 0.114 | 0.0570 |
| Copper | 9.77 | 0.456 | 0.228 |
| Iron | 26200 | 22.8 | 11.4 |
| Lead | 9.44 | 0.228 | 0.114 |
| Magnesium | 6370 | 11.4 | 5.70 |
| Manganese | 216 | 0.570 | 0.285 |
| Molybdenum | 0.395 | 0.114 | 0.0570 |
| Nickel | 14.3 | 0.456 | 0.228 |
| Potassium | 3360 | 68.4 | 34.2 |
| Selenium | 0.408J | 0.456 | 0.228 |
| Silver | ND | 0.114 | 0.0570 |
| Sodium | 69.9J | 114 | 57.0 |
| Strontium | 13.2 | 0.570 | 0.285 |
| Thallium | 0.310 | 0.114 | 0.0570 |
| Tin | ND | 11.4 | 5.70 |
| Titanium | 1150 | 1.14 | 0.570 |
| Vanadium | 38.8 | 0.114 | 0.0570 |
| Zinc | 69.5 | 3.42 | 1.71 |
| Lithium | 35.1 | 2.28 | 1.14 |
| Phosphorus | 356 | 13.7 | 6.84 |
| Zirconium | ND | 5.70 | 2.85 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/12/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/12/12 |
| SDG NO. | : 12D122 | Date Extracted | : 04/20/12 10:35 |
| Sample ID | : SL-172-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/27/12 19:25 |
| Lab Samp ID | : D122-05W | Dilution Factor | : 0.990 |
| Lab File ID | : 98D19082 | Matrix | : SOIL |
| Ext Btch ID | : IMD030S | % Moisture | : 10.8 |
| Calib. Ref. | : 98D19077 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9090 | 26.6 | 13.3 |
| Antimony | 0.140J | 0.222 | 0.111 |
| Arsenic | 3.78 | 0.444 | 0.222 |
| Barium | 71.4 | 0.444 | 0.222 |
| Beryllium | 0.335 | 0.111 | 0.0555 |
| Boron | ND | 5.55 | 2.77 |
| Cadmium | 0.155 | 0.111 | 0.0555 |
| Calcium | 2840 | 22.2 | 11.1 |
| Chromium | 10.1 | 0.444 | 0.222 |
| Cobalt | 4.04 | 0.111 | 0.0555 |
| Copper | 5.52 | 0.444 | 0.222 |
| Iron | 17400 | 22.2 | 11.1 |
| Lead | 8.40 | 0.222 | 0.111 |
| Magnesium | 4080 | 11.1 | 5.55 |
| Manganese | 258 | 0.555 | 0.277 |
| Molybdenum | 0.290 | 0.111 | 0.0555 |
| Nickel | 6.74 | 0.444 | 0.222 |
| Potassium | 3140 | 66.6 | 33.3 |
| Selenium | ND | 0.444 | 0.222 |
| Silver | ND | 0.111 | 0.0555 |
| Sodium | ND | 111 | 55.5 |
| Strontium | 9.20 | 0.555 | 0.277 |
| Thallium | 0.215 | 0.111 | 0.0555 |
| Tin | ND | 11.1 | 5.55 |
| Titanium | 820 | 1.11 | 0.555 |
| Vanadium | 23.3 | 0.111 | 0.0555 |
| Zinc | 53.5 | 3.33 | 1.66 |
| Lithium | 25.5 | 2.22 | 1.11 |
| Phosphorus | 409 | 13.3 | 6.66 |
| Zirconium | ND | 5.55 | 2.77 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/20/12 |
| SDG NO. | : 12D122 | Date Extracted | : 04/20/12 10:35 |
| Sample ID | : MBLK1S | Date Analyzed | : 04/26/12 23:46 |
| Lab Samp ID | : IMD030SB | Dilution Factor | : 1 |
| Lab File ID | : 98D18097 | Matrix | : SOIL |
| Ext Btch ID | : IMD030S | % Moisture | : NA |
| Calib. Ref. | : 98D18095 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D122
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: NA
DILTN FACTR: 1 1 1
SAMPLE ID: MBLK1S
CONTROL NO.: IMD030SB IMD030SL IMD030SC
LAB FILE ID: 98D18097 98D18098 98D18099
DATIME EXTRCTD: 04/20/1210:35 04/20/1210:35 04/20/1210:35 DATE COLLECTED: NA
DATIME ANALYZD: 04/26/1223:46 04/26/1223:50 04/26/1223:55 DATE RECEIVED: 04/20/12
PREP. BATCH: IMD030S IMD030S IMD030S
CALIB. REF: 98D18095 98D18095 98D18095

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2810 | 112 | 2500 | 2650 | 106 | 6 | 80-120 | 20 |
| Antimony | ND | 25.0 | 27.0 | 108 | 25.0 | 25.3 | 101 | 6 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 25.8 | 103 | 25.0 | 24.4 | 98 | 6 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.7 | 103 | 25.0 | 24.3 | 97 | 6 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 24.2 | 97 | 25.0 | 22.7 | 91 | 6 | 80-120 | 20 |
| Boron | ND | 25.0 | 24.8 | 99 | 25.0 | 23.8 | 95 | 5 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 25.4 | 102 | 25.0 | 24.2 | 97 | 5 | 80-120 | 20 |
| Calcium | ND | 2500 | 2650 | 106 | 2500 | 2500 | 100 | 6 | 80-120 | 20 |
| Chromium | ND | 25.0 | 25.1 | 101 | 25.0 | 23.4 | 94 | 7 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 25.6 | 102 | 25.0 | 24.1 | 96 | 6 | 80-120 | 20 |
| Copper | ND | 25.0 | 24.6 | 99 | 25.0 | 23.1 | 93 | 6 | 80-120 | 20 |
| Iron | ND | 2500 | 2660 | 106 | 2500 | 2490 | 100 | 6 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.1 | 100 | 25.0 | 24.3 | 97 | 3 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2780 | 111 | 2500 | 2620 | 105 | 6 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.8 | 103 | 25.0 | 23.8 | 95 | 8 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 26.3 | 105 | 25.0 | 25.1 | 100 | 5 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.6 | 98 | 25.0 | 23.2 | 93 | 6 | 80-120 | 20 |
| Potassium | ND | 2500 | 2720 | 109 | 2500 | 2620 | 105 | 4 | 80-120 | 20 |
| Selenium | ND | 25.0 | 25.5 | 102 | 25.0 | 24.3 | 97 | 5 | 80-120 | 20 |
| Silver | ND | 25.0 | 26.1 | 104 | 25.0 | 25.2 | 101 | 4 | 80-120 | 20 |
| Sodium | ND | 2500 | 2610 | 104 | 2500 | 2480 | 99 | 5 | 80-120 | 20 |
| Strontium | ND | 25.0 | 26.1 | 104 | 25.0 | 24.6 | 98 | 6 | 80-120 | 20 |
| Thallium | ND | 25.0 | 26.0 | 104 | 25.0 | 25.6 | 102 | 2 | 80-120 | 20 |
| Tin | ND | 25.0 | 28.8 | 115 | 25.0 | 27.6 | 111 | 4 | 80-120 | 20 |
| Titanium | ND | 25.0 | 27.1 | 108 | 25.0 | 25.2 | 101 | 7 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 25.6 | 103 | 25.0 | 24.2 | 97 | 6 | 80-120 | 20 |
| Zinc | ND | 50.0 | 50.0 | 100 | 50.0 | 48.2 | 96 | 4 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.9 | 104 | 25.0 | 24.3 | 97 | 6 | 80-120 | 20 |
| Phosphorus | ND | 250 | 265 | 106 | 250 | 255 | 102 | 4 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 25.6 | 102 | 25.0 | 24.3 | 97 | 5 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D122
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 16.5
DILTN FACTR: 0.952 0.952
SAMPLE ID: SL-183-NBZ-SS-0.0-0.5
CONTROL NO.: D135-02 D135-02A
LAB FILE ID: 98D18103 98D18102
DATIME EXTRCTD: 04/20/1210:35 04/20/1210:35 DATE COLLECTED: 04/13/12
DATIME ANALYZD: 04/27/1200:13 04/27/1200:08 DATE RECEIVED: 04/13/12
PREP. BATCH: IMD030S IMD030S
CALIB. REF: 98D18095 98D18095

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 11000 | 2850 | 14000 | 105 | 75-125 |
| Antimony | 0.183J | 28.5 | 29.2 | 102 | 75-125 |
| Arsenic | 6.15 | 28.5 | 33.5 | 96 | 75-125 |
| Barium | 74.6 | 28.5 | 105 | 107 | 75-125 |
| Beryllium | 0.407 | 28.5 | 26.9 | 93 | 75-125 |
| Boron | ND | 28.5 | 28.4 | 100 | 75-125 |
| Cadmium | 0.153 | 28.5 | 27.8 | 97 | 75-125 |
| Calcium | 2330 | 2850 | 5140 | 99 | 75-125 |
| Chromium | 13.7 | 28.5 | 39.5 | 91 | 75-125 |
| Cobalt | 5.07 | 28.5 | 30.7 | 90 | 75-125 |
| Copper | 6.36 | 28.5 | 31.5 | 88 | 75-125 |
| Iron | 18400 | 2850 | 21400 | 105 | 75-125 |
| Lead | 7.33 | 28.5 | 34.2 | 94 | 75-125 |
| Magnesium | 5180 | 2850 | 8070 | 101 | 75-125 |
| Manganese | 308 | 28.5 | 329 | 74* | 75-125 |
| Molybdenum | 0.433 | 28.5 | 29.6 | 102 | 75-125 |
| Nickel | 9.08 | 28.5 | 34.2 | 88 | 75-125 |
| Potassium | 3620 | 2850 | 6410 | 98 | 75-125 |
| Selenium | ND | 28.5 | 27.9 | 98 | 75-125 |
| Silver | ND | 28.5 | 28.1 | 98 | 75-125 |
| Sodium | ND | 2850 | 2680 | 94 | 75-125 |
| Strontium | 10.6 | 28.5 | 38.8 | 99 | 75-125 |
| Thallium | 0.245 | 28.5 | 28.0 | 97 | 75-125 |
| Tin | ND | 28.5 | 32.3 | 113 | 75-125 |
| Titanium | 963 | 28.5 | 996 | 114 | 75-125 |
| Vanadium | 30.3 | 28.5 | 57.8 | 97 | 75-125 |
| Zinc | 50.7 | 57.0 | 105 | 95 | 75-125 |
| Lithium | 28.6 | 28.5 | 57.6 | 102 | 75-125 |
| Phosphorus | 348 | 285 | 641 | 103 | 75-125 |
| Zirconium | ND | 28.5 | 26.8 | 94 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 16.5
DILUTION FACTOR: 0.952 4.76
SAMPLE ID: SL-183-NBZ-SS- SL-183-NBZ-SS-
EMAX SAMP ID: D135-02 D135-02J
LAB FILE ID: 98D18103 98D18104
DATE EXTRACTED: 04/20/1210:35 04/20/1210:35 DATE COLLECTED: 04/13/12
DATE ANALYZED: 04/27/1200:13 04/27/1200:17 DATE RECEIVED: 04/13/12
PREP. BATCH: IMD030S IMD030S
CALIB. REF: 98D18095 98D18095

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 11000 | 11100 | 1 | 10 |
| Antimony | 0.183J | ND | NA | 10 |
| Arsenic | 6.15 | 6.21 | 1 | 10 |
| Barium | 74.6 | 68.1 | 9 | 10 |
| Beryllium | 0.407 | 0.385J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.153 | ND | NA | 10 |
| Calcium | 2330 | 2330 | 0 | 10 |
| Chromium | 13.7 | 13.9 | 1 | 10 |
| Cobalt | 5.07 | 5.22 | 3 | 10 |
| Copper | 6.36 | 6.65 | 5 | 10 |
| Iron | 18400 | 18900 | 3 | 10 |
| Lead | 7.33 | 7.13 | 3 | 10 |
| Magnesium | 5180 | 5190 | 0 | 10 |
| Manganese | 308 | 314 | 2 | 10 |
| Molybdenum | 0.433 | 0.451J | NA | 10 |
| Nickel | 9.08 | 9.30 | 2 | 10 |
| Potassium | 3620 | 3480 | 4 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | ND | ND | 0 | 10 |
| Strontium | 10.6 | 10.1 | 5 | 10 |
| Thallium | 0.245 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 963 | 973 | 1 | 10 |
| Vanadium | 30.3 | 30.4 | 0 | 10 |
| Zinc | 50.7 | 53.7 | 6 | 10 |
| Lithium | 28.6 | 26.6 | 7 | 10 |
| Phosphorus | 348 | 321 | 8 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7470A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D122
Matrix : WATER
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | HGD018WB | ND | 1 | NA | 0.000500 | 0.000100 | 04/19/1211:09 | 04/18/1211:45 | M47D012010 | M47D012008 | HGD018W | NA | 04/18/12 |
| LCS1W | HGD018WL | 0.00526 | 1 | NA | 0.000500 | 0.000100 | 04/19/1211:11 | 04/18/1211:45 | M47D012011 | M47D012008 | HGD018W | NA | 04/18/12 |
| LCD1W | HGD018WC | 0.00526 | 1 | NA | 0.000500 | 0.000100 | 04/19/1211:13 | 04/18/1211:45 | M47D012012 | M47D012008 | HGD018W | NA | 04/18/12 |
| EB-NBZ-SS-041212 | D122-06 | ND | 1 | NA | 0.000500 | 0.000100 | 04/19/1211:16 | 04/18/1211:45 | M47D012013 | M47D012008 | HGD018W | 04/12/12 | 04/12/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D122
METHOD: METHOD 7470A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| CONTROL NO.: | HGD018WB | HGD018WL | HGD018WC | | |
| LAB FILE ID: | M47D012010 | M47D012011 | M47D012012 | | |
| DATIME EXTRCTD: | 04/18/1211:45 | 04/18/1211:45 | 04/18/1211:45 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/19/1211:09 | 04/19/1211:11 | 04/19/1211:13 | DATE RECEIVED: | 04/18/12 |
| PREP. BATCH: | HGD018W | HGD018W | HGD018W | | |
| CALIB. REF: | M47D012008 | M47D012008 | M47D012008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/L | SPIKE AMT mg/L | BS RSLT mg/L | BS % REC | SPIKE AMT mg/L | BSD RSLT mg/L | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .005 | .00526 | 105 | .005 | .00526 | 105 | 0 | 80-120 | 20 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D122
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD020SB | ND | 1 | NA | 0.100 | 0.0500 | 04/20/1215:09 | 04/20/1212:30 | M47D014010 | M47D014008 | HGD020S | NA | 04/20/12 |
| LCS1S | HGD020SL | 0.885 | 1 | NA | 0.100 | 0.0500 | 04/20/1215:11 | 04/20/1212:30 | M47D014011 | M47D014008 | HGD020S | NA | 04/20/12 |
| LCD1S | HGD020SC | 0.872 | 1 | NA | 0.100 | 0.0500 | 04/20/1215:14 | 04/20/1212:30 | M47D014012 | M47D014008 | HGD020S | NA | 04/20/12 |
| SL-011-NBZ-SS-0.0-0.5 | D122-01 | ND | 1.00 | 12.1 | 0.114 | 0.0569 | 04/20/1215:56 | 04/20/1212:30 | M47D014031 | M47D014020 | HGD020S | 04/12/12 | 04/12/12 |
| SL-144-NBZ-SS-0.0-0.5 | D122-02 | ND | 0.992 | 13.2 | 0.114 | 0.0571 | 04/20/1216:02 | 04/20/1212:30 | M47D014034 | M47D014032 | HGD020S | 04/12/12 | 04/12/12 |
| SL-152-NBZ-SS-0.0-0.5 | D122-03 | ND | 1.01 | 15.8 | 0.120 | 0.0600 | 04/20/1216:04 | 04/20/1212:30 | M47D014035 | M47D014032 | HGD020S | 04/12/12 | 04/12/12 |
| SL-158-NBZ-SS-0.0-0.5 | D122-04 | ND | 0.995 | 13.2 | 0.115 | 0.0573 | 04/20/1216:06 | 04/20/1212:30 | M47D014036 | M47D014032 | HGD020S | 04/12/12 | 04/12/12 |
| SL-172-NBZ-SS-0.0-0.5 | D122-05 | ND | 0.998 | 10.8 | 0.112 | 0.0559 | 04/20/1216:08 | 04/20/1212:30 | M47D014037 | M47D014032 | HGD020S | 04/12/12 | 04/12/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D122
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGD020SB | HGD020SL | HGD020SC | | |
| LAB FILE ID: | M47D014010 | M47D014011 | M47D014012 | | |
| DATIME EXTRCTD: | 04/20/1212:30 | 04/20/1212:30 | 04/20/1212:30 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/20/1215:09 | 04/20/1215:11 | 04/20/1215:14 | DATE RECEIVED: | 04/20/12 |
| PREP. BATCH: | HGD020S | HGD020S | HGD020S | | |
| CALIB. REF: | M47D014008 | M47D014008 | M47D014008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .885 | 106 | .833 | .872 | 105 | 2 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D122
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 8.6 |
| DILTN FACTR: | 0.998 | 0.998 | | |
| SAMPLE ID: | SL-191-NBZ-SS-0.0-0.5 | | | |
| CONTROL NO.: | D084-07 | D084-07A | | |
| LAB FILE ID: | M47D014014 | M47D014013 | | |
| DATIME EXTRCTD: | 04/20/1212:30 | 04/20/1212:30 | DATE COLLECTED: | 04/09/12 |
| DATIME ANALYZD: | 04/20/1215:19 | 04/20/1215:16 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | HGD020S | HGD020S | | |
| CALIB. REF: | M47D014008 | M47D014008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .91 | .95 | 104 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 8.6 |
| DILUTION FACTOR: | 0.998 | 4.99 | | |
| SAMPLE ID: | SL-191-NBZ-SS-0.0-0 | SL-191-NBZ-SS-0.0-0 | | |
| EMAX SAMP ID: | D084-07 | D084-07J | | |
| LAB FILE ID: | M47D014014 | M47D014015 | | |
| DATE EXTRACTED: | 04/20/1212:30 | 04/20/1212:30 | DATE COLLECTED: | 04/09/12 |
| DATE ANALYZED: | 04/20/1215:19 | 04/20/1215:21 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | HGD020S | HGD020S | | |
| CALIB. REF: | M47D014008 | M47D014008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D122
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD015SB | ND | 1 | NA | 20.0 | 10.0 | 04/17/1220:29 | 04/16/1210:30 | JD17029 | JD17028 | PCD015S | NA | 04/16/12 |
| LCS1S | PCD015SL | 256 | 1 | NA | 20.0 | 10.0 | 04/17/1221:11 | 04/16/1210:30 | JD17031 | JD17028 | PCD015S | NA | 04/16/12 |
| LCD1S | PCD015SC | 258 | 1 | NA | 20.0 | 10.0 | 04/17/1221:32 | 04/16/1210:30 | JD17032 | JD17028 | PCD015S | NA | 04/16/12 |
| SL-011-NBZ-SS-0.0-0.5 | D122-01 | ND | 1 | 12.1 | 22.8 | 11.4 | 04/18/1201:23 | 04/16/1210:30 | JD17043 | JD17039 | PCD015S | 04/12/1211:12 | 04/12/12 |
| SL-011-NBZ-SS-0.0-0.5MS | D122-01M | 290 | 1 | 12.1 | 22.8 | 11.4 | 04/18/1201:45 | 04/16/1210:30 | JD17044 | JD17039 | PCD015S | 04/12/1211:12 | 04/12/12 |
| SL-011-NBZ-SS-0.0-0.5MSD | D122-01S | 289 | 1 | 12.1 | 22.8 | 11.4 | 04/18/1202:06 | 04/16/1210:30 | JD17045 | JD17039 | PCD015S | 04/12/1211:12 | 04/12/12 |
| SL-144-NBZ-SS-0.0-0.5 | D122-02 | ND | 1 | 13.2 | 23.0 | 11.5 | 04/18/1202:27 | 04/16/1210:30 | JD17046 | JD17039 | PCD015S | 04/12/1209:22 | 04/12/12 |
| SL-152-NBZ-SS-0.0-0.5 | D122-03 | ND | 1 | 15.8 | 23.8 | 11.9 | 04/18/1202:48 | 04/16/1210:30 | JD17047 | JD17039 | PCD015S | 04/12/1209:55 | 04/12/12 |
| SL-158-NBZ-SS-0.0-0.5 | D122-04 | ND | 1 | 13.2 | 23.0 | 11.5 | 04/18/1203:09 | 04/16/1210:30 | JD17048 | JD17039 | PCD015S | 04/12/1215:04 | 04/12/12 |
| SL-172-NBZ-SS-0.0-0.5 | D122-05 | ND | 1 | 10.8 | 22.4 | 11.2 | 04/18/1204:12 | 04/16/1210:30 | JD17051 | JD17050 | PCD015S | 04/12/1214:35 | 04/12/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD015SB | PCD015SL | PCD015SC | | |
| LAB FILE ID: | JD17029 | JD17031 | JD17032 | | |
| DATE EXTRACTED: | 04/16/1210:30 | 04/16/1210:30 | 04/16/1210:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/17/1220:29 | 04/17/1221:11 | 04/17/1221:32 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | PCD015S | PCD015S | PCD015S | | |
| CALIB. REF: | JD17028 | JD17028 | JD17028 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 256 | 102 | 250 | 258 | 103 | 1 | 85-115 | 15 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 12.1 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-011-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D122-01 | D122-01M | D122-01S | | |
| LAB FILE ID: | JD17043 | JD17044 | JD17045 | | |
| DATE EXTRACTED: | 04/16/1210:30 | 04/16/1210:30 | 04/16/1210:30 | DATE COLLECTED: | 04/12/12 11:12 |
| DATE ANALYZED: | 04/18/1201:23 | 04/18/1201:45 | 04/18/1202:06 | DATE RECEIVED: | 04/12/12 |
| PREP. BATCH: | PCD015S | PCD015S | PCD015S | | |
| CALIB. REF: | JD17039 | JD17039 | JD17039 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 284 | 290 | 102 | 284 | 289 | 102 | 0 | 80-120 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D122
Matrix : WATER
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | PCD005WB | ND | 1 | NA | 2.00 | 1.00 | 04/17/1210:17 | NA | JD17002 | JD17001 | PCD005W | NA | NA |
| LCS1W | PCD005WL | 25.3 | 1 | NA | 2.00 | 1.00 | 04/17/1210:59 | NA | JD17004 | JD17001 | PCD005W | NA | NA |
| LCD1W | PCD005WC | 25.1 | 1 | NA | 2.00 | 1.00 | 04/17/1211:20 | NA | JD17005 | JD17001 | PCD005W | NA | NA |
| EB-NBZ-SS-041212 | D122-06 | ND | 1 | NA | 2.00 | 1.00 | 04/17/1212:23 | NA | JD17008 | JD17001 | PCD005W | 04/12/1215:00 | 04/12/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | PCD005WB | PCD005WL | PCD005WC | | |
| LAB FILE ID: | JD17002 | JD17004 | JD17005 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/17/1210:17 | 04/17/1210:59 | 04/17/1211:20 | DATE RECEIVED: | NA |
| PREP. BATCH: | PCD005W | PCD005W | PCD005W | | |
| CALIB. REF: | JD17001 | JD17001 | JD17001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 25.0 | 25.3 | 101 | 25.0 | 25.1 | 100 | 1 | 85-115 | 15 |

METHOD 9040C
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D122

Matrix : WATER
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EB-NBZ-SS-041212 | D122-06 | 4.72 | 1 | NA | NA | NA | 04/12/1218:49 | NA | 12PHD012W04 | PHD012W | PHD012W | 04/12/1215:00 | 04/12/12 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D122
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-011-NBZ-SS-0.0-0.5 | D122-01 | 6.73 | 1 | NA | NA | NA | 04/13/1217:03 | 04/13/1217:03 | 12PHD013S01 | PHD013S | PHD013S | 04/12/1211:12 | 04/12/12 |
| SL-011-NBZ-SS-0.0-0.5DUP | D122-01D | 6.74 | 1 | NA | NA | NA | 04/13/1217:04 | 04/13/1217:03 | 12PHD013S02 | PHD013S | PHD013S | 04/12/1211:12 | 04/12/12 |
| SL-144-NBZ-SS-0.0-0.5 | D122-02 | 6.73 | 1 | NA | NA | NA | 04/13/1217:06 | 04/13/1217:03 | 12PHD013S03 | PHD013S | PHD013S | 04/12/1209:22 | 04/12/12 |
| SL-152-NBZ-SS-0.0-0.5 | D122-03 | 5.88 | 1 | NA | NA | NA | 04/13/1217:07 | 04/13/1217:03 | 12PHD013S04 | PHD013S | PHD013S | 04/12/1209:55 | 04/12/12 |
| SL-158-NBZ-SS-0.0-0.5 | D122-04 | 7.28 | 1 | NA | NA | NA | 04/13/1217:10 | 04/13/1217:03 | 12PHD013S05 | PHD013S | PHD013S | 04/12/1215:04 | 04/12/12 |
| SL-172-NBZ-SS-0.0-0.5 | D122-05 | 7.17 | 1 | NA | NA | NA | 04/13/1217:12 | 04/13/1217:03 | 12PHD013S06 | PHD013S | PHD013S | 04/12/1214:35 | 04/12/12 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D122

Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD008SB | ND | 1 | NA | 1.50 | 0.750 | 04/16/1214:03 | 04/16/1210:24 | AD21-08 | AD21-06 | ICD008S | NA | 04/16/12 |
| LCS1S | ICD008SL | 26.1 | 1 | NA | 1.50 | 0.750 | 04/16/1214:19 | 04/16/1210:24 | AD21-09 | AD21-06 | ICD008S | NA | 04/16/12 |
| LCD1S | ICD008SC | 26.2 | 1 | NA | 1.50 | 0.750 | 04/16/1214:36 | 04/16/1210:24 | AD21-10 | AD21-06 | ICD008S | NA | 04/16/12 |
| SL-011-NBZ-SS-0.0-0.5 | D122-01 | 8.37 | 1 | 12.1 | 1.71 | 0.853 | 04/16/1217:33 | 04/16/1210:24 | AD21-21 | AD21-18 | ICD008S | 04/12/1211:12 | 04/12/12 |
| SL-011-NBZ-SS-0.0-0.5MS | D122-01M | 41.3 | 1 | 12.1 | 1.71 | 0.853 | 04/16/1217:50 | 04/16/1210:24 | AD21-22 | AD21-18 | ICD008S | 04/12/1211:12 | 04/12/12 |
| SL-011-NBZ-SS-0.0-0.5MSD | D122-01S | 41.7 | 1 | 12.1 | 1.71 | 0.853 | 04/16/1218:06 | 04/16/1210:24 | AD21-23 | AD21-18 | ICD008S | 04/12/1211:12 | 04/12/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD008SB | ICD008SL | ICD008SC | | |
| LAB FILE ID: | AD21-08 | AD21-09 | AD21-10 | | |
| DATE EXTRACTED: | 04/16/1210:24 | 04/16/1210:24 | 04/16/1210:24 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/16/1214:03 | 04/16/1214:19 | 04/16/1214:36 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | ICD008S | ICD008S | ICD008S | | |
| CALIB. REF: | AD21-06 | AD21-06 | AD21-06 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 26.6 | 26.1 | 98 | 26.6 | 26.2 | 99 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 12.1 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-011-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D122-01 | D122-01M | D122-01S | | |
| LAB FILE ID: | AD21-21 | AD21-22 | AD21-23 | | |
| DATE EXTRACTED: | 04/16/1210:24 | 04/16/1210:24 | 04/16/1210:24 | DATE COLLECTED: | 04/12/12 11:12 |
| DATE ANALYZED: | 04/16/1217:33 | 04/16/1217:50 | 04/16/1218:06 | DATE RECEIVED: | 04/12/12 |
| PREP. BATCH: | ICD008S | ICD008S | ICD008S | | |
| CALIB. REF: | AD21-18 | AD21-18 | AD21-18 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | 8.37 | 30.3 | 41.3 | 109 | 30.3 | 41.7 | 110 | 1 | 80-120 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D122

Matrix : WATER
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | ICD023WB | ND | 1 | NA | 0.443 | 0.222 | 04/13/1210:12 | NA | AD19-03 | AD19-01 | ICD023W | NA | NA |
| LCS1W | ICD023WL | 8.81 | 1 | NA | 0.443 | 0.222 | 04/13/1210:44 | NA | AD19-05 | AD19-01 | ICD023W | NA | NA |
| LCD1W | ICD023WC | 8.82 | 1 | NA | 0.443 | 0.222 | 04/13/1211:01 | NA | AD19-06 | AD19-01 | ICD023W | NA | NA |
| EB-NBZ-SS-041212 | D122-06 | ND | 1 | NA | 0.443 | 0.222 | 04/13/1211:17 | NA | AD19-07 | AD19-01 | ICD023W | 04/12/1215:00 | 04/12/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | ICD023WB | ICD023WL | ICD023WC | | |
| LAB FILE ID: | AD19-03 | AD19-05 | AD19-06 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/13/1210:12 | 04/13/1210:44 | 04/13/1211:01 | DATE RECEIVED: | NA |
| PREP. BATCH: | ICD023W | ICD023W | ICD023W | | |
| CALIB. REF: | AD19-01 | AD19-01 | AD19-01 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 8.86 | 8.81 | 99 | 8.86 | 8.82 | 100 | 0 | 90-110 | 20 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D122

Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD008SB | ND | 1 | NA | 1.00 | 0.500 | 04/16/1214:03 | 04/16/1210:24 | AD21-08 | AD21-06 | ICD008S | NA | 04/16/12 |
| LCS1S | ICD008SL | 5.99 | 1 | NA | 1.00 | 0.500 | 04/16/1214:19 | 04/16/1210:24 | AD21-09 | AD21-06 | ICD008S | NA | 04/16/12 |
| LCD1S | ICD008SC | 6.01 | 1 | NA | 1.00 | 0.500 | 04/16/1214:36 | 04/16/1210:24 | AD21-10 | AD21-06 | ICD008S | NA | 04/16/12 |
| SL-152-NBZ-SS-0.0-0.5 | D122-03 | ND | 1 | 15.8 | 1.19 | 0.594 | 04/16/1215:56 | 04/16/1210:24 | AD21-15 | AD21-06 | ICD008S | 04/12/1209:55 | 04/12/12 |
| SL-158-NBZ-SS-0.0-0.5 | D122-04 | 0.652J | 1 | 13.2 | 1.15 | 0.576 | 04/16/1216:13 | 04/16/1210:24 | AD21-16 | AD21-06 | ICD008S | 04/12/1215:04 | 04/12/12 |
| SL-172-NBZ-SS-0.0-0.5 | D122-05 | ND | 1 | 10.8 | 1.12 | 0.561 | 04/16/1216:29 | 04/16/1210:24 | AD21-17 | AD21-06 | ICD008S | 04/12/1214:35 | 04/12/12 |
| SL-011-NBZ-SS-0.0-0.5 | D122-01 | ND | 1 | 12.1 | 1.14 | 0.569 | 04/16/1217:33 | 04/16/1210:24 | AD21-21 | AD21-18 | ICD008S | 04/12/1211:12 | 04/12/12 |
| SL-011-NBZ-SS-0.0-0.5MS | D122-01M | 8.01 | 1 | 12.1 | 1.14 | 0.569 | 04/16/1217:50 | 04/16/1210:24 | AD21-22 | AD21-18 | ICD008S | 04/12/1211:12 | 04/12/12 |
| SL-011-NBZ-SS-0.0-0.5MSD | D122-01S | 7.94 | 1 | 12.1 | 1.14 | 0.569 | 04/16/1218:06 | 04/16/1210:24 | AD21-23 | AD21-18 | ICD008S | 04/12/1211:12 | 04/12/12 |
| SL-144-NBZ-SS-0.0-0.5 | D122-02 | 1.49 | 1 | 13.2 | 1.15 | 0.576 | 04/16/1218:22 | 04/16/1210:24 | AD21-24 | AD21-18 | ICD008S | 04/12/1209:22 | 04/12/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD008SB | ICD008SL | ICD008SC | | |
| LAB FILE ID: | AD21-08 | AD21-09 | AD21-10 | | |
| DATE EXTRACTED: | 04/16/1210:24 | 04/16/1210:24 | 04/16/1210:24 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/16/1214:03 | 04/16/1214:19 | 04/16/1214:36 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | ICD008S | ICD008S | ICD008S | | |
| CALIB. REF: | AD21-06 | AD21-06 | AD21-06 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 5.99 | 100 | 6.00 | 6.01 | 100 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: 300.0

MATRIX: SOIL % MOISTURE: 12.1

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-011-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D122-01 | D122-01M | D122-01S | | |
| LAB FILE ID: | AD21-21 | AD21-22 | AD21-23 | | |
| DATE EXTRACTED: | 04/16/1210:24 | 04/16/1210:24 | 04/16/1210:24 | DATE COLLECTED: | 04/12/12 11:12 |
| DATE ANALYZED: | 04/16/1217:33 | 04/16/1217:50 | 04/16/1218:06 | DATE RECEIVED: | 04/12/12 |
| PREP. BATCH: | ICD008S | ICD008S | ICD008S | | |
| CALIB. REF: | AD21-18 | AD21-18 | AD21-18 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.83 | 8.01 | 117 | 6.83 | 7.94 | 116 | 1 | 80-120 | 20 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D122

Matrix : WATER
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | ICD023WB | ND | 1 | NA | 0.100 | 0.0500 | 04/13/1210:12 | NA | AD19-03 | AD19-01 | ICD023W | NA | NA |
| LCS1W | ICD023WL | 2.02 | 1 | NA | 0.100 | 0.0500 | 04/13/1210:44 | NA | AD19-05 | AD19-01 | ICD023W | NA | NA |
| LCD1W | ICD023WC | 2.02 | 1 | NA | 0.100 | 0.0500 | 04/13/1211:01 | NA | AD19-06 | AD19-01 | ICD023W | NA | NA |
| EB-NBZ-SS-041212 | D122-06 | ND | 1 | NA | 0.100 | 0.0500 | 04/13/1211:17 | NA | AD19-07 | AD19-01 | ICD023W | 04/12/1215:00 | 04/12/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | ICD023WB | ICD023WL | ICD023WC | | |
| LAB FILE ID: | AD19-03 | AD19-05 | AD19-06 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/13/1210:12 | 04/13/1210:44 | 04/13/1211:01 | DATE RECEIVED: | NA |
| PREP. BATCH: | ICD023W | ICD023W | ICD023W | | |
| CALIB. REF: | AD19-01 | AD19-01 | AD19-01 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 2.00 | 2.02 | 101 | 2.00 | 2.02 | 101 | 0 | 90-110 | 20 |

METHOD 6850
PERCHLORATE BY LC/MS

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D122
Matrix : SOIL
Instrument ID : G0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PLD003SB | ND | 1 | NA | 5.00 | 2.50 | 04/18/1216:50 | 04/17/1215:53 | ND18004 | ND18003 | PLD003S | NA | 04/17/12 |
| LCS1S | PLD003SL | 25.5 | 1 | NA | 5.00 | 2.50 | 04/18/1217:04 | 04/17/1215:53 | ND18005 | ND18003 | PLD003S | NA | 04/17/12 |
| LCD1S | PLD003SC | 25.4 | 1 | NA | 5.00 | 2.50 | 04/18/1217:20 | 04/17/1215:53 | ND18006 | ND18003 | PLD003S | NA | 04/17/12 |
| SL-011-NBZ-SS-0.0-0.5 | D122-01 | ND | 1 | 12.1 | 5.69 | 2.84 | 04/18/1217:48 | 04/17/1215:53 | ND18008 | ND18003 | PLD003S | 04/12/1211:12 | 04/12/12 |
| SL-144-NBZ-SS-0.0-0.5 | D122-02 | ND | 1 | 13.2 | 5.76 | 2.88 | 04/18/1218:03 | 04/17/1215:53 | ND18009 | ND18003 | PLD003S | 04/12/1209:22 | 04/12/12 |
| SL-152-NBZ-SS-0.0-0.5 | D122-03 | ND | 1 | 15.8 | 5.94 | 2.97 | 04/18/1218:17 | 04/17/1215:53 | ND18010 | ND18003 | PLD003S | 04/12/1209:55 | 04/12/12 |
| SL-158-NBZ-SS-0.0-0.5 | D122-04 | ND | 1 | 13.2 | 5.76 | 2.88 | 04/18/1218:31 | 04/17/1215:53 | ND18011 | ND18003 | PLD003S | 04/12/1215:04 | 04/12/12 |
| SL-172-NBZ-SS-0.0-0.5 | D122-05 | ND | 1 | 10.8 | 5.61 | 2.80 | 04/18/1218:45 | 04/17/1215:53 | ND18012 | ND18003 | PLD003S | 04/12/1214:35 | 04/12/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: METHOD 6850

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PLD003SB | PLD003SL | PLD003SC | | |
| LAB FILE ID: | ND18004 | ND18005 | ND18006 | | |
| DATE EXTRACTED: | 04/17/1215:53 | 04/17/1215:53 | 04/17/1215:53 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/18/1216:50 | 04/18/1217:04 | 04/18/1217:20 | DATE RECEIVED: | 04/17/12 |
| PREP. BATCH: | PLD003S | PLD003S | PLD003S | | |
| CALIB. REF: | ND18003 | ND18003 | ND18003 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 25.0 | 25.5 | 102 | 25.0 | 25.4 | 102 | 0 | 85-115 | 15 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D122
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD009SB | ND | 1 | NA | 1.00 | 0.500 | 04/19/1213:47 | 04/17/1213:42 | ID19003 | ID19001 | HCD009S | NA | 04/17/12 |
| MBLK1S | HCD009SQ | ND | 1 | NA | 1.00 | 0.500 | 04/19/1213:57 | 04/17/1213:42 | ID19004 | ID19001 | HCD009S | NA | 04/17/12 |
| LCS1S | CSD009SL | 8.97 | 1 | NA | 1.00 | 0.500 | 04/19/1214:29 | 04/17/1213:42 | ID19005 | ID19001 | HCD009S | NA | 04/17/12 |
| LCS1S | CSD009SX | 8.87 | 1 | NA | 1.00 | 0.500 | 04/19/1214:39 | 04/17/1213:42 | ID19006 | ID19001 | HCD009S | NA | 04/17/12 |
| LCS2S | CID009SL | 309 | 25 | NA | 25.0 | 12.5 | 04/19/1214:49 | 04/17/1213:42 | ID19007 | ID19001 | HCD009S | NA | 04/17/12 |
| LCS2S | CID009SX | 295 | 25 | NA | 25.0 | 12.5 | 04/19/1215:00 | 04/17/1213:42 | ID19008 | ID19001 | HCD009S | NA | 04/17/12 |
| SL-011-NBZ-SS-0.0-0.5 | D122-01 | ND | 1 | 12.1 | 1.14 | 0.569 | 04/19/1220:18 | 04/17/1213:42 | ID19035 | ID19025 | HCD009S | 04/12/1211:12 | 04/12/12 |
| SL-011-NBZ-SS-0.0-0.5 | D122-01R | ND | 1 | 12.1 | 1.14 | 0.569 | 04/19/1220:29 | 04/17/1213:42 | ID19036 | ID19025 | HCD009S | 04/12/1211:12 | 04/12/12 |
| SL-144-NBZ-SS-0.0-0.5 | D122-02 | ND | 1 | 13.2 | 1.15 | 0.576 | 04/19/1221:10 | 04/17/1213:42 | ID19039 | ID19037 | HCD009S | 04/12/1209:22 | 04/12/12 |
| SL-144-NBZ-SS-0.0-0.5 | D122-02R | ND | 1 | 13.2 | 1.15 | 0.576 | 04/19/1221:21 | 04/17/1213:42 | ID19040 | ID19037 | HCD009S | 04/12/1209:22 | 04/12/12 |
| SL-152-NBZ-SS-0.0-0.5 | D122-03 | ND | 1 | 15.8 | 1.19 | 0.594 | 04/19/1221:31 | 04/17/1213:42 | ID19041 | ID19037 | HCD009S | 04/12/1209:55 | 04/12/12 |
| SL-152-NBZ-SS-0.0-0.5 | D122-03R | ND | 1 | 15.8 | 1.19 | 0.594 | 04/19/1221:42 | 04/17/1213:42 | ID19042 | ID19037 | HCD009S | 04/12/1209:55 | 04/12/12 |
| SL-158-NBZ-SS-0.0-0.5 | D122-04 | ND | 1 | 13.2 | 1.15 | 0.576 | 04/19/1221:52 | 04/17/1213:42 | ID19043 | ID19037 | HCD009S | 04/12/1215:04 | 04/12/12 |
| SL-158-NBZ-SS-0.0-0.5 | D122-04R | ND | 1 | 13.2 | 1.15 | 0.576 | 04/19/1222:02 | 04/17/1213:42 | ID19044 | ID19037 | HCD009S | 04/12/1215:04 | 04/12/12 |
| SL-172-NBZ-SS-0.0-0.5 | D122-05 | ND | 1 | 10.8 | 1.12 | 0.561 | 04/19/1222:13 | 04/17/1213:42 | ID19045 | ID19037 | HCD009S | 04/12/1214:35 | 04/12/12 |
| SL-172-NBZ-SS-0.0-0.5 | D122-05R | ND | 1 | 10.8 | 1.12 | 0.561 | 04/19/1222:23 | 04/17/1213:42 | ID19046 | ID19037 | HCD009S | 04/12/1214:35 | 04/12/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 25 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD009SQ | CID009SX | | |
| LAB FILE ID: | ID19004 | ID19008 | | |
| DATE EXTRACTED: | 04/17/1213:42 | 04/17/1213:42 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/19/1213:57 | 04/19/1215:00 | DATE RECEIVED: | 04/17/12 |
| PREP. BATCH: | HCD009S | HCD009S | | |
| CALIB. REF: | ID19001 | ID19001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 355 | 295 | 83 | 80-120 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D122
Matrix : WATER
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | HCD011WB | ND | 1 | NA | 0.200 | 0.100 | 04/13/1210:33 | NA | ID14003 | ID14001 | HCD011W | NA | NA |
| MBLK1W | HCD011WQ | ND | 1 | NA | 0.200 | 0.100 | 04/13/1210:44 | NA | ID14004 | ID14001 | HCD011W | NA | NA |
| LCS1W | HCD011WL | 1.70 | 1 | NA | 0.200 | 0.100 | 04/13/1211:15 | NA | ID14007 | ID14001 | HCD011W | NA | NA |
| LCS1W | HCD011WX | 1.99 | 1 | NA | 0.200 | 0.100 | 04/13/1211:25 | NA | ID14008 | ID14001 | HCD011W | NA | NA |
| LCD1W | HCD011WC | 1.98 | 1 | NA | 0.200 | 0.100 | 04/13/1212:00 | NA | ID14009 | ID14001 | HCD011W | NA | NA |
| LCD1W | HCD011WY | 2.15 | 1 | NA | 0.200 | 0.100 | 04/13/1217:37 | NA | ID14010 | ID14001 | HCD011W | NA | NA |
| EB-NBZ-SS-041212 | D122-06 | ND | 1 | NA | 0.200 | 0.100 | 04/13/1210:54 | NA | ID14005 | ID14001 | HCD011W | 04/12/1215:00 | 04/12/12 |
| EB-NBZ-SS-041212 | D122-06R | ND | 1 | NA | 0.200 | 0.100 | 04/13/1211:05 | NA | ID14006 | ID14001 | HCD011W | 04/12/1215:00 | 04/12/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D122
METHOD: 7199

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HCD011WQ | HCD011WX | HCD011WY | | |
| LAB FILE ID: | ID14004 | ID14008 | ID14010 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/13/1210:44 | 04/13/1211:25 | 04/13/1217:37 | DATE RECEIVED: | NA |
| PREP. BATCH: | HCD011W | HCD011W | HCD011W | | |
| CALIB. REF: | ID14001 | ID14001 | ID14001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 2.00 | 1.99 | 100 | 2.00 | 2.15 | 107 | 8 | 80-120 | 20 |

# SAMPLE DELIVERY GROUP

# 12D135

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/13/12 |
| Batch No. : 12D135 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-180-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 20:06 |
| Lab Samp ID: D135-01 | Dilution Factor: 1 |
| Lab File ID: RDJ331 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 19.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 210 | 100 |
| 1,2-DICHLOROBENZENE | ND | 210 | 100 |
| 1,3-DICHLOROBENZENE | ND | 210 | 100 |
| 1,4-DICHLOROBENZENE | ND | 210 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 210 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 210 | 100 |
| 2,4-DICHLOROPHENOL | ND | 210 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 210 | 100 |
| 2,4-DINITROPHENOL | ND | 420 | 210 |
| 2,4-DINITROTOLUENE | ND | 210 | 100 |
| 2,6-DINITROTOLUENE | ND | 210 | 100 |
| 2-CHLORONAPHTHALENE | ND | 210 | 100 |
| 2-CHLOROPHENOL | ND | 210 | 100 |
| 2-METHYLNAPHTHALENE | ND | 210 | 100 |
| 2-METHYLPHENOL | ND | 210 | 100 |
| 2-NITROANILINE | ND | 210 | 100 |
| 2-NITROPHENOL | ND | 210 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 210 | 100 |
| 3-NITROANILINE | ND | 210 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 420 | 210 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 210 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 210 | 100 |
| 4-CHLOROANILINE | ND | 210 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 210 | 100 |
| 4-METHYLPHENOL (1) | ND | 210 | 100 |
| 4-NITROANILINE | ND | 210 | 100 |
| 4-NITROPHENOL | ND | 420 | 210 |
| ACENAPHTHENE | ND | 210 | 100 |
| ACENAPHTHYLENE | ND | 210 | 100 |
| ANTHRACENE | ND | 210 | 100 |
| BENZO(A)ANTHRACENE | ND | 210 | 100 |
| BENZO(A)PYRENE | ND | 210 | 100 |
| BENZO(B)FLUORANTHENE | ND | 210 | 100 |
| BENZO(K)FLUORANTHENE | ND | 210 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 210 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 210 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 210 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 210 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 210 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 210 | 100 |
| CHRYSENE | ND | 210 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 210 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 210 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 210 | 100 |
| DIBENZOFURAN | ND | 210 | 100 |
| DIETHYLPHTHALATE | ND | 210 | 100 |
| DIMETHYLPHTHALATE | ND | 210 | 100 |
| FLUORANTHENE | ND | 210 | 100 |
| FLUORENE | ND | 210 | 100 |
| HEXACHLOROBENZENE | ND | 210 | 100 |
| HEXACHLOROBUTADIENE | ND | 210 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 210 | 100 |
| HEXACHLOROETHANE | ND | 210 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 210 | 100 |
| ISOPHORONE | ND | 210 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 210 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 210 | 100 |
| NAPHTHALENE | ND | 210 | 100 |
| NITROBENZENE | ND | 210 | 100 |
| PENTACHLOROPHENOL | ND | 420 | 210 |
| PHENANTHRENE | ND | 210 | 100 |
| PHENOL | ND | 210 | 100 |
| PYRENE | ND | 210 | 100 |
| BENZYL ALCOHOL | ND | 210 | 100 |
| 1-METHYLNAPHTHALENE | ND | 210 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 210 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 210 | 100 |
| ANILINE | ND | 420 | 210 |
| BENZIDINE | ND | 1000 | 520 |
| BENZOIC ACID | ND | 830 | 420 |
| CARBAZOLE | ND | 210 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 210 | 100 |
| TETRALIN | ND | 210 | 210 |
| 2-BUTOXYETHANOL | ND | 210 | 210 |
| 2-PHENOXYETHANOL | ND | 210 | 210 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 952 | 1247 | 76.4 | 35-130 |
| 2-FLUOROBIPHENYL | 266 | 415.6 | 63.9 | 45-130 |
| 2-FLUOROPHENOL | 718 | 1247 | 57.6 | 25-130 |
| NITROBENZENE-D5 | 271 | 415.6 | 65.3 | 40-130 |
| PHENOL-D5 | 774 | 1247 | 62.1 | 25-120 |
| TERPHENYL-D14 | 327 | 415.6 | 78.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/13/12 |
| Batch No. : 12D135 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-183-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 20:27 |
| Lab Samp ID: D135-02 | Dilution Factor: 1 |
| Lab File ID: RDJ332 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 16.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 400 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 400 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 400 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 400 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 400 | 200 |
| BENZIDINE | ND | 990 | 500 |
| BENZOIC ACID | ND | 800 | 400 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 897 | 1198 | 74.9 | 35-130 |
| 2-FLUOROBIPHENYL | 221 | 399.2 | 55.4 | 45-130 |
| 2-FLUOROPHENOL | 607 | 1198 | 50.7 | 25-130 |
| NITROBENZENE-D5 | 223 | 399.2 | 55.9 | 40-130 |
| PHENOL-D5 | 661 | 1198 | 55.2 | 25-120 |
| TERPHENYL-D14 | 295 | 399.2 | 74.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D135 | Date Extracted: 04/18/12 14:34 |
| Sample ID: MBLK1S | Date Analyzed: 04/19/12 10:47 |
| Lab Samp ID: SVD035SB | Dilution Factor: 1 |
| Lab File ID: RDJ304 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 847 | 1000 | 84.7 | 35-130 |
| 2-FLUOROBIPHENYL | 277 | 333.3 | 83.0 | 45-130 |
| 2-FLUOROPHENOL | 832 | 1000 | 83.2 | 25-130 |
| NITROBENZENE-D5 | 302 | 333.3 | 90.5 | 40-130 |
| PHENOL-D5 | 808 | 1000 | 80.8 | 25-120 |
| TERPHENYL-D14 | 323 | 333.3 | 96.8 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D135
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVD035SB SVD035SL SVD035SC
LAB FILE ID: RDJ304 RDJ305 RDJ306
DATE EXTRACTED: 04/18/1214:34 04/18/1214:34 04/18/1214:34 DATE COLLECTED: NA
DATE ANALYZED: 04/19/1210:47 04/19/1211:07 04/19/1211:28 DATE RECEIVED: 04/18/12
PREP. BATCH: SVD035S SVD035S SVD035S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 517 | 78 | 667 | 426 | 64 | 19 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 458 | 69 | 667 | 390 | 59 | 16 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 455 | 68 | 667 | 389 | 58 | 16 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 459 | 69 | 667 | 382 | 57 | 18 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 559 | 84 | 667 | 448 | 67 | 22 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 594 | 89 | 667 | 496 | 74 | 18 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 540 | 81 | 667 | 454 | 68 | 17 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 570 | 86 | 667 | 479 | 72 | 17 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 517 | 78 | 667 | 408 | 61 | 24 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 707 | 106 | 667 | 545 | 82 | 26 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 627 | 94 | 667 | 507 | 76 | 21 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 490 | 74 | 667 | 417 | 63 | 16 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 511 | 77 | 667 | 437 | 66 | 16 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 611 | 92 | 667 | 512 | 77 | 18 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 477 | 71 | 667 | 412 | 62 | 15 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 679 | 102 | 667 | 540 | 81 | 23 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 568 | 85 | 667 | 470 | 70 | 19 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 624 | 94 | 667 | 451 | 68 | 32 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 545 | 82 | 667 | 428 | 64 | 24 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 635 | 95 | 667 | 476 | 71 | 29 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 564 | 85 | 667 | 460 | 69 | 20 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 592 | 89 | 667 | 497 | 75 | 17 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 485 | 73 | 667 | 398 | 60 | 20 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 640 | 96 | 667 | 528 | 79 | 19 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 495 | 74 | 667 | 422 | 63 | 16 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 625 | 94 | 667 | 456 | 68 | 31 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 719 | 108 | 667 | 535 | 80 | 29 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 570 | 85 | 667 | 470 | 71 | 19 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 600 | 90 | 667 | 502 | 75 | 18 | 30-130 | 50 |
| Anthracene | ND | 667 | 586 | 88 | 667 | 462 | 69 | 24 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 679 | 102 | 667 | 504 | 76 | 30 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 661 | 99 | 667 | 491 | 74 | 29 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 720 | 108 | 667 | 525 | 79 | 31 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 679 | 102 | 667 | 536 | 80 | 24 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 699 | 105 | 667 | 527 | 79 | 28 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 643 | 96 | 667 | 544 | 82 | 17 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 621 | 93 | 667 | 514 | 77 | 19 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 724 | 109 | 667 | 609 | 91 | 17 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 658 | 99 | 667 | 495 | 74 | 28 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 680 | 102 | 667 | 504 | 76 | 30 | 40-150 | 50 |
| Chrysene | ND | 667 | 675 | 101 | 667 | 512 | 77 | 28 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 650 | 97 | 667 | 485 | 73 | 29 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 662 | 99 | 667 | 497 | 75 | 28 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 692 | 104 | 667 | 528 | 79 | 27 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 555 | 83 | 667 | 460 | 69 | 19 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 639 | 96 | 667 | 499 | 75 | 25 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 615 | 92 | 667 | 494 | 74 | 22 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 686 | 103 | 667 | 515 | 77 | 28 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 635 | 95 | 667 | 518 | 78 | 20 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 565 | 85 | 667 | 457 | 69 | 21 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 569 | 85 | 667 | 473 | 71 | 18 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 423 | 63 | 667 | 350 | 53 | 19 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 503 | 75 | 667 | 430 | 65 | 15 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 716 | 107 | 667 | 527 | 79 | 30 | 30-140 | 50 |
| Isophorone | ND | 667 | 649 | 97 | 667 | 538 | 81 | 19 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 513 | 77 | 667 | 433 | 65 | 17 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 432 | 65 | 667 | 346 | 52 | 22 | 30-140 | 50 |
| Naphthalene | ND | 667 | 581 | 87 | 667 | 487 | 73 | 18 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 630 | 95 | 667 | 526 | 79 | 18 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 609 | 91 | 667 | 445 | 67 | 31 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 610 | 92 | 667 | 481 | 72 | 24 | 30-130 | 50 |
| Phenol | ND | 667 | 531 | 80 | 667 | 456 | 68 | 15 | 30-130 | 50 |
| Pyrene | ND | 667 | 636 | 95 | 667 | 485 | 73 | 27 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 508 | 76 | 667 | 433 | 65 | 16 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 603 | 90 | 667 | 508 | 76 | 17 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 554 | 83 | 667 | 457 | 69 | 19 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 489 | 73 | 667 | 404 | 61 | 19 | 20-150 | 50 |
| Aniline | ND | 667 | 409 | 61 | 667 | 341 | 51 | 18 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1690 | 63 | 2670 | 1300 | 49 | 26 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 1060 | 40 | 2670 | 905 | 34 | 16 | 10-130 | 50 |
| Carbazole | ND | 667 | 617 | 93 | 667 | 464 | 70 | 28 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 673 | 101 | 667 | 546 | 82 | 21 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 812 | 81 | 1000 | 696 | 70 | 35-130 |
| 2-Fluorobiphenyl | 333 | 238 | 71 | 333 | 216 | 65 | 45-130 |
| 2-Fluorophenol | 1000 | 696 | 70 | 1000 | 627 | 63 | 25-130 |
| Nitrobenzene-d5 | 333 | 263 | 79 | 333 | 235 | 71 | 40-130 |
| Phenol-d5 | 1000 | 701 | 70 | 1000 | 627 | 63 | 25-120 |
| Terphenyl-d14 | 333 | 296 | 89 | 333 | 237 | 71 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/13/12 |
| Batch No. : 12D135 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-180-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 20:06 |
| Lab Samp ID: D135-01 | Dilution Factor: 1 |
| Lab File ID: RDJ331 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 19.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.1 | 1.1 |
| ACENAPHTHYLENE | ND | 2.1 | 1.1 |
| ANTHRACENE | ND | 2.1 | 1.1 |
| BENZO(A)ANTHRACENE | ND | 2.1 | 1.1 |
| BENZO(A)PYRENE | ND | 2.1 | 1.1 |
| BENZO(B)FLUORANTHENE | ND | 2.1 | 1.1 |
| BENZO(K)FLUORANTHENE | ND | 2.1 | 1.1 |
| BENZO(G,H,I)PERYLENE | ND | 2.1 | 1.1 |
| CHRYSENE | ND | 2.1 | 1.1 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.1 | 1.1 |
| FLUORANTHENE | ND | 2.1 | 1.1 |
| FLUORENE | ND | 2.1 | 1.1 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.1 | 1.1 |
| NAPHTHALENE | ND | 2.1 | 1.1 |
| PHENANTHRENE | ND | 2.1 | 1.1 |
| PYRENE | ND | 2.1 | 1.1 |
| 2-METHYLNAPHTHALENE | ND | 2.1 | 1.1 |
| 1-METHYLNAPHTHALENE | ND | 2.1 | 1.1 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 16J | 21 | 10 |
| BUTYLBENZYLPHTHALATE | ND | 21 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 21 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 21 | 10 |
| DIETHYLPHTHALATE | ND | 21 | 10 |
| DIMETHYLPHTHALATE | ND | 21 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.1 | 1.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 290 | 415.6 | 69.7 | 40-130 |
| 2-FLUOROBIPHENYL | 264 | 415.6 | 63.5 | 45-130 |
| TERPHENYL-D14 | 307 | 415.6 | 73.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/13/12 |
| Batch No. : 12D135 | Date Extracted: 04/18/12 14:34 |
| Sample ID: SL-183-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 20:27 |
| Lab Samp ID: D135-02 | Dilution Factor: 1 |
| Lab File ID: RDJ332 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : 16.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 1.0 |
| ACENAPHTHYLENE | ND | 2.0 | 1.0 |
| ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)PYRENE | ND | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 1.0 |
| CHRYSENE | ND | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 1.0 |
| FLUORANTHENE | 1.5J | 2.0 | 1.0 |
| FLUORENE | ND | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 1.0 |
| NAPHTHALENE | ND | 2.0 | 1.0 |
| PHENANTHRENE | 1.2J | 2.0 | 1.0 |
| PYRENE | 1.3J | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 24 | 20 | 10 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 238 | 399.2 | 59.7 | 40-130 |
| 2-FLUOROBIPHENYL | 215 | 399.2 | 54.0 | 45-130 |
| TERPHENYL-D14 | 284 | 399.2 | 71.0 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D135 | Date Extracted: 04/18/12 14:34 |
| Sample ID: MBLK1S | Date Analyzed: 04/19/12 10:47 |
| Lab Samp ID: SVD035SB | Dilution Factor: 1 |
| Lab File ID: RDJ304 | Matrix : SOIL |
| Ext Btch ID: SVD035S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 317 | 333.3 | 95.2 | 40-130 |
| 2-FLUOROBIPHENYL | 277 | 333.3 | 83.0 | 45-130 |
| TERPHENYL-D14 | 342 | 333.3 | 103 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D135
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVD035SB | SVD035SX | SVD035SY | | |
| LAB FILE ID: | RDJ304 | RDJ307 | RDJ308 | | |
| DATE EXTRACTED: | 04/18/1214:34 | 04/18/1214:34 | 04/18/1214:34 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/19/1210:47 | 04/19/1211:49 | 04/19/1212:09 | DATE RECEIVED: | 04/18/12 |
| PREP. BATCH: | SVD035S | SVD035S | SVD035S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 276 | 83 | 333 | 235 | 71 | 16 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 312 | 94 | 333 | 264 | 79 | 17 | 20-130 | 50 |
| Anthracene | ND | 333 | 278 | 83 | 333 | 238 | 71 | 16 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 338 | 102 | 333 | 283 | 85 | 18 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 339 | 102 | 333 | 287 | 86 | 17 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 356 | 107 | 333 | 315 | 94 | 12 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 357 | 107 | 333 | 296 | 89 | 19 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 365 | 109 | 333 | 314 | 94 | 15 | 30-140 | 50 |
| Chrysene | ND | 333 | 318 | 95 | 333 | 272 | 82 | 16 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 366 | 110 | 333 | 315 | 94 | 15 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 333 | 100 | 333 | 280 | 84 | 17 | 30-130 | 50 |
| Fluorene | ND | 333 | 313 | 94 | 333 | 262 | 78 | 18 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 368 | 111 | 333 | 314 | 94 | 16 | 20-160 | 50 |
| Naphthalene | ND | 333 | 265 | 80 | 333 | 226 | 68 | 16 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 281 | 84 | 333 | 241 | 72 | 15 | 20-130 | 50 |
| Pyrene | ND | 333 | 322 | 97 | 333 | 268 | 80 | 18 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 290 | 87 | 333 | 250 | 75 | 15 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 288 | 86 | 333 | 249 | 75 | 15 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 315 | 95 | 333 | 263 | 79 | 18 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 304 | 91 | 333 | 250 | 75 | 20 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 299 | 90 | 333 | 251 | 75 | 17 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 293 | 88 | 333 | 242 | 73 | 19 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 320 | 96 | 333 | 264 | 79 | 19 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 306 | 92 | 333 | 251 | 75 | 20 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 302 | 91 | 333 | 254 | 76 | 17 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 280 | 84 | 333 | 248 | 74 | 40-130 |
| 2-Fluorobiphenyl | 333 | 235 | 71 | 333 | 212 | 63 | 45-130 |
| Terphenyl-d14 | 333 | 300 | 90 | 333 | 257 | 77 | 45-135 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/13/12 |
| Batch No. : 12D135 | Date Extracted: 04/17/12 16:12 |
| Sample ID: SL-180-NBZ-SS-0.0-0.5 | Date Analyzed: 04/22/12 13:12 |
| Lab Samp ID: D135-01 | Dilution Factor: 1 |
| Lab File ID: LD21041A | Matrix : SOIL |
| Ext Btch ID: CPD039S | % Moisture : 19.8 |
| Calib. Ref.: LD21015A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.21 | 0.11 \| 0.11 |
| GAMMA-BHC (LINDANE) | 0.17J \| (ND) | 0.21 | 0.11 \| 0.11 |
| BETA-BHC | 3.4 \| (ND) | 0.21 | 0.11 \| 0.11 |
| HEPTACHLOR | 0.69 \| (ND) | 0.21 | 0.11 \| 0.11 |
| DELTA-BHC | (ND) \| ND | 0.21 | 0.11 \| 0.11 |
| ALDRIN | (ND) \| ND | 0.21 | 0.11 \| 0.11 |
| HEPTACHLOR EPOXIDE | 1.1 \| (ND) | 0.21 | 0.11 \| 0.11 |
| ENDOSULFAN I | (ND) \| 0.32 | 0.21 | 0.11 \| 0.11 |
| 4,4'-DDE | 2.6 \| (3.2) | 0.42 | 0.21 \| 0.21 |
| DIELDRIN | 1.1 \| (ND) | 0.42 | 0.21 \| 0.21 |
| ENDRIN | 0.25J \| (ND) | 0.42 | 0.21 \| 0.21 |
| 4,4'-DDD | (ND) \| 0.23J | 0.42 | 0.21 \| 0.21 |
| ENDOSULFAN II | 0.29J \| (ND) | 0.42 | 0.21 \| 0.21 |
| 4,4'-DDT | 5.2 \| (5.5) | 0.42 | 0.21 \| 0.21 |
| ENDRIN ALDEHYDE | (ND) \| 0.46 | 0.42 | 0.21 \| 0.21 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.42 | 0.21 \| 0.21 |
| ENDRIN KETONE | (ND) \| ND | 0.42 | 0.21 \| 0.21 |
| METHOXYCHLOR | 5.6 \| (ND) | 2.1 | 1.1 \| 1.1 |
| MIREX | (ND) \| 1.6 | 0.42 | 0.21 \| 0.21 |
| TOXAPHENE | (ND) \| ND | 8.2 | 4.1 \| 4.1 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.2 | 2.1 \| 2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 6.012 \| (7.033) | 6.650 | 90.4 \| (106) | 50-130 |
| DECACHLOROBIPHENYL | 4.396 \| (4.850) | 6.650 | 66.1 \| (72.9) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/13/12 |
| Batch No. : 12D135 | Date Extracted: 04/17/12 16:12 |
| Sample ID: SL-183-NBZ-SS-0.0-0.5 | Date Analyzed: 04/22/12 13:33 |
| Lab Samp ID: D135-02 | Dilution Factor: 1 |
| Lab File ID: LD21042A | Matrix : SOIL |
| Ext Btch ID: CPD039S | % Moisture : 16.5 |
| Calib. Ref.: LD21015A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.62\|(0.16J) | 0.20 | 0.10\|0.10 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.20 | 0.10\|0.10 |
| BETA-BHC | (ND)\|0.58 | 0.20 | 0.10\|0.10 |
| HEPTACHLOR | (ND)\|0.53 | 0.20 | 0.10\|0.10 |
| DELTA-BHC | 0.43\|(ND) | 0.20 | 0.10\|0.10 |
| ALDRIN | (ND)\|ND | 0.20 | 0.10\|0.10 |
| HEPTACHLOR EPOXIDE | 0.63\|(ND) | 0.20 | 0.10\|0.10 |
| ENDOSULFAN I | (ND)\|ND | 0.20 | 0.10\|0.10 |
| 4,4'-DDE | (0.32J)\|0.78 | 0.41 | 0.20\|0.20 |
| DIELDRIN | (ND)\|ND | 0.41 | 0.20\|0.20 |
| ENDRIN | 7.8\|(ND) | 0.41 | 0.20\|0.20 |
| 4,4'-DDD | 0.21J\|(ND) | 0.41 | 0.20\|0.20 |
| ENDOSULFAN II | (ND)\|ND | 0.41 | 0.20\|0.20 |
| 4,4'-DDT | (1.0)\|0.51 | 0.41 | 0.20\|0.20 |
| ENDRIN ALDEHYDE | (ND)\|0.40J | 0.41 | 0.20\|0.20 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.41 | 0.20\|0.20 |
| ENDRIN KETONE | (ND)\|ND | 0.41 | 0.20\|0.20 |
| METHOXYCHLOR | (ND)\|ND | 2.0 | 1.0\|1.0 |
| MIREX | (ND)\|0.58 | 0.41 | 0.20\|0.20 |
| TOXAPHENE | (ND)\|ND | 7.9 | 4.0\|4.0 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 4.1 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.472\|(6.300) | 6.387 | 85.7\|(98.6) | 50-130 |
| DECACHLOROBIPHENYL | 4.047\|(4.677) | 6.387 | 63.4\|(73.2) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D135 | Date Extracted: 04/17/12 16:12 |
| Sample ID: MBLK1S | Date Analyzed: 04/22/12 05:41 |
| Lab Samp ID: CPD039SB | Dilution Factor: 1 |
| Lab File ID: LD21020A | Matrix : SOIL |
| Ext Btch ID: CPD039S | % Moisture : NA |
| Calib. Ref.: LD21015A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.791\|(3.889) | 5.333 | 71.1\|(72.9) | 50-130 |
| DECACHLOROBIPHENYL | 4.611\|(4.825) | 5.333 | 86.5\|(90.5) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D135
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPD039SB CPD039SL CPD039SC
LAB FILE ID: LD21020A LD21021A LD21022A
DATE EXTRACTED: 04/17/1216:12 04/17/1216:12 04/17/1216:12 DATE COLLECTED: NA
DATE ANALYZED: 04/22/1205:41 04/22/1206:02 04/22/1206:24 DATE RECEIVED: 04/17/12
PREP. BATCH: CPD039S CPD039S CPD039S
CALIB. REF: LD21015A LD21015A LD21015A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 2.67 | 2.00\|(2.07) | 75\|(78) | 2.67 | 1.76\|(1.82) | 66\|(68) | 13\|(13) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|ND | 2.67 | 2.09\|(2.17) | 78\|(81) | 2.67 | 1.86\|(1.92) | 70\|(72) | 12\|(12) | 40-130 | 50 |
| beta-BHC | (ND)\|ND | 2.67 | (2.43)\|2.23 | (91)\|84 | 2.67 | (2.27)\|2.04 | (85)\|76 | (7)\|9 | 50-140 | 50 |
| Heptachlor | (ND)\|ND | 2.67 | (2.45)\|2.28 | (92)\|85 | 2.67 | (2.24)\|2.06 | (84)\|77 | (9)\|10 | 30-130 | 50 |
| delta-BHC | (ND)\|ND | 2.67 | 2.62\|(2.69) | 98\|(101) | 2.67 | 2.41\|(2.48) | 90\|(93) | 8\|(8) | 30-150 | 50 |
| Aldrin | (ND)\|ND | 2.67 | 2.24\|(2.57) | 84\|(96) | 2.67 | (2.07)\|2.00 | (78)\|75 | (8)\|25 | 30-130 | 50 |
| Heptachlor Epoxide | (ND)\|ND | 2.67 | 2.14\|(2.47) | 80\|(93) | 2.67 | 1.90\|(2.10) | 71\|(79) | 12\|(16) | 60-140 | 50 |
| Endosulfan I | (ND)\|ND | 2.67 | 1.93\|(2.17) | 72\|(81) | 2.67 | 1.64\|(1.90) | 61\|(71) | 16\|(13) | 50-150 | 50 |
| 4,4'-DDE | (ND)\|ND | 2.67 | 2.30\|(2.36) | 86\|(88) | 2.67 | (2.05)\|2.03 | (77)\|76 | (11)\|15 | 50-150 | 50 |
| Dieldrin | (ND)\|ND | 2.67 | (2.40)\|2.14 | (90)\|80 | 2.67 | (2.13)\|1.90 | (80)\|71 | (12)\|12 | 60-130 | 50 |
| Endrin | (ND)\|ND | 2.67 | (2.41)\|2.27 | (90)\|85 | 2.67 | (2.14)\|2.05 | (80)\|77 | (12)\|10 | 50-140 | 50 |
| 4,4'-DDD | (ND)\|ND | 2.67 | (2.40)\|2.13 | (90)\|80 | 2.67 | (2.18)\|1.98 | (82)\|74 | (10)\|7 | 50-160 | 50 |
| Endosulfan II | (ND)\|ND | 2.67 | (2.56)\|2.36 | (96)\|88 | 2.67 | (2.35)\|2.22 | (88)\|83 | (9)\|6 | 60-150 | 50 |
| 4,4'-DDT | (ND)\|ND | 2.67 | (3.02)\|2.35 | (113)\|88 | 2.67 | (2.88)\|2.19 | (108)\|82 | (5)\|7 | 60-140 | 50 |
| Endrin aldehyde | (ND)\|ND | 2.67 | (2.39)\|2.28 | (90)\|85 | 2.67 | (2.26)\|2.16 | (85)\|81 | (6)\|5 | 50-160 | 50 |
| Endosulfan Sulfate | (ND)\|ND | 2.67 | (2.54)\|2.48 | (95)\|93 | 2.67 | (2.39)\|2.31 | (90)\|87 | (6)\|7 | 70-140 | 50 |
| Endrin Ketone | (ND)\|ND | 2.67 | 2.48\|(2.49) | 93\|(93) | 2.67 | (2.35)\|2.34 | (88)\|88 | (5)\|6 | 70-160 | 50 |
| Methoxychlor | (ND)\|ND | 26.7 | 24.7\|(25.5) | 93\|(96) | 26.7 | 23.6\|(24.3) | 88\|(91) | 5\|(5) | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 3.799\|(3.937) | 71.2\|(73.8) | 5.333 | 3.665\|(3.769) | 68.7\|(70.7) | 50-130 |
| Decachlorobiphenyl | 5.333 | 4.694\|(4.850) | 88.0\|(90.9) | 5.333 | 4.967\|(4.991) | 93.1\|(93.6) | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/13/12 |
| Batch No. : 12D135 | Date Extracted: 04/20/12 09:55 |
| Sample ID: SL-180-NBZ-SS-0.0-0.5 | Date Analyzed: 05/09/12 04:59 |
| Lab Samp ID: D135-01 | Dilution Factor: 1 |
| Lab File ID: KE07051A | Matrix : SOIL |
| Ext Btch ID: CPD048S | % Moisture : 19.8 |
| Calib. Ref.: KE07043A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1221 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1232 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1242 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1248 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1254 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1260 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1262 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1268 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 5432 | (ND)\|ND | 4.1 | 2.1\|2.1 |
| AROCLOR 5442 | (ND)\|ND | 4.1 | 2.1\|2.1 |
| AROCLOR 5460 | (ND)\|ND | 4.1 | 2.1\|2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 9.002\|(7.363) | 6.650 | 135*\|(111) | 45-120 |
| TETRACHLORO-M-XYLENE | (8.770)\|6.069 | 6.650 | (132)\|91.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/13/12 |
| Batch No. : 12D135 | Date Extracted: 04/20/12 09:55 |
| Sample ID: SL-183-NBZ-SS-0.0-0.5 | Date Analyzed: 05/09/12 05:52 |
| Lab Samp ID: D135-02 | Dilution Factor: 1 |
| Lab File ID: KE07052A | Matrix : SOIL |
| Ext Btch ID: CPD048S | % Moisture : 16.5 |
| Calib. Ref.: KE07043A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 4.0 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 4.0 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 4.0 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.640)\|6.539 | 6.387 | (120)\|102 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.751)\|5.290 | 6.387 | (121)\|82.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D135 | Date Extracted: 04/20/12 09:55 |
| Sample ID: MBLK1S | Date Analyzed: 05/10/12 14:08 |
| Lab Samp ID: 60D048SB | Dilution Factor: 1 |
| Lab File ID: KE07075A | Matrix : SOIL |
| Ext Btch ID: CPD048S | % Moisture : NA |
| Calib. Ref.: KE07068A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 6.838\|(5.515) | 5.333 | 128*\|(103) | 45-120 |
| TETRACHLORO-M-XYLENE | (5.938)\|4.717 | 5.333 | (111)\|88.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D135
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60D048SB | 60D048SL | 60D048SC | | |
| LAB FILE ID: | KE07075A | KE07076A | KE07077A | | |
| DATE EXTRACTED: | 04/20/1209:55 | 04/20/1209:55 | 04/20/1209:55 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/10/1214:08 | 05/10/1215:01 | 05/10/1215:55 | DATE RECEIVED: | 04/20/12 |
| PREP. BATCH: | CPD048S | CPD048S | CPD048S | | |
| CALIB. REF: | KE07068A | KE07068A | KE07068A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (65.0)\|50.4 | (97)\|76 | 66.7 | (64.6)\|49.9 | (97)\|75 | (1)\|1 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | 87.8\|(60.3) | 132\|(90) | 66.7 | 86.6\|(59.6) | 130\|(89) | 1\|(1) | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 66.7 | (41.1)\|40.3 | (62)\|60 | 66.7 | (45.2)\|44.3 | (68)\|66 | (10)\|9 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | 6.829\|(5.241) | 128*\|(98.3) | 5.333 | 6.874\|(5.428) | 129*\|(102) | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (5.967)\|4.634 | (112)\|86.9 | 5.333 | (5.966)\|4.654 | (112)\|87.3 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/13/12 |
| Batch No. : 12D135 | Date Extracted: 04/19/12 17:20 |
| Sample ID: SL-180-NBZ-SS-0.0-0.5 | Date Analyzed: 04/23/12 16:53 |
| Lab Samp ID: D135-01 | Dilution Factor: 1 |
| Lab File ID: WD23011A | Matrix : SOIL |
| Ext Btch ID: HED011S | % Moisture : 19.8 |
| Calib. Ref.: WD23002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.5 | 2.2\|2.2 |
| 2,4-DB | (ND)\|ND | 2.1 | 1.1\|1.1 |
| 2,4,5-T | 2.2\|(ND) | 0.21 | 0.11\|0.11 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.21 | 0.11\|0.11 |
| DALAPON | (ND)\|ND | 11 | 5.6\|5.6 |
| DICAMBA | (ND)\|ND | 1.5 | 0.75\|0.75 |
| DICHLOROPROP | (ND)\|ND | 3.0 | 1.5\|1.5 |
| DINOSEB | (ND)\|ND | 2.1 | 1.1\|1.1 |
| MCPA | (ND)\|ND | 310 | 160\|160 |
| MCPP | (ND)\|ND | 310 | 160\|160 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (176.0)\|148.4 | 187.0 | (94.1)\|79.4 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/13/12 |
| Batch No. : 12D135 | Date Extracted: 04/19/12 17:20 |
| Sample ID: SL-183-NBZ-SS-0.0-0.5 | Date Analyzed: 04/23/12 17:13 |
| Lab Samp ID: D135-02 | Dilution Factor: 1 |
| Lab File ID: WD23012A | Matrix : SOIL |
| Ext Btch ID: HED011S | % Moisture : 16.5 |
| Calib. Ref.: WD23002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.3 | 2.2\|2.2 |
| 2,4-DB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.4\|5.4 |
| DICAMBA | (ND)\|ND | 1.4 | 0.72\|0.72 |
| DICHLOROPROP | (ND)\|ND | 2.9 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| MCPA | (ND)\|ND | 300 | 150\|150 |
| MCPP | (ND)\|ND | 300 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | 286.5\|(217.0) | 179.6 | 160*\|(121) | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D135 | Date Extracted: 04/19/12 17:20 |
| Sample ID: MBLK1S | Date Analyzed: 04/23/12 14:11 |
| Lab Samp ID: HED011SB | Dilution Factor: 1 |
| Lab File ID: WD23003A | Matrix : SOIL |
| Ext Btch ID: HED011S | % Moisture : NA |
| Calib. Ref.: WD23002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|1.2J | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (190.2)\|156.7 | 150.0 | (127)\|104 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D135
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HED011SB | HED011SL | HED011SC | | |
| LAB FILE ID: | WD23003A | WD23004A | WD23005A | | |
| DATE EXTRACTED: | 04/19/1217:20 | 04/19/1217:20 | 04/19/1217:20 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/23/1214:11 | 04/23/1214:31 | 04/23/1214:51 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | HED011S | HED011S | HED011S | | |
| CALIB. REF: | WD23002A | WD23002A | WD23002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | (13.3)\|12.2 | (89)\|81 | 15.0 | (14.0)\|13.0 | (93)\|87 | (5)\|6 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 10.6\|(13.4) | 71\|(89) | 15.0 | 12.5\|(14.2) | 83\|(95) | 16\|(6) | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | 13.1\|(14.0) | 87\|(93) | 15.0 | 14.1\|(15.2) | 94\|(101) | 7\|(8) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 15.0 | 12.2\|(13.3) | 81\|(89) | 15.0 | 13.2\|(14.1) | 88\|(94) | 8\|(6) | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | 8.64J\|(10.5) | 58\|(70) | 15.0 | 9.19\|(10.1) | 61\|(67) | 6\|(4) | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (13.2)\|11.8 | (88)\|79 | 15.0 | (13.9)\|12.5 | (93)\|83 | (5)\|6 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | 14.2\|(14.4) | 95\|(96) | 15.0 | 14.9\|(15.2) | 99\|(101) | 5\|(5) | 60-160 | 50 |
| Dinoseb | (ND)\|1.2J | 15.0 | (9.35)\|8.91 | (62)\|59 | 15.0 | (10.6)\|10.3 | (71)\|69 | (13)\|14 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (718)\|649 | (96)\|87 | 750 | (749)\|673 | (100)\|90 | (4)\|4 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | (719)\|540 | (96)\|72 | 750 | (738)\|562 | (98)\|75 | (3)\|4 | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 | (153.8)\|124.8 | (103)\|83.2 | 150.0 | (155.6)\|130.4 | (104)\|87.0 | 10-150 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/13/12 |
| SDG NO. : 12D135 | Date Extracted: 04/20/12 10:35 |
| Sample ID: SL-180-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 00:22 |
| Lab Samp ID: D135-01 | Dilution Factor: 0.957 |
| Lab File ID: 98D18105 | Matrix : SOIL |
| Ext Btch ID: IMD030S | % Moisture : 19.8 |
| Calib. Ref.: 98D18095 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9460 | 28.6 | 14.3 |
| Antimony | 0.189J | 0.239 | 0.119 |
| Arsenic | 4.41 | 0.477 | 0.239 |
| Barium | 59.5 | 0.477 | 0.239 |
| Beryllium | 0.343 | 0.119 | 0.0597 |
| Boron | ND | 5.97 | 2.98 |
| Cadmium | 0.165 | 0.119 | 0.0597 |
| Calcium | 3210 | 23.9 | 11.9 |
| Chromium | 11.0 | 0.477 | 0.239 |
| Cobalt | 4.26 | 0.119 | 0.0597 |
| Copper | 6.31 | 0.477 | 0.239 |
| Iron | 17100 | 23.9 | 11.9 |
| Lead | 13.7 | 0.239 | 0.119 |
| Magnesium | 4020 | 11.9 | 5.97 |
| Manganese | 248 | 0.597 | 0.298 |
| Molybdenum | 0.423 | 0.119 | 0.0597 |
| Nickel | 7.58 | 0.477 | 0.239 |
| Potassium | 3060 | 71.6 | 35.8 |
| Selenium | ND | 0.477 | 0.239 |
| Silver | ND | 0.119 | 0.0597 |
| Sodium | ND | 119 | 59.7 |
| Strontium | 14.7 | 0.597 | 0.298 |
| Thallium | 0.207 | 0.119 | 0.0597 |
| Tin | ND | 11.9 | 5.97 |
| Titanium | 789 | 1.19 | 0.597 |
| Vanadium | 24.1 | 0.119 | 0.0597 |
| Zinc | 52.6 | 3.58 | 1.79 |
| Lithium | 24.8 | 2.39 | 1.19 |
| Phosphorus | 297 | 14.3 | 7.16 |
| Zirconium | ND | 5.97 | 2.98 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/13/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/13/12 |
| SDG NO. : 12D135 | Date Extracted: 04/20/12 10:35 |
| Sample ID: SL-183-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 00:13 |
| Lab Samp ID: D135-02 | Dilution Factor: 0.952 |
| Lab File ID: 98D18103 | Matrix : SOIL |
| Ext Btch ID: IMD030S | % Moisture : 16.5 |
| Calib. Ref.: 98D18095 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11000 | 27.4 | 13.7 |
| Antimony | 0.183J | 0.228 | 0.114 |
| Arsenic | 6.15 | 0.456 | 0.228 |
| Barium | 74.6 | 0.456 | 0.228 |
| Beryllium | 0.407 | 0.114 | 0.0570 |
| Boron | ND | 5.70 | 2.85 |
| Cadmium | 0.153 | 0.114 | 0.0570 |
| Calcium | 2330 | 22.8 | 11.4 |
| Chromium | 13.7 | 0.456 | 0.228 |
| Cobalt | 5.07 | 0.114 | 0.0570 |
| Copper | 6.36 | 0.456 | 0.228 |
| Iron | 18400 | 22.8 | 11.4 |
| Lead | 7.33 | 0.228 | 0.114 |
| Magnesium | 5180 | 11.4 | 5.70 |
| Manganese | 308 | 0.570 | 0.285 |
| Molybdenum | 0.433 | 0.114 | 0.0570 |
| Nickel | 9.08 | 0.456 | 0.228 |
| Potassium | 3620 | 68.4 | 34.2 |
| Selenium | ND | 0.456 | 0.228 |
| Silver | ND | 0.114 | 0.0570 |
| Sodium | ND | 114 | 57.0 |
| Strontium | 10.6 | 0.570 | 0.285 |
| Thallium | 0.245 | 0.114 | 0.0570 |
| Tin | ND | 11.4 | 5.70 |
| Titanium | 963 | 1.14 | 0.570 |
| Vanadium | 30.3 | 0.114 | 0.0570 |
| Zinc | 50.7 | 3.42 | 1.71 |
| Lithium | 28.6 | 2.28 | 1.14 |
| Phosphorus | 348 | 13.7 | 6.84 |
| Zirconium | ND | 5.70 | 2.85 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| SDG NO. : 12D135 | Date Extracted: 04/20/12 10:35 |
| Sample ID: MBLK1S | Date Analyzed: 04/26/12 23:46 |
| Lab Samp ID: IMD030SB | Dilution Factor: 1 |
| Lab File ID: 98D18097 | Matrix : SOIL |
| Ext Btch ID: IMD030S | % Moisture : NA |
| Calib. Ref.: 98D18095 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D135
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: NA
DILTN FACTR: 1 1 1
SAMPLE ID: MBLK1S
CONTROL NO.: IMD030SB IMD030SL IMD030SC
LAB FILE ID: 98D18097 98D18098 98D18099
DATIME EXTRCTD: 04/20/1210:35 04/20/1210:35 04/20/1210:35 DATE COLLECTED: NA
DATIME ANALYZD: 04/26/1223:46 04/26/1223:50 04/26/1223:55 DATE RECEIVED: 04/20/12
PREP. BATCH: IMD030S IMD030S IMD030S
CALIB. REF: 98D18095 98D18095 98D18095

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2810 | 112 | 2500 | 2650 | 106 | 6 | 80-120 | 20 |
| Antimony | ND | 25.0 | 27.0 | 108 | 25.0 | 25.3 | 101 | 6 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 25.8 | 103 | 25.0 | 24.4 | 98 | 6 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.7 | 103 | 25.0 | 24.3 | 97 | 6 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 24.2 | 97 | 25.0 | 22.7 | 91 | 6 | 80-120 | 20 |
| Boron | ND | 25.0 | 24.8 | 99 | 25.0 | 23.8 | 95 | 5 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 25.4 | 102 | 25.0 | 24.2 | 97 | 5 | 80-120 | 20 |
| Calcium | ND | 2500 | 2650 | 106 | 2500 | 2500 | 100 | 6 | 80-120 | 20 |
| Chromium | ND | 25.0 | 25.1 | 101 | 25.0 | 23.4 | 94 | 7 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 25.6 | 102 | 25.0 | 24.1 | 96 | 6 | 80-120 | 20 |
| Copper | ND | 25.0 | 24.6 | 99 | 25.0 | 23.1 | 93 | 6 | 80-120 | 20 |
| Iron | ND | 2500 | 2660 | 106 | 2500 | 2490 | 100 | 6 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.1 | 100 | 25.0 | 24.3 | 97 | 3 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2780 | 111 | 2500 | 2620 | 105 | 6 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.8 | 103 | 25.0 | 23.8 | 95 | 8 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 26.3 | 105 | 25.0 | 25.1 | 100 | 5 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.6 | 98 | 25.0 | 23.2 | 93 | 6 | 80-120 | 20 |
| Potassium | ND | 2500 | 2720 | 109 | 2500 | 2620 | 105 | 4 | 80-120 | 20 |
| Selenium | ND | 25.0 | 25.5 | 102 | 25.0 | 24.3 | 97 | 5 | 80-120 | 20 |
| Silver | ND | 25.0 | 26.1 | 104 | 25.0 | 25.2 | 101 | 4 | 80-120 | 20 |
| Sodium | ND | 2500 | 2610 | 104 | 2500 | 2480 | 99 | 5 | 80-120 | 20 |
| Strontium | ND | 25.0 | 26.1 | 104 | 25.0 | 24.6 | 98 | 6 | 80-120 | 20 |
| Thallium | ND | 25.0 | 26.0 | 104 | 25.0 | 25.6 | 102 | 2 | 80-120 | 20 |
| Tin | ND | 25.0 | 28.8 | 115 | 25.0 | 27.6 | 111 | 4 | 80-120 | 20 |
| Titanium | ND | 25.0 | 27.1 | 108 | 25.0 | 25.2 | 101 | 7 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 25.6 | 103 | 25.0 | 24.2 | 97 | 6 | 80-120 | 20 |
| Zinc | ND | 50.0 | 50.0 | 100 | 50.0 | 48.2 | 96 | 4 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.9 | 104 | 25.0 | 24.3 | 97 | 6 | 80-120 | 20 |
| Phosphorus | ND | 250 | 265 | 106 | 250 | 255 | 102 | 4 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 25.6 | 102 | 25.0 | 24.3 | 97 | 5 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D135
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 16.5

| | | | | | |
|---|---|---|---|---|---|
| DILTN FACTR: | 0.952 | 0.980 | 0.980 | | |
| SAMPLE ID: | SL-183-NBZ-SS-0.0-0.5 | | | | |
| CONTROL NO.: | D135-02 | D135-02M | D135-02S | | |
| LAB FILE ID: | 98D18103 | 98D18100 | 98D18101 | | |
| DATIME EXTRCTD: | 04/20/1210:35 | 04/20/1210:35 | 04/20/1210:35 | DATE COLLECTED: | 04/13/12 |
| DATIME ANALYZD: | 04/27/1200:13 | 04/26/1223:59 | 04/27/1200:04 | DATE RECEIVED: | 04/13/12 |
| PREP. BATCH: | IMD030S | IMD030S | IMD030S | | |
| CALIB. REF: | 98D18095 | 98D18095 | 98D18095 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 11000 | 2930 | 14600 | 121 | 2930 | 13800 | 96 | 5 | 75-125 | 20 |
| Antimony | 0.183J | 29.3 | 23.1 | 78 | 29.3 | 23.1 | 78 | 0 | 75-125 | 20 |
| Arsenic | 6.15 | 29.3 | 35.0 | 98 | 29.3 | 36.1 | 102 | 3 | 75-125 | 20 |
| Barium | 74.6 | 29.3 | 112 | 126* | 29.3 | 111 | 125 | 0 | 75-125 | 20 |
| Beryllium | 0.407 | 29.3 | 28.3 | 95 | 29.3 | 27.3 | 92 | 3 | 75-125 | 20 |
| Boron | ND | 29.3 | 28.1 | 96 | 29.3 | 27.4 | 93 | 3 | 75-125 | 20 |
| Cadmium | 0.153 | 29.3 | 28.7 | 97 | 29.3 | 28.8 | 98 | 1 | 75-125 | 20 |
| Calcium | 2330 | 2930 | 5380 | 104 | 2930 | 5330 | 102 | 1 | 75-125 | 20 |
| Chromium | 13.7 | 29.3 | 42.1 | 97 | 29.3 | 41.3 | 94 | 2 | 75-125 | 20 |
| Cobalt | 5.07 | 29.3 | 32.8 | 94 | 29.3 | 31.9 | 91 | 3 | 75-125 | 20 |
| Copper | 6.36 | 29.3 | 33.2 | 91 | 29.3 | 32.9 | 90 | 1 | 75-125 | 20 |
| Iron | 18400 | 2930 | 22600 | 143* | 2930 | 21300 | 98 | 6 | 75-125 | 20 |
| Lead | 7.33 | 29.3 | 36.8 | 101 | 29.3 | 36.3 | 99 | 2 | 75-125 | 20 |
| Magnesium | 5180 | 2930 | 8290 | 106 | 2930 | 7920 | 93 | 5 | 75-125 | 20 |
| Manganese | 308 | 29.3 | 341 | 113 | 29.3 | 318 | 35* | 7 | 75-125 | 20 |
| Molybdenum | 0.433 | 29.3 | 30.4 | 102 | 29.3 | 30.3 | 102 | 0 | 75-125 | 20 |
| Nickel | 9.08 | 29.3 | 36.2 | 93 | 29.3 | 35.6 | 90 | 2 | 75-125 | 20 |
| Potassium | 3620 | 2930 | 6800 | 108 | 2930 | 6490 | 98 | 5 | 75-125 | 20 |
| Selenium | ND | 29.3 | 29.0 | 99 | 29.3 | 28.6 | 97 | 1 | 75-125 | 20 |
| Silver | ND | 29.3 | 28.9 | 98 | 29.3 | 28.9 | 98 | 0 | 75-125 | 20 |
| Sodium | ND | 2930 | 2820 | 96 | 2930 | 2810 | 96 | 0 | 75-125 | 20 |
| Strontium | 10.6 | 29.3 | 41.1 | 104 | 29.3 | 40.5 | 102 | 1 | 75-125 | 20 |
| Thallium | 0.245 | 29.3 | 29.4 | 99 | 29.3 | 29.3 | 99 | 0 | 75-125 | 20 |
| Tin | ND | 29.3 | 34.1 | 116 | 29.3 | 33.8 | 115 | 1 | 75-125 | 20 |
| Titanium | 963 | 29.3 | 1080 | 391* | 29.3 | 975 | 39* | 10 | 75-125 | 20 |
| Vanadium | 30.3 | 29.3 | 61.4 | 106 | 29.3 | 59.4 | 99 | 3 | 75-125 | 20 |
| Zinc | 50.7 | 58.7 | 116 | 112 | 58.7 | 110 | 100 | 6 | 75-125 | 20 |
| Lithium | 28.6 | 29.3 | 60.8 | 110 | 29.3 | 56.6 | 95 | 7 | 75-125 | 20 |
| Phosphorus | 348 | 293 | 664 | 108 | 293 | 633 | 97 | 5 | 75-125 | 20 |
| Zirconium | ND | 29.3 | 14.6 | 50* | 29.3 | 14.4 | 49* | 1 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D135
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 16.5
DILTN FACTR: 0.952 0.952
SAMPLE ID: SL-183-NBZ-SS-0.0-0.5
CONTROL NO.: D135-02 D135-02A
LAB FILE ID: 98D18103 98D18102
DATIME EXTRCTD: 04/20/1210:35 04/20/1210:35 DATE COLLECTED: 04/13/12
DATIME ANALYZD: 04/27/1200:13 04/27/1200:08 DATE RECEIVED: 04/13/12
PREP. BATCH: IMD030S IMD030S
CALIB. REF: 98D18095 98D18095

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 11000 | 2850 | 14000 | 105 | 75-125 |
| Antimony | 0.183J | 28.5 | 29.2 | 102 | 75-125 |
| Arsenic | 6.15 | 28.5 | 33.5 | 96 | 75-125 |
| Barium | 74.6 | 28.5 | 105 | 107 | 75-125 |
| Beryllium | 0.407 | 28.5 | 26.9 | 93 | 75-125 |
| Boron | ND | 28.5 | 28.4 | 100 | 75-125 |
| Cadmium | 0.153 | 28.5 | 27.8 | 97 | 75-125 |
| Calcium | 2330 | 2850 | 5140 | 99 | 75-125 |
| Chromium | 13.7 | 28.5 | 39.5 | 91 | 75-125 |
| Cobalt | 5.07 | 28.5 | 30.7 | 90 | 75-125 |
| Copper | 6.36 | 28.5 | 31.5 | 88 | 75-125 |
| Iron | 18400 | 2850 | 21400 | 105 | 75-125 |
| Lead | 7.33 | 28.5 | 34.2 | 94 | 75-125 |
| Magnesium | 5180 | 2850 | 8070 | 101 | 75-125 |
| Manganese | 308 | 28.5 | 329 | 74* | 75-125 |
| Molybdenum | 0.433 | 28.5 | 29.6 | 102 | 75-125 |
| Nickel | 9.08 | 28.5 | 34.2 | 88 | 75-125 |
| Potassium | 3620 | 2850 | 6410 | 98 | 75-125 |
| Selenium | ND | 28.5 | 27.9 | 98 | 75-125 |
| Silver | ND | 28.5 | 28.1 | 98 | 75-125 |
| Sodium | ND | 2850 | 2680 | 94 | 75-125 |
| Strontium | 10.6 | 28.5 | 38.8 | 99 | 75-125 |
| Thallium | 0.245 | 28.5 | 28.0 | 97 | 75-125 |
| Tin | ND | 28.5 | 32.3 | 113 | 75-125 |
| Titanium | 963 | 28.5 | 996 | 114 | 75-125 |
| Vanadium | 30.3 | 28.5 | 57.8 | 97 | 75-125 |
| Zinc | 50.7 | 57.0 | 105 | 95 | 75-125 |
| Lithium | 28.6 | 28.5 | 57.6 | 102 | 75-125 |
| Phosphorus | 348 | 285 | 641 | 103 | 75-125 |
| Zirconium | ND | 28.5 | 26.8 | 94 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D135
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 16.5
DILUTION FACTOR: 0.952 4.76
SAMPLE ID: SL-183-NBZ-SS- SL-183-NBZ-SS-
EMAX SAMP ID: D135-02 D135-02J
LAB FILE ID: 98D18103 98D18104
DATE EXTRACTED: 04/20/1210:35 04/20/1210:35 DATE COLLECTED: 04/13/12
DATE ANALYZED: 04/27/1200:13 04/27/1200:17 DATE RECEIVED: 04/13/12
PREP. BATCH: IMD030S IMD030S
CALIB. REF: 98D18095 98D18095

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 11000 | 11100 | 1 | 10 |
| Antimony | 0.183J | ND | NA | 10 |
| Arsenic | 6.15 | 6.21 | 1 | 10 |
| Barium | 74.6 | 68.1 | 9 | 10 |
| Beryllium | 0.407 | 0.385J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.153 | ND | NA | 10 |
| Calcium | 2330 | 2330 | 0 | 10 |
| Chromium | 13.7 | 13.9 | 1 | 10 |
| Cobalt | 5.07 | 5.22 | 3 | 10 |
| Copper | 6.36 | 6.65 | 5 | 10 |
| Iron | 18400 | 18900 | 3 | 10 |
| Lead | 7.33 | 7.13 | 3 | 10 |
| Magnesium | 5180 | 5190 | 0 | 10 |
| Manganese | 308 | 314 | 2 | 10 |
| Molybdenum | 0.433 | 0.451J | NA | 10 |
| Nickel | 9.08 | 9.30 | 2 | 10 |
| Potassium | 3620 | 3480 | 4 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | ND | ND | 0 | 10 |
| Strontium | 10.6 | 10.1 | 5 | 10 |
| Thallium | 0.245 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 963 | 973 | 1 | 10 |
| Vanadium | 30.3 | 30.4 | 0 | 10 |
| Zinc | 50.7 | 53.7 | 6 | 10 |
| Lithium | 28.6 | 26.6 | 7 | 10 |
| Phosphorus | 348 | 321 | 8 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D135
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD020SB | ND | 1 | NA | 0.100 | 0.0500 | 04/20/1215:09 | 04/20/1212:30 | M47D014010 | M47D014008 | HGD020S | NA | 04/20/12 |
| LCS1S | HGD020SL | 0.885 | 1 | NA | 0.100 | 0.0500 | 04/20/1215:11 | 04/20/1212:30 | M47D014011 | M47D014008 | HGD020S | NA | 04/20/12 |
| LCD1S | HGD020SC | 0.872 | 1 | NA | 0.100 | 0.0500 | 04/20/1215:14 | 04/20/1212:30 | M47D014012 | M47D014008 | HGD020S | NA | 04/20/12 |
| SL-180-NBZ-SS-0.0-0.5 | D135-01 | ND | 0.993 | 19.8 | 0.124 | 0.0619 | 04/20/1216:10 | 04/20/1212:30 | M47D014038 | M47D014032 | HGD020S | 04/13/12 | 04/13/12 |
| SL-183-NBZ-SS-0.0-0.5 | D135-02 | ND | 1.00 | 16.5 | 0.120 | 0.0599 | 04/20/1216:12 | 04/20/1212:30 | M47D014039 | M47D014032 | HGD020S | 04/13/12 | 04/13/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D135
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGD020SB | HGD020SL | HGD020SC | | |
| LAB FILE ID: | M47D014010 | M47D014011 | M47D014012 | | |
| DATIME EXTRCTD: | 04/20/1212:30 | 04/20/1212:30 | 04/20/1212:30 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/20/1215:09 | 04/20/1215:11 | 04/20/1215:14 | DATE RECEIVED: | 04/20/12 |
| PREP. BATCH: | HGD020S | HGD020S | HGD020S | | |
| CALIB. REF: | M47D014008 | M47D014008 | M47D014008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .885 | 106 | .833 | .872 | 105 | 2 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D135
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 8.6 |
| DILTN FACTR: | 0.998 | 0.998 | | |
| SAMPLE ID: | SL-191-NBZ-SS-0.0-0.5 | | | |
| CONTROL NO.: | D084-07 | D084-07A | | |
| LAB FILE ID: | M47D014014 | M47D014013 | | |
| DATIME EXTRCTD: | 04/20/1212:30 | 04/20/1212:30 | DATE COLLECTED: | 04/09/12 |
| DATIME ANALYZD: | 04/20/1215:19 | 04/20/1215:16 | DATE RECEIVED: | 04/09/12 |
| PREP. BATCH: | HGD020S | HGD020S | | |
| CALIB. REF: | M47D014008 | M47D014008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .91 | .95 | 104 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D135
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 8.6

| | | |
|---|---|---|
| DILUTION FACTOR: | 0.998 | 4.99 |
| SAMPLE ID: | SL-191-NBZ-SS-0.0-0 | SL-191-NBZ-SS-0.0-0 |
| EMAX SAMP ID: | D084-07 | D084-07J |
| LAB FILE ID: | M47D014014 | M47D014015 |
| DATE EXTRACTED: | 04/20/1212:30 | 04/20/1212:30 |
| DATE ANALYZED: | 04/20/1215:19 | 04/20/1215:21 |
| PREP. BATCH: | HGD020S | HGD020S |
| CALIB. REF: | M47D014008 | M47D014008 |

DATE COLLECTED: 04/09/12
DATE RECEIVED: 04/09/12

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D135
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD009SB | ND | 1 | NA | 1.00 | 0.500 | 04/20/1211:52 | 04/19/1210:17 | AD27-06 | AD27-04 | ICD009S | NA | 04/19/12 |
| LCS1S | ICD009SL | 6.26 | 1 | NA | 1.00 | 0.500 | 04/20/1212:08 | 04/19/1210:17 | AD27-07 | AD27-04 | ICD009S | NA | 04/19/12 |
| LCD1S | ICD009SC | 6.24 | 1 | NA | 1.00 | 0.500 | 04/20/1212:24 | 04/19/1210:17 | AD27-08 | AD27-04 | ICD009S | NA | 04/19/12 |
| SL-180-NBZ-SS-0.0-0.5 | D135-01 | ND | 1 | 19.8 | 1.25 | 0.623 | 04/20/1212:40 | 04/19/1210:17 | AD27-09 | AD27-04 | ICD009S | 04/13/1209:45 | 04/13/12 |
| SL-183-NBZ-SS-0.0-0.5 | D135-02 | ND | 1 | 16.5 | 1.20 | 0.599 | 04/20/1212:56 | 04/19/1210:17 | AD27-10 | AD27-04 | ICD009S | 04/13/1210:50 | 04/13/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D135
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD009SB | ICD009SL | ICD009SC | | |
| LAB FILE ID: | AD27-06 | AD27-07 | AD27-08 | | |
| DATE EXTRACTED: | 04/19/1210:17 | 04/19/1210:17 | 04/19/1210:17 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/20/1211:52 | 04/20/1212:08 | 04/20/1212:24 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | ICD009S | ICD009S | ICD009S | | |
| CALIB. REF: | AD27-04 | AD27-04 | AD27-04 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 6.26 | 104 | 6.00 | 6.24 | 104 | 0 | 90-110 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D135
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD016SB | ND | 1 | NA | 20.0 | 10.0 | 04/23/1211:26 | 04/19/1210:30 | JD23002 | JD23001 | PCD016S | NA | 04/19/12 |
| LCS1S | PCD016SL | 252 | 1 | NA | 20.0 | 10.0 | 04/23/1212:08 | 04/19/1210:30 | JD23004 | JD23001 | PCD016S | NA | 04/19/12 |
| LCD1S | PCD016SC | 243 | 1 | NA | 20.0 | 10.0 | 04/23/1212:29 | 04/19/1210:30 | JD23005 | JD23001 | PCD016S | NA | 04/19/12 |
| SL-180-NBZ-SS-0.0-0.5 | D135-01 | ND | 1 | 19.8 | 24.9 | 12.5 | 04/23/1212:54 | 04/19/1210:30 | JD23006 | JD23001 | PCD016S | 04/13/1209:45 | 04/13/12 |
| SL-183-NBZ-SS-0.0-0.5 | D135-02 | ND | 1 | 16.5 | 24.0 | 12.0 | 04/23/1213:15 | 04/19/1210:30 | JD23007 | JD23001 | PCD016S | 04/13/1210:50 | 04/13/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D135
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD016SB | PCD016SL | PCD016SC | | |
| LAB FILE ID: | JD23002 | JD23004 | JD23005 | | |
| DATE EXTRACTED: | 04/19/1210:30 | 04/19/1210:30 | 04/19/1210:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/23/1211:26 | 04/23/1212:08 | 04/23/1212:29 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | PCD016S | PCD016S | PCD016S | | |
| CALIB. REF: | JD23001 | JD23001 | JD23001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 252 | 101 | 250 | 243 | 97 | 4 | 85-115 | 15 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D135
Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD010SB | ND | 1 | NA | 1.00 | 0.500 | 04/20/1217:40 | 04/18/1215:06 | ID21013 | ID21011 | HCD010S | NA | 04/18/12 |
| MBLK1S | HCD010SQ | ND | 1 | NA | 1.00 | 0.500 | 04/20/1217:50 | 04/18/1215:06 | ID21014 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS1S | CSD010SL | 9.63 | 1 | NA | 1.00 | 0.500 | 04/20/1218:00 | 04/18/1215:06 | ID21015 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS1S | CSD010SX | 11.5 | 1 | NA | 1.00 | 0.500 | 04/20/1218:11 | 04/18/1215:06 | ID21016 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS2S | CID010SL | 467 | 25 | NA | 25.0 | 12.5 | 04/20/1218:21 | 04/18/1215:06 | ID21017 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS2S | CID010SX | 465 | 25 | NA | 25.0 | 12.5 | 04/20/1218:32 | 04/18/1215:06 | ID21018 | ID21011 | HCD010S | NA | 04/18/12 |
| SL-180-NBZ-SS-0.0-0.5 | D135-01 | ND | 1 | 19.8 | 1.25 | 0.623 | 04/20/1220:57 | 04/18/1215:06 | ID21031 | ID21023 | HCD010S | 04/13/1209:45 | 04/13/12 |
| SL-180-NBZ-SS-0.0-0.5 | D135-01R | ND | 1 | 19.8 | 1.25 | 0.623 | 04/20/1221:08 | 04/18/1215:06 | ID21032 | ID21023 | HCD010S | 04/13/1209:45 | 04/13/12 |
| SL-183-NBZ-SS-0.0-0.5 | D135-02 | ND | 1 | 16.5 | 1.20 | 0.599 | 04/20/1221:18 | 04/18/1215:06 | ID21033 | ID21023 | HCD010S | 04/13/1210:50 | 04/13/12 |
| SL-183-NBZ-SS-0.0-0.5 | D135-02R | ND | 1 | 16.5 | 1.20 | 0.599 | 04/20/1221:29 | 04/18/1215:06 | ID21034 | ID21023 | HCD010S | 04/13/1210:50 | 04/13/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D135
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 25
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD010SQ CID010SX
LAB FILE ID: ID21014 ID21018
DATE EXTRACTED: 04/18/1215:06 04/18/1215:06 DATE COLLECTED: NA
DATE ANALYZED: 04/20/1217:50 04/20/1218:32 DATE RECEIVED: 04/18/12
PREP. BATCH: HCD010S HCD010S
CALIB. REF: ID21011 ID21011

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 551 | 465 | 84 | 80-120 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D135
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-180-NBZ-SS-0.0-0.5 | D135-01 | 6.12 | 1 | NA | NA | NA | 04/13/1219:29 | 04/13/1219:16 | 12PHD014S08 | PHD014S | PHD014S | 04/13/1209:45 | 04/13/12 |
| SL-183-NBZ-SS-0.0-0.5 | D135-02 | 6.92 | 1 | NA | NA | NA | 04/13/1219:31 | 04/13/1219:16 | 12PHD014S09 | PHD014S | PHD014S | 04/13/1210:50 | 04/13/12 |

# SAMPLE DELIVERY GROUP

# 12D146

**NBZ – Data Package Amendment**
**SDG 12D146, SDG 12D166, SDG DX169, SDG DX170**
**6-17-13**

During the database check, an inconsistency in sample identification was discovered that needed to be corrected. They are listed below:

- Two samples for SL-160-NBZ-SS-0.0-0.5 were taken on the same day at the same location.
- One sample was re-assigned as a field duplicate called DUP-10-NBZ-QC-041612.
- The field duplicate sample DUP-10-NBZ-QC-041612 was added to the dt_sample table and the methods in SDG 12D166 and DX170 were assigned to it.

All changes have been documented and verified by the field personnel and data group.

Pam Hartman
Catherine Love
Cherie Zakowski

eurofins | Lancaster Laboratories

# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

DUP-10-NBZ-QC-041612 CZ 6/17/13



Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6624306
LLI Group # 1303751
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2012 14:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7014 SDG#: DX170-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.0 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

DUP-10-NBZ-QC-041612 6/17/13



Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6624306
LLI Group # 1303751
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2012 14:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7014 SDG#: DX170-14

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0244 | U | 0.0244 | 1.12 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.108 | J | 0.0219 | 5.61 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0804 | JBQ | 0.0285 | 5.61 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.246 | JB | 0.0311 | 5.61 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.247 | JB | 0.0310 | 5.61 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.97 | JB | 0.0235 | 5.61 | 1 |
| 11031 | OCDD | 3268-87-9 | 10.7 | JB | 0.0227 | 11.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.208 | JB | 0.0591 | 1.12 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.253 | JBQ | 0.0365 | 5.61 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.605 | JB | 0.0369 | 5.61 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.238 | JB | 0.0276 | 5.61 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.159 | J | 0.0246 | 5.61 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0436 | JB | 0.0302 | 5.61 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.225 | JB | 0.0234 | 5.61 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.492 | JB | 0.0146 | 5.61 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0638 | JB | 0.0236 | 5.61 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.826 | JB | 0.0236 | 11.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 76 | 25 - 164 |
| 13C12-12378-PeCDD | 75 | 25 - 181 |
| 13C12-123478-HxCDD | 96 | 32 - 141 |
| 13C12-123678-HxCDD | 89 | 28 - 130 |
| 13C12-123789-HxCDD | 87 | 28 - 130 |
| 13C12-1234678-HpCDD | 83 | 23 - 140 |
| 13C12-OCDD | 78 | 17 - 157 |
| 13C12-2378-TCDF | 68 | 24 - 169 |
| 13C12-12378-PeCDF | 76 | 24 - 185 |
| 13C12-23478-PeCDF | 70 | 21 - 178 |
| 13C12-123478-HxCDF | 77 | 26 - 152 |
| 13C12-123678-HxCDF | 84 | 26 - 123 |
| 13C12-234678-HxCDF | 90 | 28 - 136 |
| 13C12-123789-HxCDF | 72 | 29 - 147 |
| 13C12-1234678-HpCDF | 97 | 28 - 143 |
| 13C12-1234789-HpCDF | 65 | 26 - 138 |
| 13C12-OCDF | 59 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

DUP-10-NBZ-QC-041612 CZ 6/17/13



Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6624306
LLI Group # 1303751
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2012 14:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7014 SDG#: DX170-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| S | *Saturation of detection signal* | | | | | |

*=This limit was used in the evaluation of the final result

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# Analysis Report

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DUP-10-NBZ-QC-041612 6/17/13



**Sample Description:** SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6624306
LLI Group # 1303751
Account # 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 14:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7014 SDG#: DX170-14

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 09:15 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401B | 05/01/2012 11:51 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

eurofins | Lancaster Laboratories

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# Analysis Report



Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6620881
LLI Group # 1303087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/16/2012 14:40

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6906 SDG#: DX169-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 10.2 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6620881
LLI Group # 1303087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/16/2012 14:40

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6906 SDG#: DX169-06

| CAT No. | Analysis Name | | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | | 1746-01-6 | 0.0213 | U | 0.0213 | 1.09 | 1 |
| 11031 | 12378-PeCDD | | 40321-76-4 | 0.0928 | JBQ | 0.0199 | 5.47 | 1 |
| 11031 | 123478-HxCDD | | 39227-28-6 | 0.0864 | JB | 0.0293 | 5.47 | 1 |
| 11031 | 123678-HxCDD | | 57653-85-7 | 0.165 | JB | 0.0274 | 5.47 | 1 |
| 11031 | 123789-HxCDD | | 19408-74-3 | 0.172 | JB | 0.0269 | 5.47 | 1 |
| 11031 | 1234678-HpCDD | | 35822-46-9 | 1.94 | JB | 0.0228 | 5.47 | 1 |
| 11031 | OCDD | | 3268-87-9 | 12.9 | B | 0.0182 | 10.9 | 1 |
| 11031 | 2378-TCDF | | 51207-31-9 | 0.0924 | JB | 0.0412 | 1.09 | 1 |
| 11031 | 12378-PeCDF | | 57117-41-6 | 0.139 | JB | 0.0233 | 5.47 | 1 |
| 11031 | 23478-PeCDF | | 57117-31-4 | 0.261 | JB | 0.0214 | 5.47 | 1 |
| 11031 | 123478-HxCDF | | 70648-26-9 | 0.120 | JB | 0.0197 | 5.47 | 1 |
| 11031 | 123678-HxCDF | | 57117-44-9 | 0.0911 | JB | 0.0190 | 5.47 | 1 |
| 11031 | 123789-HxCDF | | 72918-21-9 | 0.0288 | JB | 0.0192 | 5.47 | 1 |
| 11031 | 234678-HxCDF | | 60851-34-5 | 0.158 | JB | 0.0185 | 5.47 | 1 |
| 11031 | 1234678-HpCDF | | 67562-39-4 | 0.474 | JB | 0.0219 | 5.47 | 1 |
| 11031 | 1234789-HpCDF | | 55673-89-7 | 0.0688 | JB | 0.0255 | 5.47 | 1 |
| 11031 | OCDF | | 39001-02-0 | 0.711 | JB | 0.0141 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 84 | 25 - 164 |
| 13C12-12378-PeCDD | 86 | 25 - 181 |
| 13C12-123478-HxCDD | 88 | 32 - 141 |
| 13C12-123678-HxCDD | 101 | 28 - 130 |
| 13C12-123789-HxCDD | 96 | 28 - 130 |
| 13C12-1234678-HpCDD | 88 | 23 - 140 |
| 13C12-OCDD | 86 | 17 - 157 |
| 13C12-2378-TCDF | 77 | 24 - 169 |
| 13C12-12378-PeCDF | 82 | 24 - 185 |
| 13C12-23478-PeCDF | 83 | 21 - 178 |
| 13C12-123478-HxCDF | 79 | 26 - 152 |
| 13C12-123678-HxCDF | 79 | 26 - 123 |
| 13C12-234678-HxCDF | 82 | 28 - 136 |
| 13C12-123789-HxCDF | 86 | 29 - 147 |
| 13C12-1234678-HpCDF | 87 | 28 - 143 |
| 13C12-1234789-HpCDF | 82 | 26 - 138 |
| 13C12-OCDF | 80 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

- *B Detected in Method Blank*
- *U Undetected*
- *J Estimated concentration between Estimated Detection Limit and Minimum Level*
- *E Exceeds calibration range*
- *C Confirmed quantitation on secondary GC column*
- *Q EMPC - Estimated Maximum Possible Concentration*
- *F Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6620881
LLI Group # 1303087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/16/2012 14:40

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6906 SDG#: DX169-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| S | *Saturation of detection signal* | | | | | |

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6620881
LLI Group # 1303087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/16/2012 14:40

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6906 SDG#: DX169-06

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12111004 | 04/24/2012 00:22 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12111004 | 04/20/2012 12:45 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401A | 05/01/2012 11:51 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| Batch No. | : 120166 | Date Extracted | : 04/25/1211:53 |
| Sample ID | : SL-160-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/02/12 21:13 |
| Lab Samp ID | : D166-09 | Dilution Factor | : 1 |
| Lab File ID | : REL078 DUP-10-NBZ-QC- CK11612 | Matrix | : SOIL |
| Ext Btch ID | : SVD047S | % Moisture | : 10.8 |
| Calib. Ref. | : RDL204 | Instrument ID | : T-OE9 |

EZ 6/7/12

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 750 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 834 | 1121 | 74.4 | 35-130 |
| 2-FLUOROBIPHENYL | 292 | 373.7 | 78.2 | 45-130 |
| 2-FLUOROPHENOL | 791 | 1121 | 70.6 | 25-130 |
| NITROBENZENE-D5 | 244 | 373.7 | 65.2 | 40-130 |
| PHENOL-D5 | 812 | 1121 | 72.4 | 25-120 |
| TERPHENYL-D14 | 381 | 373.7 | 102 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 21:13 |
| Lab Samp ID: D166-09 DUP-10-NBZ-QC-041612 | Dilution Factor: 1 |
| Lab File ID: REL078 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 10.8 |
| Calib. Ref.: RDL204 cz 6/17/13 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)PYRENE | ND | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.95 |
| CHRYSENE | ND | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | ND | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.95 |
| NAPHTHALENE | ND | 1.9 | 0.95 |
| PHENANTHRENE | ND | 1.9 | 0.95 |
| PYRENE | ND | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | 9.6J | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 240 | 373.7 | 64.2 | 40-130 |
| 2-FLUOROBIPHENYL | 256 | 373.7 | 68.6 | 45-130 |
| TERPHENYL-D14 | 347 | 373.7 | 92.8 | 45-135 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 19:12 |
| Lab Samp ID: D166-09 | Dilution Factor: 1 |
| Lab File ID: MD27027A DUP-b-NBZ-QC- | Matrix : SOIL |
| Ext Btch ID: CPD054S 04/6/12 CZ 6/07/13 | % Moisture : 10.8 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | | RL (ug/kg) | MDL (ug/kg) | |
|---|---|---|---|---|---|
| ALPHA-BHC | 0.61 | (ND) | 0.19 | 0.095 | 0.095 |
| GAMMA-BHC (LINDANE) | (ND) | ND | 0.19 | 0.095 | 0.095 |
| BETA-BHC | (ND) | ND | 0.19 | 0.095 | 0.095 |
| HEPTACHLOR | (ND) | 0.23 | 0.19 | 0.095 | 0.095 |
| DELTA-BHC | (ND) | 1.1 | 0.19 | 0.095 | 0.095 |
| ALDRIN | (ND) | 0.38 | 0.19 | 0.095 | 0.095 |
| HEPTACHLOR EPOXIDE | 0.35 | (ND) | 0.19 | 0.095 | 0.095 |
| ENDOSULFAN I | (ND) | 0.13J | 0.19 | 0.095 | 0.095 |
| 4,4'-DDE | (1.1) | 0.89 | 0.38 | 0.19 | 0.19 |
| DIELDRIN | (ND) | ND | 0.38 | 0.19 | 0.19 |
| ENDRIN | (ND) | ND | 0.38 | 0.19 | 0.19 |
| 4,4'-DDD | (ND) | 0.92 | 0.38 | 0.19 | 0.19 |
| ENDOSULFAN II | (ND) | ND | 0.38 | 0.19 | 0.19 |
| 4,4'-DDT | (1.7) | 1.6 | 0.38 | 0.19 | 0.19 |
| ENDRIN ALDEHYDE | (ND) | 0.25J | 0.38 | 0.19 | 0.19 |
| ENDOSULFAN SULFATE | (ND) | 0.98 | 0.38 | 0.19 | 0.19 |
| ENDRIN KETONE | 0.98 | (ND) | 0.38 | 0.19 | 0.19 |
| METHOXYCHLOR | 2.5 | (ND) | 1.9 | 0.95 | 0.95 |
| MIREX | (ND) | ND | 0.38 | 0.19 | 0.19 |
| TOXAPHENE | (ND) | ND | 7.4 | 3.7 | 3.7 |
| CHLORDANE (TECHNICAL) | (ND) | ND | 3.8 | 1.9 | 1.9 |

| SURROGATE PARAMETERS | RESULTS | | SPK_AMT | % RECOVERY | | QC LIMIT |
|---|---|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.593 | (5.594) | 5.979 | 76.8 | (93.6) | 50-130 |
| DECACHLOROBIPHENYL | (5.786) | 4.684 | 5.979 | (96.8) | 78.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/26/12 17:43 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/14/12 18:37 |
| Lab Samp ID: D166-09 DUP-10-NBZ-QC-041612 cz 6/7/13 | Dilution Factor: 1 |
| Lab File ID: KE14012A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 10.8 |
| Calib. Ref.: KE14003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1221 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1232 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1242 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1248 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1254 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1260 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1262 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1268 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 5432 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| AROCLOR 5442 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| AROCLOR 5460 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.005) \| 4.897 | 5.979 | (117) \| 81.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.558) \| 4.527 | 5.979 | (110) \| 75.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 120166 | Date Extracted: 04/23/12 17:23 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 18:48 |
| Lab Samp ID: D166-09 DUP-10-NBZ-QC-04/16/12 | Dilution Factor: 1 |
| Lab File ID: WD25026A | Matrix : SOIL |
| Ext Btch ID: HED012S | % Moisture : 10.8 |
| Calib. Ref.: WD25020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 4.0 | 2.0 \| 2.0 |
| 2,4-DB | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| 2,4,5-T | 0.34 \| (ND) | 0.19 | 0.095 \| 0.095 |
| 2,4,5-TP(SILVEX) | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| DALAPON | (ND) \| ND | 10 | 5.0 \| 5.0 |
| DICAMBA | (ND) \| ND | 1.3 | 0.67 \| 0.67 |
| DICHLOROPROP | (ND) \| ND | 2.7 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| MCPA | (ND) \| ND | 280 | 140 \| 140 |
| MCPP | (ND) \| ND | 280 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (231.8) \| 180.3 | 168.2 | (138) \| 107 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 6020
METALS BY ICP-MS

oz 6/17/13

DUP-10-NBZ-QC-041612

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 04/18/12 |
| SDG NO. | : 12D166 | Date Extracted: | 04/25/12 10:28 |
| Sample ID: | SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: | 04/30/12 17:50 # 05/01/12 19:01 |
| Lab Samp ID: | D166-09 #D166-09W | Dilution Factor: | 0.976 |
| Lab File ID: | 98D21066 #98E01050 | Matrix : | SOIL |
| Ext Btch ID: | IMD036S | % Moisture : | 10.8 |
| Calib. Ref.: | 98D21062 #98E01041 | Instrument ID : | T-198 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 9610 | 26.3 | 13.1 |
| | Antimony | 0.164J | 0.219 | 0.109 |
| | Arsenic | 4.70 | 0.438 | 0.219 |
| | Barium | 60.5 | 0.438 | 0.219 |
| | Beryllium | 0.494 | 0.109 | 0.0547 |
| | Boron | ND | 5.47 | 2.74 |
| | Cadmium | 0.205 | 0.109 | 0.0547 |
| | Calcium | 2290 | 21.9 | 10.9 |
| | Chromium | 11.2 | 0.438 | 0.219 |
| | Cobalt | 4.81 | 0.109 | 0.0547 |
| | Copper | 6.78 | 0.438 | 0.219 |
| | Iron | 20100 | 21.9 | 10.9 |
| | Lead | 9.49 | 0.219 | 0.109 |
| | Magnesium | 4160 | 10.9 | 5.47 |
| | Manganese | 260 | 0.547 | 0.274 |
| | Molybdenum | 0.359 | 0.109 | 0.0547 |
| | Nickel | 7.36 | 0.438 | 0.219 |
| | Potassium | 2720 | 65.7 | 32.8 |
| | Selenium | 0.887 | 0.438 | 0.219 |
| | Silver | ND | 0.109 | 0.0547 |
| | Sodium | ND | 109 | 54.7 |
| # | Strontium | 10.3 | 0.547 | 0.274 |
| | Thallium | 0.253 | 0.109 | 0.0547 |
| | Tin | ND | 10.9 | 5.47 |
| | Titanium | 785 | 1.09 | 0.547 |
| | Vanadium | 25.7 | 0.109 | 0.0547 |
| | Zinc | 59.1 | 3.28 | 1.64 |
| | Lithium | 28.6 | 2.19 | 1.09 |
| | Phosphorus | 395 | 13.1 | 6.57 |
| | Zirconium | ND | 5.47 | 2.74 |

# Members of the Associated File

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD025SB | ND | 1 | NA | 0.100 | 0.0500 | 04/24/1217:56 | 04/24/1213:30 | M47D017035 | M47D017032 | HGD025S | NA | 04/24/12 |
| LCS1S | HGD025SL | 0.863 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:58 | 04/24/1213:30 | M47D017036 | M47D017032 | HGD025S | NA | 04/24/12 |
| LCD1S | HGD025SC | 0.853 | 1 | NA | 0.100 | 0.0500 | 04/24/1218:00 | 04/24/1213:30 | M47D017037 | M47D017032 | HGD025S | NA | 04/24/12 |
| SL-008-NBZ-SB-4.0-5.0AS | D166-02A | 0.911 | 0.993 | 5.3 | 0.105 | 0.0524 | 04/24/1218:03 | 04/24/1213:30 | M47D017038 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 0.993 | 5.3 | 0.105 | 0.0524 | 04/24/1218:05 | 04/24/1213:30 | M47D017039 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DL | D166-02J | ND | 4.97 | 5.3 | 0.525 | 0.262 | 04/24/1218:07 | 04/24/1213:30 | M47D017040 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M | 0.920 | 0.992 | 5.3 | 0.105 | 0.0524 | 04/24/1218:09 | 04/24/1213:30 | M47D017041 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MSD | D166-02S | 0.921 | 0.995 | 5.3 | 0.105 | 0.0525 | 04/24/1218:11 | 04/24/1213:30 | M47D017042 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 0.998 | 16.0 | 0.119 | 0.0594 | 04/24/1218:13 | 04/24/1213:30 | M47D017043 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 0.233 | 0.985 | 12.8 | 0.113 | 0.0565 | 04/24/1218:20 | 04/24/1213:30 | M47D017046 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1.01 | 12.1 | 0.115 | 0.0575 | 04/24/1218:22 | 04/24/1213:30 | M47D017047 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 0.0992J | 0.995 | 12.6 | 0.114 | 0.0569 | 04/24/1218:24 | 04/24/1213:30 | M47D017048 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1.00 | 13.0 | 0.115 | 0.0575 | 04/24/1218:26 | 04/24/1213:30 | M47D017049 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 0.995 | 10.8 | 0.112 | 0.0558 | 04/24/1218:28 | 04/24/1213:30 | M47D017050 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 0.997 | 12.7 | 0.114 | 0.0571 | 04/24/1218:30 | 04/24/1213:30 | M47D017051 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |

DUP-10-NBZ-QC-041612

CZ
6/7/13

GS2

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : DO

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD010SB | ND | 1 | NA | 1.00 | 0.500 | 04/24/1220:12 | 04/23/1211:11 | AD31-39 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCS1S | ICD010SL | 6.34 | 1 | NA | 1.00 | 0.500 | 04/24/1220:28 | 04/23/1211:11 | AD31-40 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCD1S | ICD010SC | 6.31 | 1 | NA | 1.00 | 0.500 | 04/24/1220:44 | 04/23/1211:11 | AD31-41 | AD31-37 | ICD010S | NA | 04/23/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 1.06 | 0.528 | 04/24/1221:00 | 04/23/1211:11 | AD31-42 | AD31-37 | ICD010S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 1 | 16.0 | 1.19 | 0.595 | 04/24/1221:16 | 04/23/1211:11 | AD31-43 | AD31-37 | ICD010S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 0.831J | 1 | 12.8 | 1.15 | 0.573 | 04/24/1221:33 | 04/23/1211:11 | AD31-44 | AD31-37 | ICD010S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | 1.26 | 1 | 12.1 | 1.14 | 0.569 | 04/24/1221:49 | 04/23/1211:11 | AD31-45 | AD31-37 | ICD010S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 0.692J | 1 | 12.6 | 1.14 | 0.572 | 04/24/1222:05 | 04/23/1211:11 | AD31-46 | AD31-37 | ICD010S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 1.15 | 0.575 | 04/24/1222:21 | 04/23/1211:11 | AD31-47 | AD31-37 | ICD010S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 1.12 | 0.561 | 04/24/1223:26 | 04/23/1211:11 | AD31-51 | AD31-49 | ICD010S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 1.15 | 0.573 | 04/24/1223:42 | 04/23/1211:11 | AD31-52 | AD31-49 | ICD010S | 04/18/1211:20 | 04/18/12 |

DUP-10-NBZ-QC-041612

EZ
6/07/13

1827

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD018SB | ND | 1 | NA | 20.0 | 10.0 | 04/23/1221:48 | 04/23/1211:30 | JD23031 | JD23030 | PCD018S | NA | 04/23/12 |
| LCS1S | PCD018SL | 241 | 1 | NA | 20.0 | 10.0 | 04/23/1222:30 | 04/23/1211:30 | JD23033 | JD23030 | PCD018S | NA | 04/23/12 |
| LCD1S | PCD018SC | 243 | 1 | NA | 20.0 | 10.0 | 04/23/1222:51 | 04/23/1211:30 | JD23034 | JD23030 | PCD018S | NA | 04/23/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 21.1 | 10.6 | 04/23/1223:12 | 04/23/1211:30 | JD23035 | JD23030 | PCD018S | 04/18/1209:55 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | ND | 1 | 12.8 | 22.9 | 11.5 | 04/23/1223:54 | 04/23/1211:30 | JD23037 | JD23030 | PCD018S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1 | 12.1 | 22.8 | 11.4 | 04/24/1200:15 | 04/23/1211:30 | JD23038 | JD23030 | PCD018S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | ND | 1 | 12.6 | 22.9 | 11.4 | 04/24/1200:36 | 04/23/1211:30 | JD23039 | JD23030 | PCD018S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 23.0 | 11.5 | 04/24/1201:39 | 04/23/1211:30 | JD23042 | JD23041 | PCD018S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 22.4 | 11.2 | 04/24/1202:00 | 04/23/1211:30 | JD23043 | JD23041 | PCD018S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 22.9 | 11.5 | 04/24/1202:21 | 04/23/1211:30 | JD23044 | JD23041 | PCD018S | 04/18/1211:20 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 5 | 16.0 | 119 | 59.5 | 04/24/1210:44 | 04/23/1211:30 | JD23064 | JD23062 | PCD018S | 04/18/1210:00 | 04/18/12 |

DUP-10-NBZ-QC-041612

CZ
6/17/13

Ch2 1

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD012SB | ND | 1 | NA | 1.00 | 0.500 | 04/25/1215:02 | 04/24/1216:57 | ID25003 | ID25001 | HCD012S | NA | 04/24/12 |
| MBLK1S | HCD012SQ | ND | 1 | NA | 1.00 | 0.500 | 04/25/1215:13 | 04/24/1216:57 | ID25004 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS1S | CID012SL | 337 | 20 | NA | 20.0 | 10.0 | 04/25/1215:44 | 04/24/1216:57 | ID25007 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS1S | CID012SX | 341 | 20 | NA | 20.0 | 10.0 | 04/25/1215:55 | 04/24/1216:57 | ID25008 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS2S | CSD012SL | 8.77 | 1 | NA | 1.00 | 0.500 | 04/25/1219:18 | 04/24/1216:57 | ID25023 | ID25013 | HCD012S | NA | 04/24/12 |
| LCS2S | CSD012SX | 8.57 | 1 | NA | 1.00 | 0.500 | 04/25/1219:28 | 04/24/1216:57 | ID25024 | ID25013 | HCD012S | NA | 04/24/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M | 9.82 | 1 | 5.3 | 1.06 | 0.528 | 04/25/1216:33 | 04/24/1216:57 | ID25009 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M1 | 9.75 | 1 | 5.3 | 1.06 | 0.528 | 04/25/1216:44 | 04/24/1216:57 | ID25010 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02G | 470 | 20 | 5.3 | 21.1 | 10.6 | 04/25/1216:54 | 04/24/1216:57 | ID25011 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02G1 | 495 | 20 | 5.3 | 21.1 | 10.6 | 04/25/1217:05 | 04/24/1216:57 | ID25012 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1217:54 | 04/24/1216:57 | ID25015 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02R | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:04 | 04/24/1216:57 | ID25016 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DUP | D166-02D | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:14 | 04/24/1216:57 | ID25017 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DUP | D166-02Z | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:25 | 04/24/1216:57 | ID25018 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 1 | 16.0 | 1.19 | 0.595 | 04/25/1220:30 | 04/24/1216:57 | ID25029 | ID25025 | HCD012S | 04/18/1210:00 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03R | ND | 1 | 16.0 | 1.19 | 0.595 | 04/25/1220:41 | 04/24/1216:57 | ID25030 | ID25025 | HCD012S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | ND | 1 | 12.8 | 1.15 | 0.573 | 04/25/1220:51 | 04/24/1216:57 | ID25031 | ID25025 | HCD012S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04R | ND | 1 | 12.8 | 1.15 | 0.573 | 04/25/1221:02 | 04/24/1216:57 | ID25032 | ID25025 | HCD012S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1 | 12.1 | 1.14 | 0.569 | 04/25/1221:12 | 04/24/1216:57 | ID25033 | ID25025 | HCD012S | 04/18/1210:57 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06R | ND | 1 | 12.1 | 1.14 | 0.569 | 04/25/1221:22 | 04/24/1216:57 | ID25034 | ID25025 | HCD012S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | ND | 1 | 12.6 | 1.14 | 0.572 | 04/25/1221:33 | 04/24/1216:57 | ID25035 | ID25025 | HCD012S | 04/18/1214:06 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07R | ND | 1 | 12.6 | 1.14 | 0.572 | 04/25/1221:43 | 04/24/1216:57 | ID25036 | ID25025 | HCD012S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 1.15 | 0.575 | 04/25/1222:25 | 04/24/1216:57 | ID25039 | ID25037 | HCD012S | 04/18/1215:40 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08R | ND | 1 | 13.0 | 1.15 | 0.575 | 04/25/1222:35 | 04/24/1216:57 | ID25040 | ID25037 | HCD012S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 1.12 | 0.561 | 04/25/1222:46 | 04/24/1216:57 | ID25041 | ID25037 | HCD012S | 04/18/1214:25 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09R | ND | 1 | 10.8 | 1.12 | 0.561 | 04/25/1222:56 | 04/24/1216:57 | ID25042 | ID25037 | HCD012S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 1.15 | 0.573 | 04/25/1223:06 | 04/24/1216:57 | ID25043 | ID25037 | HCD012S | 04/18/1211:20 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10R | ND | 1 | 12.7 | 1.15 | 0.573 | 04/25/1223:17 | 04/24/1216:57 | ID25044 | ID25037 | HCD012S | 04/18/1211:20 | 04/18/12 |

DUP-10-NBZ-QC-041612

CZ
6/7/13

0659

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | 6.55 | 1 | NA | NA | NA | 04/19/1217:45 | 04/19/1217:32 | 12PHD021S08 | PHD021S | PHD021S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | 6.50 | 1 | NA | NA | NA | 04/19/1217:46 | 04/19/1217:32 | 12PHD021S09 | PHD021S | PHD021S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 6.52 | 1 | NA | NA | NA | 04/19/1217:47 | 04/19/1217:32 | 12PHD021S10 | PHD021S | PHD021S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | 6.72 | 1 | NA | NA | NA | 04/19/1217:52 | 04/19/1217:32 | 12PHD021S11 | PHD021S | PHD021S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 6.95 | 1 | NA | NA | NA | 04/19/1217:54 | 04/19/1217:32 | 12PHD021S12 | PHD021S | PHD021S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | 7.19 | 1 | NA | NA | NA | 04/19/1217:55 | 04/19/1217:32 | 12PHD021S13 | PHD021S | PHD021S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | 6.25 | 1 | NA | NA | NA | 04/19/1217:57 | 04/19/1217:32 | 12PHD021S14 | PHD021S | PHD021S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | 6.71 | 1 | NA | NA | NA | 04/19/1217:59 | 04/19/1217:32 | 12PHD021S15 | PHD021S | PHD021S | 04/18/1211:20 | 04/18/12 |

DUP-10-NBZ-QC-041612

CZ
6/17/13

GZT

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/1211:53 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 16:52 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: REL068 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 10.4 |
| Calib. Ref.: RDL204 | Instrument ID : T-0E9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 740 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 789 | 1116 | 70.7 | 35-130 |
| 2-FLUOROBIPHENYL | 237 | 372.0 | 63.7 | 45-130 |
| 2-FLUOROPHENOL | 597 | 1116 | 53.5 | 25-130 |
| NITROBENZENE-D5 | 184 | 372.0 | 49.5 | 40-130 |
| PHENOL-D5 | 633 | 1116 | 56.7 | 25-120 |
| TERPHENYL-D14 | 388 | 372.0 | 104 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 16:52 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: REL068 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 10.4 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | 1.4J | 1.9 | 0.95 |
| BENZO(A)PYRENE | ND | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.95 |
| CHRYSENE | ND | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | ND | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.95 |
| NAPHTHALENE | ND | 1.9 | 0.95 |
| PHENANTHRENE | ND | 1.9 | 0.95 |
| PYRENE | ND | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 13J | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | 9.4J | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 180 | 372.0 | 48.5 | 40-130 |
| 2-FLUOROBIPHENYL | 211 | 372.0 | 56.7 | 45-130 |
| TERPHENYL-D14 | 372 | 372.0 | 99.9 | 45-135 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 13:40 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 17:06 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: MD26019A | Matrix : SOIL |
| Ext Btch ID: CPD042S | % Moisture : 10.4 |
| Calib. Ref.: MD26008A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | | RL (ug/kg) | MDL (ug/kg) | |
|---|---|---|---|---|---|
| ALPHA-BHC | 0.59 | (ND) | 0.19 | 0.095 | 0.095 |
| GAMMA-BHC (LINDANE) | (ND) | ND | 0.19 | 0.095 | 0.095 |
| BETA-BHC | (ND) | ND | 0.19 | 0.095 | 0.095 |
| HEPTACHLOR | (ND) | ND | 0.19 | 0.095 | 0.095 |
| DELTA-BHC | (ND) | ND | 0.19 | 0.095 | 0.095 |
| ALDRIN | (ND) | 0.46 | 0.19 | 0.095 | 0.095 |
| HEPTACHLOR EPOXIDE | 0.32 | (ND) | 0.19 | 0.095 | 0.095 |
| ENDOSULFAN I | (ND) | 0.12J | 0.19 | 0.095 | 0.095 |
| 4,4'-DDE | 0.42 | (0.92) | 0.38 | 0.19 | 0.19 |
| DIELDRIN | 0.28J | (ND) | 0.38 | 0.19 | 0.19 |
| ENDRIN | (ND) | 0.40 | 0.38 | 0.19 | 0.19 |
| 4,4'-DDD | (ND) | 1.1 | 0.38 | 0.19 | 0.19 |
| ENDOSULFAN II | (ND) | ND | 0.38 | 0.19 | 0.19 |
| 4,4'-DDT | (0.35J) | 0.60 | 0.38 | 0.19 | 0.19 |
| ENDRIN ALDEHYDE | (ND) | 0.21J | 0.38 | 0.19 | 0.19 |
| ENDOSULFAN SULFATE | 0.50 | (ND) | 0.38 | 0.19 | 0.19 |
| ENDRIN KETONE | 3.4 | (ND) | 0.38 | 0.19 | 0.19 |
| METHOXYCHLOR | 14 | (ND) | 1.9 | 0.95 | 0.95 |
| MIREX | (ND) | ND | 0.38 | 0.19 | 0.19 |
| TOXAPHENE | (ND) | ND | 7.4 | 3.7 | 3.7 |
| CHLORDANE (TECHNICAL) | (ND) | ND | 3.8 | 1.9 | 1.9 |

| SURROGATE PARAMETERS | RESULTS | | SPK_AMT | % RECOVERY | | QC LIMIT |
|---|---|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.923 | (6.211) | 5.952 | 82.7 | (104) | 50-130 |
| DECACHLOROBIPHENYL | (4.740) | 4.594 | 5.952 | (79.6) | 77.2 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8082

PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/12 17:21 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/11/12 15:10 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: KE11009A | Matrix : SOIL |
| Ext Btch ID: CPD058S | % Moisture : 10.4 |
| Calib. Ref.: KE11003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1221 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1232 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1242 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1248 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1254 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1260 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1262 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1268 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 5432 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| AROCLOR 5442 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| AROCLOR 5460 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.764) \| 5.451 | 5.952 | (114) \| 91.6 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.225) \| 4.756 | 5.952 | (105) \| 79.9 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 17:20 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/23/12 18:13 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: WD23015A | Matrix : SOIL |
| Ext Btch ID: HED011S | % Moisture : 10.4 |
| Calib. Ref.: WD23002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 4.0 | 2.0 \| 2.0 |
| 2,4-DB | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| 2,4,5-T | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| 2,4,5-TP(SILVEX) | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| DALAPON | (ND) \| ND | 10 | 5.0 \| 5.0 |
| DICAMBA | (ND) \| ND | 1.3 | 0.67 \| 0.67 |
| DICHLOROPROP | (ND) \| ND | 2.7 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| MCPA | (ND) \| ND | 280 | 140 \| 140 |
| MCPP | (ND) \| ND | 280 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (168.7) \| 119.7 | 167.4 | (101) \| 71.5 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 04/16/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 04/16/12 |
| SDG NO. | : 12D146 | Date Extracted: | 04/24/12 10:33 |
| Sample ID: | SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: | 05/03/12 19:39 |
| Lab Samp ID: | D146-03 | Dilution Factor: | 1.00 |
| Lab File ID: | 98E03110 | Matrix : | SOIL |
| Ext Btch ID: | IMD035S | % Moisture : | 10.4 |
| Calib. Ref.: | 98E03106 | Instrument ID : | T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9850 | 26.8 | 13.4 |
| Antimony | 0.123J | 0.223 | 0.112 |
| Arsenic | 4.36 | 0.446 | 0.223 |
| Barium | 51.9 | 0.446 | 0.223 |
| Beryllium | 0.424 | 0.112 | 0.0558 |
| Boron | ND | 5.58 | 2.79 |
| Cadmium | 0.167 | 0.112 | 0.0558 |
| Calcium | 2340 | 22.3 | 11.2 |
| Chromium | 10.4 | 0.446 | 0.223 |
| Cobalt | 4.59 | 0.112 | 0.0558 |
| Copper | 6.03 | 0.446 | 0.223 |
| Iron | 19300 | 22.3 | 11.2 |
| Lead | 7.04 | 0.223 | 0.112 |
| Magnesium | 4150 | 11.2 | 5.58 |
| Manganese | 254 | 0.558 | 0.279 |
| Molybdenum | 0.352 | 0.112 | 0.0558 |
| Nickel | 6.55 | 0.446 | 0.223 |
| Potassium | 2460 | 67.0 | 33.5 |
| Selenium | 0.687 | 0.446 | 0.223 |
| Silver | ND | 0.112 | 0.0558 |
| Sodium | 57.0J | 112 | 55.8 |
| Strontium | 9.24 | 0.558 | 0.279 |
| Thallium | 0.224 | 0.112 | 0.0558 |
| Tin | ND | 11.2 | 5.58 |
| Titanium | 780 | 1.12 | 0.558 |
| Vanadium | 23.4 | 0.112 | 0.0558 |
| Zinc | 57.1 | 3.35 | 1.67 |
| Lithium | 28.2 | 2.23 | 1.12 |
| Phosphorus | 326 | 13.4 | 6.70 |
| Zirconium | ND | 5.58 | 2.79 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD024SB | ND | 1 | NA | 0.100 | 0.0500 | 04/24/1217:02 | 04/24/1213:00 | M47D017010 | M47D017008 | HGD024S | NA | 04/24/12 |
| LCS1S | HGD024SL | 0.848 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:04 | 04/24/1213:00 | M47D017011 | M47D017008 | HGD024S | NA | 04/24/12 |
| LCD1S | HGD024SC | 0.843 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:06 | 04/24/1213:00 | M47D017012 | M47D017008 | HGD024S | NA | 04/24/12 |
| SL-173-NBZ-SS-0.0-0.5AS | D146-05A | 1.04 | 0.993 | 17.4 | 0.120 | 0.0601 | 04/24/1217:08 | 04/24/1213:00 | M47D017013 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | ND | 0.993 | 17.4 | 0.120 | 0.0601 | 04/24/1217:10 | 04/24/1213:00 | M47D017014 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5DL | D146-05J | ND | 4.97 | 17.4 | 0.602 | 0.301 | 04/24/1217:12 | 04/24/1213:00 | M47D017015 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M | 1.08 | 0.995 | 17.4 | 0.120 | 0.0602 | 04/24/1217:14 | 04/24/1213:00 | M47D017016 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S | 1.07 | 0.995 | 17.4 | 0.120 | 0.0602 | 04/24/1217:16 | 04/24/1213:00 | M47D017017 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | ND | 1.01 | 32.4 | 0.149 | 0.0747 | 04/24/1217:19 | 04/24/1213:00 | M47D017018 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | ND | 0.990 | 12.5 | 0.113 | 0.0566 | 04/24/1217:21 | 04/24/1213:00 | M47D017019 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | ND | 0.993 | 10.4 | 0.111 | 0.0554 | 04/24/1217:28 | 04/24/1213:00 | M47D017022 | M47D017020 | HGD024S | 04/16/12 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | ND | 0.998 | 16.3 | 0.119 | 0.0596 | 04/24/1217:30 | 04/24/1213:00 | M47D017023 | M47D017020 | HGD024S | 04/16/12 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | ND | 0.990 | 16.1 | 0.118 | 0.0590 | 04/24/1217:32 | 04/24/1213:00 | M47D017024 | M47D017020 | HGD024S | 04/16/12 | 04/16/12 |

Ehs

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : DO

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD009SB | ND | 1 | NA | 1.00 | 0.500 | 04/20/1211:52 | 04/19/1210:17 | AD27-06 | AD27-04 | ICD009S | NA | 04/19/12 |
| LCS1S | ICD009SL | 6.26 | 1 | NA | 1.00 | 0.500 | 04/20/1212:08 | 04/19/1210:17 | AD27-07 | AD27-04 | ICD009S | NA | 04/19/12 |
| LCD1S | ICD009SC | 6.24 | 1 | NA | 1.00 | 0.500 | 04/20/1212:24 | 04/19/1210:17 | AD27-08 | AD27-04 | ICD009S | NA | 04/19/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | 0.829J | 1 | 32.4 | 1.48 | 0.740 | 04/20/1213:12 | 04/19/1210:17 | AD27-11 | AD27-04 | ICD009S | 04/16/1210:07 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | ND | 1 | 12.5 | 1.14 | 0.571 | 04/20/1213:29 | 04/19/1210:17 | AD27-12 | AD27-04 | ICD009S | 04/16/1211:01 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | ND | 1 | 10.4 | 1.12 | 0.558 | 04/20/1213:45 | 04/19/1210:17 | AD27-13 | AD27-04 | ICD009S | 04/16/1214:40 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | ND | 1 | 16.3 | 1.19 | 0.597 | 04/20/1214:01 | 04/19/1210:17 | AD27-14 | AD27-04 | ICD009S | 04/16/1211:35 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | ND | 1 | 16.1 | 1.19 | 0.596 | 04/20/1214:17 | 04/19/1210:17 | AD27-15 | AD27-04 | ICD009S | 04/16/1215:23 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | ND | 1 | 17.4 | 1.21 | 0.605 | 04/20/1215:06 | 04/19/1210:17 | AD27-18 | AD27-16 | ICD009S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M | 8.15 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1215:22 | 04/19/1210:17 | AD27-19 | AD27-16 | ICD009S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S | 8.27 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1215:38 | 04/19/1210:17 | AD27-20 | AD27-16 | ICD009S | 04/16/1215:18 | 04/16/12 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD016SB | ND | 1 | NA | 20.0 | 10.0 | 04/23/1211:26 | 04/19/1210:30 | JD23002 | JD23001 | PCD016S | NA | 04/19/12 |
| LCS1S | PCD016SL | 252 | 1 | NA | 20.0 | 10.0 | 04/23/1212:08 | 04/19/1210:30 | JD23004 | JD23001 | PCD016S | NA | 04/19/12 |
| LCD1S | PCD016SC | 243 | 1 | NA | 20.0 | 10.0 | 04/23/1212:29 | 04/19/1210:30 | JD23005 | JD23001 | PCD016S | NA | 04/19/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | ND | 1 | 32.4 | 29.6 | 14.8 | 04/23/1213:36 | 04/19/1210:30 | JD23008 | JD23001 | PCD016S | 04/16/1210:07 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | ND | 1 | 12.5 | 22.9 | 11.4 | 04/23/1213:57 | 04/19/1210:30 | JD23009 | JD23001 | PCD016S | 04/16/1211:01 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | ND | 1 | 10.4 | 22.3 | 11.2 | 04/23/1214:18 | 04/19/1210:30 | JD23010 | JD23001 | PCD016S | 04/16/1214:40 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | ND | 1 | 16.3 | 23.9 | 11.9 | 04/23/1215:21 | 04/19/1210:30 | JD23013 | JD23012 | PCD016S | 04/16/1211:35 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | ND | 1 | 17.4 | 24.2 | 12.1 | 04/23/1215:42 | 04/19/1210:30 | JD23014 | JD23012 | PCD016S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M | 300 | 1 | 17.4 | 24.2 | 12.1 | 04/23/1216:03 | 04/19/1210:30 | JD23015 | JD23012 | PCD016S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S | 301 | 1 | 17.4 | 24.2 | 12.1 | 04/23/1216:24 | 04/19/1210:30 | JD23016 | JD23012 | PCD016S | 04/16/1215:18 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | ND | 1 | 16.1 | 23.8 | 11.9 | 04/23/1216:46 | 04/19/1210:30 | JD23017 | JD23012 | PCD016S | 04/16/1215:23 | 04/16/12 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD010SB | ND | 1 | NA | 1.00 | 0.500 | 04/20/1217:40 | 04/18/1215:06 | ID21013 | ID21011 | HCD010S | NA | 04/18/12 |
| MBLK1S | HCD010SQ | ND | 1 | NA | 1.00 | 0.500 | 04/20/1217:50 | 04/18/1215:06 | ID21014 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS1S | CSD010SL | 9.63 | 1 | NA | 1.00 | 0.500 | 04/20/1218:00 | 04/18/1215:06 | ID21015 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS1S | CSD010SX | 11.5 | 1 | NA | 1.00 | 0.500 | 04/20/1218:11 | 04/18/1215:06 | ID21016 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS2S | CID010SL | 467 | 25 | NA | 25.0 | 12.5 | 04/20/1218:21 | 04/18/1215:06 | ID21017 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS2S | CID010SX | 465 | 25 | NA | 25.0 | 12.5 | 04/20/1218:32 | 04/18/1215:06 | ID21018 | ID21011 | HCD010S | NA | 04/18/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M | 11.0 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1218:42 | 04/18/1215:06 | ID21019 | ID21011 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M1 | 12.3 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1218:52 | 04/18/1215:06 | ID21020 | ID21011 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S | 10.9 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1219:03 | 04/18/1215:06 | ID21021 | ID21011 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S1 | 11.3 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1219:13 | 04/18/1215:06 | ID21022 | ID21011 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | ND | 1 | 17.4 | 1.21 | 0.605 | 04/20/1220:36 | 04/18/1215:06 | ID21029 | ID21023 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05R | ND | 1 | 17.4 | 1.21 | 0.605 | 04/20/1220:47 | 04/18/1215:06 | ID21030 | ID21023 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | ND | 1 | 32.4 | 1.48 | 0.740 | 04/20/1222:10 | 04/18/1215:06 | ID21037 | ID21035 | HCD010S | 04/16/1210:07 | 04/16/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01R | ND | 1 | 32.4 | 1.48 | 0.740 | 04/20/1222:21 | 04/18/1215:06 | ID21038 | ID21035 | HCD010S | 04/16/1210:07 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | ND | 1 | 12.5 | 1.14 | 0.571 | 04/20/1222:31 | 04/18/1215:06 | ID21039 | ID21035 | HCD010S | 04/16/1211:01 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02R | ND | 1 | 12.5 | 1.14 | 0.571 | 04/20/1222:41 | 04/18/1215:06 | ID21040 | ID21035 | HCD010S | 04/16/1211:01 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | ND | 1 | 10.4 | 1.12 | 0.558 | 04/20/1222:52 | 04/18/1215:06 | ID21041 | ID21035 | HCD010S | 04/16/1214:40 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03R | ND | 1 | 10.4 | 1.12 | 0.558 | 04/20/1223:02 | 04/18/1215:06 | ID21042 | ID21035 | HCD010S | 04/16/1214:40 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | ND | 1 | 16.3 | 1.19 | 0.597 | 04/20/1223:13 | 04/18/1215:06 | ID21043 | ID21035 | HCD010S | 04/16/1211:35 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04R | ND | 1 | 16.3 | 1.19 | 0.597 | 04/20/1223:23 | 04/18/1215:06 | ID21044 | ID21035 | HCD010S | 04/16/1211:35 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | ND | 1 | 16.1 | 1.19 | 0.596 | 04/20/1223:33 | 04/18/1215:06 | ID21045 | ID21035 | HCD010S | 04/16/1215:23 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06R | ND | 1 | 16.1 | 1.19 | 0.596 | 04/20/1223:44 | 04/18/1215:06 | ID21046 | ID21035 | HCD010S | 04/16/1215:23 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05G | 107 | 5 | 17.4 | 6.05 | 3.03 | 04/23/1221:09 | 04/18/1215:06 | ID23009 | ID23001 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05G1 | 105 | 5 | 17.4 | 6.05 | 3.03 | 04/23/1221:19 | 04/18/1215:06 | ID23010 | ID23001 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05H | 107 | 5 | 17.4 | 6.05 | 3.03 | 04/23/1221:29 | 04/18/1215:06 | ID23011 | ID23001 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05H1 | 109 | 5 | 17.4 | 6.05 | 3.03 | 04/23/1221:40 | 04/18/1215:06 | ID23012 | ID23001 | HCD010S | 04/16/1215:18 | 04/16/12 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | 6.92 | 1 | NA | NA | NA | 04/17/1213:02 | 04/17/1213:02 | 12PHD015S01 | PHD015S | PHD015S | 04/16/1210:07 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | 6.12 | 1 | NA | NA | NA | 04/17/1213:04 | 04/17/1213:02 | 12PHD015S02 | PHD015S | PHD015S | 04/16/1211:01 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | 6.36 | 1 | NA | NA | NA | 04/17/1213:07 | 04/17/1213:02 | 12PHD015S03 | PHD015S | PHD015S | 04/16/1214:40 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | 6.24 | 1 | NA | NA | NA | 04/17/1213:14 | 04/17/1213:02 | 12PHD015S04 | PHD015S | PHD015S | 04/16/1211:35 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | 6.82 | 1 | NA | NA | NA | 04/17/1213:16 | 04/17/1213:02 | 12PHD015S05 | PHD015S | PHD015S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5DUP | D146-05D | 6.83 | 1 | NA | NA | NA | 04/17/1213:17 | 04/17/1213:02 | 12PHD015S06 | PHD015S | PHD015S | 04/16/1215:18 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | 6.55 | 1 | NA | NA | NA | 04/17/1213:19 | 04/17/1213:02 | 12PHD015S07 | PHD015S | PHD015S | 04/16/1215:23 | 04/16/12 |

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/1211:53 |
| Sample ID: SL-013-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 16:00 |
| Lab Samp ID: D146-01 | Dilution Factor: 1 |
| Lab File ID: REL066 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 32.4 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 250 | 120 |
| 1,2-DICHLOROBENZENE | ND | 250 | 120 |
| 1,3-DICHLOROBENZENE | ND | 250 | 120 |
| 1,4-DICHLOROBENZENE | ND | 250 | 120 |
| 2,4,5-TRICHLOROPHENOL | ND | 250 | 120 |
| 2,4,6-TRICHLOROPHENOL | ND | 250 | 120 |
| 2,4-DICHLOROPHENOL | ND | 250 | 120 |
| 2,4-DIMETHYLPHENOL | ND | 250 | 120 |
| 2,4-DINITROPHENOL | ND | 490 | 250 |
| 2,4-DINITROTOLUENE | ND | 250 | 120 |
| 2,6-DINITROTOLUENE | ND | 250 | 120 |
| 2-CHLORONAPHTHALENE | ND | 250 | 120 |
| 2-CHLOROPHENOL | ND | 250 | 120 |
| 2-METHYLNAPHTHALENE | ND | 250 | 120 |
| 2-METHYLPHENOL | ND | 250 | 120 |
| 2-NITROANILINE | ND | 250 | 120 |
| 2-NITROPHENOL | ND | 250 | 120 |
| 3,3'-DICHLOROBENZIDINE | ND | 250 | 120 |
| 3-NITROANILINE | ND | 250 | 120 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 490 | 250 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 250 | 120 |
| 4-CHLORO-3-METHYLPHENOL | ND | 250 | 120 |
| 4-CHLOROANILINE | ND | 250 | 120 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 250 | 120 |
| 4-METHYLPHENOL (1) | ND | 250 | 120 |
| 4-NITROANILINE | ND | 250 | 120 |
| 4-NITROPHENOL | ND | 490 | 250 |
| ACENAPHTHENE | ND | 250 | 120 |
| ACENAPHTHYLENE | ND | 250 | 120 |
| ANTHRACENE | ND | 250 | 120 |
| BENZO(A)ANTHRACENE | ND | 250 | 120 |
| BENZO(A)PYRENE | ND | 250 | 120 |
| BENZO(B)FLUORANTHENE | ND | 250 | 120 |
| BENZO(K)FLUORANTHENE | ND | 250 | 120 |
| BENZO(G,H,I)PERYLENE | ND | 250 | 120 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 250 | 120 |
| BIS(2-CHLOROETHYL)ETHER | ND | 250 | 120 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 250 | 120 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 250 | 120 |
| BUTYLBENZYLPHTHALATE | ND | 250 | 120 |
| CHRYSENE | ND | 250 | 120 |
| DI-N-BUTYLPHTHALATE | ND | 250 | 120 |
| DI-N-OCTYLPHTHALATE | ND | 250 | 120 |
| DIBENZO(A,H)ANTHRACENE | ND | 250 | 120 |
| DIBENZOFURAN | ND | 250 | 120 |
| DIETHYLPHTHALATE | ND | 250 | 120 |
| DIMETHYLPHTHALATE | ND | 250 | 120 |
| FLUORANTHENE | ND | 250 | 120 |
| FLUORENE | ND | 250 | 120 |
| HEXACHLOROBENZENE | ND | 250 | 120 |
| HEXACHLOROBUTADIENE | ND | 250 | 120 |
| HEXACHLOROCYCLOPENTADIENE | ND | 250 | 120 |
| HEXACHLOROETHANE | ND | 250 | 120 |
| INDENO(1,2,3-CD)PYRENE | ND | 250 | 120 |
| ISOPHORONE | ND | 250 | 120 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 250 | 120 |
| N-NITROSODIPHENYLAMINE (2) | ND | 250 | 120 |
| NAPHTHALENE | ND | 250 | 120 |
| NITROBENZENE | ND | 250 | 120 |
| PENTACHLOROPHENOL | ND | 490 | 250 |
| PHENANTHRENE | ND | 250 | 120 |
| PHENOL | ND | 250 | 120 |
| PYRENE | ND | 250 | 120 |
| BENZYL ALCOHOL | ND | 250 | 120 |
| 1-METHYLNAPHTHALENE | ND | 250 | 120 |
| 1,2-DIPHENYLHYDRAZINE | ND | 250 | 120 |
| 3,5-DIMETHYLPHENOL | ND | 250 | 120 |
| ANILINE | ND | 490 | 250 |
| BENZIDINE | ND | 1200 | 620 |
| BENZOIC ACID | ND | 990 | 490 |
| CARBAZOLE | ND | 250 | 120 |
| N-NITROSODIMETHYLAMINE | ND | 250 | 120 |
| TETRALIN | ND | 250 | 250 |
| 2-BUTOXYETHANOL | ND | 250 | 250 |
| 2-PHENOXYETHANOL | ND | 250 | 250 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 780 | 1479 | 52.7 | 35-130 |
| 2-FLUOROBIPHENYL | 251 | 493.0 | 50.9 | 45-130 |
| 2-FLUOROPHENOL | 759 | 1479 | 51.3 | 25-130 |
| NITROBENZENE-D5 | 245 | 493.0 | 49.7 | 40-130 |
| PHENOL-D5 | 775 | 1479 | 52.4 | 25-120 |
| TERPHENYL-D14 | 394 | 493.0 | 79.8 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/1211:53 |
| Sample ID: SL-159-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 16:26 |
| Lab Samp ID: D146-02 | Dilution Factor: 1 |
| Lab File ID: REL067 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 12.5 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 96 |
| 1,2-DICHLOROBENZENE | ND | 190 | 96 |
| 1,3-DICHLOROBENZENE | ND | 190 | 96 |
| 1,4-DICHLOROBENZENE | ND | 190 | 96 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 96 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 96 |
| 2,6-DINITROTOLUENE | ND | 190 | 96 |
| 2-CHLORONAPHTHALENE | ND | 190 | 96 |
| 2-CHLOROPHENOL | ND | 190 | 96 |
| 2-METHYLNAPHTHALENE | ND | 190 | 96 |
| 2-METHYLPHENOL | ND | 190 | 96 |
| 2-NITROANILINE | ND | 190 | 96 |
| 2-NITROPHENOL | ND | 190 | 96 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 96 |
| 3-NITROANILINE | ND | 190 | 96 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 96 |
| 4-CHLOROANILINE | ND | 190 | 96 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-METHYLPHENOL (1) | ND | 190 | 96 |
| 4-NITROANILINE | ND | 190 | 96 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 96 |
| ACENAPHTHYLENE | ND | 190 | 96 |
| ANTHRACENE | ND | 190 | 96 |
| BENZO(A)ANTHRACENE | ND | 190 | 96 |
| BENZO(A)PYRENE | ND | 190 | 96 |
| BENZO(B)FLUORANTHENE | ND | 190 | 96 |
| BENZO(K)FLUORANTHENE | ND | 190 | 96 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 96 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 96 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 96 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 96 |
| CHRYSENE | ND | 190 | 96 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 96 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 96 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 96 |
| DIBENZOFURAN | ND | 190 | 96 |
| DIETHYLPHTHALATE | ND | 190 | 96 |
| DIMETHYLPHTHALATE | ND | 190 | 96 |
| FLUORANTHENE | ND | 190 | 96 |
| FLUORENE | ND | 190 | 96 |
| HEXACHLOROBENZENE | ND | 190 | 96 |
| HEXACHLOROBUTADIENE | ND | 190 | 96 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 96 |
| HEXACHLOROETHANE | ND | 190 | 96 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 96 |
| ISOPHORONE | ND | 190 | 96 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 96 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 96 |
| NAPHTHALENE | ND | 190 | 96 |
| NITROBENZENE | ND | 190 | 96 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 96 |
| PHENOL | ND | 190 | 96 |
| PYRENE | ND | 190 | 96 |
| BENZYL ALCOHOL | ND | 190 | 96 |
| 1-METHYLNAPHTHALENE | ND | 190 | 96 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 96 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 96 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 950 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 96 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 96 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 839 | 1143 | 73.4 | 35-130 |
| 2-FLUOROBIPHENYL | 254 | 380.9 | 66.6 | 45-130 |
| 2-FLUOROPHENOL | 633 | 1143 | 55.4 | 25-130 |
| NITROBENZENE-D5 | 207 | 380.9 | 54.4 | 40-130 |
| PHENOL-D5 | 663 | 1143 | 58.0 | 25-120 |
| TERPHENYL-D14 | 352 | 380.9 | 92.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/1211:53 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 16:52 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: REL068 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 10.4 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 740 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 789 | 1116 | 70.7 | 35-130 |
| 2-FLUOROBIPHENYL | 237 | 372.0 | 63.7 | 45-130 |
| 2-FLUOROPHENOL | 597 | 1116 | 53.5 | 25-130 |
| NITROBENZENE-D5 | 184 | 372.0 | 49.5 | 40-130 |
| PHENOL-D5 | 633 | 1116 | 56.7 | 25-120 |
| TERPHENYL-D14 | 388 | 372.0 | 104 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/1211:53 |
| Sample ID: SL-164-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 17:17 |
| Lab Samp ID: D146-04 | Dilution Factor: 1 |
| Lab File ID: REL069 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 16.3 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 400 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 400 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 400 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 400 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 400 | 200 |
| BENZIDINE | ND | 990 | 500 |
| BENZOIC ACID | ND | 800 | 400 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 832 | 1195 | 69.6 | 35-130 |
| 2-FLUOROBIPHENYL | 257 | 398.2 | 64.5 | 45-130 |
| 2-FLUOROPHENOL | 639 | 1195 | 53.4 | 25-130 |
| NITROBENZENE-D5 | 218 | 398.2 | 54.6 | 40-130 |
| PHENOL-D5 | 684 | 1195 | 57.3 | 25-120 |
| TERPHENYL-D14 | 392 | 398.2 | 98.3 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/1211:53 |
| Sample ID: SL-173-NBZ-SS-0.0-0.5 | Date Analyzed: 05/09/12 16:56 |
| Lab Samp ID: D146-05W | Dilution Factor: 1 |
| Lab File ID: REL149 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 17.4 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 400 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 400 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 400 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 400 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 400 | 200 |
| BENZIDINE | ND | 1000 | 510 |
| BENZOIC ACID | ND | 810 | 400 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 949 | 1211 | 78.4 | 35-130 |
| 2-FLUOROBIPHENYL | 204 | 403.5 | 50.6 | 45-130 |
| 2-FLUOROPHENOL | 559 | 1211 | 46.2 | 25-130 |
| NITROBENZENE-D5 | 185 | 403.5 | 45.9 | 40-130 |
| PHENOL-D5 | 684 | 1211 | 56.5 | 25-120 |
| TERPHENYL-D14 | 453 | 403.5 | 112 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/1211:53 |
| Sample ID: DUP-08-NBZ-QC-041612 | Date Analyzed: 05/02/12 18:09 |
| Lab Samp ID: D146-06 | Dilution Factor: 1 |
| Lab File ID: REL071 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 16.1 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 400 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 400 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 400 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 400 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 400 | 200 |
| BENZIDINE | ND | 990 | 500 |
| BENZOIC ACID | ND | 790 | 400 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 855 | 1192 | 71.8 | 35-130 |
| 2-FLUOROBIPHENYL | 295 | 397.3 | 74.3 | 45-130 |
| 2-FLUOROPHENOL | 759 | 1192 | 63.6 | 25-130 |
| NITROBENZENE-D5 | 255 | 397.3 | 64.3 | 40-130 |
| PHENOL-D5 | 770 | 1192 | 64.6 | 25-120 |
| TERPHENYL-D14 | 408 | 397.3 | 103 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/25/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/1211:53 |
| Sample ID: MBLK1S | Date Analyzed: 05/02/12 02:15 |
| Lab Samp ID: SVD047SB | Dilution Factor: 1 |
| Lab File ID: REL036 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : NA |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 680 | 1000 | 68.0 | 35-130 |
| 2-FLUOROBIPHENYL | 266 | 333.3 | 79.8 | 45-130 |
| 2-FLUOROPHENOL | 756 | 1000 | 75.6 | 25-130 |
| NITROBENZENE-D5 | 244 | 333.3 | 73.2 | 40-130 |
| PHENOL-D5 | 717 | 1000 | 71.7 | 25-120 |
| TERPHENYL-D14 | 332 | 333.3 | 99.6 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVD047SB SVD047SL SVD047SC
LAB FILE ID: REL036 REL037 REL038
DATE EXTRACTED: 04/25/1211:53 04/25/1211:53 04/25/1211:53 DATE COLLECTED: NA
DATE ANALYZED: 05/02/1202:15 05/02/1202:42 05/02/1203:09 DATE RECEIVED: 04/25/12
PREP. BATCH: SVD047S SVD047S SVD047S
CALIB. REF: RDL204 RDL204 RDL204

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 451 | 68 | 667 | 322 | 48 | 33 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 448 | 67 | 667 | 298 | 45 | 40 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 460 | 69 | 667 | 302 | 45 | 41 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 446 | 67 | 667 | 307 | 46 | 37 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 455 | 68 | 667 | 350 | 53 | 26 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 497 | 75 | 667 | 336 | 50 | 39 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 490 | 74 | 667 | 337 | 50 | 37 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 510 | 76 | 667 | 330 | 49 | 43 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 495 | 74 | 667 | 525 | 79 | 6 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 594 | 89 | 667 | 609 | 91 | 2 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 492 | 74 | 667 | 467 | 70 | 5 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 466 | 70 | 667 | 315 | 47* | 39 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 492 | 74 | 667 | 321 | 48 | 42 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 603 | 90 | 667 | 418 | 63 | 36 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 443 | 66 | 667 | 286 | 43 | 43 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 440 | 66 | 667 | 368 | 55 | 18 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 522 | 78 | 667 | 355 | 53 | 38 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 603 | 90 | 667 | 612 | 92 | 1 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 473 | 71 | 667 | 461 | 69 | 3 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 585 | 88 | 667 | 572 | 86 | 2 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 596 | 89 | 667 | 519 | 78 | 14 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 482 | 72 | 667 | 390 | 59 | 21 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 458 | 69 | 667 | 317 | 48 | 36 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 563 | 84 | 667 | 456 | 68 | 21 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 442 | 66 | 667 | 285 | 43 | 43 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 574 | 86 | 667 | 547 | 82 | 5 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 487 | 73 | 667 | 523 | 78 | 7 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 523 | 78 | 667 | 357 | 54 | 38 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 550 | 83 | 667 | 379 | 57 | 37 | 30-130 | 50 |
| Anthracene | ND | 667 | 614 | 92 | 667 | 560 | 84 | 9 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 729 | 109 | 667 | 727 | 109 | 0 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 688 | 103 | 667 | 648 | 97 | 6 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 788 | 118 | 667 | 745 | 112 | 6 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 739 | 111 | 667 | 724 | 109 | 2 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 679 | 102 | 667 | 636 | 95 | 7 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 529 | 79 | 667 | 340 | 51 | 43 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 496 | 74 | 667 | 355 | 53 | 33 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 541 | 81 | 667 | 334 | 50 | 47 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 669 | 100 | 667 | 651 | 98 | 3 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 656 | 98 | 667 | 636 | 95 | 3 | 40-150 | 50 |
| Chrysene | ND | 667 | 705 | 106 | 667 | 698 | 105 | 1 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 666 | 100 | 667 | 713 | 107 | 7 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 702 | 105 | 667 | 681 | 102 | 3 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 693 | 104 | 667 | 698 | 105 | 1 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 512 | 77 | 667 | 364 | 55 | 34 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 562 | 84 | 667 | 564 | 85 | 0 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 489 | 73 | 667 | 441 | 66 | 10 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 742 | 111 | 667 | 740 | 111 | 0 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 529 | 79 | 667 | 422 | 63 | 22 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 561 | 84 | 667 | 532 | 80 | 5 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 486 | 73 | 667 | 315 | 47 | 43 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 390 | 59 | 667 | 219 | 33 | 56* | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 447 | 67 | 667 | 269 | 40 | 50 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 686 | 103 | 667 | 665 | 100 | 3 | 30-140 | 50 |
| Isophorone | ND | 667 | 511 | 77 | 667 | 346 | 52 | 38 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 421 | 63 | 667 | 263 | 39 | 46 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 475 | 71 | 667 | 396 | 59 | 18 | 30-140 | 50 |
| Naphthalene | ND | 667 | 540 | 81 | 667 | 423 | 63 | 24 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 522 | 78 | 667 | 357 | 54 | 37 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 641 | 96 | 667 | 623 | 93 | 3 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 622 | 93 | 667 | 601 | 90 | 3 | 30-130 | 50 |
| Phenol | ND | 667 | 487 | 73 | 667 | 327 | 49 | 39 | 30-130 | 50 |
| Pyrene | ND | 667 | 694 | 104 | 667 | 685 | 103 | 1 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 460 | 69 | 667 | 304 | 46 | 41 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 589 | 88 | 667 | 403 | 60 | 38 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 448 | 67 | 667 | 363 | 54 | 21 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 475 | 71 | 667 | 298 | 45 | 46 | 20-150 | 50 |
| Aniline | ND | 667 | 379 | 57 | 667 | 214J | 32 | 56* | 20-150 | 50 |
| Benzidine | ND | 2670 | 1570 | 59 | 2670 | 1480 | 55 | 7 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 794 | 30 | 2670 | 659J | 25 | 19 | 10-130 | 50 |
| Carbazole | ND | 667 | 660 | 99 | 667 | 597 | 90 | 10 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 504 | 76 | 667 | 342 | 51 | 38 | 30-150 | 50 |

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| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 653 | 65 | 1000 | 603 | 60 | 35-130 |
| 2-Fluorobiphenyl | 333 | 207 | 62 | 333 | 127 | 38* | 45-130 |
| 2-Fluorophenol | 1000 | 574 | 57 | 1000 | 377 | 38 | 25-130 |
| Nitrobenzene-d5 | 333 | 180 | 54 | 333 | 132 | 40 | 40-130 |
| Phenol-d5 | 1000 | 571 | 57 | 1000 | 378 | 38 | 25-120 |
| Terphenyl-d14 | 333 | 303 | 91 | 333 | 304 | 91 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: 17.4
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-173-NBZ-SS-0.0-0.5
LAB SAMP ID: D146-05W D146-05M D146-05S
LAB FILE ID: REL149 REL057 REL058
DATE EXTRACTED: 04/25/1211:53 04/25/1211:53 04/25/1211:53 DATE COLLECTED: 04/16/12
DATE ANALYZED: 05/09/1216:56 05/02/1212:11 05/02/1212:35 DATE RECEIVED: 04/16/12
PREP. BATCH: SVD047S SVD047S SVD047S
CALIB. REF: RDL204 RDL204 RDL204

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 807 | 493 | 61 | 807 | 423 | 52 | 15 | 10-130 | 50 |
| 1,2-Dichlorobenzene | ND | 807 | 461 | 57 | 807 | 393 | 49 | 16 | 30-130 | 50 |
| 1,3-Dichlorobenzene | ND | 807 | 465 | 58 | 807 | 345 | 43 | 30 | 30-130 | 50 |
| 1,4-Dichlorobenzene | ND | 807 | 443 | 55 | 807 | 371 | 46 | 18 | 10-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 807 | 637 | 79 | 807 | 623 | 77 | 2 | 30-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 807 | 659 | 82 | 807 | 641 | 79 | 3 | 30-130 | 50 |
| 2,4-Dichlorophenol | ND | 807 | 597 | 74 | 807 | 531 | 66 | 12 | 30-130 | 50 |
| 2,4-Dimethylphenol | ND | 807 | 603 | 75 | 807 | 543 | 67 | 10 | 30-130 | 50 |
| 2,4-Dinitrophenol | ND | 807 | 572 | 71 | 807 | 463 | 57 | 21 | 10-130 | 50 |
| 2,4-Dinitrotoluene | ND | 807 | 755 | 94 | 807 | 704 | 87 | 7 | 20-130 | 50 |
| 2,6-Dinitrotoluene | ND | 807 | 720 | 89 | 807 | 676 | 84 | 6 | 30-130 | 50 |
| 2-Chloronaphthalene | ND | 807 | 491 | 61 | 807 | 504 | 63 | 3 | 30-130 | 50 |
| 2-Chlorophenol | ND | 807 | 612 | 76 | 807 | 495 | 61 | 21 | 20-130 | 50 |
| 2-Methylnaphthalene | ND | 807 | 671 | 83 | 807 | 565 | 70 | 17 | 30-130 | 50 |
| 2-Methylphenol | ND | 807 | 556 | 69 | 807 | 473 | 59 | 16 | 30-130 | 50 |
| 2-Nitroaniline | ND | 807 | 686 | 85 | 807 | 634 | 79 | 8 | 30-130 | 50 |
| 2-Nitrophenol | ND | 807 | 549 | 68 | 807 | 495 | 61 | 10 | 30-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 807 | 450 | 56 | 807 | 401 | 50 | 12 | 30-130 | 50 |
| 3-Nitroaniline | ND | 807 | 645 | 80 | 807 | 572 | 71 | 12 | 30-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 807 | 590 | 73 | 807 | 546 | 68 | 8 | 30-130 | 50 |
| 4-Bromophenyl-phenylether | ND | 807 | 691 | 86 | 807 | 687 | 85 | 1 | 30-130 | 50 |
| 4-Chloro-3-Methylphenol | ND | 807 | 692 | 86 | 807 | 618 | 77 | 11 | 20-130 | 50 |
| 4-Chloroaniline | ND | 807 | 476 | 59 | 807 | 420 | 52 | 12 | 30-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 807 | 753 | 93 | 807 | 784 | 97 | 4 | 30-130 | 50 |
| 4-Methylphenol | ND | 807 | 540 | 67 | 807 | 481 | 60 | 11 | 20-130 | 50 |
| 4-Nitroaniline | ND | 807 | 623 | 77 | 807 | 603 | 75 | 3 | 40-130 | 50 |
| 4-Nitrophenol | ND | 807 | 584 | 72 | 807 | 542 | 67 | 7 | 10-130 | 50 |
| Acenaphthene | ND | 807 | 707 | 88 | 807 | 648 | 80 | 9 | 20-130 | 50 |
| Acenaphthylene | ND | 807 | 680 | 84 | 807 | 661 | 82 | 3 | 20-130 | 50 |
| Anthracene | ND | 807 | 648 | 80 | 807 | 676 | 84 | 4 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 807 | 761 | 94 | 807 | 769 | 95 | 1 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 807 | 746 | 92 | 807 | 717 | 89 | 4 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 807 | 855 | 106 | 807 | 864 | 107 | 1 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 807 | 895 | 111 | 807 | 865 | 107 | 3 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 807 | 620 | 77 | 807 | 580 | 72 | 7 | 30-130 | 50 |
| bis(2-Chloroethoxy)methane | ND | 807 | 591 | 73 | 807 | 514 | 64 | 14 | 30-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 807 | 588 | 73 | 807 | 503 | 62 | 16 | 30-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 807 | 631 | 78 | 807 | 492 | 61 | 25 | 20-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 807 | 829 | 103 | 807 | 810 | 100 | 2 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 807 | 777 | 96 | 807 | 811 | 101 | 4 | 30-130 | 50 |
| Chrysene | ND | 807 | 772 | 96 | 807 | 778 | 96 | 1 | 30-130 | 50 |
| Di-n-butylphthalate | ND | 807 | 760 | 94 | 807 | 885 | 110 | 15 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 807 | 967 | 120 | 807 | 1000 | 125 | 4 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 807 | 679 | 84 | 807 | 621 | 77 | 9 | 30-130 | 50 |
| Dibenzofuran | ND | 807 | 634 | 79 | 807 | 631 | 78 | 0 | 30-130 | 50 |
| Diethylphthalate | ND | 807 | 740 | 92 | 807 | 693 | 86 | 6 | 30-130 | 50 |
| Dimethylphthalate | ND | 807 | 676 | 84 | 807 | 601 | 75 | 12 | 30-130 | 50 |
| Fluoranthene | ND | 807 | 811 | 101 | 807 | 865 | 107 | 6 | 30-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 807 | 751 | 93 | 807 | 752 | 93 | 0 | 20-130 | 50 |
| Hexachlorobenzene | ND | 807 | 645 | 80 | 807 | 670 | 83 | 4 | 10-160 | 50 |
| Hexachlorobutadiene | ND | 807 | 488 | 60 | 807 | 425 | 53 | 14 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 807 | ND | 0* | 807 | ND | 0* | 0 | 10-130 | 50 |
| Hexachloroethane | ND | 807 | 399 | 49 | 807 | 271 | 34 | 38 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 807 | 646 | 80 | 807 | 620 | 77 | 4 | 20-130 | 50 |
| Isophorone | ND | 807 | 633 | 78 | 807 | 552 | 68 | 14 | 30-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 807 | 497 | 62 | 807 | 448 | 55 | 10 | 20-130 | 50 |
| n-Nitrosodiphenylamine | ND | 807 | 518 | 64 | 807 | 507 | 63 | 2 | 20-140 | 50 |
| Naphthalene | ND | 807 | 626 | 78 | 807 | 519 | 64 | 19 | 30-130 | 50 |
| Nitrobenzene | ND | 807 | 606 | 75 | 807 | 511 | 63 | 17 | 30-130 | 50 |
| Pentachlorophenol | ND | 807 | 672 | 83 | 807 | 676 | 84 | 1 | 10-130 | 50 |
| Phenanthrene | ND | 807 | 745 | 92 | 807 | 758 | 94 | 2 | 20-130 | 50 |
| Phenol | ND | 807 | 611 | 76 | 807 | 536 | 66 | 13 | 20-130 | 50 |
| Pyrene | ND | 807 | 799 | 99 | 807 | 815 | 101 | 2 | 10-160 | 50 |
| Benzyl Alcohol | ND | 807 | 574 | 71 | 807 | 513 | 64 | 11 | 30-130 | 50 |
| 1-Methylnaphthalene | ND | 807 | 672 | 83 | 807 | 585 | 72 | 14 | 20-130 | 50 |
| 1,2-Diphenylhydrazine | ND | 807 | 570 | 71 | 807 | 558 | 69 | 2 | 20-150 | 50 |
| 3,5-Dimethylphenol | ND | 807 | 542 | 67 | 807 | 471 | 58 | 14 | 20-130 | 50 |
| Aniline | ND | 807 | 332J | 41 | 807 | 267J | 33 | 22 | 10-150 | 50 |
| Benzidine | ND | 3230 | ND | 0* | 3230 | ND | 0* | 0 | 10-150 | 50 |
| Benzoic Acid | ND | 3230 | 1620 | 50 | 3230 | 1450 | 45 | 12 | 10-130 | 50 |
| Carbazole | ND | 807 | 675 | 84 | 807 | 666 | 83 | 1 | 30-130 | 50 |
| N-Nitrosodimethylamine | ND | 807 | 619 | 77 | 807 | 499 | 62 | 21 | 20-130 | 50 |

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| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1210 | 745 | 62 | 1210 | 799 | 66 | 35-130 |
| 2-Fluorobiphenyl | 404 | 268 | 67 | 404 | 257 | 64 | 45-130 |
| 2-Fluorophenol | 1210 | 711 | 59 | 1210 | 641 | 53 | 25-130 |
| Nitrobenzene-d5 | 404 | 224 | 56 | 404 | 210 | 52 | 40-130 |
| Phenol-d5 | 1210 | 644 | 53 | 1210 | 646 | 53 | 25-120 |
| Terphenyl-d14 | 404 | 361 | 89 | 404 | 373 | 92 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-013-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 16:00 |
| Lab Samp ID: D146-01 | Dilution Factor: 1 |
| Lab File ID: REL066 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 32.4 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.5 | 1.3 |
| ACENAPHTHYLENE | 1.3J | 2.5 | 1.3 |
| ANTHRACENE | ND | 2.5 | 1.3 |
| BENZO(A)ANTHRACENE | ND | 2.5 | 1.3 |
| BENZO(A)PYRENE | ND | 2.5 | 1.3 |
| BENZO(B)FLUORANTHENE | ND | 2.5 | 1.3 |
| BENZO(K)FLUORANTHENE | ND | 2.5 | 1.3 |
| BENZO(G,H,I)PERYLENE | ND | 2.5 | 1.3 |
| CHRYSENE | ND | 2.5 | 1.3 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.5 | 1.3 |
| FLUORANTHENE | ND | 2.5 | 1.3 |
| FLUORENE | ND | 2.5 | 1.3 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.5 | 1.3 |
| NAPHTHALENE | 1.6J | 2.5 | 1.3 |
| PHENANTHRENE | ND | 2.5 | 1.3 |
| PYRENE | ND | 2.5 | 1.3 |
| 2-METHYLNAPHTHALENE | 1.3J | 2.5 | 1.3 |
| 1-METHYLNAPHTHALENE | ND | 2.5 | 1.3 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 25 | 12 |
| BUTYLBENZYLPHTHALATE | ND | 25 | 12 |
| DI-N-BUTYLPHTHALATE | ND | 25 | 12 |
| DI-N-OCTYLPHTHALATE | ND | 25 | 12 |
| DIETHYLPHTHALATE | ND | 25 | 12 |
| DIMETHYLPHTHALATE | ND | 25 | 12 |
| N-NITROSODIMETHYLAMINE | ND | 2.5 | 1.3 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 235 | 493.0 | 47.6 | 40-130 |
| 2-FLUOROBIPHENYL | 234 | 493.0 | 47.4 | 45-130 |
| TERPHENYL-D14 | 361 | 493.0 | 73.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-159-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 16:26 |
| Lab Samp ID: D146-02 | Dilution Factor: 1 |
| Lab File ID: REL067 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 12.5 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | 1.0J | 1.9 | 0.97 |
| ACENAPHTHYLENE | 1.2J | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | 1.9J | 1.9 | 0.97 |
| BENZO(A)PYRENE | 1.6J | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | 2.7 | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.97 |
| CHRYSENE | 1.2J | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | 3.0 | 1.9 | 0.97 |
| FLUORENE | 1.1J | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.97 |
| NAPHTHALENE | 1.9J | 1.9 | 0.97 |
| PHENANTHRENE | ND | 1.9 | 0.97 |
| PYRENE | 2.5 | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | 1.6J | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | 1.5J | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 45 | 19 | 9.6 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.6 |
| DIETHYLPHTHALATE | ND | 19 | 9.6 |
| DIMETHYLPHTHALATE | ND | 19 | 9.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 200 | 380.9 | 52.4 | 40-130 |
| 2-FLUOROBIPHENYL | 216 | 380.9 | 56.8 | 45-130 |
| TERPHENYL-D14 | 344 | 380.9 | 90.4 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 16:52 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: REL068 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 10.4 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | 1.4J | 1.9 | 0.95 |
| BENZO(A)PYRENE | ND | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.95 |
| CHRYSENE | ND | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | ND | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.95 |
| NAPHTHALENE | ND | 1.9 | 0.95 |
| PHENANTHRENE | ND | 1.9 | 0.95 |
| PYRENE | ND | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 13J | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | 9.4J | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 180 | 372.0 | 48.5 | 40-130 |
| 2-FLUOROBIPHENYL | 211 | 372.0 | 56.7 | 45-130 |
| TERPHENYL-D14 | 372 | 372.0 | 99.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-164-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 17:17 |
| Lab Samp ID: D146-04 | Dilution Factor: 1 |
| Lab File ID: REL069 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 16.3 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 1.0 |
| ACENAPHTHYLENE | ND | 2.0 | 1.0 |
| ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | 1.3J | 2.0 | 1.0 |
| BENZO(A)PYRENE | ND | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 1.0 |
| CHRYSENE | ND | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 1.0 |
| FLUORANTHENE | 2.3 | 2.0 | 1.0 |
| FLUORENE | ND | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 1.0 |
| NAPHTHALENE | ND | 2.0 | 1.0 |
| PHENANTHRENE | ND | 2.0 | 1.0 |
| PYRENE | 1.7J | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 10J | 20 | 10 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 215 | 398.2 | 54.0 | 40-130 |
| 2-FLUOROBIPHENYL | 228 | 398.2 | 57.4 | 45-130 |
| TERPHENYL-D14 | 366 | 398.2 | 92.0 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-173-NBZ-SS-0.0-0.5 | Date Analyzed: 05/09/12 16:56 |
| Lab Samp ID: D146-05W | Dilution Factor: 1 |
| Lab File ID: REL149 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 17.4 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.1 | 1.0 |
| ACENAPHTHYLENE | ND | 2.1 | 1.0 |
| ANTHRACENE | ND | 2.1 | 1.0 |
| BENZO(A)ANTHRACENE | 2.3 | 2.1 | 1.0 |
| BENZO(A)PYRENE | 3.0 | 2.1 | 1.0 |
| BENZO(B)FLUORANTHENE | 4.5 | 2.1 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.1 | 1.0 |
| BENZO(G,H,I)PERYLENE | 3.4 | 2.1 | 1.0 |
| CHRYSENE | 2.7 | 2.1 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | 2.2 | 2.1 | 1.0 |
| FLUORANTHENE | 4.1 | 2.1 | 1.0 |
| FLUORENE | ND | 2.1 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | 4.0 | 2.1 | 1.0 |
| NAPHTHALENE | ND | 2.1 | 1.0 |
| PHENANTHRENE | 1.7J | 2.1 | 1.0 |
| PYRENE | 3.6 | 2.1 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.1 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.1 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 13J | 20 | 10 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.1 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 183 | 403.5 | 45.4 | 40-130 |
| 2-FLUOROBIPHENYL | 208 | 403.5 | 51.6 | 45-130 |
| TERPHENYL-D14 | 419 | 403.5 | 104 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/12 11:53 |
| Sample ID: DUP-08-NBZ-QC-041612 | Date Analyzed: 05/02/12 18:09 |
| Lab Samp ID: D146-06 | Dilution Factor: 1 |
| Lab File ID: REL071 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 16.1 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 1.0 |
| ACENAPHTHYLENE | ND | 2.0 | 1.0 |
| ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | 1.5J | 2.0 | 1.0 |
| BENZO(A)PYRENE | ND | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | 1.4J | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 1.0 |
| CHRYSENE | ND | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 1.0 |
| FLUORANTHENE | ND | 2.0 | 1.0 |
| FLUORENE | ND | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 1.0 |
| NAPHTHALENE | ND | 2.0 | 1.0 |
| PHENANTHRENE | ND | 2.0 | 1.0 |
| PYRENE | ND | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 11J | 20 | 10 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 242 | 397.3 | 61.0 | 40-130 |
| 2-FLUOROBIPHENYL | 258 | 397.3 | 65.0 | 45-130 |
| TERPHENYL-D14 | 360 | 397.3 | 90.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/25/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/12 11:53 |
| Sample ID: MBLK1S | Date Analyzed: 05/02/12 02:15 |
| Lab Samp ID: SVD049SB | Dilution Factor: 1 |
| Lab File ID: REL036 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : NA |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 231 | 333.3 | 69.2 | 40-130 |
| 2-FLUOROBIPHENYL | 247 | 333.3 | 74.2 | 45-130 |
| TERPHENYL-D14 | 312 | 333.3 | 93.6 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVD049SB | SVD049SX | SVD049SY | | |
| LAB FILE ID: | REL036 | REL039 | REL040 | | |
| DATE EXTRACTED: | 04/25/1211:53 | 04/25/1211:53 | 04/25/1211:53 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/02/1202:15 | 05/02/1203:36 | 05/02/1204:03 | DATE RECEIVED: | 04/25/12 |
| PREP. BATCH: | SVD047S | SVD047S | SVD047S | | |
| CALIB. REF: | RDL204 | RDL204 | RDL204 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 250 | 75 | 333 | 251 | 75 | 0 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 280 | 84 | 333 | 272 | 81 | 3 | 20-130 | 50 |
| Anthracene | ND | 333 | 245 | 74 | 333 | 256 | 77 | 4 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 286 | 86 | 333 | 319 | 96 | 11 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 318 | 95 | 333 | 355 | 106 | 11 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 334 | 100 | 333 | 386 | 116 | 14 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 344 | 103 | 333 | 352 | 106 | 2 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 294 | 88 | 333 | 336 | 101 | 13 | 30-140 | 50 |
| Chrysene | ND | 333 | 287 | 86 | 333 | 318 | 95 | 10 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 315 | 95 | 333 | 359 | 108 | 13 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 310 | 93 | 333 | 340 | 102 | 9 | 30-130 | 50 |
| Fluorene | ND | 333 | 266 | 80 | 333 | 267 | 80 | 0 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 311 | 93 | 333 | 349 | 105 | 12 | 20-160 | 50 |
| Naphthalene | ND | 333 | 251 | 75 | 333 | 249 | 75 | 1 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 250 | 75 | 333 | 264 | 79 | 5 | 20-130 | 50 |
| Pyrene | ND | 333 | 280 | 84 | 333 | 306 | 92 | 9 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 279 | 84 | 333 | 276 | 83 | 1 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 275 | 83 | 333 | 270 | 81 | 2 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 262 | 79 | 333 | 290 | 87 | 10 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 234 | 70 | 333 | 259 | 78 | 10 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 273 | 82 | 333 | 304 | 91 | 11 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 298 | 89 | 333 | 328 | 98 | 10 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 243 | 73 | 333 | 271 | 81 | 11 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 251 | 75 | 333 | 257 | 77 | 2 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 251 | 75 | 333 | 253 | 76 | 1 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 195 | 59 | 333 | 186 | 56 | 40-130 |
| 2-Fluorobiphenyl | 333 | 217 | 65 | 333 | 208 | 62 | 45-130 |
| Terphenyl-d14 | 333 | 263 | 79 | 333 | 279 | 84 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: 17.4
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-173-NBZ-SS-0.0-0.5
LAB SAMP ID: D146-05W D146-05M D146-05S
LAB FILE ID: REL149 REL059 REL060
DATE EXTRACTED: 04/25/1211:53 04/25/1211:53 04/25/1211:53 DATE COLLECTED: 04/16/12
DATE ANALYZED: 05/09/1216:56 05/02/1213:01 05/02/1213:27 DATE RECEIVED: 04/16/12
PREP. BATCH: SVD047S SVD047S SVD047S
CALIB. REF: RDL204 RDL204 RDL204

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 404 | 311 | 77 | 404 | 248 | 62 | 23 | 10-130 | 50 |
| Acenaphthylene | ND | 404 | 347 | 86 | 404 | 273 | 68 | 24 | 20-130 | 50 |
| Anthracene | ND | 404 | 342 | 85 | 404 | 324 | 80 | 6 | 20-130 | 50 |
| Benzo(a)anthracene | 2.34 | 404 | 434 | 107 | 404 | 434 | 107 | 0 | 30-130 | 50 |
| Benzo(a)pyrene | 2.97 | 404 | 460 | 113 | 404 | 457 | 112 | 1 | 30-130 | 50 |
| Benzo(b)fluoranthene | 4.53 | 404 | 476 | 117 | 404 | 520 | 128 | 9 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 404 | 506 | 125 | 404 | 484 | 120 | 5 | 30-130 | 50 |
| Benzo(g,h,i)perylene | 3.37 | 404 | 388 | 95 | 404 | 369 | 91 | 5 | 30-140 | 50 |
| Chrysene | 2.74 | 404 | 440 | 108 | 404 | 430 | 106 | 2 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | 2.22 | 404 | 426 | 105 | 404 | 409 | 101 | 4 | 30-130 | 50 |
| Fluoranthene | 4.06 | 404 | 447 | 110 | 404 | 448 | 110 | 0 | 30-130 | 50 |
| Fluorene | ND | 404 | 343 | 85 | 404 | 297 | 74 | 14 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | 3.99 | 404 | 415 | 102 | 404 | 400 | 98 | 4 | 20-160 | 50 |
| Naphthalene | ND | 404 | 280 | 69 | 404 | 181 | 45 | 43 | 10-130 | 50 |
| Phenanthrene | 1.67J | 404 | 345 | 85 | 404 | 337 | 83 | 2 | 20-130 | 50 |
| Pyrene | 3.62 | 404 | 414 | 102 | 404 | 414 | 102 | 0 | 10-160 | 50 |
| 2-Methylnaphthalene | ND | 404 | 329 | 82 | 404 | 233 | 58 | 34 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 404 | 324 | 80 | 404 | 231 | 57 | 34 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | 12.8J | 404 | 460 | 111 | 404 | 457 | 110 | 0 | 20-150 | 50 |
| Butylbenzylphthalate | ND | 404 | 403 | 100 | 404 | 403 | 100 | 0 | 20-150 | 50 |
| Di-n-butylphthalate | ND | 404 | 436 | 108 | 404 | 435 | 108 | 0 | 20-150 | 50 |
| Di-n-octylphthalate | ND | 404 | 585 | 145 | 404 | 619 | 153* | 6 | 10-150 | 50 |
| Diethylphthalate | ND | 404 | 340 | 84 | 404 | 316 | 78 | 7 | 20-150 | 50 |
| Dimethylphthalate | ND | 404 | 334 | 83 | 404 | 277 | 69 | 18 | 20-150 | 50 |
| N-Nitrosodimethylamine | ND | 404 | 314 | 78 | 404 | 197 | 49 | 46 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 404 | 262 | 65 | 404 | 174 | 43 | 40-130 |
| 2-Fluorobiphenyl | 404 | 262 | 65 | 404 | 195 | 48 | 45-130 |
| Terphenyl-d14 | 404 | 383 | 95 | 404 | 393 | 97 | 45-135 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/17/12 10:10 |
| Sample ID: SL-013-NBZ-SS-0.0-0.5 | Date Analyzed: 04/19/12 21:53 |
| Lab Samp ID: D146-01 | Dilution Factor: 1 |
| Lab File ID: LD18100A | Matrix : SOIL |
| Ext Btch ID: DSD029S | % Moisture : 32.4 |
| Calib. Ref.: LD18092A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.90J | 1.5 | 0.74 |
| EFH(C12-C14) | 0.95J | 1.5 | 0.74 |
| EFH(C15-C20) | 4.3 | 1.5 | 0.74 |
| EFH(C21-C30) | 29 | 1.5 | 0.74 |
| EFH(C30-C40) | 49 | 1.5 | 0.74 |
| TOTAL EFH(C8-C40) | 84 | 1.5 | 0.74 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 9.68 | 14.79 | 65.5 | 50-150 |
| HEXACOSANE | 3.80 | 3.698 | 103 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D146 | Date Extracted: 04/17/12 10:10 |
| Sample ID: MBLK1S | Date Analyzed: 04/19/12 18:28 |
| Lab Samp ID: DSD029SB | Dilution Factor: 1 |
| Lab File ID: LD18088A | Matrix : SOIL |
| Ext Btch ID: DSD029S | % Moisture : NA |
| Calib. Ref.: LD18080A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.11 | 10.00 | 71.1 | 50-150 |
| HEXACOSANE | 2.01 | 2.500 | 80.4 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSD029SB | DSD029SL | DSD029SC | | |
| LAB FILE ID: | LD18088A | LD18086A | LD18087A | | |
| DATE EXTRACTED: | 04/17/1210:10 | 04/17/1210:10 | 04/17/1210:10 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/19/1218:28 | 04/19/1217:54 | 04/19/1218:11 | DATE RECEIVED: | 04/17/12 |
| PREP. BATCH: | DSD029S | DSD029S | DSD029S | | |
| CALIB. REF: | LD18080A | LD18080A | LD18080A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 39.1 | 78 | 50.0 | 40.3 | 81 | 3 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 6.05 | 61 | 10.0 | 6.51 | 65 | 50-150 |
| Hexacosane | 2.50 | 2.04 | 82 | 2.50 | 2.08 | 83 | 50-150 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 13:40 |
| Sample ID: SL-013-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 16:21 |
| Lab Samp ID: D146-01 | Dilution Factor: 1 |
| Lab File ID: MD26017A | Matrix : SOIL |
| Ext Btch ID: CPD042S | % Moisture : 32.4 |
| Calib. Ref.: MD26008A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.25 | 0.13 \| 0.13 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.25 | 0.13 \| 0.13 |
| BETA-BHC | (ND) \| 0.31 | 0.25 | 0.13 \| 0.13 |
| HEPTACHLOR | (ND) \| 0.38 | 0.25 | 0.13 \| 0.13 |
| DELTA-BHC | (ND) \| ND | 0.25 | 0.13 \| 0.13 |
| ALDRIN | (ND) \| 0.70 | 0.25 | 0.13 \| 0.13 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.25 | 0.13 \| 0.13 |
| ENDOSULFAN I | (ND) \| 0.27 | 0.25 | 0.13 \| 0.13 |
| 4,4'-DDE | (1.8) \| 1.6 | 0.50 | 0.25 \| 0.25 |
| DIELDRIN | 0.57 \| (ND) | 0.50 | 0.25 \| 0.25 |
| ENDRIN | (ND) \| ND | 0.50 | 0.25 \| 0.25 |
| 4,4'-DDD | (ND) \| ND | 0.50 | 0.25 \| 0.25 |
| ENDOSULFAN II | (ND) \| ND | 0.50 | 0.25 \| 0.25 |
| 4,4'-DDT | 1.6 \| (2.4) | 0.50 | 0.25 \| 0.25 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.50 | 0.25 \| 0.25 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.50 | 0.25 \| 0.25 |
| ENDRIN KETONE | (ND) \| ND | 0.50 | 0.25 \| 0.25 |
| METHOXYCHLOR | (ND) \| 1.4J | 2.5 | 1.3 \| 1.3 |
| MIREX | 0.87 \| (ND) | 0.50 | 0.25 \| 0.25 |
| TOXAPHENE | (ND) \| ND | 9.8 | 4.9 \| 4.9 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 5.0 | 2.5 \| 2.5 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.415 \| (8.221) | 7.889 | 68.6 \| (104) | 50-130 |
| DECACHLOROBIPHENYL | (8.698) \| 8.359 | 7.889 | (110) \| 106 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 13:40 |
| Sample ID: SL-159-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 16:43 |
| Lab Samp ID: D146-02 | Dilution Factor: 1 |
| Lab File ID: MD26018A | Matrix : SOIL |
| Ext Btch ID: CPD042S | % Moisture : 12.5 |
| Calib. Ref.: MD26008A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.097J | 0.19 | 0.097 \| 0.097 |
| GAMMA-BHC (LINDANE) | 0.48 \| (ND) | 0.19 | 0.097 \| 0.097 |
| BETA-BHC | (ND) \| 0.66 | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR | 0.13J \| (ND) | 0.19 | 0.097 \| 0.097 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| ALDRIN | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| ENDOSULFAN I | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| 4,4'-DDE | 0.84 \| (4.3) | 0.39 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDRIN | 54 \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDD | 0.68 \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.37J \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDT | (1.5) \| 1.4 | 0.39 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| 0.53 | 0.39 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| 1.7J | 1.9 | 0.97 \| 0.97 |
| MIREX | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.5 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.700 \| (6.527) | 6.095 | 77.1 \| (107) | 50-130 |
| DECACHLOROBIPHENYL | (5.411) \| 5.020 | 6.095 | (88.8) \| 82.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 13:40 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 17:06 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: MD26019A | Matrix : SOIL |
| Ext Btch ID: CPD042S | % Moisture : 10.4 |
| Calib. Ref.: MD26008A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.59 \| (ND) | 0.19 | 0.095 \| 0.095 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| HEPTACHLOR | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| ALDRIN | (ND) \| 0.46 | 0.19 | 0.095 \| 0.095 |
| HEPTACHLOR EPOXIDE | 0.32 \| (ND) | 0.19 | 0.095 \| 0.095 |
| ENDOSULFAN I | (ND) \| 0.12J | 0.19 | 0.095 \| 0.095 |
| 4,4'-DDE | 0.42 \| (0.92) | 0.38 | 0.19 \| 0.19 |
| DIELDRIN | 0.28J \| (ND) | 0.38 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| 0.40 | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| 1.1 | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN II | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDT | (0.35J) \| 0.60 | 0.38 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| 0.21J | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | 0.50 \| (ND) | 0.38 | 0.19 \| 0.19 |
| ENDRIN KETONE | 3.4 \| (ND) | 0.38 | 0.19 \| 0.19 |
| METHOXYCHLOR | 14 \| (ND) | 1.9 | 0.95 \| 0.95 |
| MIREX | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.4 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.8 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.923 \| (6.211) | 5.952 | 82.7 \| (104) | 50-130 |
| DECACHLOROBIPHENYL | (4.740) \| 4.594 | 5.952 | (79.6) \| 77.2 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 13:40 |
| Sample ID: SL-164-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 17:28 |
| Lab Samp ID: D146-04 | Dilution Factor: 1 |
| Lab File ID: MD26020A | Matrix : SOIL |
| Ext Btch ID: CPD042S | % Moisture : 16.3 |
| Calib. Ref.: MD26008A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.76 \| (ND) | 0.20 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | 0.33 \| (ND) | 0.20 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| 1.4 | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR | 0.39 \| (ND) | 0.20 | 0.10 \| 0.10 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| ALDRIN | (ND) \| 0.28 | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | 0.12J \| (ND) | 0.20 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| 4,4'-DDE | (ND) \| 0.24J | 0.41 | 0.20 \| 0.20 |
| DIELDRIN | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDRIN | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDOSULFAN II | 0.50 \| (ND) | 0.41 | 0.20 \| 0.20 |
| 4,4'-DDT | 0.45 \| (ND) | 0.41 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| ND | 2.0 | 1.0 \| 1.0 |
| MIREX | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.9 | 3.9 \| 3.9 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.1 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.850 \| (5.943) | 6.372 | 76.1 \| (93.3) | 50-130 |
| DECACHLOROBIPHENYL | (5.425) \| 4.810 | 6.372 | (85.1) \| 75.5 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 13:40 |
| Sample ID: SL-173-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 17:51 |
| Lab Samp ID: D146-05 | Dilution Factor: 1 |
| Lab File ID: MD26021A | Matrix : SOIL |
| Ext Btch ID: CPD042S | % Moisture : 17.4 |
| Calib. Ref.: MD26008A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 4.9 \| (ND) | 0.21 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | 0.17J \| (ND) | 0.21 | 0.10 \| 0.10 |
| BETA-BHC | 0.90 \| (ND) | 0.21 | 0.10 \| 0.10 |
| HEPTACHLOR | 2.9 \| (ND) | 0.21 | 0.10 \| 0.10 |
| DELTA-BHC | 1.6 \| (ND) | 0.21 | 0.10 \| 0.10 |
| ALDRIN | (ND) \| 0.35 | 0.21 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | 0.35 \| (ND) | 0.21 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| 0.13J | 0.21 | 0.10 \| 0.10 |
| 4,4'-DDE | (0.72) \| 0.45 | 0.41 | 0.21 \| 0.21 |
| DIELDRIN | 0.31J \| (ND) | 0.41 | 0.21 \| 0.21 |
| ENDRIN | (ND) \| ND | 0.41 | 0.21 \| 0.21 |
| 4,4'-DDD | (ND) \| ND | 0.41 | 0.21 \| 0.21 |
| ENDOSULFAN II | 0.70 \| (ND) | 0.41 | 0.21 \| 0.21 |
| 4,4'-DDT | (1.1) \| 0.84 | 0.41 | 0.21 \| 0.21 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.41 | 0.21 \| 0.21 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.41 | 0.21 \| 0.21 |
| ENDRIN KETONE | 0.28J \| (ND) | 0.41 | 0.21 \| 0.21 |
| METHOXYCHLOR | ND \| (ND) | 2.1 | 1.0 \| 1.0 |
| MIREX | (ND) \| ND | 0.41 | 0.21 \| 0.21 |
| TOXAPHENE | (ND) \| ND | 8.0 | 4.0 \| 4.0 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.1 | 2.1 \| 2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.439 \| (7.735) | 6.456 | 68.8 \| (120) | 50-130 |
| DECACHLOROBIPHENYL | (5.833) \| 5.317 | 6.456 | (90.3) \| 82.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 13:40 |
| Sample ID: DUP-08-NBZ-QC-041612 | Date Analyzed: 04/26/12 18:58 |
| Lab Samp ID: D146-06 | Dilution Factor: 1 |
| Lab File ID: MD26024A | Matrix : SOIL |
| Ext Btch ID: CPD042S | % Moisture : 16.1 |
| Calib. Ref.: MD26008A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 3.2 \| (ND) | 0.20 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.19J | 0.20 | 0.10 \| 0.10 |
| BETA-BHC | 0.50 \| (ND) | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR | (ND) \| 0.92 | 0.20 | 0.10 \| 0.10 |
| DELTA-BHC | 0.90 \| (ND) | 0.20 | 0.10 \| 0.10 |
| ALDRIN | (ND) \| 0.34 | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | 0.21 \| (ND) | 0.20 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| 4,4'-DDE | (0.52) \| 0.51 | 0.41 | 0.20 \| 0.20 |
| DIELDRIN | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDRIN | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDOSULFAN II | 0.55 \| (ND) | 0.41 | 0.20 \| 0.20 |
| 4,4'-DDT | (0.55) \| 0.43 | 0.41 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| METHOXYCHLOR | 1.5J \| (ND) | 2.0 | 1.0 \| 1.0 |
| MIREX | (ND) \| ND | 0.41 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.9 | 3.9 \| 3.9 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.1 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.687 \| (5.550) | 6.356 | 58.0 \| (87.3) | 50-130 |
| DECACHLOROBIPHENYL | (4.797) \| 4.364 | 6.356 | (75.5) \| 68.7 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 13:40 |
| Sample ID: MBLK1S | Date Analyzed: 04/26/12 14:29 |
| Lab Samp ID: CPD042SB | Dilution Factor: 1 |
| Lab File ID: MD26012A | Matrix : SOIL |
| Ext Btch ID: CPD042S | % Moisture : NA |
| Calib. Ref.: MD26008A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.847\|(4.722) | 5.333 | 72.1\|(88.5) | 50-130 |
| DECACHLOROBIPHENYL | (6.474)\|5.400 | 5.333 | (121*)\|101 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: 17.4

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-173-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D146-05 | D146-05M | D146-05S | | |
| LAB FILE ID: | MD26021A | MD26022A | MD26023A | | |
| DATE EXTRACTED: | 04/19/1213:40 | 04/19/1213:40 | 04/19/1213:40 | DATE COLLECTED: | 04/16/12 |
| DATE ANALYZED: | 04/26/1217:51 | 04/26/1218:13 | 04/26/1218:36 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | CPD042S | CPD042S | CPD042S | | |
| CALIB. REF: | MD26008A | MD26008A | MD26008A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 4.9 \| (ND) | 3.23 | 8.25 \| (3.17) | 104 \| (98) | 3.23 | 8.51 \| (4.09) | 112 \| (127) | 3 \| (25) | 30-150 | 50 |
| gamma-BHC (Lindane) | 0.17J \| (ND) | 3.23 | 2.65 \| (4.26) | 77 \| (132) | 3.23 | 2.54 \| (4.55) | 73 \| (141) | 4 \| (7) | 20-150 | 50 |
| beta-BHC | 0.90 \| (ND) | 3.23 | 4.65 \| (2.81) | 116 \| (87) | 3.23 | 8.13 \| (2.79) | 224* \| (86) | 54* \| (1) | 50-140 | 50 |
| Heptachlor | 2.9 \| (ND) | 3.23 | 5.52 \| (3.61) | 81 \| (112) | 3.23 | 5.71 \| (3.95) | 87 \| (122) | 3 \| (9) | 20-140 | 50 |
| delta-BHC | (ND) \| ND | 3.23 | (4.54) \| 3.35 | (140) \| 104 | 3.23 | (4.57) \| 16.9 | (141) \| 523* | (7) \| 134* | 30-150 | 50 |
| Aldrin | (ND) \| 0.35 | 3.23 | (2.83) \| 3.15 | (88) \| 87 | 3.23 | (2.32) \| 3.05 | (72) \| 84 | (20) \| 3 | 20-160 | 50 |
| Heptachlor Epoxide | 0.35 \| (ND) | 3.23 | 3.55 \| (3.14) | 99 \| (97) | 3.23 | 3.62 \| (3.17) | 101 \| (98) | 2 \| (1) | 40-140 | 50 |
| Endosulfan I | (ND) \| 0.13J | 3.23 | (2.93) \| 3.41 | (91) \| 101 | 3.23 | (2.86) \| 3.45 | (88) \| 103 | (2) \| 1 | 50-160 | 50 |
| 4,4'-DDE | (0.72) \| 0.45 | 3.23 | (3.66) \| 4.19 | (91) \| 116 | 3.23 | (3.92) \| 4.14 | (99) \| 114 | (7) \| 1 | 50-150 | 50 |
| Dieldrin | 0.31J \| (ND) | 3.23 | 3.28 \| (2.91) | 92 \| (90) | 3.23 | 3.36 \| (2.85) | 94 \| (88) | 2 \| (2) | 10-160 | 50 |
| Endrin | (ND) \| ND | 3.23 | 3.13 \| (3.19) | 97 \| (99) | 3.23 | 3.44 \| (3.50) | 106 \| (108) | 9 \| (9) | 20-160 | 50 |
| 4,4'-DDD | (ND) \| ND | 3.23 | 3.07 \| (3.25) | 95 \| (101) | 3.23 | 2.82 \| (3.45) | 87 \| (107) | 8 \| (6) | 50-160 | 50 |
| Endosulfan II | 0.70 \| (ND) | 3.23 | 4.19 \| (3.76) | 108 \| (116) | 3.23 | 3.74 \| (3.82) | 94 \| (118) | 11 \| (2) | 40-160 | 50 |
| 4,4'-DDT | (1.1) \| 0.84 | 3.23 | (4.79) \| 4.27 | (114) \| 106 | 3.23 | (4.53) \| 4.20 | (106) \| 104 | (6) \| 2 | 30-160 | 50 |
| Endrin aldehyde | (ND) \| ND | 3.23 | 3.09 \| (3.25) | 96 \| (101) | 3.23 | 3.16 \| (3.18) | 98 \| (98) | 2 \| (2) | 50-140 | 50 |
| Endosulfan Sulfate | (ND) \| ND | 3.23 | 3.19 \| (3.52) | 99 \| (109) | 3.23 | 3.13 \| (3.29) | 97 \| (102) | 2 \| (7) | 40-160 | 50 |
| Endrin Ketone | 0.28J \| (ND) | 3.23 | (3.93) \| 3.17 | (113) \| 98 | 3.23 | (3.68) \| 3.13 | (105) \| 97 | (7) \| 1 | 50-160 | 50 |
| Methoxychlor | (ND) \| ND | 32.3 | (35.3) \| 35.0 | (109) \| 108 | 32.3 | (35.7) \| 34.2 | (112) \| 106 | (1) \| 2 | 60-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 6.456 | 4.783 \| (6.888) | 74.1 \| (107) | 6.456 | 5.215 \| (7.944) | 80.8 \| (123) | 50-130 |
| Decachlorobiphenyl | 6.456 | (5.960) \| 5.128 | (92.3) \| 79.4 | 6.456 | (6.789) \| 5.527 | (105) \| 85.6 | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/12 17:21 |
| Sample ID: SL-013-NBZ-SS-0.0-0.5 | Date Analyzed: 05/11/12 13:24 |
| Lab Samp ID: D146-01 | Dilution Factor: 1 |
| Lab File ID: KE11007A | Matrix : SOIL |
| Ext Btch ID: CPD058S | % Moisture : 32.4 |
| Calib. Ref.: KE11003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.5 | 1.3\|1.3 |
| AROCLOR 1221 | (ND)\|ND | 2.5 | 1.3\|1.3 |
| AROCLOR 1232 | (ND)\|ND | 2.5 | 1.3\|1.3 |
| AROCLOR 1242 | (ND)\|ND | 2.5 | 1.3\|1.3 |
| AROCLOR 1248 | (ND)\|ND | 2.5 | 1.3\|1.3 |
| AROCLOR 1254 | (7.9)\|4.6 | 2.5 | 1.3\|1.3 |
| AROCLOR 1260 | (ND)\|ND | 2.5 | 1.3\|1.3 |
| AROCLOR 1262 | (ND)\|ND | 2.5 | 1.3\|1.3 |
| AROCLOR 1268 | (ND)\|ND | 2.5 | 1.3\|1.3 |
| AROCLOR 5432 | (ND)\|ND | 4.9 | 2.5\|2.5 |
| AROCLOR 5442 | (ND)\|ND | 4.9 | 2.5\|2.5 |
| AROCLOR 5460 | 14\|(16) | 4.9 | 2.5\|2.5 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.236)\|6.040 | 7.889 | (91.7)\|76.6 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.616)\|5.023 | 7.889 | (83.9)\|63.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/12 17:21 |
| Sample ID: SL-159-NBZ-SS-0.0-0.5 | Date Analyzed: 05/11/12 14:17 |
| Lab Samp ID: D146-02 | Dilution Factor: 1 |
| Lab File ID: KE11008A | Matrix : SOIL |
| Ext Btch ID: CPD058S | % Moisture : 12.5 |
| Calib. Ref.: KE11003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5460 | 2.6J\|(3.1J) | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.176)\|5.767 | 6.095 | (118)\|94.6 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.661)\|4.844 | 6.095 | (109)\|79.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/12 17:21 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/11/12 15:10 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: KE11009A | Matrix : SOIL |
| Ext Btch ID: CPD058S | % Moisture : 10.4 |
| Calib. Ref.: KE11003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.764)\|5.451 | 5.952 | (114)\|91.6 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.225)\|4.756 | 5.952 | (105)\|79.9 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/12 17:21 |
| Sample ID: SL-164-NBZ-SS-0.0-0.5 | Date Analyzed: 05/11/12 16:03 |
| Lab Samp ID: D146-04 | Dilution Factor: 1 |
| Lab File ID: KE11010A | Matrix : SOIL |
| Ext Btch ID: CPD058S | % Moisture : 16.3 |
| Calib. Ref.: KE11003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.939)\|5.561 | 6.372 | (109)\|87.3 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.303)\|4.663 | 6.372 | (98.9)\|73.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/16/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/16/12 |
| Batch No. | : 12D146 | Date Extracted | : 04/25/12 17:21 |
| Sample ID | : SL-173-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/11/12 16:57 |
| Lab Samp ID | : D146-05 | Dilution Factor | : 1 |
| Lab File ID | : KE11011A | Matrix | : SOIL |
| Ext Btch ID | : CPD058S | % Moisture | : 17.4 |
| Calib. Ref. | : KE11003A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 4.0 | 2.1\|2.1 |
| AROCLOR 5442 | (ND)\|ND | 4.0 | 2.1\|2.1 |
| AROCLOR 5460 | (ND)\|ND | 4.0 | 2.1\|2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.700)\|5.349 | 6.456 | (104)\|82.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.414)\|4.740 | 6.456 | (99.3)\|73.4 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/12 17:21 |
| Sample ID: DUP-08-NBZ-QC-041612 | Date Analyzed: 05/11/12 19:36 |
| Lab Samp ID: D146-06 | Dilution Factor: 1 |
| Lab File ID: KE11014A | Matrix : SOIL |
| Ext Btch ID: CPD058S | % Moisture : 16.1 |
| Calib. Ref.: KE11003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.475)\|5.208 | 6.356 | (102)\|81.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.289)\|4.521 | 6.356 | (98.9)\|71.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client : CDM | | Date Collected: NA | |
| Project : SSFL AREA IV COLLOCATED SAMPLING | | Date Received: 04/25/12 | |
| Batch No. : 12D146 | | Date Extracted: 04/25/12 17:21 | |
| Sample ID: MBLK1S | | Date Analyzed: 05/10/12 23:53 | |
| Lab Samp ID: 60D058SB | | Dilution Factor: 1 | |
| Lab File ID: KE07087A | | Matrix : SOIL | |
| Ext Btch ID: CPD058S | | % Moisture : NA | |
| Calib. Ref.: KE07079A | | Instrument ID : GCT071 | |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.724)\|4.578 | 5.333 | (107)\|85.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (4.879)\|3.662 | 5.333 | (91.5)\|68.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60D058SB | 60D058SL | 60D058SC | | |
| LAB FILE ID: | KE07087A | KE07088A | KE07089A | | |
| DATE EXTRACTED: | 04/25/1217:21 | 04/25/1217:21 | 04/25/1217:21 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/10/1223:53 | 05/11/1200:46 | 05/11/1201:39 | DATE RECEIVED: | 04/25/12 |
| PREP. BATCH: | CPD058S | CPD058S | CPD058S | | |
| CALIB. REF: | KE07079A | KE07079A | KE07079A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (61.6)\|44.8 | (92)\|67 | 66.7 | (65.2)\|50.0 | (98)\|75 | (6)\|11 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (79.7)\|55.5 | (120)\|83 | 66.7 | (84.2)\|58.0 | (126)\|87 | (5)\|4 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 33.3 | (40.9)\|39.7 | (123)\|119 | 33.3 | (42.3)\|41.7 | (127)\|125 | (3)\|5 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | (6.028)\|4.521 | (113)\|84.8 | 5.333 | (6.362)\|5.062 | (119)\|94.9 | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (5.178)\|3.918 | (97.1)\|73.5 | 5.333 | (5.570)\|4.289 | (104)\|80.4 | 10-160 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 17.4

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-173-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D146-05 | D146-05M | D146-05S | | |
| LAB FILE ID: | KE11011A | KE11012A | KE11013A | | |
| DATE EXTRACTED: | 04/25/1217:21 | 04/25/1217:21 | 04/25/1217:21 | DATE COLLECTED: | 04/16/12 |
| DATE ANALYZED: | 05/11/1216:57 | 05/11/1217:50 | 05/11/1218:43 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | CPD058S | CPD058S | CPD058S | | |
| CALIB. REF: | KE11003A | KE11003A | KE11003A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 80.7 | (63.0)\|48.2 | (78)\|60 | 80.7 | (66.9)\|50.7 | (83)\|63 | (6)\|5 | 20-160 | 50 |
| Aroclor 1260 | (ND)\|ND | 80.7 | (84.2)\|58.6 | (104)\|73 | 80.7 | (93.7)\|63.1 | (116)\|78 | (11)\|7 | 20-160 | 50 |
| Aroclor 5460 | (ND)\|ND | 40.4 | 45.0\|(47.8) | 111\|(118) | 40.4 | 47.6\|(51.4) | 118\|(127) | 6\|(7) | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 6.456 | (6.446)\|5.242 | (99.8)\|81.2 | 6.456 | (6.710)\|5.392 | (104)\|83.5 | 45-120 |
| Tetrachloro-m-xylene | 6.456 | (6.113)\|4.238 | (94.7)\|65.6 | 6.456 | (6.072)\|4.070 | (94.0)\|63.0 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 17:20 |
| Sample ID: SL-013-NBZ-SS-0.0-0.5 | Date Analyzed: 04/23/12 17:33 |
| Lab Samp ID: D146-01 | Dilution Factor: 1 |
| Lab File ID: WD23013A | Matrix : SOIL |
| Ext Btch ID: HED011S | % Moisture : 32.4 |
| Calib. Ref.: WD23002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 5.3 | 2.7\|2.7 |
| 2,4-DB | (ND)\|ND | 2.5 | 1.3\|1.3 |
| 2,4,5-T | 0.37\|(ND) | 0.25 | 0.13\|0.13 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.25 | 0.13\|0.13 |
| DALAPON | (ND)\|ND | 13 | 6.7\|6.7 |
| DICAMBA | (ND)\|ND | 1.8 | 0.89\|0.89 |
| DICHLOROPROP | (ND)\|ND | 3.6 | 1.8\|1.8 |
| DINOSEB | (ND)\|ND | 2.5 | 1.3\|1.3 |
| MCPA | (ND)\|ND | 370 | 180\|180 |
| MCPP | (ND)\|ND | 370 | 180\|180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (241.9)\|179.2 | 221.9 | (109)\|80.7 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 17:20 |
| Sample ID: SL-159-NBZ-SS-0.0-0.5 | Date Analyzed: 04/23/12 17:53 |
| Lab Samp ID: D146-02 | Dilution Factor: 1 |
| Lab File ID: WD23014A | Matrix : SOIL |
| Ext Btch ID: HED011S | % Moisture : 12.5 |
| Calib. Ref.: WD23002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| 2,4,5-T | 0.30\|(ND) | 0.19 | 0.097\|0.097 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.097\|0.097 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.69\|0.69 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| MCPA | (ND)\|ND | 290 | 140\|140 |
| MCPP | (ND)\|ND | 290 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (228.6)\|159.1 | 171.4 | (133)\|92.8 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 17:20 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/23/12 18:13 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: WD23015A | Matrix : SOIL |
| Ext Btch ID: HED011S | % Moisture : 10.4 |
| Calib. Ref.: WD23002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.95\|0.95 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.095\|0.095 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.095\|0.095 |
| DALAPON | (ND)\|ND | 10 | 5.0\|5.0 |
| DICAMBA | (ND)\|ND | 1.3 | 0.67\|0.67 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.95\|0.95 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (168.7)\|119.7 | 167.4 | (101)\|71.5 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 17:20 |
| Sample ID: SL-164-NBZ-SS-0.0-0.5 | Date Analyzed: 04/23/12 18:34 |
| Lab Samp ID: D146-04 | Dilution Factor: 1 |
| Lab File ID: WD23016A | Matrix : SOIL |
| Ext Btch ID: HED011S | % Moisture : 16.3 |
| Calib. Ref.: WD23002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.3 | 2.2\|2.2 |
| 2,4-DB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.4\|5.4 |
| DICAMBA | (ND)\|ND | 1.4 | 0.72\|0.72 |
| DICHLOROPROP | (ND)\|ND | 2.9 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| MCPA | (ND)\|ND | 300 | 150\|150 |
| MCPP | (ND)\|ND | 300 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (165.7)\|114.9 | 179.2 | (92.4)\|64.1 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 17:20 |
| Sample ID: SL-173-NBZ-SS-0.0-0.5 | Date Analyzed: 04/23/12 18:54 |
| Lab Samp ID: D146-05 | Dilution Factor: 1 |
| Lab File ID: WD23017A | Matrix : SOIL |
| Ext Btch ID: HED011S | % Moisture : 17.4 |
| Calib. Ref.: WD23002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.4 | 2.2\|2.2 |
| 2,4-DB | (ND)\|ND | 2.1 | 1.0\|1.0 |
| 2,4,5-T | 1.9\|(ND) | 0.21 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.21 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.4\|5.4 |
| DICAMBA | (ND)\|ND | 1.5 | 0.73\|0.73 |
| DICHLOROPROP | (ND)\|ND | 2.9 | 1.5\|1.5 |
| DINOSEB | (ND)\|ND | 2.1 | 1.0\|1.0 |
| MCPA | (ND)\|ND | 300 | 150\|150 |
| MCPP | (ND)\|ND | 300 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | 280.0\|(198.8) | 181.6 | 154*\|(109) | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 17:20 |
| Sample ID: DUP-08-NBZ-QC-041612 | Date Analyzed: 04/23/12 19:55 |
| Lab Samp ID: D146-06 | Dilution Factor: 1 |
| Lab File ID: WD23020A | Matrix : SOIL |
| Ext Btch ID: HED011S | % Moisture : 16.1 |
| Calib. Ref.: WD23002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.3 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| 2,4,5-T | 1.1\|(ND) | 0.20 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.4\|5.4 |
| DICAMBA | (ND)\|ND | 1.4 | 0.72\|0.72 |
| DICHLOROPROP | (ND)\|ND | 2.9 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| MCPA | (ND)\|ND | 300 | 150\|150 |
| MCPP | (ND)\|ND | 300 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (218.1)\|163.1 | 178.8 | (122)\|91.2 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 17:20 |
| Sample ID: MBLK1S | Date Analyzed: 04/23/12 14:11 |
| Lab Samp ID: HED011SB | Dilution Factor: 1 |
| Lab File ID: WD23003A | Matrix : SOIL |
| Ext Btch ID: HED011S | % Moisture : NA |
| Calib. Ref.: WD23002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|1.2J | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (190.2)\|156.7 | 150.0 | (127)\|104 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: METHOD 8151A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HED011SB | HED011SL | HED011SC | | |
| LAB FILE ID: | WD23003A | WD23004A | WD23005A | | |
| DATE EXTRACTED: | 04/19/1217:20 | 04/19/1217:20 | 04/19/1217:20 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/23/1214:11 | 04/23/1214:31 | 04/23/1214:51 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | HED011S | HED011S | HED011S | | |
| CALIB. REF: | WD23002A | WD23002A | WD23002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | (13.3)\|12.2 | (89)\|81 | 15.0 | (14.0)\|13.0 | (93)\|87 | (5)\|6 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 10.6\|(13.4) | 71\|(89) | 15.0 | 12.5\|(14.2) | 83\|(95) | 16\|(6) | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | 13.1\|(14.0) | 87\|(93) | 15.0 | 14.1\|(15.2) | 94\|(101) | 7\|(8) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 15.0 | 12.2\|(13.3) | 81\|(89) | 15.0 | 13.2\|(14.1) | 88\|(94) | 8\|(6) | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | 8.64J\|(10.5) | 58\|(70) | 15.0 | 9.19\|(10.1) | 61\|(67) | 6\|(4) | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (13.2)\|11.8 | (88)\|79 | 15.0 | (13.9)\|12.5 | (93)\|83 | (5)\|6 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | 14.2\|(14.4) | 95\|(96) | 15.0 | 14.9\|(15.2) | 99\|(101) | 5\|(5) | 60-160 | 50 |
| Dinoseb | (ND)\|1.2J | 15.0 | (9.35)\|8.91 | (62)\|59 | 15.0 | (10.6)\|10.3 | (71)\|69 | (13)\|14 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (718)\|649 | (96)\|87 | 750 | (749)\|673 | (100)\|90 | (4)\|4 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | (719)\|540 | (96)\|72 | 750 | (738)\|562 | (98)\|75 | (3)\|4 | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 | (153.8)\|124.8 | (103)\|83.2 | 150.0 | (155.6)\|130.4 | (104)\|87.0 | 10-150 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: 17.4

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-173-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D146-05 | D146-05M | D146-05S | | |
| LAB FILE ID: | WD23017A | WD23018A | WD23019A | | |
| DATE EXTRACTED: | 04/19/1217:20 | 04/19/1217:20 | 04/19/1217:20 | DATE COLLECTED: | 04/16/12 |
| DATE ANALYZED: | 04/23/1218:54 | 04/23/1219:14 | 04/23/1219:35 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | HED011S | HED011S | HED011S | | |
| CALIB. REF: | WD23002A | WD23002A | WD23002A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 18.2 | (19.5)\|16.8 | (107)\|93 | 18.2 | 20.7\|(21.3) | 114\|(117) | 6\|(24) | 30-140 | 50 |
| 2,4-DB | (ND)\|ND | 18.2 | 14.5\|(19.3) | 80\|(106) | 18.2 | 18.5\|(21.7) | 102\|(119) | 24\|(12) | 30-160 | 50 |
| 2,4,5-T | 1.9\|(ND) | 18.2 | 18.3\|(21.2) | 90\|(117) | 18.2 | 21.1\|(23.7) | 106\|(131) | 14\|(11) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 18.2 | 17.9\|(21.1) | 99\|(116) | 18.2 | 20.1\|(21.5) | 111\|(118) | 12\|(2) | 30-150 | 50 |
| Dalapon | (ND)\|ND | 18.2 | 6.70J\|(10.6J) | 37\|(58) | 18.2 | 9.73J\|(16.4) | 54\|(90) | 37\|(43) | 10-160 | 50 |
| Dicamba | (ND)\|ND | 18.2 | (18.1)\|18.0 | (100)\|99 | 18.2 | (20.8)\|19.8 | (115)\|109 | (14)\|10 | 50-130 | 50 |
| Dichloroprop | (ND)\|ND | 18.2 | (19.7)\|14.8 | (108)\|81 | 18.2 | 20.7\|(21.1) | 114\|(116) | 5\|(35) | 60-150 | 50 |
| Dinoseb | (ND)\|ND | 18.2 | 13.4\|(14.1) | 74\|(78) | 18.2 | (12.5)\|11.3 | (69)\|62 | (7)\|22 | 10-130 | 50 |
| MCPA | (ND)\|ND | 908 | (723)\|615 | (80)\|68 | 908 | (878)\|625 | (97)\|69 | (19)\|2 | 10-160 | 50 |
| MCPP | (ND)\|ND | 908 | 663\|(1170) | 73\|(129) | 908 | 1160\|(808) | 128\|(89) | 55*\|(37) | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 181.6 | (228.3)\|175.9 | (126)\|96.9 | 181.6 | (255.3)\|190.2 | (141)\|105 | 10-150 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-013-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 20:11 |
| Lab Samp ID: D146-01 | Dilution Factor: .99 |
| Lab File ID: XD25013A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25012A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1910 | 1980 | 96.4 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/24/12 |
| Batch No. : 12D146 | Date Extracted: 04/24/12 18:47 |
| Sample ID: MBLK1S | Date Analyzed: 04/25/12 17:55 |
| Lab Samp ID: EXD018SB | Dilution Factor: 1 |
| Lab File ID: XD25009A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25003A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1950 | 2000 | 97.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: METHOD 8330A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD018SB | EXD018SL | EXD018SC | | |
| LAB FILE ID: | XD25009A | XD25010A | XD25011A | | |
| DATE EXTRACTED: | 04/24/1218:47 | 04/24/1218:47 | 04/24/1218:47 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1217:55 | 04/25/1218:29 | 04/25/1219:03 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | EXD018S | EXD018S | EXD018S | | |
| CALIB. REF: | XD25003A | XD25003A | XD25003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 2010 | 100 | 2000 | 1960 | 98 | 3 | 70-130 | 50 |
| RDX | ND | 2000 | 2050 | 102 | 2000 | 2100 | 105 | 2 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2260 | 113 | 2000 | 2250 | 112 | 1 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2140 | 107 | 2000 | 2190 | 109 | 2 | 70-130 | 50 |
| Tetryl | ND | 2000 | 1790 | 90 | 2000 | 1880 | 94 | 5 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 2140 | 107 | 2000 | 2270 | 114 | 6 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 1830 | 91 | 2000 | 1770 | 89 | 3 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 2030 | 102 | 2000 | 1940 | 97 | 5 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 1960 | 98 | 2000 | 1920 | 96 | 2 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2000 | 100 | 2000 | 2130 | 106 | 6 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2130 | 106 | 2000 | 2220 | 111 | 4 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 2220 | 111 | 2000 | 2190 | 109 | 1 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1920 | 96 | 2000 | 1960 | 98 | 2 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 2010 | 101 | 2000 | 1810 | 90 | 11 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1890 | 95 | 2000 | 1980 | 99 | 5 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2070 | 104 | 2000 | 2140 | 107 | 4 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1930 | 96 | 2000 | 1960 | 98 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/16/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/16/12 |
| Batch No. | : 12D146 | Date Extracted | : 04/24/12 18:47 |
| Sample ID | : SL-013-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/25/12 18:40 |
| Lab Samp ID | : D146-01 | Dilution Factor | : .99 |
| Lab File ID | : PD25018A | Matrix | : SOIL |
| Ext Btch ID | : EXD018S | % Moisture | : NA |
| Calib. Ref. | : PD25017A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2490 | 1980 | 126 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/24/12 |
| Batch No. | : 12D146 | Date Extracted | : 04/24/12 18:47 |
| Sample ID | : MBLK1S | Date Analyzed | : 04/25/12 17:44 |
| Lab Samp ID | : EXD018SB | Dilution Factor | : 1 |
| Lab File ID | : PD25014A | Matrix | : SOIL |
| Ext Btch ID | : EXD018S | % Moisture | : NA |
| Calib. Ref. | : PD25005A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2490 | 2000 | 125 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD018SB | EXD018SX | EXD018SY | | |
| LAB FILE ID: | PD25014A | PD25015A | PD25016A | | |
| DATE EXTRACTED: | 04/24/1218:47 | 04/24/1218:47 | 04/24/1218:47 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1217:44 | 04/25/1217:58 | 04/25/1218:12 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | EXD018S | EXD018S | EXD018S | | |
| CALIB. REF: | PD25005A | PD25005A | PD25005A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7920 | 106 | 7500 | 7970 | 106 | 1 | 50-150 | 50 |
| PETN | ND | 7500 | 7670 | 102 | 7500 | 7500 | 100 | 2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2380 | 119 | 2000 | 2400 | 120 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/16/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/16/12 |
| SDG NO. | : 12D146 | Date Extracted | : 04/24/12 10:33 |
| Sample ID | : SL-013-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/03/12 19:30 |
| Lab Samp ID | : D146-01 | Dilution Factor | : 0.995 |
| Lab File ID | : 98E03108 | Matrix | : SOIL |
| Ext Btch ID | : IMD035S | % Moisture | : 32.4 |
| Calib. Ref. | : 98E03106 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9530 | 35.3 | 17.7 |
| Antimony | 0.224J | 0.294 | 0.147 |
| Arsenic | 3.10 | 0.589 | 0.294 |
| Barium | 80.4 | 0.589 | 0.294 |
| Beryllium | 0.379 | 0.147 | 0.0736 |
| Boron | 3.78J | 7.36 | 3.68 |
| Cadmium | 0.232 | 0.147 | 0.0736 |
| Calcium | 4690 | 29.4 | 14.7 |
| Chromium | 12.0 | 0.589 | 0.294 |
| Cobalt | 4.32 | 0.147 | 0.0736 |
| Copper | 7.30 | 0.589 | 0.294 |
| Iron | 15700 | 29.4 | 14.7 |
| Lead | 10.7 | 0.294 | 0.147 |
| Magnesium | 3860 | 14.7 | 7.36 |
| Manganese | 222 | 0.736 | 0.368 |
| Molybdenum | 0.392 | 0.147 | 0.0736 |
| Nickel | 8.27 | 0.589 | 0.294 |
| Potassium | 2820 | 88.3 | 44.2 |
| Selenium | ND | 0.589 | 0.294 |
| Silver | ND | 0.147 | 0.0736 |
| Sodium | 98.0J | 147 | 73.6 |
| Strontium | 25.6 | 0.736 | 0.368 |
| Thallium | 0.192 | 0.147 | 0.0736 |
| Tin | ND | 14.7 | 7.36 |
| Titanium | 788 | 1.47 | 0.736 |
| Vanadium | 24.9 | 0.147 | 0.0736 |
| Zinc | 56.1 | 4.42 | 2.21 |
| Lithium | 18.6 | 2.94 | 1.47 |
| Phosphorus | 375 | 17.7 | 8.83 |
| Zirconium | ND | 7.36 | 3.68 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/16/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/16/12 |
| SDG NO. | : 12D146 | Date Extracted | : 04/24/12 10:33 |
| Sample ID | : SL-159-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/03/12 19:35 |
| Lab Samp ID | : D146-02 | Dilution Factor | : 0.995 |
| Lab File ID | : 98E03109 | Matrix | : SOIL |
| Ext Btch ID | : IMD035S | % Moisture | : 12.5 |
| Calib. Ref. | : 98E03106 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11100 | 27.3 | 13.6 |
| Antimony | 0.134J | 0.227 | 0.114 |
| Arsenic | 4.50 | 0.455 | 0.227 |
| Barium | 77.4 | 0.455 | 0.227 |
| Beryllium | 0.388 | 0.114 | 0.0569 |
| Boron | ND | 5.69 | 2.84 |
| Cadmium | 0.215 | 0.114 | 0.0569 |
| Calcium | 2120 | 22.7 | 11.4 |
| Chromium | 10.6 | 0.455 | 0.227 |
| Cobalt | 4.15 | 0.114 | 0.0569 |
| Copper | 5.43 | 0.455 | 0.227 |
| Iron | 17500 | 22.7 | 11.4 |
| Lead | 8.45 | 0.227 | 0.114 |
| Magnesium | 3930 | 11.4 | 5.69 |
| Manganese | 257 | 0.569 | 0.284 |
| Molybdenum | 0.485 | 0.114 | 0.0569 |
| Nickel | 7.16 | 0.455 | 0.227 |
| Potassium | 3150 | 68.2 | 34.1 |
| Selenium | ND | 0.455 | 0.227 |
| Silver | ND | 0.114 | 0.0569 |
| Sodium | 63.4J | 114 | 56.9 |
| Strontium | 14.8 | 0.569 | 0.284 |
| Thallium | 0.211 | 0.114 | 0.0569 |
| Tin | ND | 11.4 | 5.69 |
| Titanium | 813 | 1.14 | 0.569 |
| Vanadium | 24.7 | 0.114 | 0.0569 |
| Zinc | 48.6 | 3.41 | 1.71 |
| Lithium | 25.1 | 2.27 | 1.14 |
| Phosphorus | 284 | 13.6 | 6.82 |
| Zirconium | ND | 5.69 | 2.84 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/16/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/16/12 |
| SDG NO. | : 12D146 | Date Extracted | : 04/24/12 10:33 |
| Sample ID | : SL-160-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/03/12 19:39 |
| Lab Samp ID | : D146-03 | Dilution Factor | : 1.00 |
| Lab File ID | : 98E03110 | Matrix | : SOIL |
| Ext Btch ID | : IMD035S | % Moisture | : 10.4 |
| Calib. Ref. | : 98E03106 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9850 | 26.8 | 13.4 |
| Antimony | 0.123J | 0.223 | 0.112 |
| Arsenic | 4.36 | 0.446 | 0.223 |
| Barium | 51.9 | 0.446 | 0.223 |
| Beryllium | 0.424 | 0.112 | 0.0558 |
| Boron | ND | 5.58 | 2.79 |
| Cadmium | 0.167 | 0.112 | 0.0558 |
| Calcium | 2340 | 22.3 | 11.2 |
| Chromium | 10.4 | 0.446 | 0.223 |
| Cobalt | 4.59 | 0.112 | 0.0558 |
| Copper | 6.03 | 0.446 | 0.223 |
| Iron | 19300 | 22.3 | 11.2 |
| Lead | 7.04 | 0.223 | 0.112 |
| Magnesium | 4150 | 11.2 | 5.58 |
| Manganese | 254 | 0.558 | 0.279 |
| Molybdenum | 0.352 | 0.112 | 0.0558 |
| Nickel | 6.55 | 0.446 | 0.223 |
| Potassium | 2460 | 67.0 | 33.5 |
| Selenium | 0.687 | 0.446 | 0.223 |
| Silver | ND | 0.112 | 0.0558 |
| Sodium | 57.0J | 112 | 55.8 |
| Strontium | 9.24 | 0.558 | 0.279 |
| Thallium | 0.224 | 0.112 | 0.0558 |
| Tin | ND | 11.2 | 5.58 |
| Titanium | 780 | 1.12 | 0.558 |
| Vanadium | 23.4 | 0.112 | 0.0558 |
| Zinc | 57.1 | 3.35 | 1.67 |
| Lithium | 28.2 | 2.23 | 1.12 |
| Phosphorus | 326 | 13.4 | 6.70 |
| Zirconium | ND | 5.58 | 2.79 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/16/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/16/12 |
| SDG NO. | : 12D146 | Date Extracted | : 04/24/12 10:33 |
| Sample ID | : SL-164-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/03/12 19:44 |
| Lab Samp ID | : D146-04 | Dilution Factor | : 0.990 |
| Lab File ID | : 98E03111 | Matrix | : SOIL |
| Ext Btch ID | : IMD035S | % Moisture | : 16.3 |
| Calib. Ref. | : 98E03106 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11100 | 28.4 | 14.2 |
| Antimony | 0.127J | 0.237 | 0.118 |
| Arsenic | 5.08 | 0.473 | 0.237 |
| Barium | 81.3 | 0.473 | 0.237 |
| Beryllium | 0.412 | 0.118 | 0.0591 |
| Boron | ND | 5.91 | 2.96 |
| Cadmium | 0.234 | 0.118 | 0.0591 |
| Calcium | 2210 | 23.7 | 11.8 |
| Chromium | 11.6 | 0.473 | 0.237 |
| Cobalt | 4.67 | 0.118 | 0.0591 |
| Copper | 5.57 | 0.473 | 0.237 |
| Iron | 18200 | 23.7 | 11.8 |
| Lead | 6.85 | 0.237 | 0.118 |
| Magnesium | 4240 | 11.8 | 5.91 |
| Manganese | 298 | 0.591 | 0.296 |
| Molybdenum | 0.505 | 0.118 | 0.0591 |
| Nickel | 7.79 | 0.473 | 0.237 |
| Potassium | 3430 | 71.0 | 35.5 |
| Selenium | ND | 0.473 | 0.237 |
| Silver | ND | 0.118 | 0.0591 |
| Sodium | 67.4J | 118 | 59.1 |
| Strontium | 13.1 | 0.591 | 0.296 |
| Thallium | 0.235 | 0.118 | 0.0591 |
| Tin | ND | 11.8 | 5.91 |
| Titanium | 894 | 1.18 | 0.591 |
| Vanadium | 26.4 | 0.118 | 0.0591 |
| Zinc | 53.8 | 3.55 | 1.77 |
| Lithium | 27.4 | 2.37 | 1.18 |
| Phosphorus | 374 | 14.2 | 7.10 |
| Zirconium | ND | 5.91 | 2.96 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| SDG NO. : 12D146 | Date Extracted: 04/24/12 10:33 |
| Sample ID: SL-173-NBZ-SS-0.0-0.5 | Date Analyzed: 05/03/12 19:07 |
| Lab Samp ID: D146-05 | Dilution Factor: 0.980 |
| Lab File ID: 98E03103 | Matrix : SOIL |
| Ext Btch ID: IMD035S | % Moisture : 17.4 |
| Calib. Ref.: 98E03094 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11500 | 28.5 | 14.2 |
| Antimony | 0.206J | 0.237 | 0.119 |
| Arsenic | 3.90 | 0.475 | 0.237 |
| Barium | 82.0 | 0.475 | 0.237 |
| Beryllium | 0.473 | 0.119 | 0.0593 |
| Boron | ND | 5.93 | 2.97 |
| Cadmium | 0.226 | 0.119 | 0.0593 |
| Calcium | 3280 | 23.7 | 11.9 |
| Chromium | 11.6 | 0.475 | 0.237 |
| Cobalt | 4.87 | 0.119 | 0.0593 |
| Copper | 6.69 | 0.475 | 0.237 |
| Iron | 19600 | 23.7 | 11.9 |
| Lead | 13.8 | 0.237 | 0.119 |
| Magnesium | 4110 | 11.9 | 5.93 |
| Manganese | 292 | 0.593 | 0.297 |
| Molybdenum | 0.476 | 0.119 | 0.0593 |
| Nickel | 7.65 | 0.475 | 0.237 |
| Potassium | 3670 | 71.2 | 35.6 |
| Selenium | 0.330J | 0.475 | 0.237 |
| Silver | ND | 0.119 | 0.0593 |
| Sodium | 72.2J | 119 | 59.3 |
| Strontium | 20.3 | 0.593 | 0.297 |
| Thallium | 0.247 | 0.119 | 0.0593 |
| Tin | ND | 11.9 | 5.93 |
| Titanium | 900 | 1.19 | 0.593 |
| Vanadium | 26.8 | 0.119 | 0.0593 |
| Zinc | 60.6 | 3.56 | 1.78 |
| Lithium | 28.9 | 2.37 | 1.19 |
| Phosphorus | 397 | 14.2 | 7.12 |
| Zirconium | ND | 5.93 | 2.97 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| SDG NO. : 12D146 | Date Extracted: 04/24/12 10:33 |
| Sample ID: DUP-08-NBZ-QC-041612 | Date Analyzed: 05/03/12 19:48 |
| Lab Samp ID: D146-06 | Dilution Factor: 0.985 |
| Lab File ID: 98E03112 | Matrix : SOIL |
| Ext Btch ID: IMD035S | % Moisture : 16.1 |
| Calib. Ref.: 98E03106 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10700 | 28.2 | 14.1 |
| Antimony | 0.160J | 0.235 | 0.117 |
| Arsenic | 3.43 | 0.470 | 0.235 |
| Barium | 74.0 | 0.470 | 0.235 |
| Beryllium | 0.394 | 0.117 | 0.0587 |
| Boron | ND | 5.87 | 2.94 |
| Cadmium | 0.206 | 0.117 | 0.0587 |
| Calcium | 2800 | 23.5 | 11.7 |
| Chromium | 10.6 | 0.470 | 0.235 |
| Cobalt | 4.38 | 0.117 | 0.0587 |
| Copper | 5.98 | 0.470 | 0.235 |
| Iron | 18400 | 23.5 | 11.7 |
| Lead | 12.1 | 0.235 | 0.117 |
| Magnesium | 3810 | 11.7 | 5.87 |
| Manganese | 268 | 0.587 | 0.294 |
| Molybdenum | 0.424 | 0.117 | 0.0587 |
| Nickel | 6.90 | 0.470 | 0.235 |
| Potassium | 3440 | 70.4 | 35.2 |
| Selenium | 0.284J | 0.470 | 0.235 |
| Silver | ND | 0.117 | 0.0587 |
| Sodium | 62.9J | 117 | 58.7 |
| Strontium | 17.6 | 0.587 | 0.294 |
| Thallium | 0.228 | 0.117 | 0.0587 |
| Tin | ND | 11.7 | 5.87 |
| Titanium | 834 | 1.17 | 0.587 |
| Vanadium | 24.3 | 0.117 | 0.0587 |
| Zinc | 56.9 | 3.52 | 1.76 |
| Lithium | 26.5 | 2.35 | 1.17 |
| Phosphorus | 364 | 14.1 | 7.04 |
| Zirconium | ND | 5.87 | 2.94 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/24/12 |
| SDG NO. | : 12D146 | Date Extracted | : 04/24/12 10:33 |
| Sample ID | : MBLK1S | Date Analyzed | : 05/03/12 18:40 |
| Lab Samp ID | : IMD035SB | Dilution Factor | : 1 |
| Lab File ID | : 98E03097 | Matrix | : SOIL |
| Ext Btch ID | : IMD035S | % Moisture | : NA |
| Calib. Ref. | : 98E03094 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D146
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: NA
DILTN FACTR: 1 1 1
SAMPLE ID: MBLK1S
CONTROL NO.: IMD035SB IMD035SL IMD035SC
LAB FILE ID: 98E03097 98E03098 98E03099
DATIME EXTRCTD: 04/24/1210:33 04/24/1210:33 04/24/1210:33 DATE COLLECTED: NA
DATIME ANALYZD: 05/03/1218:40 05/03/1218:45 05/03/1218:49 DATE RECEIVED: 04/24/12
PREP. BATCH: IMD035S IMD035S IMD035S
CALIB. REF: 98E03094 98E03094 98E03094

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2660 | 106 | 2500 | 2620 | 105 | 1 | 80-120 | 20 |
| Antimony | ND | 25.0 | 25.9 | 103 | 25.0 | 25.1 | 100 | 3 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 25.2 | 101 | 25.0 | 24.3 | 97 | 4 | 80-120 | 20 |
| Barium | ND | 25.0 | 26.4 | 106 | 25.0 | 25.5 | 102 | 4 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 24.8 | 99 | 25.0 | 23.8 | 95 | 4 | 80-120 | 20 |
| Boron | ND | 25.0 | 25.0 | 100 | 25.0 | 24.4 | 98 | 2 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 25.1 | 100 | 25.0 | 24.5 | 98 | 2 | 80-120 | 20 |
| Calcium | ND | 2500 | 2760 | 111 | 2500 | 2690 | 107 | 3 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.9 | 99 | 25.0 | 24.0 | 96 | 4 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 25.5 | 102 | 25.0 | 24.9 | 100 | 2 | 80-120 | 20 |
| Copper | ND | 25.0 | 23.9 | 96 | 25.0 | 23.2 | 93 | 3 | 80-120 | 20 |
| Iron | ND | 2500 | 2670 | 107 | 2500 | 2600 | 104 | 2 | 80-120 | 20 |
| Lead | ND | 25.0 | 26.1 | 104 | 25.0 | 24.7 | 99 | 5 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2660 | 106 | 2500 | 2630 | 105 | 1 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.8 | 103 | 25.0 | 25.3 | 101 | 2 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 25.2 | 101 | 25.0 | 24.6 | 98 | 3 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.0 | 96 | 25.0 | 23.1 | 92 | 4 | 80-120 | 20 |
| Potassium | ND | 2500 | 2840 | 114 | 2500 | 2730 | 109 | 4 | 80-120 | 20 |
| Selenium | ND | 25.0 | 24.7 | 99 | 25.0 | 24.1 | 96 | 3 | 80-120 | 20 |
| Silver | ND | 25.0 | 25.4 | 101 | 25.0 | 25.1 | 101 | 1 | 80-120 | 20 |
| Sodium | ND | 2500 | 2610 | 104 | 2500 | 2560 | 102 | 2 | 80-120 | 20 |
| Strontium | ND | 25.0 | 26.4 | 106 | 25.0 | 25.5 | 102 | 3 | 80-120 | 20 |
| Thallium | ND | 25.0 | 26.2 | 105 | 25.0 | 25.4 | 101 | 3 | 80-120 | 20 |
| Tin | ND | 25.0 | 28.3 | 113 | 25.0 | 27.4 | 110 | 3 | 80-120 | 20 |
| Titanium | ND | 25.0 | 25.9 | 104 | 25.0 | 25.6 | 102 | 1 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 25.1 | 100 | 25.0 | 24.0 | 96 | 4 | 80-120 | 20 |
| Zinc | ND | 50.0 | 50.3 | 101 | 50.0 | 50.0 | 100 | 1 | 80-120 | 20 |
| Lithium | ND | 25.0 | 26.2 | 105 | 25.0 | 24.9 | 100 | 5 | 80-120 | 20 |
| Phosphorus | ND | 250 | 252 | 101 | 250 | 247 | 99 | 2 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 25.6 | 102 | 25.0 | 25.2 | 101 | 2 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D146
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 17.4

| | | | | | |
|---|---|---|---|---|---|
| DILTN FACTR: | 0.980 | 0.971 | 0.971 | | |
| SAMPLE ID: | SL-173-NBZ-SS-0.0-0.5 | | | | |
| CONTROL NO.: | D146-05 | D146-05M | D146-05S | | |
| LAB FILE ID: | 98E03103 | 98E03100 | 98E03101 | | |
| DATIME EXTRCTD: | 04/24/1210:33 | 04/24/1210:33 | 04/24/1210:33 | DATE COLLECTED: | 04/16/12 |
| DATIME ANALYZD: | 05/03/1219:07 | 05/03/1218:54 | 05/03/1218:58 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | IMD035S | IMD035S | IMD035S | | |
| CALIB. REF: | 98E03094 | 98E03094 | 98E03094 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 11500 | 2940 | 14000 | 87 | 2940 | 15900 | 152* | 13 | 75-125 | 20 |
| Antimony | 0.206J | 29.4 | 21.7 | 73* | 29.4 | 21.5 | 72* | 1 | 75-125 | 20 |
| Arsenic | 3.90 | 29.4 | 30.5 | 91 | 29.4 | 30.5 | 90 | 0 | 75-125 | 20 |
| Barium | 82.0 | 29.4 | 114 | 109 | 29.4 | 132 | 172* | 15 | 75-125 | 20 |
| Beryllium | 0.473 | 29.4 | 28.2 | 94 | 29.4 | 28.7 | 96 | 2 | 75-125 | 20 |
| Boron | ND | 29.4 | 29.4 | 100 | 29.4 | 30.0 | 102 | 2 | 75-125 | 20 |
| Cadmium | 0.226 | 29.4 | 28.5 | 96 | 29.4 | 28.4 | 96 | 0 | 75-125 | 20 |
| Calcium | 3280 | 2940 | 6340 | 104 | 2940 | 6090 | 96 | 4 | 75-125 | 20 |
| Chromium | 11.6 | 29.4 | 37.5 | 88 | 29.4 | 38.0 | 90 | 1 | 75-125 | 20 |
| Cobalt | 4.87 | 29.4 | 31.6 | 91 | 29.4 | 31.7 | 91 | 0 | 75-125 | 20 |
| Copper | 6.69 | 29.4 | 31.6 | 85 | 29.4 | 31.1 | 83 | 2 | 75-125 | 20 |
| Iron | 19600 | 2940 | 21700 | 71* | 2940 | 24900 | 181* | 14 | 75-125 | 20 |
| Lead | 13.8 | 29.4 | 42.7 | 98 | 29.4 | 41.5 | 94 | 3 | 75-125 | 20 |
| Magnesium | 4110 | 2940 | 6740 | 89 | 2940 | 7380 | 111 | 9 | 75-125 | 20 |
| Manganese | 292 | 29.4 | 314 | 76 | 29.4 | 319 | 90 | 1 | 75-125 | 20 |
| Molybdenum | 0.476 | 29.4 | 28.7 | 96 | 29.4 | 28.4 | 95 | 1 | 75-125 | 20 |
| Nickel | 7.65 | 29.4 | 33.0 | 86 | 29.4 | 33.5 | 88 | 2 | 75-125 | 20 |
| Potassium | 3670 | 2940 | 6660 | 102 | 2940 | 7610 | 134* | 13 | 75-125 | 20 |
| Selenium | 0.330J | 29.4 | 28.1 | 95 | 29.4 | 27.8 | 94 | 1 | 75-125 | 20 |
| Silver | ND | 29.4 | 28.7 | 98 | 29.4 | 28.8 | 98 | 0 | 75-125 | 20 |
| Sodium | 72.2J | 2940 | 2860 | 95 | 2940 | 2910 | 96 | 2 | 75-125 | 20 |
| Strontium | 20.3 | 29.4 | 50.0 | 101 | 29.4 | 47.5 | 93 | 5 | 75-125 | 20 |
| Thallium | 0.247 | 29.4 | 29.0 | 98 | 29.4 | 29.0 | 98 | 0 | 75-125 | 20 |
| Tin | ND | 29.4 | 33.3 | 113 | 29.4 | 33.6 | 114 | 1 | 75-125 | 20 |
| Titanium | 900 | 29.4 | 908 | 26* | 29.4 | 1020 | 422* | 12 | 75-125 | 20 |
| Vanadium | 26.8 | 29.4 | 52.7 | 88 | 29.4 | 53.9 | 92 | 2 | 75-125 | 20 |
| Zinc | 60.6 | 58.8 | 113 | 89 | 58.8 | 122 | 105 | 8 | 75-125 | 20 |
| Lithium | 28.9 | 29.4 | 57.8 | 98 | 29.4 | 61.7 | 111 | 6 | 75-125 | 20 |
| Phosphorus | 397 | 294 | 688 | 99 | 294 | 826 | 146* | 18 | 75-125 | 20 |
| Zirconium | ND | 29.4 | 15.6 | 53* | 29.4 | 17.1 | 58* | 9 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D146
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 17.4
DILTN FACTR: 0.980 0.980
SAMPLE ID: SL-173-NBZ-SS-0.0-0.5
CONTROL NO.: D146-05 D146-05A
LAB FILE ID: 98E03103 98E03102
DATIME EXTRCTD: 04/24/1210:33 04/24/1210:33 DATE COLLECTED: 04/16/12
DATIME ANALYZD: 05/03/1219:07 05/03/1219:02 DATE RECEIVED: 04/16/12
PREP. BATCH: IMD035S IMD035S
CALIB. REF: 98E03094 98E03094

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 11500 | 2970 | 14800 | 112 | 75-125 |
| Antimony | 0.206J | 29.7 | 30.0 | 100 | 75-125 |
| Arsenic | 3.90 | 29.7 | 32.0 | 95 | 75-125 |
| Barium | 82.0 | 29.7 | 119 | 125 | 75-125 |
| Beryllium | 0.473 | 29.7 | 28.5 | 95 | 75-125 |
| Boron | ND | 29.7 | 31.0 | 104 | 75-125 |
| Cadmium | 0.226 | 29.7 | 29.1 | 97 | 75-125 |
| Calcium | 3280 | 2970 | 6330 | 103 | 75-125 |
| Chromium | 11.6 | 29.7 | 38.3 | 90 | 75-125 |
| Cobalt | 4.87 | 29.7 | 32.4 | 93 | 75-125 |
| Copper | 6.69 | 29.7 | 32.2 | 86 | 75-125 |
| Iron | 19600 | 2970 | 22800 | 107 | 75-125 |
| Lead | 13.8 | 29.7 | 43.3 | 99 | 75-125 |
| Magnesium | 4110 | 2970 | 7120 | 102 | 75-125 |
| Manganese | 292 | 29.7 | 327 | 117 | 75-125 |
| Molybdenum | 0.476 | 29.7 | 30.0 | 99 | 75-125 |
| Nickel | 7.65 | 29.7 | 33.2 | 86 | 75-125 |
| Potassium | 3670 | 2970 | 6890 | 109 | 75-125 |
| Selenium | 0.330J | 29.7 | 28.5 | 95 | 75-125 |
| Silver | ND | 29.7 | 29.4 | 99 | 75-125 |
| Sodium | 72.2J | 2970 | 2900 | 95 | 75-125 |
| Strontium | 20.3 | 29.7 | 49.9 | 100 | 75-125 |
| Thallium | 0.247 | 29.7 | 29.8 | 100 | 75-125 |
| Tin | ND | 29.7 | 33.7 | 114 | 75-125 |
| Titanium | 900 | 29.7 | 952 | 176* | 75-125 |
| Vanadium | 26.8 | 29.7 | 54.1 | 92 | 75-125 |
| Zinc | 60.6 | 59.3 | 114 | 91 | 75-125 |
| Lithium | 28.9 | 29.7 | 58.9 | 101 | 75-125 |
| Phosphorus | 397 | 297 | 739 | 115 | 75-125 |
| Zirconium | ND | 29.7 | 29.5 | 99 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 17.4
DILUTION FACTOR: 0.980 4.90
SAMPLE ID: SL-173-NBZ-SS- SL-173-NBZ-SS-
EMAX SAMP ID: D146-05 D146-05J
LAB FILE ID: 98E03103 98E03104
DATE EXTRACTED: 04/24/1210:33 04/24/1210:33 DATE COLLECTED: 04/16/12
DATE ANALYZED: 05/03/1219:07 05/03/1219:11 DATE RECEIVED: 04/16/12
PREP. BATCH: IMD035S IMD035S
CALIB. REF: 98E03094 98E03094

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 11500 | 11900 | 4 | 10 |
| Antimony | 0.206J | ND | NA | 10 |
| Arsenic | 3.90 | 3.72 | 5 | 10 |
| Barium | 82.0 | 79.0 | 4 | 10 |
| Beryllium | 0.473 | 0.494J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.226 | ND | NA | 10 |
| Calcium | 3280 | 3340 | 2 | 10 |
| Chromium | 11.6 | 11.6 | 0 | 10 |
| Cobalt | 4.87 | 5.01 | 3 | 10 |
| Copper | 6.69 | 6.90 | 3 | 10 |
| Iron | 19600 | 20100 | 2 | 10 |
| Lead | 13.8 | 13.5 | 2 | 10 |
| Magnesium | 4110 | 4210 | 2 | 10 |
| Manganese | 292 | 302 | 3 | 10 |
| Molybdenum | 0.476 | 0.461J | NA | 10 |
| Nickel | 7.65 | 7.69 | 0 | 10 |
| Potassium | 3670 | 3580 | 3 | 10 |
| Selenium | 0.330J | ND | NA | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | 72.2J | ND | NA | 10 |
| Strontium | 20.3 | 19.5 | 4 | 10 |
| Thallium | 0.247 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 900 | 871 | 3 | 10 |
| Vanadium | 26.8 | 26.5 | 1 | 10 |
| Zinc | 60.6 | 63.6 | 5 | 10 |
| Lithium | 28.9 | 25.5 | 12* | 10 |
| Phosphorus | 397 | 414 | 4 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD024SB | ND | 1 | NA | 0.100 | 0.0500 | 04/24/1217:02 | 04/24/1213:00 | M47D017010 | M47D017008 | HGD024S | NA | 04/24/12 |
| LCS1S | HGD024SL | 0.848 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:04 | 04/24/1213:00 | M47D017011 | M47D017008 | HGD024S | NA | 04/24/12 |
| LCD1S | HGD024SC | 0.843 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:06 | 04/24/1213:00 | M47D017012 | M47D017008 | HGD024S | NA | 04/24/12 |
| SL-173-NBZ-SS-0.0-0.5AS | D146-05A | 1.04 | 0.993 | 17.4 | 0.120 | 0.0601 | 04/24/1217:08 | 04/24/1213:00 | M47D017013 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | ND | 0.993 | 17.4 | 0.120 | 0.0601 | 04/24/1217:10 | 04/24/1213:00 | M47D017014 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5DL | D146-05J | ND | 4.97 | 17.4 | 0.602 | 0.301 | 04/24/1217:12 | 04/24/1213:00 | M47D017015 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M | 1.08 | 0.995 | 17.4 | 0.120 | 0.0602 | 04/24/1217:14 | 04/24/1213:00 | M47D017016 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S | 1.07 | 0.995 | 17.4 | 0.120 | 0.0602 | 04/24/1217:16 | 04/24/1213:00 | M47D017017 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | ND | 1.01 | 32.4 | 0.149 | 0.0747 | 04/24/1217:19 | 04/24/1213:00 | M47D017018 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | ND | 0.990 | 12.5 | 0.113 | 0.0566 | 04/24/1217:21 | 04/24/1213:00 | M47D017019 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | ND | 0.993 | 10.4 | 0.111 | 0.0554 | 04/24/1217:28 | 04/24/1213:00 | M47D017022 | M47D017020 | HGD024S | 04/16/12 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | ND | 0.998 | 16.3 | 0.119 | 0.0596 | 04/24/1217:30 | 04/24/1213:00 | M47D017023 | M47D017020 | HGD024S | 04/16/12 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | ND | 0.990 | 16.1 | 0.118 | 0.0590 | 04/24/1217:32 | 04/24/1213:00 | M47D017024 | M47D017020 | HGD024S | 04/16/12 | 04/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D146
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGD024SB | HGD024SL | HGD024SC | | |
| LAB FILE ID: | M47D017010 | M47D017011 | M47D017012 | | |
| DATIME EXTRCTD: | 04/24/1213:00 | 04/24/1213:00 | 04/24/1213:00 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/24/1217:02 | 04/24/1217:04 | 04/24/1217:06 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | HGD024S | HGD024S | HGD024S | | |
| CALIB. REF: | M47D017008 | M47D017008 | M47D017008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .848 | 102 | .833 | .843 | 101 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D146
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 17.4

| | | | | | |
|---|---|---|---|---|---|
| DILTN FACTR: | 0.993 | 0.995 | 0.995 | | |
| SAMPLE ID: | SL-173-NBZ-SS-0.0-0.5 | | | | |
| CONTROL NO.: | D146-05 | D146-05M | D146-05S | | |
| LAB FILE ID: | M47D017014 | M47D017016 | M47D017017 | | |
| DATIME EXTRCTD: | 04/24/1213:00 | 04/24/1213:00 | 04/24/1213:00 | DATE COLLECTED: | 04/16/12 |
| DATIME ANALYZD: | 04/24/1217:10 | 04/24/1217:14 | 04/24/1217:16 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | HGD024S | HGD024S | HGD024S | | |
| CALIB. REF: | M47D017008 | M47D017008 | M47D017008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | 1 | 1.08 | 108 | 1 | 1.07 | 107 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D146
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 17.4 |
| DILTN FACTR: | 0.993 | 0.993 | | |
| SAMPLE ID: | SL-173-NBZ-SS-0.0-0.5 | | | |
| CONTROL NO.: | D146-05 | D146-05A | | |
| LAB FILE ID: | M47D017014 | M47D017013 | | |
| DATIME EXTRCTD: | 04/24/1213:00 | 04/24/1213:00 | DATE COLLECTED: | 04/16/12 |
| DATIME ANALYZD: | 04/24/1217:10 | 04/24/1217:08 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | HGD024S | HGD024S | | |
| CALIB. REF: | M47D017008 | M47D017008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | 1 | 1.04 | 103 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 17.4 |
| DILUTION FACTOR: | 0.993 | 4.97 | | |
| SAMPLE ID: | SL-173-NBZ-SS-0.0-0 | SL-173-NBZ-SS-0.0-0 | | |
| EMAX SAMP ID: | D146-05 | D146-05J | | |
| LAB FILE ID: | M47D017014 | M47D017015 | | |
| DATE EXTRACTED: | 04/24/1213:00 | 04/24/1213:00 | DATE COLLECTED: | 04/16/12 |
| DATE ANALYZED: | 04/24/1217:10 | 04/24/1217:12 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | HGD024S | HGD024S | | |
| CALIB. REF: | M47D017008 | M47D017008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD009SB | ND | 1 | NA | 1.00 | 0.500 | 04/20/1211:52 | 04/19/1210:17 | AD27-06 | AD27-04 | ICD009S | NA | 04/19/12 |
| LCS1S | ICD009SL | 6.26 | 1 | NA | 1.00 | 0.500 | 04/20/1212:08 | 04/19/1210:17 | AD27-07 | AD27-04 | ICD009S | NA | 04/19/12 |
| LCD1S | ICD009SC | 6.24 | 1 | NA | 1.00 | 0.500 | 04/20/1212:24 | 04/19/1210:17 | AD27-08 | AD27-04 | ICD009S | NA | 04/19/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | 0.829J | 1 | 32.4 | 1.48 | 0.740 | 04/20/1213:12 | 04/19/1210:17 | AD27-11 | AD27-04 | ICD009S | 04/16/1210:07 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | ND | 1 | 12.5 | 1.14 | 0.571 | 04/20/1213:29 | 04/19/1210:17 | AD27-12 | AD27-04 | ICD009S | 04/16/1211:01 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | ND | 1 | 10.4 | 1.12 | 0.558 | 04/20/1213:45 | 04/19/1210:17 | AD27-13 | AD27-04 | ICD009S | 04/16/1214:40 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | ND | 1 | 16.3 | 1.19 | 0.597 | 04/20/1214:01 | 04/19/1210:17 | AD27-14 | AD27-04 | ICD009S | 04/16/1211:35 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | ND | 1 | 16.1 | 1.19 | 0.596 | 04/20/1214:17 | 04/19/1210:17 | AD27-15 | AD27-04 | ICD009S | 04/16/1215:23 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | ND | 1 | 17.4 | 1.21 | 0.605 | 04/20/1215:06 | 04/19/1210:17 | AD27-18 | AD27-16 | ICD009S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M | 8.15 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1215:22 | 04/19/1210:17 | AD27-19 | AD27-16 | ICD009S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S | 8.27 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1215:38 | 04/19/1210:17 | AD27-20 | AD27-16 | ICD009S | 04/16/1215:18 | 04/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD009SB | ICD009SL | ICD009SC | | |
| LAB FILE ID: | AD27-06 | AD27-07 | AD27-08 | | |
| DATE EXTRACTED: | 04/19/1210:17 | 04/19/1210:17 | 04/19/1210:17 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/20/1211:52 | 04/20/1212:08 | 04/20/1212:24 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | ICD009S | ICD009S | ICD009S | | |
| CALIB. REF: | AD27-04 | AD27-04 | AD27-04 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 6.26 | 104 | 6.00 | 6.24 | 104 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: 300.0

MATRIX: SOIL % MOISTURE: 17.4

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-173-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D146-05 | D146-05M | D146-05S | | |
| LAB FILE ID: | AD27-18 | AD27-19 | AD27-20 | | |
| DATE EXTRACTED: | 04/19/1210:17 | 04/19/1210:17 | 04/19/1210:17 | DATE COLLECTED: | 04/16/12 15:18 |
| DATE ANALYZED: | 04/20/1215:06 | 04/20/1215:22 | 04/20/1215:38 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | ICD009S | ICD009S | ICD009S | | |
| CALIB. REF: | AD27-16 | AD27-16 | AD27-16 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 7.26 | 8.15 | 112 | 7.26 | 8.27 | 114 | 2 | 80-120 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD009SB | ND | 1 | NA | 1.50 | 0.750 | 04/20/1211:52 | 04/19/1210:17 | AD27-06 | AD27-04 | ICD009S | NA | 04/19/12 |
| LCS1S | ICD009SL | 13.6 | 1 | NA | 1.50 | 0.750 | 04/20/1212:08 | 04/19/1210:17 | AD27-07 | AD27-04 | ICD009S | NA | 04/19/12 |
| LCD1S | ICD009SC | 13.6 | 1 | NA | 1.50 | 0.750 | 04/20/1212:24 | 04/19/1210:17 | AD27-08 | AD27-04 | ICD009S | NA | 04/19/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | 11.8 | 1 | 32.4 | 2.22 | 1.11 | 04/20/1213:12 | 04/19/1210:17 | AD27-11 | AD27-04 | ICD009S | 04/16/1210:07 | 04/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD009SB | ICD009SL | ICD009SC | | |
| LAB FILE ID: | AD27-06 | AD27-07 | AD27-08 | | |
| DATE EXTRACTED: | 04/19/1210:17 | 04/19/1210:17 | 04/19/1210:17 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/20/1211:52 | 04/20/1212:08 | 04/20/1212:24 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | ICD009S | ICD009S | ICD009S | | |
| CALIB. REF: | AD27-04 | AD27-04 | AD27-04 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 13.3 | 13.6 | 102 | 13.3 | 13.6 | 102 | 0 | 90-110 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD016SB | ND | 1 | NA | 20.0 | 10.0 | 04/23/1211:26 | 04/19/1210:30 | JD23002 | JD23001 | PCD016S | NA | 04/19/12 |
| LCS1S | PCD016SL | 252 | 1 | NA | 20.0 | 10.0 | 04/23/1212:08 | 04/19/1210:30 | JD23004 | JD23001 | PCD016S | NA | 04/19/12 |
| LCD1S | PCD016SC | 243 | 1 | NA | 20.0 | 10.0 | 04/23/1212:29 | 04/19/1210:30 | JD23005 | JD23001 | PCD016S | NA | 04/19/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | ND | 1 | 32.4 | 29.6 | 14.8 | 04/23/1213:36 | 04/19/1210:30 | JD23008 | JD23001 | PCD016S | 04/16/1210:07 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | ND | 1 | 12.5 | 22.9 | 11.4 | 04/23/1213:57 | 04/19/1210:30 | JD23009 | JD23001 | PCD016S | 04/16/1211:01 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | ND | 1 | 10.4 | 22.3 | 11.2 | 04/23/1214:18 | 04/19/1210:30 | JD23010 | JD23001 | PCD016S | 04/16/1214:40 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | ND | 1 | 16.3 | 23.9 | 11.9 | 04/23/1215:21 | 04/19/1210:30 | JD23013 | JD23012 | PCD016S | 04/16/1211:35 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | ND | 1 | 17.4 | 24.2 | 12.1 | 04/23/1215:42 | 04/19/1210:30 | JD23014 | JD23012 | PCD016S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M | 300 | 1 | 17.4 | 24.2 | 12.1 | 04/23/1216:03 | 04/19/1210:30 | JD23015 | JD23012 | PCD016S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S | 301 | 1 | 17.4 | 24.2 | 12.1 | 04/23/1216:24 | 04/19/1210:30 | JD23016 | JD23012 | PCD016S | 04/16/1215:18 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | ND | 1 | 16.1 | 23.8 | 11.9 | 04/23/1216:46 | 04/19/1210:30 | JD23017 | JD23012 | PCD016S | 04/16/1215:23 | 04/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD016SB | PCD016SL | PCD016SC | | |
| LAB FILE ID: | JD23002 | JD23004 | JD23005 | | |
| DATE EXTRACTED: | 04/19/1210:30 | 04/19/1210:30 | 04/19/1210:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/23/1211:26 | 04/23/1212:08 | 04/23/1212:29 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | PCD016S | PCD016S | PCD016S | | |
| CALIB. REF: | JD23001 | JD23001 | JD23001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 252 | 101 | 250 | 243 | 97 | 4 | 85-115 | 15 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 17.4 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-173-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D146-05 | D146-05M | D146-05S | | |
| LAB FILE ID: | JD23014 | JD23015 | JD23016 | | |
| DATE EXTRACTED: | 04/19/1210:30 | 04/19/1210:30 | 04/19/1210:30 | DATE COLLECTED: | 04/16/12 15:18 |
| DATE ANALYZED: | 04/23/1215:42 | 04/23/1216:03 | 04/23/1216:24 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | PCD016S | PCD016S | PCD016S | | |
| CALIB. REF: | JD23012 | JD23012 | JD23012 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 303 | 300 | 99 | 303 | 301 | 100 | 0 | 80-120 | 20 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD010SB | ND | 1 | NA | 1.00 | 0.500 | 04/20/1217:40 | 04/18/1215:06 | ID21013 | ID21011 | HCD010S | NA | 04/18/12 |
| MBLK1S | HCD010SQ | ND | 1 | NA | 1.00 | 0.500 | 04/20/1217:50 | 04/18/1215:06 | ID21014 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS1S | CSD010SL | 9.63 | 1 | NA | 1.00 | 0.500 | 04/20/1218:00 | 04/18/1215:06 | ID21015 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS1S | CSD010SX | 11.5 | 1 | NA | 1.00 | 0.500 | 04/20/1218:11 | 04/18/1215:06 | ID21016 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS2S | CID010SL | 467 | 25 | NA | 25.0 | 12.5 | 04/20/1218:21 | 04/18/1215:06 | ID21017 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS2S | CID010SX | 465 | 25 | NA | 25.0 | 12.5 | 04/20/1218:32 | 04/18/1215:06 | ID21018 | ID21011 | HCD010S | NA | 04/18/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M | 11.0 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1218:42 | 04/18/1215:06 | ID21019 | ID21011 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M1 | 12.3 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1218:52 | 04/18/1215:06 | ID21020 | ID21011 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S | 10.9 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1219:03 | 04/18/1215:06 | ID21021 | ID21011 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S1 | 11.3 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1219:13 | 04/18/1215:06 | ID21022 | ID21011 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | ND | 1 | 17.4 | 1.21 | 0.605 | 04/20/1220:36 | 04/18/1215:06 | ID21029 | ID21023 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05R | ND | 1 | 17.4 | 1.21 | 0.605 | 04/20/1220:47 | 04/18/1215:06 | ID21030 | ID21023 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | ND | 1 | 32.4 | 1.48 | 0.740 | 04/20/1222:10 | 04/18/1215:06 | ID21037 | ID21035 | HCD010S | 04/16/1210:07 | 04/16/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01R | ND | 1 | 32.4 | 1.48 | 0.740 | 04/20/1222:21 | 04/18/1215:06 | ID21038 | ID21035 | HCD010S | 04/16/1210:07 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | ND | 1 | 12.5 | 1.14 | 0.571 | 04/20/1222:31 | 04/18/1215:06 | ID21039 | ID21035 | HCD010S | 04/16/1211:01 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02R | ND | 1 | 12.5 | 1.14 | 0.571 | 04/20/1222:41 | 04/18/1215:06 | ID21040 | ID21035 | HCD010S | 04/16/1211:01 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | ND | 1 | 10.4 | 1.12 | 0.558 | 04/20/1222:52 | 04/18/1215:06 | ID21041 | ID21035 | HCD010S | 04/16/1214:40 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03R | ND | 1 | 10.4 | 1.12 | 0.558 | 04/20/1223:02 | 04/18/1215:06 | ID21042 | ID21035 | HCD010S | 04/16/1214:40 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | ND | 1 | 16.3 | 1.19 | 0.597 | 04/20/1223:13 | 04/18/1215:06 | ID21043 | ID21035 | HCD010S | 04/16/1211:35 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04R | ND | 1 | 16.3 | 1.19 | 0.597 | 04/20/1223:23 | 04/18/1215:06 | ID21044 | ID21035 | HCD010S | 04/16/1211:35 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | ND | 1 | 16.1 | 1.19 | 0.596 | 04/20/1223:33 | 04/18/1215:06 | ID21045 | ID21035 | HCD010S | 04/16/1215:23 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06R | ND | 1 | 16.1 | 1.19 | 0.596 | 04/20/1223:44 | 04/18/1215:06 | ID21046 | ID21035 | HCD010S | 04/16/1215:23 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05G | 107 | 5 | 17.4 | 6.05 | 3.03 | 04/23/1221:09 | 04/18/1215:06 | ID23009 | ID23001 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05G1 | 105 | 5 | 17.4 | 6.05 | 3.03 | 04/23/1221:19 | 04/18/1215:06 | ID23010 | ID23001 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05H | 107 | 5 | 17.4 | 6.05 | 3.03 | 04/23/1221:29 | 04/18/1215:06 | ID23011 | ID23001 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05H1 | 109 | 5 | 17.4 | 6.05 | 3.03 | 04/23/1221:40 | 04/18/1215:06 | ID23012 | ID23001 | HCD010S | 04/16/1215:18 | 04/16/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD010SB | CSD010SL | | |
| LAB FILE ID: | ID21013 | ID21015 | | |
| DATE EXTRACTED: | 04/18/1215:06 | 04/18/1215:06 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/20/1217:40 | 04/20/1218:00 | DATE RECEIVED: | 04/18/12 |
| PREP. BATCH: | HCD010S | HCD010S | | |
| CALIB. REF: | ID21011 | ID21011 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 9.63 | 96 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD010SQ | CSD010SX | | |
| LAB FILE ID: | ID21014 | ID21016 | | |
| DATE EXTRACTED: | 04/18/1215:06 | 04/18/1215:06 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/20/1217:50 | 04/20/1218:11 | DATE RECEIVED: | 04/18/12 |
| PREP. BATCH: | HCD010S | HCD010S | | |
| CALIB. REF: | ID21011 | ID21011 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 11.5 | 115 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 25
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD010SB CID010SL
LAB FILE ID: ID21013 ID21017
DATE EXTRACTED: 04/18/1215:06 04/18/1215:06 DATE COLLECTED: NA
DATE ANALYZED: 04/20/1217:40 04/20/1218:21 DATE RECEIVED: 04/18/12
PREP. BATCH: HCD010S HCD010S
CALIB. REF: ID21011 ID21011

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 551 | 467 | 85 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 25
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD010SQ CID010SX
LAB FILE ID: ID21014 ID21018
DATE EXTRACTED: 04/18/1215:06 04/18/1215:06 DATE COLLECTED: NA
DATE ANALYZED: 04/20/1217:50 04/20/1218:32 DATE RECEIVED: 04/18/12
PREP. BATCH: HCD010S HCD010S
CALIB. REF: ID21011 ID21011

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 551 | 465 | 84 | 80-120 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: 7199

MATRIX: SOIL % MOISTURE: 17.4

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-173-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D146-05 | D146-05M | D146-05S | | |
| LAB FILE ID: | ID21029 | ID21019 | ID21021 | | |
| DATE EXTRACTED: | 04/18/1215:06 | 04/18/1215:06 | 04/18/1215:06 | DATE COLLECTED: | 04/16/12 15:18 |
| DATE ANALYZED: | 04/20/1220:36 | 04/20/1218:42 | 04/20/1219:03 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | HCD010S | HCD010S | HCD010S | | |
| CALIB. REF: | ID21023 | ID21011 | ID21011 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 12.1 | 11.0 | 91 | 12.1 | 10.9 | 90 | 1 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: 7199

MATRIX: SOIL % MOISTURE: 17.4

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-173-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D146-05R | D146-05M1 | D146-05S1 | | |
| LAB FILE ID: | ID21030 | ID21020 | ID21022 | | |
| DATE EXTRACTED: | 04/18/1215:06 | 04/18/1215:06 | 04/18/1215:06 | DATE COLLECTED: | 04/16/12 15:18 |
| DATE ANALYZED: | 04/20/1220:47 | 04/20/1218:52 | 04/20/1219:13 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | HCD010S | HCD010S | HCD010S | | |
| CALIB. REF: | ID21023 | ID21011 | ID21011 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 12.1 | 12.3 | 101 | 12.1 | 11.3 | 93 | 9 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: 7199

MATRIX: SOIL % MOISTURE: 17.4

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 5 | 5 | | |
| SAMPLE ID: | SL-173-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D146-05 | D146-05G | D146-05H | | |
| LAB FILE ID: | ID21029 | ID23009 | ID23011 | | |
| DATE EXTRACTED: | 04/18/1215:06 | 04/18/1215:06 | 04/18/1215:06 | DATE COLLECTED: | 04/16/12 15:18 |
| DATE ANALYZED: | 04/20/1220:36 | 04/23/1221:09 | 04/23/1221:29 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | HCD010S | HCD010S | HCD010S | | |
| CALIB. REF: | ID21023 | ID23001 | ID23001 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 128 | 107 | 84 | 140 | 107 | 76 | 1 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D146
METHOD: 7199

MATRIX: SOIL % MOISTURE: 17.4

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 5 | 5 | | |
| SAMPLE ID: | SL-173-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D146-05R | D146-05G1 | D146-05H1 | | |
| LAB FILE ID: | ID21030 | ID23010 | ID23012 | | |
| DATE EXTRACTED: | 04/18/1215:06 | 04/18/1215:06 | 04/18/1215:06 | DATE COLLECTED: | 04/16/12 15:18 |
| DATE ANALYZED: | 04/20/1220:47 | 04/23/1221:19 | 04/23/1221:40 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | HCD010S | HCD010S | HCD010S | | |
| CALIB. REF: | ID21023 | ID23001 | ID23001 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 128 | 105 | 82 | 140 | 109 | 78 | 4 | 75-125 | 20 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CND006SB | ND | 1 | NA | 0.500 | 0.250 | 04/18/1218:12 | 04/18/1211:00 | CND00610 | CND00608 | CND006S | NA | 04/18/12 |
| LCS1S | CND006SL | 2.47 | 1 | NA | 0.500 | 0.250 | 04/18/1218:12 | 04/18/1211:00 | CND00611 | CND00608 | CND006S | NA | 04/18/12 |
| LCD1S | CND006SC | 2.44 | 1 | NA | 0.500 | 0.250 | 04/18/1218:12 | 04/18/1211:00 | CND00612 | CND00608 | CND006S | NA | 04/18/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | ND | 1 | 32.4 | 0.740 | 0.370 | 04/18/1218:18 | 04/18/1211:00 | CND00626 | CND00620 | CND006S | 04/16/1210:07 | 04/16/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D146
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CND006SL/C

DATE RECEIVED: 04/18/12
DATE EXTRACTED: 04/18/1211:00
DATE ANALYZED: 04/18/1218:12/18:12

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.47 | 99 | 2.50 | 2.44 | 98 | 1 | 85-125 | 20 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | 6.92 | 1 | NA | NA | NA | 04/17/1213:02 | 04/17/1213:02 | 12PHD015S01 | PHD015S | PHD015S | 04/16/1210:07 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | 6.12 | 1 | NA | NA | NA | 04/17/1213:04 | 04/17/1213:02 | 12PHD015S02 | PHD015S | PHD015S | 04/16/1211:01 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | 6.36 | 1 | NA | NA | NA | 04/17/1213:07 | 04/17/1213:02 | 12PHD015S03 | PHD015S | PHD015S | 04/16/1214:40 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | 6.24 | 1 | NA | NA | NA | 04/17/1213:14 | 04/17/1213:02 | 12PHD015S04 | PHD015S | PHD015S | 04/16/1211:35 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | 6.82 | 1 | NA | NA | NA | 04/17/1213:16 | 04/17/1213:02 | 12PHD015S05 | PHD015S | PHD015S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5DUP | D146-05D | 6.83 | 1 | NA | NA | NA | 04/17/1213:17 | 04/17/1213:02 | 12PHD015S06 | PHD015S | PHD015S | 04/16/1215:18 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | 6.55 | 1 | NA | NA | NA | 04/17/1213:19 | 04/17/1213:02 | 12PHD015S07 | PHD015S | PHD015S | 04/16/1215:23 | 04/16/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D146 DATE RECEIVED: 04/16/12
SAMPLE ID: SL-173-NBZ-SS-0.0-0.5DUP DATE EXTRACTED: 04/17/1213:02
CONTROL NO.: D146-05D DATE ANALYZED: 04/17/1213:17

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 6.82 | 6.83 | -0.01 | 0.10 |

# SAMPLE DELIVERY GROUP

# 12D154

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:00 |
| Sample ID: EB-NBZ-SB-041712 | Date Analyzed: 05/07/12 16:26 |
| Lab Samp ID: D154-01W | Dilution Factor: 1.03 |
| Lab File ID: REF126 | Matrix : WATER |
| Ext Btch ID: SVD043W | % Moisture : NA |
| Calib. Ref.: RDF015 | Instrument ID : T-OF0 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 10 | 5.1 |
| 1,2-DICHLOROBENZENE | ND | 10 | 5.1 |
| 1,3-DICHLOROBENZENE | ND | 10 | 5.1 |
| 1,4-DICHLOROBENZENE | ND | 10 | 5.1 |
| 2,4,5-TRICHLOROPHENOL | ND | 10 | 5.1 |
| 2,4,6-TRICHLOROPHENOL | ND | 10 | 5.1 |
| 2,4-DICHLOROPHENOL | ND | 10 | 5.1 |
| 2,4-DIMETHYLPHENOL | ND | 10 | 5.1 |
| 2,4-DINITROPHENOL | ND | 21 | 5.1 |
| 2,4-DINITROTOLUENE | ND | 10 | 5.1 |
| 2,6-DINITROTOLUENE | ND | 10 | 5.1 |
| 2-CHLORONAPHTHALENE | ND | 10 | 5.1 |
| 2-CHLOROPHENOL | ND | 10 | 5.1 |
| 2-METHYLNAPHTHALENE | ND | 10 | 5.1 |
| 2-METHYLPHENOL | ND | 10 | 5.1 |
| 2-NITROANILINE | ND | 10 | 5.1 |
| 2-NITROPHENOL | ND | 10 | 5.1 |
| 3,3'-DICHLOROBENZIDINE | ND | 10 | 5.1 |
| 3-NITROANILINE | ND | 10 | 5.1 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 21 | 5.1 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 10 | 5.1 |
| 4-CHLORO-3-METHYLPHENOL | ND | 10 | 5.1 |
| 4-CHLOROANILINE | ND | 10 | 5.1 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 10 | 5.1 |
| 4-METHYLPHENOL (1) | ND | 10 | 5.1 |
| 4-NITROANILINE | ND | 10 | 5.1 |
| 4-NITROPHENOL | ND | 21 | 5.1 |
| ACENAPHTHENE | ND | 10 | 5.1 |
| ACENAPHTHYLENE | ND | 10 | 5.1 |
| ANTHRACENE | ND | 10 | 5.1 |
| BENZO(A)ANTHRACENE | ND | 10 | 5.1 |
| BENZO(A)PYRENE | ND | 10 | 5.1 |
| BENZO(B)FLUORANTHENE | ND | 10 | 5.1 |
| BENZO(K)FLUORANTHENE | ND | 10 | 5.1 |
| BENZO(G,H,I)PERYLENE | ND | 10 | 5.1 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 10 | 5.1 |
| BIS(2-CHLOROETHYL)ETHER | ND | 10 | 5.1 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 10 | 5.1 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 21 | 5.1 |
| BUTYLBENZYLPHTHALATE | ND | 10 | 5.1 |
| CHRYSENE | ND | 10 | 5.1 |
| DI-N-BUTYLPHTHALATE | ND | 10 | 5.1 |
| DI-N-OCTYLPHTHALATE | ND | 10 | 5.1 |
| DIBENZO(A,H)ANTHRACENE | ND | 10 | 5.1 |
| DIBENZOFURAN | ND | 10 | 5.1 |
| DIETHYLPHTHALATE | ND | 10 | 5.1 |
| DIMETHYLPHTHALATE | ND | 10 | 5.1 |
| FLUORANTHENE | ND | 10 | 5.1 |
| FLUORENE | ND | 10 | 5.1 |
| HEXACHLOROBENZENE | ND | 10 | 5.1 |
| HEXACHLOROBUTADIENE | ND | 10 | 5.1 |
| HEXACHLOROCYCLOPENTADIENE | ND | 21 | 5.1 |
| HEXACHLOROETHANE | ND | 10 | 5.1 |
| INDENO(1,2,3-CD)PYRENE | ND | 10 | 5.1 |
| ISOPHORONE | ND | 10 | 5.1 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 10 | 5.1 |
| N-NITROSODIPHENYLAMINE (2) | ND | 10 | 5.1 |
| NAPHTHALENE | ND | 10 | 5.1 |
| NITROBENZENE | ND | 10 | 5.1 |
| PENTACHLOROPHENOL | ND | 21 | 5.1 |
| PHENANTHRENE | ND | 10 | 5.1 |
| PHENOL | ND | 10 | 5.1 |
| PYRENE | ND | 10 | 5.1 |
| BENZYL ALCOHOL | ND | 10 | 5.1 |
| 1-METHYLNAPHTHALENE | ND | 10 | 5.1 |
| 1,2-DIPHENYLHYDRAZINE | ND | 10 | 5.1 |
| 3,5-DIMETHYLPHENOL | ND | 21 | 5.1 |
| ANILINE | ND | 21 | 10 |
| BENZIDINE | ND | 52 | 21 |
| BENZOIC ACID | ND | 41 | 21 |
| CARBAZOLE | ND | 10 | 5.1 |
| N-NITROSODIMETHYLAMINE | ND | 10 | 5.1 |
| TETRALIN | ND | 10 | 10 |
| 2-BUTOXYETHANOL | ND | 10 | 10 |
| 2-PHENOXYETHANOL | ND | 10 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 50.2 | 61.80 | 81.2 | 30-130 |
| 2-FLUOROBIPHENYL | 15.9 | 20.60 | 77.0 | 45-130 |
| 2-FLUOROPHENOL | 45.2 | 61.80 | 73.1 | 20-130 |
| NITROBENZENE-D5 | 19.5 | 20.60 | 94.6 | 40-130 |
| PHENOL-D5 | 52.5 | 61.80 | 84.9 | 20-120 |
| TERPHENYL-D14 | 22.5 | 20.60 | 109 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:00 |
| Sample ID: EB-NBZ-SS-041712 | Date Analyzed: 05/07/12 16:51 |
| Lab Samp ID: D154-02W | Dilution Factor: 1.08 |
| Lab File ID: REF127 | Matrix : WATER |
| Ext Btch ID: SVD043W | % Moisture : NA |
| Calib. Ref.: RDF015 | Instrument ID : T-OF0 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 11 | 5.4 |
| 1,2-DICHLOROBENZENE | ND | 11 | 5.4 |
| 1,3-DICHLOROBENZENE | ND | 11 | 5.4 |
| 1,4-DICHLOROBENZENE | ND | 11 | 5.4 |
| 2,4,5-TRICHLOROPHENOL | ND | 11 | 5.4 |
| 2,4,6-TRICHLOROPHENOL | ND | 11 | 5.4 |
| 2,4-DICHLOROPHENOL | ND | 11 | 5.4 |
| 2,4-DIMETHYLPHENOL | ND | 11 | 5.4 |
| 2,4-DINITROPHENOL | ND | 22 | 5.4 |
| 2,4-DINITROTOLUENE | ND | 11 | 5.4 |
| 2,6-DINITROTOLUENE | ND | 11 | 5.4 |
| 2-CHLORONAPHTHALENE | ND | 11 | 5.4 |
| 2-CHLOROPHENOL | ND | 11 | 5.4 |
| 2-METHYLNAPHTHALENE | ND | 11 | 5.4 |
| 2-METHYLPHENOL | ND | 11 | 5.4 |
| 2-NITROANILINE | ND | 11 | 5.4 |
| 2-NITROPHENOL | ND | 11 | 5.4 |
| 3,3'-DICHLOROBENZIDINE | ND | 11 | 5.4 |
| 3-NITROANILINE | ND | 11 | 5.4 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 22 | 5.4 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 11 | 5.4 |
| 4-CHLORO-3-METHYLPHENOL | ND | 11 | 5.4 |
| 4-CHLOROANILINE | ND | 11 | 5.4 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 11 | 5.4 |
| 4-METHYLPHENOL (1) | ND | 11 | 5.4 |
| 4-NITROANILINE | ND | 11 | 5.4 |
| 4-NITROPHENOL | ND | 22 | 5.4 |
| ACENAPHTHENE | ND | 11 | 5.4 |
| ACENAPHTHYLENE | ND | 11 | 5.4 |
| ANTHRACENE | ND | 11 | 5.4 |
| BENZO(A)ANTHRACENE | ND | 11 | 5.4 |
| BENZO(A)PYRENE | ND | 11 | 5.4 |
| BENZO(B)FLUORANTHENE | ND | 11 | 5.4 |
| BENZO(K)FLUORANTHENE | ND | 11 | 5.4 |
| BENZO(G,H,I)PERYLENE | ND | 11 | 5.4 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 11 | 5.4 |
| BIS(2-CHLOROETHYL)ETHER | ND | 11 | 5.4 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 11 | 5.4 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 22 | 5.4 |
| BUTYLBENZYLPHTHALATE | ND | 11 | 5.4 |
| CHRYSENE | ND | 11 | 5.4 |
| DI-N-BUTYLPHTHALATE | ND | 11 | 5.4 |
| DI-N-OCTYLPHTHALATE | ND | 11 | 5.4 |
| DIBENZO(A,H)ANTHRACENE | ND | 11 | 5.4 |
| DIBENZOFURAN | ND | 11 | 5.4 |
| DIETHYLPHTHALATE | ND | 11 | 5.4 |
| DIMETHYLPHTHALATE | ND | 11 | 5.4 |
| FLUORANTHENE | ND | 11 | 5.4 |
| FLUORENE | ND | 11 | 5.4 |
| HEXACHLOROBENZENE | ND | 11 | 5.4 |
| HEXACHLOROBUTADIENE | ND | 11 | 5.4 |
| HEXACHLOROCYCLOPENTADIENE | ND | 22 | 5.4 |
| HEXACHLOROETHANE | ND | 11 | 5.4 |
| INDENO(1,2,3-CD)PYRENE | ND | 11 | 5.4 |
| ISOPHORONE | ND | 11 | 5.4 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 11 | 5.4 |
| N-NITROSODIPHENYLAMINE (2) | ND | 11 | 5.4 |
| NAPHTHALENE | ND | 11 | 5.4 |
| NITROBENZENE | ND | 11 | 5.4 |
| PENTACHLOROPHENOL | ND | 22 | 5.4 |
| PHENANTHRENE | ND | 11 | 5.4 |
| PHENOL | ND | 11 | 5.4 |
| PYRENE | ND | 11 | 5.4 |
| BENZYL ALCOHOL | ND | 11 | 5.4 |
| 1-METHYLNAPHTHALENE | ND | 11 | 5.4 |
| 1,2-DIPHENYLHYDRAZINE | ND | 11 | 5.4 |
| 3,5-DIMETHYLPHENOL | ND | 22 | 5.4 |
| ANILINE | ND | 22 | 11 |
| BENZIDINE | ND | 54 | 22 |
| BENZOIC ACID | ND | 43 | 22 |
| CARBAZOLE | ND | 11 | 5.4 |
| N-NITROSODIMETHYLAMINE | ND | 11 | 5.4 |
| TETRALIN | ND | 11 | 11 |
| 2-BUTOXYETHANOL | ND | 11 | 11 |
| 2-PHENOXYETHANOL | ND | 11 | 11 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 46.9 | 64.80 | 72.4 | 30-130 |
| 2-FLUOROBIPHENYL | 13.3 | 21.60 | 61.6 | 45-130 |
| 2-FLUOROPHENOL | 38.4 | 64.80 | 59.3 | 20-130 |
| NITROBENZENE-D5 | 17.2 | 21.60 | 79.7 | 40-130 |
| PHENOL-D5 | 45.9 | 64.80 | 70.9 | 20-120 |
| TERPHENYL-D14 | 19.5 | 21.60 | 90.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:00 |
| Sample ID: MBLK1W | Date Analyzed: 05/07/12 15:14 |
| Lab Samp ID: SVD043WQ | Dilution Factor: 1 |
| Lab File ID: REF123 | Matrix : WATER |
| Ext Btch ID: SVD043W | % Moisture : NA |
| Calib. Ref.: RDF015 | Instrument ID : T-OF0 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 10 | 5.0 |
| 1,2-DICHLOROBENZENE | ND | 10 | 5.0 |
| 1,3-DICHLOROBENZENE | ND | 10 | 5.0 |
| 1,4-DICHLOROBENZENE | ND | 10 | 5.0 |
| 2,4,5-TRICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4,6-TRICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4-DICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4-DIMETHYLPHENOL | ND | 10 | 5.0 |
| 2,4-DINITROPHENOL | ND | 20 | 5.0 |
| 2,4-DINITROTOLUENE | ND | 10 | 5.0 |
| 2,6-DINITROTOLUENE | ND | 10 | 5.0 |
| 2-CHLORONAPHTHALENE | ND | 10 | 5.0 |
| 2-CHLOROPHENOL | ND | 10 | 5.0 |
| 2-METHYLNAPHTHALENE | ND | 10 | 5.0 |
| 2-METHYLPHENOL | ND | 10 | 5.0 |
| 2-NITROANILINE | ND | 10 | 5.0 |
| 2-NITROPHENOL | ND | 10 | 5.0 |
| 3,3'-DICHLOROBENZIDINE | ND | 10 | 5.0 |
| 3-NITROANILINE | ND | 10 | 5.0 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 20 | 5.0 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 10 | 5.0 |
| 4-CHLORO-3-METHYLPHENOL | ND | 10 | 5.0 |
| 4-CHLOROANILINE | ND | 10 | 5.0 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 10 | 5.0 |
| 4-METHYLPHENOL (1) | ND | 10 | 5.0 |
| 4-NITROANILINE | ND | 10 | 5.0 |
| 4-NITROPHENOL | ND | 20 | 5.0 |
| ACENAPHTHENE | ND | 10 | 5.0 |
| ACENAPHTHYLENE | ND | 10 | 5.0 |
| ANTHRACENE | ND | 10 | 5.0 |
| BENZO(A)ANTHRACENE | ND | 10 | 5.0 |
| BENZO(A)PYRENE | ND | 10 | 5.0 |
| BENZO(B)FLUORANTHENE | ND | 10 | 5.0 |
| BENZO(K)FLUORANTHENE | ND | 10 | 5.0 |
| BENZO(G,H,I)PERYLENE | ND | 10 | 5.0 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 10 | 5.0 |
| BIS(2-CHLOROETHYL)ETHER | ND | 10 | 5.0 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 10 | 5.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 20 | 5.0 |
| BUTYLBENZYLPHTHALATE | ND | 10 | 5.0 |
| CHRYSENE | ND | 10 | 5.0 |
| DI-N-BUTYLPHTHALATE | ND | 10 | 5.0 |
| DI-N-OCTYLPHTHALATE | ND | 10 | 5.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 10 | 5.0 |
| DIBENZOFURAN | ND | 10 | 5.0 |
| DIETHYLPHTHALATE | ND | 10 | 5.0 |
| DIMETHYLPHTHALATE | ND | 10 | 5.0 |
| FLUORANTHENE | ND | 10 | 5.0 |
| FLUORENE | ND | 10 | 5.0 |
| HEXACHLOROBENZENE | ND | 10 | 5.0 |
| HEXACHLOROBUTADIENE | ND | 10 | 5.0 |
| HEXACHLOROCYCLOPENTADIENE | ND | 20 | 5.0 |
| HEXACHLOROETHANE | ND | 10 | 5.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 10 | 5.0 |
| ISOPHORONE | ND | 10 | 5.0 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 10 | 5.0 |
| N-NITROSODIPHENYLAMINE (2) | ND | 10 | 5.0 |
| NAPHTHALENE | ND | 10 | 5.0 |
| NITROBENZENE | ND | 10 | 5.0 |
| PENTACHLOROPHENOL | ND | 20 | 5.0 |
| PHENANTHRENE | ND | 10 | 5.0 |
| PHENOL | ND | 10 | 5.0 |
| PYRENE | ND | 10 | 5.0 |
| BENZYL ALCOHOL | ND | 10 | 5.0 |
| 1-METHYLNAPHTHALENE | ND | 10 | 5.0 |
| 1,2-DIPHENYLHYDRAZINE | ND | 10 | 5.0 |
| 3,5-DIMETHYLPHENOL | ND | 20 | 5.0 |
| ANILINE | ND | 20 | 10 |
| BENZIDINE | ND | 50 | 20 |
| BENZOIC ACID | ND | 40 | 20 |
| CARBAZOLE | ND | 10 | 5.0 |
| N-NITROSODIMETHYLAMINE | ND | 10 | 5.0 |
| TETRALIN | ND | 10 | 10 |
| 2-BUTOXYETHANOL | ND | 10 | 10 |
| 2-PHENOXYETHANOL | ND | 10 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 45.6 | 60.00 | 76.0 | 30-130 |
| 2-FLUOROBIPHENYL | 14.1 | 20.00 | 70.4 | 45-130 |
| 2-FLUOROPHENOL | 42.7 | 60.00 | 71.2 | 20-130 |
| NITROBENZENE-D5 | 19.1 | 20.00 | 95.3 | 40-130 |
| PHENOL-D5 | 48.2 | 60.00 | 80.4 | 20-120 |
| TERPHENYL-D14 | 22.0 | 20.00 | 110 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 3520C/8270C

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: SVD043WQ SVD043WX SVD043WY
LAB FILE ID: REF123 REF124 REF125
DATE EXTRACTED: 04/23/1215:00 04/23/1215:00 04/23/1215:00 DATE COLLECTED: NA
DATE ANALYZED: 05/07/1215:14 05/07/1215:37 05/07/1216:01 DATE RECEIVED: 04/23/12
PREP. BATCH: SVD043W SVD043W SVD043W
CALIB. REF: RDF015 RDF015 RDF015

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 40.0 | 26.0 | 65 | 40.0 | 27.1 | 68 | 4 | 30-130 | 30 |
| 1,2-Dichlorobenzene | ND | 40.0 | 28.1 | 70 | 40.0 | 32.0 | 80 | 13 | 30-130 | 30 |
| 1,3-Dichlorobenzene | ND | 40.0 | 28.5 | 71 | 40.0 | 30.1 | 75 | 6 | 30-130 | 30 |
| 1,4-Dichlorobenzene | ND | 40.0 | 27.6 | 69 | 40.0 | 31.5 | 79 | 13 | 30-130 | 30 |
| 2,4,5-Trichlorophenol | ND | 40.0 | 26.0 | 65 | 40.0 | 27.4 | 68 | 5 | 30-130 | 30 |
| 2,4,6-Trichlorophenol | ND | 40.0 | 29.0 | 72 | 40.0 | 30.6 | 77 | 5 | 30-130 | 30 |
| 2,4-Dichlorophenol | ND | 40.0 | 28.7 | 72 | 40.0 | 30.6 | 76 | 6 | 40-130 | 30 |
| 2,4-Dimethylphenol | ND | 40.0 | 31.3 | 78 | 40.0 | 34.8 | 87 | 11 | 30-130 | 30 |
| 2,4-Dinitrophenol | ND | 40.0 | 32.0 | 80 | 40.0 | 29.5 | 74 | 8 | 30-130 | 30 |
| 2,4-Dinitrotoluene | ND | 40.0 | 41.8 | 105 | 40.0 | 38.2 | 95 | 9 | 40-130 | 30 |
| 2,6-Dinitrotoluene | ND | 40.0 | 41.5 | 104 | 40.0 | 39.4 | 98 | 5 | 40-130 | 30 |
| 2-Chloronaphthalene | ND | 40.0 | 26.7 | 67 | 40.0 | 31.7 | 79 | 17 | 40-130 | 30 |
| 2-Chlorophenol | ND | 40.0 | 27.6 | 69 | 40.0 | 31.3 | 78 | 13 | 30-130 | 30 |
| 2-Methylnaphthalene | ND | 40.0 | 32.8 | 82 | 40.0 | 37.1 | 93 | 12 | 40-130 | 30 |
| 2-Methylphenol | ND | 40.0 | 27.8 | 70 | 40.0 | 29.7 | 74 | 6 | 30-130 | 30 |
| 2-Nitroaniline | ND | 40.0 | 35.2 | 88 | 40.0 | 35.3 | 88 | 0 | 40-130 | 30 |
| 2-Nitrophenol | ND | 40.0 | 31.4 | 78 | 40.0 | 32.5 | 81 | 3 | 40-130 | 30 |
| 3,3'-Dichlorobenzidine | ND | 40.0 | 39.6 | 99 | 40.0 | 34.6 | 87 | 14 | 20-140 | 30 |
| 3-Nitroaniline | ND | 40.0 | 38.9 | 97 | 40.0 | 36.8 | 92 | 5 | 30-130 | 30 |
| 4,6-Dinitro-2-Methylphenol | ND | 40.0 | 36.9 | 92 | 40.0 | 33.2 | 83 | 10 | 40-130 | 30 |
| 4-Bromophenyl-phenylether | ND | 40.0 | 44.5 | 111 | 40.0 | 37.9 | 95 | 16 | 50-130 | 30 |
| 4-Chloro-3-Methylphenol | ND | 40.0 | 33.8 | 85 | 40.0 | 35.5 | 89 | 5 | 30-130 | 30 |
| 4-Chloroaniline | ND | 40.0 | 28.0 | 70 | 40.0 | 26.9 | 67 | 4 | 30-130 | 30 |
| 4-Chlorophenyl-phenylether | ND | 40.0 | 33.7 | 84 | 40.0 | 34.1 | 85 | 1 | 50-130 | 30 |
| 4-Methylphenol | ND | 40.0 | 27.9 | 70 | 40.0 | 31.1 | 78 | 11 | 30-130 | 30 |
| 4-Nitroaniline | ND | 40.0 | 40.4 | 101 | 40.0 | 34.3 | 86 | 16 | 30-130 | 30 |
| 4-Nitrophenol | ND | 40.0 | 36.0 | 90 | 40.0 | 32.9 | 82 | 9 | 30-130 | 30 |
| Acenaphthene | ND | 40.0 | 32.9 | 82 | 40.0 | 34.8 | 87 | 6 | 40-130 | 30 |
| Acenaphthylene | ND | 40.0 | 32.1 | 80 | 40.0 | 34.1 | 85 | 6 | 40-130 | 30 |
| Anthracene | ND | 40.0 | 41.2 | 103 | 40.0 | 36.9 | 92 | 11 | 50-130 | 30 |
| Benzo(a)anthracene | ND | 40.0 | 43.4 | 108 | 40.0 | 39.4 | 98 | 10 | 50-130 | 30 |
| Benzo(a)pyrene | ND | 40.0 | 42.2 | 106 | 40.0 | 36.9 | 92 | 13 | 50-130 | 30 |
| Benzo(b)fluoranthene | ND | 40.0 | 47.1 | 118 | 40.0 | 43.0 | 108 | 9 | 40-140 | 30 |
| Benzo(k)fluoranthene | ND | 40.0 | 40.8 | 102 | 40.0 | 38.0 | 95 | 7 | 40-130 | 30 |
| Benzo(g,h,i)perylene | ND | 40.0 | 49.2 | 123 | 40.0 | 43.8 | 110 | 12 | 40-130 | 30 |
| bis(2-Chloroethoxy)methane | ND | 40.0 | 34.5 | 86 | 40.0 | 35.3 | 88 | 2 | 40-130 | 30 |
| bis(2-Chloroethyl)ether | ND | 40.0 | 35.9 | 90 | 40.0 | 39.8 | 100 | 10 | 30-130 | 30 |
| bis(2-Chloroisopropyl)ether | ND | 40.0 | 35.0 | 87 | 40.0 | 39.6 | 99 | 12 | 20-130 | 30 |
| bis(2-Ethylhexyl)phthalate | ND | 40.0 | 42.1 | 105 | 40.0 | 38.2 | 96 | 10 | 20-140 | 30 |
| Butylbenzylphthalate | ND | 40.0 | 40.9 | 102 | 40.0 | 38.7 | 97 | 5 | 40-130 | 30 |
| Chrysene | ND | 40.0 | 43.7 | 109 | 40.0 | 40.7 | 102 | 7 | 40-130 | 30 |
| Di-n-butylphthalate | ND | 40.0 | 43.2 | 108 | 40.0 | 39.3 | 98 | 9 | 30-160 | 30 |
| Di-n-octylphthalate | ND | 40.0 | 39.1 | 98 | 40.0 | 35.7 | 89 | 9 | 20-150 | 30 |
| Dibenzo(a,h)anthracene | ND | 40.0 | 47.2 | 118 | 40.0 | 43.3 | 108 | 8 | 40-130 | 30 |
| Dibenzofuran | ND | 40.0 | 33.3 | 83 | 40.0 | 35.5 | 89 | 6 | 40-130 | 30 |
| Diethylphthalate | ND | 40.0 | 41.0 | 103 | 40.0 | 36.9 | 92 | 11 | 30-140 | 30 |
| Dimethylphthalate | ND | 40.0 | 36.9 | 92 | 40.0 | 35.2 | 88 | 5 | 30-130 | 30 |
| Fluoranthene | ND | 40.0 | 42.4 | 106 | 40.0 | 35.6 | 89 | 18 | 40-130 | 30 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 40.0 | 37.1 | 93 | 40.0 | 38.2 | 95 | 3 | 40-130 | 30 |
| Hexachlorobenzene | ND | 40.0 | 40.5 | 101 | 40.0 | 38.8 | 97 | 4 | 30-130 | 30 |
| Hexachlorobutadiene | ND | 40.0 | 28.1 | 70 | 40.0 | 30.5 | 76 | 8 | 10-130 | 30 |
| Hexachlorocyclopentadiene | ND | 40.0 | 19.4J | 49 | 40.0 | 22.1 | 55 | 13 | 10-130 | 30 |
| Hexachloroethane | ND | 40.0 | 29.2 | 73 | 40.0 | 32.5 | 81 | 11 | 20-130 | 30 |
| Indeno(1,2,3-cd)pyrene | ND | 40.0 | 46.6 | 117 | 40.0 | 42.5 | 106 | 9 | 50-130 | 30 |
| Isophorone | ND | 40.0 | 37.5 | 94 | 40.0 | 40.3 | 101 | 7 | 40-130 | 30 |
| n-Nitroso-di-n-propylamine | ND | 40.0 | 29.1 | 73 | 40.0 | 32.4 | 81 | 11 | 30-130 | 30 |
| n-Nitrosodiphenylamine | ND | 40.0 | 30.2 | 75 | 40.0 | 29.0 | 72 | 4 | 10-150 | 30 |
| Naphthalene | ND | 40.0 | 33.2 | 83 | 40.0 | 31.6 | 79 | 5 | 20-130 | 30 |
| Nitrobenzene | ND | 40.0 | 43.3 | 108 | 40.0 | 43.9 | 110 | 1 | 30-130 | 30 |
| Pentachlorophenol | ND | 40.0 | 40.2 | 100 | 40.0 | 36.8 | 92 | 9 | 30-130 | 30 |
| Phenanthrene | ND | 40.0 | 45.0 | 113 | 40.0 | 39.6 | 99 | 13 | 40-130 | 30 |
| Phenol | ND | 40.0 | 32.6 | 82 | 40.0 | 36.1 | 90 | 10 | 20-130 | 30 |
| Pyrene | ND | 40.0 | 40.3 | 101 | 40.0 | 37.7 | 94 | 7 | 40-130 | 30 |
| Benzyl Alcohol | ND | 40.0 | 31.0 | 77 | 40.0 | 34.9 | 87 | 12 | 30-130 | 30 |
| 1-Methylnaphthalene | ND | 40.0 | 34.5 | 86 | 40.0 | 37.3 | 93 | 8 | 40-130 | 30 |
| 1,2-Diphenylhydrazine | ND | 40.0 | 50.2 | 126 | 40.0 | 47.6 | 119 | 5 | 30-130 | 30 |
| 3,5-Dimethylphenol | ND | 40.0 | 29.1 | 73 | 40.0 | 31.0 | 78 | 7 | 20-150 | 30 |
| Aniline | ND | 40.0 | 25.3 | 63 | 40.0 | 25.7 | 64 | 1 | 10-130 | 30 |
| Benzidine | ND | 80.0 | 44.6 | 56 | 80.0 | ND | 0* | 0* | 20-130 | 30 |
| Benzoic Acid | ND | 80.0 | 42.0 | 53 | 80.0 | 52.9 | 66 | 23 | 10-130 | 30 |
| Carbazole | ND | 40.0 | 42.8 | 107 | 40.0 | 37.2 | 93 | 14 | 50-130 | 30 |
| N-Nitrosodimethylamine | ND | 40.0 | 39.6 | 99 | 40.0 | 39.9 | 100 | 1 | 30-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 60.0 | 52.5 | 87 | 60.0 | 49.8 | 83 | 30-130 |
| 2-Fluorobiphenyl | 20.0 | 11.4 | 57 | 20.0 | 13.6 | 68 | 45-130 |
| 2-Fluorophenol | 60.0 | 36.2 | 60 | 60.0 | 40.3 | 67 | 20-130 |
| Nitrobenzene-d5 | 20.0 | 16.5 | 83 | 20.0 | 17.0 | 85 | 40-130 |
| Phenol-d5 | 60.0 | 46.2 | 77 | 60.0 | 47.7 | 80 | 20-120 |
| Terphenyl-d14 | 20.0 | 19.4 | 97 | 20.0 | 18.5 | 92 | 45-135 |

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:03 |
| Sample ID: SL-014-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 13:52 |
| Lab Samp ID: D154-03 | Dilution Factor: 1 |
| Lab File ID: RDJ434 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 20.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 210 | 110 |
| 1,2-DICHLOROBENZENE | ND | 210 | 110 |
| 1,3-DICHLOROBENZENE | ND | 210 | 110 |
| 1,4-DICHLOROBENZENE | ND | 210 | 110 |
| 2,4,5-TRICHLOROPHENOL | ND | 210 | 110 |
| 2,4,6-TRICHLOROPHENOL | ND | 210 | 110 |
| 2,4-DICHLOROPHENOL | ND | 210 | 110 |
| 2,4-DIMETHYLPHENOL | ND | 210 | 110 |
| 2,4-DINITROPHENOL | ND | 420 | 210 |
| 2,4-DINITROTOLUENE | ND | 210 | 110 |
| 2,6-DINITROTOLUENE | ND | 210 | 110 |
| 2-CHLORONAPHTHALENE | ND | 210 | 110 |
| 2-CHLOROPHENOL | ND | 210 | 110 |
| 2-METHYLNAPHTHALENE | ND | 210 | 110 |
| 2-METHYLPHENOL | ND | 210 | 110 |
| 2-NITROANILINE | ND | 210 | 110 |
| 2-NITROPHENOL | ND | 210 | 110 |
| 3,3'-DICHLOROBENZIDINE | ND | 210 | 110 |
| 3-NITROANILINE | ND | 210 | 110 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 420 | 210 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 210 | 110 |
| 4-CHLORO-3-METHYLPHENOL | ND | 210 | 110 |
| 4-CHLOROANILINE | ND | 210 | 110 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 210 | 110 |
| 4-METHYLPHENOL (1) | ND | 210 | 110 |
| 4-NITROANILINE | ND | 210 | 110 |
| 4-NITROPHENOL | ND | 420 | 210 |
| ACENAPHTHENE | ND | 210 | 110 |
| ACENAPHTHYLENE | ND | 210 | 110 |
| ANTHRACENE | ND | 210 | 110 |
| BENZO(A)ANTHRACENE | ND | 210 | 110 |
| BENZO(A)PYRENE | ND | 210 | 110 |
| BENZO(B)FLUORANTHENE | ND | 210 | 110 |
| BENZO(K)FLUORANTHENE | ND | 210 | 110 |
| BENZO(G,H,I)PERYLENE | ND | 210 | 110 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 210 | 110 |
| BIS(2-CHLOROETHYL)ETHER | ND | 210 | 110 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 210 | 110 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 210 | 110 |
| BUTYLBENZYLPHTHALATE | ND | 210 | 110 |
| CHRYSENE | ND | 210 | 110 |
| DI-N-BUTYLPHTHALATE | ND | 210 | 110 |
| DI-N-OCTYLPHTHALATE | ND | 210 | 110 |
| DIBENZO(A,H)ANTHRACENE | ND | 210 | 110 |
| DIBENZOFURAN | ND | 210 | 110 |
| DIETHYLPHTHALATE | ND | 210 | 110 |
| DIMETHYLPHTHALATE | ND | 210 | 110 |
| FLUORANTHENE | ND | 210 | 110 |
| FLUORENE | ND | 210 | 110 |
| HEXACHLOROBENZENE | ND | 210 | 110 |
| HEXACHLOROBUTADIENE | ND | 210 | 110 |
| HEXACHLOROCYCLOPENTADIENE | ND | 210 | 110 |
| HEXACHLOROETHANE | ND | 210 | 110 |
| INDENO(1,2,3-CD)PYRENE | ND | 210 | 110 |
| ISOPHORONE | ND | 210 | 110 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 210 | 110 |
| N-NITROSODIPHENYLAMINE (2) | ND | 210 | 110 |
| NAPHTHALENE | ND | 210 | 110 |
| NITROBENZENE | ND | 210 | 110 |
| PENTACHLOROPHENOL | ND | 420 | 210 |
| PHENANTHRENE | ND | 210 | 110 |
| PHENOL | ND | 210 | 110 |
| PYRENE | ND | 210 | 110 |
| BENZYL ALCOHOL | ND | 210 | 110 |
| 1-METHYLNAPHTHALENE | ND | 210 | 110 |
| 1,2-DIPHENYLHYDRAZINE | ND | 210 | 110 |
| 3,5-DIMETHYLPHENOL | ND | 210 | 110 |
| ANILINE | ND | 420 | 210 |
| BENZIDINE | ND | 1000 | 530 |
| BENZOIC ACID | ND | 840 | 420 |
| CARBAZOLE | ND | 210 | 110 |
| N-NITROSODIMETHYLAMINE | ND | 210 | 110 |
| TETRALIN | ND | 210 | 210 |
| 2-BUTOXYETHANOL | ND | 210 | 210 |
| 2-PHENOXYETHANOL | ND | 210 | 210 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 984 | 1255 | 78.4 | 35-130 |
| 2-FLUOROBIPHENYL | 232 | 418.2 | 55.4 | 45-130 |
| 2-FLUOROPHENOL | 757 | 1255 | 60.4 | 25-130 |
| NITROBENZENE-D5 | 273 | 418.2 | 65.2 | 40-130 |
| PHENOL-D5 | 792 | 1255 | 63.2 | 25-120 |
| TERPHENYL-D14 | 333 | 418.2 | 79.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:03 |
| Sample ID: SL-088-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 14:13 |
| Lab Samp ID: D154-04 | Dilution Factor: 1 |
| Lab File ID: RDJ435 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 23.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 220 | 110 |
| 1,2-DICHLOROBENZENE | ND | 220 | 110 |
| 1,3-DICHLOROBENZENE | ND | 220 | 110 |
| 1,4-DICHLOROBENZENE | ND | 220 | 110 |
| 2,4,5-TRICHLOROPHENOL | ND | 220 | 110 |
| 2,4,6-TRICHLOROPHENOL | ND | 220 | 110 |
| 2,4-DICHLOROPHENOL | ND | 220 | 110 |
| 2,4-DIMETHYLPHENOL | ND | 220 | 110 |
| 2,4-DINITROPHENOL | ND | 440 | 220 |
| 2,4-DINITROTOLUENE | ND | 220 | 110 |
| 2,6-DINITROTOLUENE | ND | 220 | 110 |
| 2-CHLORONAPHTHALENE | ND | 220 | 110 |
| 2-CHLOROPHENOL | ND | 220 | 110 |
| 2-METHYLNAPHTHALENE | ND | 220 | 110 |
| 2-METHYLPHENOL | ND | 220 | 110 |
| 2-NITROANILINE | ND | 220 | 110 |
| 2-NITROPHENOL | ND | 220 | 110 |
| 3,3'-DICHLOROBENZIDINE | ND | 220 | 110 |
| 3-NITROANILINE | ND | 220 | 110 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 440 | 220 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 220 | 110 |
| 4-CHLORO-3-METHYLPHENOL | ND | 220 | 110 |
| 4-CHLOROANILINE | ND | 220 | 110 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 220 | 110 |
| 4-METHYLPHENOL (1) | ND | 220 | 110 |
| 4-NITROANILINE | ND | 220 | 110 |
| 4-NITROPHENOL | ND | 440 | 220 |
| ACENAPHTHENE | ND | 220 | 110 |
| ACENAPHTHYLENE | ND | 220 | 110 |
| ANTHRACENE | ND | 220 | 110 |
| BENZO(A)ANTHRACENE | ND | 220 | 110 |
| BENZO(A)PYRENE | ND | 220 | 110 |
| BENZO(B)FLUORANTHENE | ND | 220 | 110 |
| BENZO(K)FLUORANTHENE | ND | 220 | 110 |
| BENZO(G,H,I)PERYLENE | ND | 220 | 110 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 220 | 110 |
| BIS(2-CHLOROETHYL)ETHER | ND | 220 | 110 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 220 | 110 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 220 | 110 |
| BUTYLBENZYLPHTHALATE | ND | 220 | 110 |
| CHRYSENE | ND | 220 | 110 |
| DI-N-BUTYLPHTHALATE | ND | 220 | 110 |
| DI-N-OCTYLPHTHALATE | ND | 220 | 110 |
| DIBENZO(A,H)ANTHRACENE | ND | 220 | 110 |
| DIBENZOFURAN | ND | 220 | 110 |
| DIETHYLPHTHALATE | ND | 220 | 110 |
| DIMETHYLPHTHALATE | ND | 220 | 110 |
| FLUORANTHENE | ND | 220 | 110 |
| FLUORENE | ND | 220 | 110 |
| HEXACHLOROBENZENE | ND | 220 | 110 |
| HEXACHLOROBUTADIENE | ND | 220 | 110 |
| HEXACHLOROCYCLOPENTADIENE | ND | 220 | 110 |
| HEXACHLOROETHANE | ND | 220 | 110 |
| INDENO(1,2,3-CD)PYRENE | ND | 220 | 110 |
| ISOPHORONE | ND | 220 | 110 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 220 | 110 |
| N-NITROSODIPHENYLAMINE (2) | ND | 220 | 110 |
| NAPHTHALENE | ND | 220 | 110 |
| NITROBENZENE | ND | 220 | 110 |
| PENTACHLOROPHENOL | ND | 440 | 220 |
| PHENANTHRENE | ND | 220 | 110 |
| PHENOL | ND | 220 | 110 |
| PYRENE | ND | 220 | 110 |
| BENZYL ALCOHOL | ND | 220 | 110 |
| 1-METHYLNAPHTHALENE | ND | 220 | 110 |
| 1,2-DIPHENYLHYDRAZINE | ND | 220 | 110 |
| 3,5-DIMETHYLPHENOL | ND | 220 | 110 |
| ANILINE | ND | 440 | 220 |
| BENZIDINE | ND | 1100 | 550 |
| BENZOIC ACID | ND | 870 | 440 |
| CARBAZOLE | ND | 220 | 110 |
| N-NITROSODIMETHYLAMINE | ND | 220 | 110 |
| TETRALIN | ND | 220 | 220 |
| 2-BUTOXYETHANOL | ND | 220 | 220 |
| 2-PHENOXYETHANOL | ND | 220 | 220 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1250 | 1309 | 95.4 | 35-130 |
| 2-FLUOROBIPHENYL | 261 | 436.3 | 59.8 | 45-130 |
| 2-FLUOROPHENOL | 781 | 1309 | 59.6 | 25-130 |
| NITROBENZENE-D5 | 283 | 436.3 | 64.9 | 40-130 |
| PHENOL-D5 | 882 | 1309 | 67.4 | 25-120 |
| TERPHENYL-D14 | 409 | 436.3 | 93.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:03 |
| Sample ID: SL-090-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 14:33 |
| Lab Samp ID: D154-05 | Dilution Factor: 1 |
| Lab File ID: RDJ436 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 13.9 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 98 |
| 1,2-DICHLOROBENZENE | ND | 190 | 98 |
| 1,3-DICHLOROBENZENE | ND | 190 | 98 |
| 1,4-DICHLOROBENZENE | ND | 190 | 98 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 98 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 98 |
| 2,4-DICHLOROPHENOL | ND | 190 | 98 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 98 |
| 2,4-DINITROPHENOL | ND | 390 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 98 |
| 2,6-DINITROTOLUENE | ND | 190 | 98 |
| 2-CHLORONAPHTHALENE | ND | 190 | 98 |
| 2-CHLOROPHENOL | ND | 190 | 98 |
| 2-METHYLNAPHTHALENE | ND | 190 | 98 |
| 2-METHYLPHENOL | ND | 190 | 98 |
| 2-NITROANILINE | ND | 190 | 98 |
| 2-NITROPHENOL | ND | 190 | 98 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 98 |
| 3-NITROANILINE | ND | 190 | 98 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 98 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 98 |
| 4-CHLOROANILINE | ND | 190 | 98 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 98 |
| 4-METHYLPHENOL (1) | ND | 190 | 98 |
| 4-NITROANILINE | ND | 190 | 98 |
| 4-NITROPHENOL | ND | 390 | 190 |
| ACENAPHTHENE | ND | 190 | 98 |
| ACENAPHTHYLENE | ND | 190 | 98 |
| ANTHRACENE | ND | 190 | 98 |
| BENZO(A)ANTHRACENE | ND | 190 | 98 |
| BENZO(A)PYRENE | ND | 190 | 98 |
| BENZO(B)FLUORANTHENE | ND | 190 | 98 |
| BENZO(K)FLUORANTHENE | ND | 190 | 98 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 98 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 98 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 98 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 98 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 98 |
| CHRYSENE | ND | 190 | 98 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 98 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 98 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 98 |
| DIBENZOFURAN | ND | 190 | 98 |
| DIETHYLPHTHALATE | ND | 190 | 98 |
| DIMETHYLPHTHALATE | ND | 190 | 98 |
| FLUORANTHENE | ND | 190 | 98 |
| FLUORENE | ND | 190 | 98 |
| HEXACHLOROBENZENE | ND | 190 | 98 |
| HEXACHLOROBUTADIENE | ND | 190 | 98 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 98 |
| HEXACHLOROETHANE | ND | 190 | 98 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 98 |
| ISOPHORONE | ND | 190 | 98 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 98 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 98 |
| NAPHTHALENE | ND | 190 | 98 |
| NITROBENZENE | ND | 190 | 98 |
| PENTACHLOROPHENOL | ND | 390 | 190 |
| PHENANTHRENE | ND | 190 | 98 |
| PHENOL | ND | 190 | 98 |
| PYRENE | ND | 190 | 98 |
| BENZYL ALCOHOL | ND | 190 | 98 |
| 1-METHYLNAPHTHALENE | ND | 190 | 98 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 98 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 98 |
| ANILINE | ND | 390 | 190 |
| BENZIDINE | ND | 960 | 490 |
| BENZOIC ACID | ND | 770 | 390 |
| CARBAZOLE | ND | 190 | 98 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 98 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1030 | 1161 | 88.6 | 35-130 |
| 2-FLUOROBIPHENYL | 244 | 387.1 | 63.0 | 45-130 |
| 2-FLUOROPHENOL | 648 | 1161 | 55.8 | 25-130 |
| NITROBENZENE-D5 | 256 | 387.1 | 66.0 | 40-130 |
| PHENOL-D5 | 753 | 1161 | 64.8 | 25-120 |
| TERPHENYL-D14 | 349 | 387.1 | 90.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:03 |
| Sample ID: SL-147-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 13:52 |
| Lab Samp ID: D154-06 | Dilution Factor: 1 |
| Lab File ID: REL061 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 13.4 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 97 |
| 1,2-DICHLOROBENZENE | ND | 190 | 97 |
| 1,3-DICHLOROBENZENE | ND | 190 | 97 |
| 1,4-DICHLOROBENZENE | ND | 190 | 97 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 97 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 97 |
| 2,6-DINITROTOLUENE | ND | 190 | 97 |
| 2-CHLORONAPHTHALENE | ND | 190 | 97 |
| 2-CHLOROPHENOL | ND | 190 | 97 |
| 2-METHYLNAPHTHALENE | ND | 190 | 97 |
| 2-METHYLPHENOL | ND | 190 | 97 |
| 2-NITROANILINE | ND | 190 | 97 |
| 2-NITROPHENOL | ND | 190 | 97 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 97 |
| 3-NITROANILINE | ND | 190 | 97 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 97 |
| 4-CHLOROANILINE | ND | 190 | 97 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-METHYLPHENOL (1) | ND | 190 | 97 |
| 4-NITROANILINE | ND | 190 | 97 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 97 |
| ACENAPHTHYLENE | ND | 190 | 97 |
| ANTHRACENE | ND | 190 | 97 |
| BENZO(A)ANTHRACENE | ND | 190 | 97 |
| BENZO(A)PYRENE | ND | 190 | 97 |
| BENZO(B)FLUORANTHENE | ND | 190 | 97 |
| BENZO(K)FLUORANTHENE | ND | 190 | 97 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 97 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 97 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 97 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 97 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 97 |
| CHRYSENE | ND | 190 | 97 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 97 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 97 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 97 |
| DIBENZOFURAN | ND | 190 | 97 |
| DIETHYLPHTHALATE | ND | 190 | 97 |
| DIMETHYLPHTHALATE | ND | 190 | 97 |
| FLUORANTHENE | ND | 190 | 97 |
| FLUORENE | ND | 190 | 97 |
| HEXACHLOROBENZENE | ND | 190 | 97 |
| HEXACHLOROBUTADIENE | ND | 190 | 97 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 97 |
| HEXACHLOROETHANE | ND | 190 | 97 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 97 |
| ISOPHORONE | ND | 190 | 97 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 97 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 97 |
| NAPHTHALENE | ND | 190 | 97 |
| NITROBENZENE | ND | 190 | 97 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 97 |
| PHENOL | ND | 190 | 97 |
| PYRENE | ND | 190 | 97 |
| BENZYL ALCOHOL | ND | 190 | 97 |
| 1-METHYLNAPHTHALENE | ND | 190 | 97 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 97 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 97 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 960 | 480 |
| BENZOIC ACID | ND | 770 | 390 |
| CARBAZOLE | ND | 190 | 97 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 97 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 890 | 1155 | 77.1 | 35-130 |
| 2-FLUOROBIPHENYL | 334 | 384.9 | 86.9 | 45-130 |
| 2-FLUOROPHENOL | 775 | 1155 | 67.1 | 25-130 |
| NITROBENZENE-D5 | 259 | 384.9 | 67.4 | 40-130 |
| PHENOL-D5 | 830 | 1155 | 71.9 | 25-120 |
| TERPHENYL-D14 | 433 | 384.9 | 113 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:03 |
| Sample ID: SL-156-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 14:18 |
| Lab Samp ID: D154-07 | Dilution Factor: 1 |
| Lab File ID: REL062 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 17.2 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 400 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 400 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 400 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 400 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 400 | 200 |
| BENZIDINE | ND | 1000 | 510 |
| BENZOIC ACID | ND | 810 | 400 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 946 | 1208 | 78.3 | 35-130 |
| 2-FLUOROBIPHENYL | 344 | 402.5 | 85.5 | 45-130 |
| 2-FLUOROPHENOL | 892 | 1208 | 73.8 | 25-130 |
| NITROBENZENE-D5 | 274 | 402.5 | 68.0 | 40-130 |
| PHENOL-D5 | 914 | 1208 | 75.7 | 25-120 |
| TERPHENYL-D14 | 452 | 402.5 | 112 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:03 |
| Sample ID: SL-161-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 14:44 |
| Lab Samp ID: D154-08 | Dilution Factor: 1 |
| Lab File ID: REL063 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 10.7 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 750 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 723 | 1120 | 64.5 | 35-130 |
| 2-FLUOROBIPHENYL | 250 | 373.2 | 67.0 | 45-130 |
| 2-FLUOROPHENOL | 710 | 1120 | 63.4 | 25-130 |
| NITROBENZENE-D5 | 236 | 373.2 | 63.3 | 40-130 |
| PHENOL-D5 | 696 | 1120 | 62.1 | 25-120 |
| TERPHENYL-D14 | 335 | 373.2 | 89.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:03 |
| Sample ID: SL-162-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 15:09 |
| Lab Samp ID: D154-09 | Dilution Factor: 1 |
| Lab File ID: REL064 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 8.9 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 370 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 901 | 1098 | 82.1 | 35-130 |
| 2-FLUOROBIPHENYL | 267 | 365.9 | 73.0 | 45-130 |
| 2-FLUOROPHENOL | 699 | 1098 | 63.6 | 25-130 |
| NITROBENZENE-D5 | 226 | 365.9 | 61.8 | 40-130 |
| PHENOL-D5 | 747 | 1098 | 68.0 | 25-120 |
| TERPHENYL-D14 | 437 | 365.9 | 119 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:03 |
| Sample ID: SL-166-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 15:35 |
| Lab Samp ID: D154-10 | Dilution Factor: 1 |
| Lab File ID: REL065 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 13.8 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 97 |
| 1,2-DICHLOROBENZENE | ND | 190 | 97 |
| 1,3-DICHLOROBENZENE | ND | 190 | 97 |
| 1,4-DICHLOROBENZENE | ND | 190 | 97 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 97 |
| 2,4-DINITROPHENOL | ND | 390 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 97 |
| 2,6-DINITROTOLUENE | ND | 190 | 97 |
| 2-CHLORONAPHTHALENE | ND | 190 | 97 |
| 2-CHLOROPHENOL | ND | 190 | 97 |
| 2-METHYLNAPHTHALENE | ND | 190 | 97 |
| 2-METHYLPHENOL | ND | 190 | 97 |
| 2-NITROANILINE | ND | 190 | 97 |
| 2-NITROPHENOL | ND | 190 | 97 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 97 |
| 3-NITROANILINE | ND | 190 | 97 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 97 |
| 4-CHLOROANILINE | ND | 190 | 97 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-METHYLPHENOL (1) | ND | 190 | 97 |
| 4-NITROANILINE | ND | 190 | 97 |
| 4-NITROPHENOL | ND | 390 | 190 |
| ACENAPHTHENE | ND | 190 | 97 |
| ACENAPHTHYLENE | ND | 190 | 97 |
| ANTHRACENE | ND | 190 | 97 |
| BENZO(A)ANTHRACENE | ND | 190 | 97 |
| BENZO(A)PYRENE | ND | 190 | 97 |
| BENZO(B)FLUORANTHENE | ND | 190 | 97 |
| BENZO(K)FLUORANTHENE | ND | 190 | 97 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 97 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 97 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 97 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 97 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 97 |
| CHRYSENE | ND | 190 | 97 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 97 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 97 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 97 |
| DIBENZOFURAN | ND | 190 | 97 |
| DIETHYLPHTHALATE | ND | 190 | 97 |
| DIMETHYLPHTHALATE | ND | 190 | 97 |
| FLUORANTHENE | ND | 190 | 97 |
| FLUORENE | ND | 190 | 97 |
| HEXACHLOROBENZENE | ND | 190 | 97 |
| HEXACHLOROBUTADIENE | ND | 190 | 97 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 97 |
| HEXACHLOROETHANE | ND | 190 | 97 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 97 |
| ISOPHORONE | ND | 190 | 97 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 97 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 97 |
| NAPHTHALENE | ND | 190 | 97 |
| NITROBENZENE | ND | 190 | 97 |
| PENTACHLOROPHENOL | ND | 390 | 190 |
| PHENANTHRENE | ND | 190 | 97 |
| PHENOL | ND | 190 | 97 |
| PYRENE | ND | 190 | 97 |
| BENZYL ALCOHOL | ND | 190 | 97 |
| 1-METHYLNAPHTHALENE | ND | 190 | 97 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 97 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 97 |
| ANILINE | ND | 390 | 190 |
| BENZIDINE | ND | 960 | 490 |
| BENZOIC ACID | ND | 770 | 390 |
| CARBAZOLE | ND | 190 | 97 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 97 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 791 | 1160 | 68.2 | 35-130 |
| 2-FLUOROBIPHENYL | 276 | 386.7 | 71.3 | 45-130 |
| 2-FLUOROPHENOL | 701 | 1160 | 60.4 | 25-130 |
| NITROBENZENE-D5 | 232 | 386.7 | 60.0 | 40-130 |
| PHENOL-D5 | 719 | 1160 | 62.0 | 25-120 |
| TERPHENYL-D14 | 379 | 386.7 | 98.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:03 |
| Sample ID: MBLK1S | Date Analyzed: 04/24/12 17:01 |
| Lab Samp ID: SVD040SB | Dilution Factor: 1 |
| Lab File ID: RDJ391 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 779 | 1000 | 77.9 | 35-130 |
| 2-FLUOROBIPHENYL | 229 | 333.3 | 68.7 | 45-130 |
| 2-FLUOROPHENOL | 758 | 1000 | 75.8 | 25-130 |
| NITROBENZENE-D5 | 278 | 333.3 | 83.3 | 40-130 |
| PHENOL-D5 | 764 | 1000 | 76.4 | 25-120 |
| TERPHENYL-D14 | 285 | 333.3 | 85.5 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVD040SB SVD040SL SVD040SC
LAB FILE ID: RDJ391 RDJ392 RDJ393
DATE EXTRACTED: 04/23/1215:03 04/23/1215:03 04/23/1215:03 DATE COLLECTED: NA
DATE ANALYZED: 04/24/1217:01 04/24/1217:21 04/24/1217:42 DATE RECEIVED: 04/23/12
PREP. BATCH: SVD040S SVD040S SVD040S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 577 | 87 | 667 | 496 | 74 | 15 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 516 | 77 | 667 | 451 | 68 | 13 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 517 | 78 | 667 | 447 | 67 | 15 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 507 | 76 | 667 | 450 | 67 | 12 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 635 | 95 | 667 | 540 | 81 | 16 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 695 | 104 | 667 | 580 | 87 | 18 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 646 | 97 | 667 | 543 | 81 | 17 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 668 | 100 | 667 | 571 | 86 | 16 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 648 | 97 | 667 | 596 | 89 | 8 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 773 | 116 | 667 | 691 | 104 | 11 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 720 | 108 | 667 | 609 | 91 | 17 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 569 | 85 | 667 | 487 | 73 | 16 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 597 | 90 | 667 | 520 | 78 | 14 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 698 | 105 | 667 | 599 | 90 | 15 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 568 | 85 | 667 | 491 | 74 | 15 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 767 | 115 | 667 | 637 | 96 | 19 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 666 | 100 | 667 | 576 | 86 | 14 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 668 | 100 | 667 | 633 | 95 | 5 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 602 | 90 | 667 | 507 | 76 | 17 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 715 | 107 | 667 | 682 | 102 | 5 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 657 | 99 | 667 | 566 | 85 | 15 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 700 | 105 | 667 | 569 | 85 | 21 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 560 | 84 | 667 | 468 | 70 | 18 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 733 | 110 | 667 | 615 | 92 | 18 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 603 | 90 | 667 | 512 | 77 | 16 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 628 | 94 | 667 | 608 | 91 | 3 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 724 | 109 | 667 | 745 | 112 | 3 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 638 | 96 | 667 | 539 | 81 | 17 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 686 | 103 | 667 | 588 | 88 | 15 | 30-130 | 50 |
| Anthracene | ND | 667 | 658 | 99 | 667 | 590 | 88 | 11 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 771 | 116 | 667 | 699 | 105 | 10 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 750 | 112 | 667 | 681 | 102 | 10 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 794 | 119 | 667 | 726 | 109 | 9 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 805 | 121 | 667 | 721 | 108 | 11 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 806 | 121 | 667 | 730 | 110 | 10 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 748 | 112 | 667 | 623 | 94 | 18 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 697 | 105 | 667 | 606 | 91 | 14 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 740 | 111 | 667 | 644 | 97 | 14 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 767 | 115 | 667 | 692 | 104 | 10 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 793 | 119 | 667 | 708 | 106 | 11 | 40-150 | 50 |
| Chrysene | ND | 667 | 783 | 117 | 667 | 708 | 106 | 10 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 704 | 106 | 667 | 662 | 99 | 6 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 785 | 118 | 667 | 717 | 108 | 9 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 805 | 121 | 667 | 729 | 109 | 10 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 631 | 95 | 667 | 530 | 80 | 17 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 725 | 109 | 667 | 612 | 92 | 17 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 695 | 104 | 667 | 589 | 88 | 17 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 729 | 109 | 667 | 704 | 106 | 3 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 719 | 108 | 667 | 598 | 90 | 18 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 662 | 99 | 667 | 579 | 87 | 13 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 635 | 95 | 667 | 550 | 83 | 14 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 475 | 71 | 667 | 437 | 66 | 8 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 561 | 84 | 667 | 491 | 74 | 13 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 815 | 122 | 667 | 738 | 111 | 10 | 30-140 | 50 |
| Isophorone | ND | 667 | 821 | 123 | 667 | 625 | 94 | 27 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 604 | 91 | 667 | 521 | 78 | 15 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 503 | 75 | 667 | 435 | 65 | 15 | 30-140 | 50 |
| Naphthalene | ND | 667 | 660 | 99 | 667 | 563 | 84 | 16 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 714 | 107 | 667 | 604 | 91 | 17 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 650 | 97 | 667 | 620 | 93 | 5 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 688 | 103 | 667 | 609 | 91 | 12 | 30-130 | 50 |
| Phenol | ND | 667 | 631 | 95 | 667 | 541 | 81 | 15 | 30-130 | 50 |
| Pyrene | ND | 667 | 761 | 114 | 667 | 654 | 98 | 15 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 614 | 92 | 667 | 518 | 78 | 17 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 705 | 106 | 667 | 595 | 89 | 17 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 638 | 96 | 667 | 545 | 82 | 16 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 605 | 91 | 667 | 529 | 79 | 13 | 20-150 | 50 |
| Aniline | ND | 667 | 468 | 70 | 667 | 403 | 60 | 15 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1670 | 62 | 2670 | 1920 | 72 | 14 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 1600 | 60 | 2670 | 1320 | 49 | 20 | 10-130 | 50 |
| Carbazole | ND | 667 | 662 | 99 | 667 | 632 | 95 | 5 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 746 | 112 | 667 | 632 | 95 | 17 | 30-150 | 50 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 912 | 91 | 1000 | 848 | 85 | 35-130 |
| 2-Fluorobiphenyl | 333 | 235 | 71 | 333 | 214 | 64 | 45-130 |
| 2-Fluorophenol | 1000 | 771 | 77 | 1000 | 716 | 72 | 25-130 |
| Nitrobenzene-d5 | 333 | 292 | 87 | 333 | 268 | 80 | 40-130 |
| Phenol-d5 | 1000 | 799 | 80 | 1000 | 728 | 73 | 25-120 |
| Terphenyl-d14 | 333 | 339 | 102 | 333 | 317 | 95 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: 13.8
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-166-NBZ-SS-0.0-0.5
LAB SAMP ID: D154-10 D154-10M D154-10S
LAB FILE ID: REL065 RDJ398 RDJ399
DATE EXTRACTED: 04/23/1215:03 04/23/1215:03 04/23/1215:03 DATE COLLECTED: 04/17/12
DATE ANALYZED: 05/02/1215:35 04/24/1219:25 04/24/1219:46 DATE RECEIVED: 04/17/12
PREP. BATCH: SVD040S SVD040S SVD040S
CALIB. REF: RDL204 RAJ290 RAJ290

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 773 | 574 | 74 | 773 | 290 | 37 | 66* | 10-130 | 50 |
| 1,2-Dichlorobenzene | ND | 773 | 435 | 56 | 773 | 219 | 28* | 66* | 30-130 | 50 |
| 1,3-Dichlorobenzene | ND | 773 | 396 | 51 | 773 | 198 | 26* | 67* | 30-130 | 50 |
| 1,4-Dichlorobenzene | ND | 773 | 405 | 52 | 773 | 204 | 26 | 66* | 10-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 773 | 715 | 92 | 773 | 651 | 84 | 9 | 30-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 773 | 777 | 101 | 773 | 635 | 82 | 20 | 30-130 | 50 |
| 2,4-Dichlorophenol | ND | 773 | 709 | 92 | 773 | 476 | 61 | 39 | 30-130 | 50 |
| 2,4-Dimethylphenol | ND | 773 | 727 | 94 | 773 | 486 | 63 | 40 | 30-130 | 50 |
| 2,4-Dinitrophenol | ND | 773 | 576 | 74 | 773 | 574 | 74 | 0 | 10-130 | 50 |
| 2,4-Dinitrotoluene | ND | 773 | 811 | 105 | 773 | 772 | 100 | 5 | 20-130 | 50 |
| 2,6-Dinitrotoluene | ND | 773 | 784 | 101 | 773 | 639 | 83 | 20 | 30-130 | 50 |
| 2-Chloronaphthalene | ND | 773 | 628 | 81 | 773 | 357 | 46 | 55* | 30-130 | 50 |
| 2-Chlorophenol | ND | 773 | 625 | 81 | 773 | 342 | 44 | 58* | 20-130 | 50 |
| 2-Methylnaphthalene | ND | 773 | 753 | 97 | 773 | 402 | 52 | 61* | 30-130 | 50 |
| 2-Methylphenol | ND | 773 | 636 | 82 | 773 | 379 | 49 | 51* | 30-130 | 50 |
| 2-Nitroaniline | ND | 773 | 833 | 108 | 773 | 708 | 92 | 16 | 30-130 | 50 |
| 2-Nitrophenol | ND | 773 | 718 | 93 | 773 | 371 | 48 | 64* | 30-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 773 | 626 | 81 | 773 | 609 | 79 | 3 | 30-130 | 50 |
| 3-Nitroaniline | ND | 773 | 612 | 79 | 773 | 584 | 75 | 5 | 30-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 773 | 740 | 96 | 773 | 771 | 100 | 4 | 30-130 | 50 |
| 4-Bromophenyl-phenylether | ND | 773 | 722 | 93 | 773 | 639 | 83 | 12 | 30-130 | 50 |
| 4-Chloro-3-Methylphenol | ND | 773 | 768 | 99 | 773 | 686 | 89 | 11 | 20-130 | 50 |
| 4-Chloroaniline | ND | 773 | 578 | 75 | 773 | 371 | 48 | 43 | 30-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 773 | 791 | 102 | 773 | 593 | 77 | 29 | 30-130 | 50 |
| 4-Methylphenol | ND | 773 | 650 | 84 | 773 | 415 | 54 | 44 | 20-130 | 50 |
| 4-Nitroaniline | ND | 773 | 659 | 85 | 773 | 782 | 101 | 17 | 40-130 | 50 |
| 4-Nitrophenol | ND | 773 | 737 | 95 | 773 | 840 | 109 | 13 | 10-130 | 50 |
| Acenaphthene | ND | 773 | 714 | 92 | 773 | 475 | 61 | 40 | 20-130 | 50 |
| Acenaphthylene | ND | 773 | 823 | 106 | 773 | 503 | 65 | 48 | 20-130 | 50 |
| Anthracene | ND | 773 | 699 | 90 | 773 | 699 | 90 | 0 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 773 | 781 | 101 | 773 | 852 | 110 | 9 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 773 | 754 | 97 | 773 | 823 | 106 | 9 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 773 | 829 | 107 | 773 | 916 | 118 | 10 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 773 | 793 | 103 | 773 | 840 | 109 | 6 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 773 | 789 | 102 | 773 | 833 | 108 | 5 | 30-130 | 50 |
| bis(2-Chloroethoxy)methane | ND | 773 | 801 | 104 | 773 | 415 | 54 | 64* | 30-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 773 | 709 | 92 | 773 | 351 | 45 | 68* | 30-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 773 | 736 | 95 | 773 | 386 | 50 | 62* | 20-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 773 | 824 | 107 | 773 | 894 | 116 | 8 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 773 | 848 | 110 | 773 | 926 | 120 | 9 | 30-130 | 50 |
| Chrysene | ND | 773 | 797 | 103 | 773 | 859 | 111 | 8 | 30-130 | 50 |
| Di-n-butylphthalate | ND | 773 | 774 | 100 | 773 | 831 | 107 | 7 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 773 | 858 | 111 | 773 | 937 | 121 | 9 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 773 | 813 | 105 | 773 | 870 | 112 | 7 | 30-130 | 50 |
| Dibenzofuran | ND | 773 | 693 | 90 | 773 | 473 | 61 | 38 | 30-130 | 50 |
| Diethylphthalate | ND | 773 | 753 | 97 | 773 | 723 | 93 | 4 | 30-130 | 50 |
| Dimethylphthalate | ND | 773 | 747 | 97 | 773 | 619 | 80 | 19 | 30-130 | 50 |
| Fluoranthene | ND | 773 | 792 | 102 | 773 | 837 | 108 | 6 | 30-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 773 | 770 | 100 | 773 | 600 | 78 | 25 | 20-130 | 50 |
| Hexachlorobenzene | ND | 773 | 707 | 91 | 773 | 663 | 86 | 7 | 10-160 | 50 |
| Hexachlorobutadiene | ND | 773 | 611 | 79 | 773 | 320 | 41 | 62* | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 773 | 501 | 65 | 773 | 249 | 32 | 67* | 10-130 | 50 |
| Hexachloroethane | ND | 773 | 430 | 56 | 773 | 232 | 30 | 60* | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 773 | 803 | 104 | 773 | 865 | 112 | 7 | 20-130 | 50 |
| Isophorone | ND | 773 | 887 | 115 | 773 | 610 | 79 | 37 | 30-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 773 | 644 | 83 | 773 | 375 | 48 | 53* | 20-130 | 50 |
| n-Nitrosodiphenylamine | ND | 773 | 546 | 71 | 773 | 522 | 67 | 5 | 20-140 | 50 |
| Naphthalene | ND | 773 | 678 | 88 | 773 | 350 | 45 | 64* | 30-130 | 50 |
| Nitrobenzene | ND | 773 | 756 | 98 | 773 | 393 | 51 | 63* | 30-130 | 50 |
| Pentachlorophenol | ND | 773 | 738 | 95 | 773 | 804 | 104 | 9 | 10-130 | 50 |
| Phenanthrene | ND | 773 | 743 | 96 | 773 | 742 | 96 | 0 | 20-130 | 50 |
| Phenol | ND | 773 | 676 | 87 | 773 | 400 | 52 | 51* | 20-130 | 50 |
| Pyrene | ND | 773 | 755 | 98 | 773 | 876 | 113 | 15 | 10-160 | 50 |
| Benzyl Alcohol | ND | 773 | 666 | 86 | 773 | 386 | 50 | 53* | 30-130 | 50 |
| 1-Methylnaphthalene | ND | 773 | 760 | 98 | 773 | 430 | 56 | 55* | 20-130 | 50 |
| 1,2-Diphenylhydrazine | ND | 773 | 701 | 91 | 773 | 586 | 76 | 18 | 20-150 | 50 |
| 3,5-Dimethylphenol | ND | 773 | 600 | 78 | 773 | 453 | 59 | 28 | 20-130 | 50 |
| Aniline | ND | 773 | 438 | 57 | 773 | 250J | 32 | 55* | 10-150 | 50 |
| Benzidine | ND | 3090 | 184 | 6* | 3090 | ND | 0* | 200* | 10-150 | 50 |
| Benzoic Acid | ND | 3090 | 1720 | 55 | 3090 | 1550 | 50 | 10 | 10-130 | 50 |
| Carbazole | ND | 773 | 728 | 94 | 773 | 770 | 100 | 6 | 30-130 | 50 |
| N-Nitrosodimethylamine | ND | 773 | 756 | 98 | 773 | 393 | 51 | 63* | 20-130 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1160 | 1070 | 92 | 1160 | 1070 | 92 | 35-130 |
| 2-Fluorobiphenyl | 387 | 277 | 72 | 387 | 150 | 39* | 45-130 |
| 2-Fluorophenol | 1160 | 858 | 74 | 1160 | 454 | 39 | 25-130 |
| Nitrobenzene-d5 | 387 | 328 | 85 | 387 | 167 | 43 | 40-130 |
| Phenol-d5 | 1160 | 891 | 77 | 1160 | 534 | 46 | 25-120 |
| Terphenyl-d14 | 387 | 355 | 92 | 387 | 372 | 96 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:03 |
| Sample ID: SL-014-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 13:52 |
| Lab Samp ID: D154-03 | Dilution Factor: 1 |
| Lab File ID: RDJ434 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 20.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.1 | 1.1 |
| ACENAPHTHYLENE | ND | 2.1 | 1.1 |
| ANTHRACENE | ND | 2.1 | 1.1 |
| BENZO(A)ANTHRACENE | ND | 2.1 | 1.1 |
| BENZO(A)PYRENE | ND | 2.1 | 1.1 |
| BENZO(B)FLUORANTHENE | 1.5J | 2.1 | 1.1 |
| BENZO(K)FLUORANTHENE | ND | 2.1 | 1.1 |
| BENZO(G,H,I)PERYLENE | 1.2J | 2.1 | 1.1 |
| CHRYSENE | ND | 2.1 | 1.1 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.1 | 1.1 |
| FLUORANTHENE | 1.7J | 2.1 | 1.1 |
| FLUORENE | ND | 2.1 | 1.1 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.1 | 1.1 |
| NAPHTHALENE | ND | 2.1 | 1.1 |
| PHENANTHRENE | ND | 2.1 | 1.1 |
| PYRENE | 1.2J | 2.1 | 1.1 |
| 2-METHYLNAPHTHALENE | ND | 2.1 | 1.1 |
| 1-METHYLNAPHTHALENE | ND | 2.1 | 1.1 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 16J | 21 | 11 |
| BUTYLBENZYLPHTHALATE | ND | 21 | 11 |
| DI-N-BUTYLPHTHALATE | ND | 21 | 11 |
| DI-N-OCTYLPHTHALATE | ND | 21 | 11 |
| DIETHYLPHTHALATE | ND | 21 | 11 |
| DIMETHYLPHTHALATE | ND | 21 | 11 |
| N-NITROSODIMETHYLAMINE | ND | 2.1 | 1.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 295 | 418.2 | 70.5 | 40-130 |
| 2-FLUOROBIPHENYL | 257 | 418.2 | 61.4 | 45-130 |
| TERPHENYL-D14 | 309 | 418.2 | 73.8 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:03 |
| Sample ID: SL-088-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 14:13 |
| Lab Samp ID: D154-04 | Dilution Factor: 1 |
| Lab File ID: RDJ435 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 23.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.2 | 1.1 |
| ACENAPHTHYLENE | ND | 2.2 | 1.1 |
| ANTHRACENE | ND | 2.2 | 1.1 |
| BENZO(A)ANTHRACENE | ND | 2.2 | 1.1 |
| BENZO(A)PYRENE | ND | 2.2 | 1.1 |
| BENZO(B)FLUORANTHENE | 1.9J | 2.2 | 1.1 |
| BENZO(K)FLUORANTHENE | ND | 2.2 | 1.1 |
| BENZO(G,H,I)PERYLENE | 1.3J | 2.2 | 1.1 |
| CHRYSENE | ND | 2.2 | 1.1 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.2 | 1.1 |
| FLUORANTHENE | 1.5J | 2.2 | 1.1 |
| FLUORENE | ND | 2.2 | 1.1 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.2 | 1.1 |
| NAPHTHALENE | ND | 2.2 | 1.1 |
| PHENANTHRENE | ND | 2.2 | 1.1 |
| PYRENE | 1.6J | 2.2 | 1.1 |
| 2-METHYLNAPHTHALENE | ND | 2.2 | 1.1 |
| 1-METHYLNAPHTHALENE | ND | 2.2 | 1.1 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 39 | 22 | 11 |
| BUTYLBENZYLPHTHALATE | ND | 22 | 11 |
| DI-N-BUTYLPHTHALATE | ND | 22 | 11 |
| DI-N-OCTYLPHTHALATE | ND | 22 | 11 |
| DIETHYLPHTHALATE | ND | 22 | 11 |
| DIMETHYLPHTHALATE | ND | 22 | 11 |
| N-NITROSODIMETHYLAMINE | ND | 2.2 | 1.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 300 | 436.3 | 68.8 | 40-130 |
| 2-FLUOROBIPHENYL | 281 | 436.3 | 64.4 | 45-130 |
| TERPHENYL-D14 | 390 | 436.3 | 89.4 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:03 |
| Sample ID: SL-090-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 14:33 |
| Lab Samp ID: D154-05 | Dilution Factor: 1 |
| Lab File ID: RDJ436 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 13.9 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 0.99 |
| ACENAPHTHYLENE | ND | 2.0 | 0.99 |
| ANTHRACENE | ND | 2.0 | 0.99 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 0.99 |
| BENZO(A)PYRENE | 1.7J | 2.0 | 0.99 |
| BENZO(B)FLUORANTHENE | 2.7 | 2.0 | 0.99 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 0.99 |
| BENZO(G,H,I)PERYLENE | 1.9J | 2.0 | 0.99 |
| CHRYSENE | 1.9J | 2.0 | 0.99 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 0.99 |
| FLUORANTHENE | 3.2 | 2.0 | 0.99 |
| FLUORENE | 2.9 | 2.0 | 0.99 |
| INDENO(1,2,3-CD)PYRENE | 1.6J | 2.0 | 0.99 |
| NAPHTHALENE | ND | 2.0 | 0.99 |
| PHENANTHRENE | 1.9J | 2.0 | 0.99 |
| PYRENE | 2.9 | 2.0 | 0.99 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 32 | 19 | 9.8 |
| BUTYLBENZYLPHTHALATE | 14J | 19 | 9.8 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.8 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.8 |
| DIETHYLPHTHALATE | ND | 19 | 9.8 |
| DIMETHYLPHTHALATE | ND | 19 | 9.8 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 0.99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 270 | 387.1 | 69.7 | 40-130 |
| 2-FLUOROBIPHENYL | 256 | 387.1 | 66.1 | 45-130 |
| TERPHENYL-D14 | 324 | 387.1 | 83.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:03 |
| Sample ID: SL-147-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 13:52 |
| Lab Samp ID: D154-06 | Dilution Factor: 1 |
| Lab File ID: REL061 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 13.4 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 0.98 |
| ACENAPHTHYLENE | ND | 2.0 | 0.98 |
| ANTHRACENE | ND | 2.0 | 0.98 |
| BENZO(A)ANTHRACENE | 1.3J | 2.0 | 0.98 |
| BENZO(A)PYRENE | ND | 2.0 | 0.98 |
| BENZO(B)FLUORANTHENE | ND | 2.0 | 0.98 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 0.98 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 0.98 |
| CHRYSENE | ND | 2.0 | 0.98 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 0.98 |
| FLUORANTHENE | 1.0J | 2.0 | 0.98 |
| FLUORENE | ND | 2.0 | 0.98 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 0.98 |
| NAPHTHALENE | ND | 2.0 | 0.98 |
| PHENANTHRENE | ND | 2.0 | 0.98 |
| PYRENE | ND | 2.0 | 0.98 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 0.98 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 0.98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 20 | 19 | 9.7 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.7 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.7 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.7 |
| DIETHYLPHTHALATE | ND | 19 | 9.7 |
| DIMETHYLPHTHALATE | ND | 19 | 9.7 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 0.98 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 251 | 384.9 | 65.1 | 40-130 |
| 2-FLUOROBIPHENYL | 290 | 384.9 | 75.2 | 45-130 |
| TERPHENYL-D14 | 427 | 384.9 | 111 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:03 |
| Sample ID: SL-156-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 14:18 |
| Lab Samp ID: D154-07 | Dilution Factor: 1 |
| Lab File ID: REL062 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 17.2 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.1 | 1.0 |
| ACENAPHTHYLENE | ND | 2.1 | 1.0 |
| ANTHRACENE | ND | 2.1 | 1.0 |
| BENZO(A)ANTHRACENE | 1.6J | 2.1 | 1.0 |
| BENZO(A)PYRENE | 1.2J | 2.1 | 1.0 |
| BENZO(B)FLUORANTHENE | ND | 2.1 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.1 | 1.0 |
| BENZO(G,H,I)PERYLENE | ND | 2.1 | 1.0 |
| CHRYSENE | ND | 2.1 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.1 | 1.0 |
| FLUORANTHENE | 2.0J | 2.1 | 1.0 |
| FLUORENE | ND | 2.1 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.1 | 1.0 |
| NAPHTHALENE | ND | 2.1 | 1.0 |
| PHENANTHRENE | ND | 2.1 | 1.0 |
| PYRENE | 1.6J | 2.1 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.1 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.1 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 21 | 20 | 10 |
| BUTYLBENZYLPHTHALATE | 40 | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.1 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 272 | 402.5 | 67.5 | 40-130 |
| 2-FLUOROBIPHENYL | 293 | 402.5 | 72.9 | 45-130 |
| TERPHENYL-D14 | 441 | 402.5 | 110 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:03 |
| Sample ID: SL-161-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 14:44 |
| Lab Samp ID: D154-08 | Dilution Factor: 1 |
| Lab File ID: REL063 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 10.7 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | 1.3J | 1.9 | 0.95 |
| BENZO(A)PYRENE | ND | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | 1.6J | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.95 |
| CHRYSENE | ND | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | 1.6J | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.95 |
| NAPHTHALENE | ND | 1.9 | 0.95 |
| PHENANTHRENE | ND | 1.9 | 0.95 |
| PYRENE | 1.3J | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 13J | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 233 | 373.2 | 62.4 | 40-130 |
| 2-FLUOROBIPHENYL | 248 | 373.2 | 66.4 | 45-130 |
| TERPHENYL-D14 | 333 | 373.2 | 89.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:03 |
| Sample ID: SL-162-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 15:09 |
| Lab Samp ID: D154-09 | Dilution Factor: 1 |
| Lab File ID: REL064 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 8.9 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | 1.5J | 1.9 | 0.93 |
| BENZO(A)PYRENE | ND | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | 2.1 | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.93 |
| CHRYSENE | ND | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | 1.9J | 1.9 | 0.93 |
| FLUORENE | ND | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | ND | 1.9 | 0.93 |
| PYRENE | 1.5J | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 28 | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 214 | 365.9 | 58.4 | 40-130 |
| 2-FLUOROBIPHENYL | 240 | 365.9 | 65.6 | 45-130 |
| TERPHENYL-D14 | 406 | 365.9 | 111 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:03 |
| Sample ID: SL-166-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 15:35 |
| Lab Samp ID: D154-10 | Dilution Factor: 1 |
| Lab File ID: REL065 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : 13.8 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 0.99 |
| ACENAPHTHYLENE | ND | 2.0 | 0.99 |
| ANTHRACENE | ND | 2.0 | 0.99 |
| BENZO(A)ANTHRACENE | 1.3J | 2.0 | 0.99 |
| BENZO(A)PYRENE | 1.0J | 2.0 | 0.99 |
| BENZO(B)FLUORANTHENE | 2.0 | 2.0 | 0.99 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 0.99 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 0.99 |
| CHRYSENE | ND | 2.0 | 0.99 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 0.99 |
| FLUORANTHENE | 1.9J | 2.0 | 0.99 |
| FLUORENE | ND | 2.0 | 0.99 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 0.99 |
| NAPHTHALENE | ND | 2.0 | 0.99 |
| PHENANTHRENE | ND | 2.0 | 0.99 |
| PYRENE | 1.5J | 2.0 | 0.99 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 25 | 19 | 9.7 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.7 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.7 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.7 |
| DIETHYLPHTHALATE | ND | 19 | 9.7 |
| DIMETHYLPHTHALATE | ND | 19 | 9.7 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 0.99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 227 | 386.7 | 58.8 | 40-130 |
| 2-FLUOROBIPHENYL | 252 | 386.7 | 65.3 | 45-130 |
| TERPHENYL-D14 | 370 | 386.7 | 95.8 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/1215:03 |
| Sample ID: MBLK1S | Date Analyzed: 04/24/12 17:01 |
| Lab Samp ID: SVD040SB | Dilution Factor: 1 |
| Lab File ID: RDJ391 | Matrix : SOIL |
| Ext Btch ID: SVD040S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 295 | 333.3 | 88.4 | 40-130 |
| 2-FLUOROBIPHENYL | 264 | 333.3 | 79.3 | 45-130 |
| TERPHENYL-D14 | 280 | 333.3 | 84.1 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVD040SB | SVD040SX | SVD040SY | | |
| LAB FILE ID: | RDJ391 | RDJ394 | RDJ395 | | |
| DATE EXTRACTED: | 04/23/1215:03 | 04/23/1215:03 | 04/23/1215:03 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/24/1217:01 | 04/24/1218:03 | 04/24/1218:23 | DATE RECEIVED: | 04/23/12 |
| PREP. BATCH: | SVD040S | SVD040S | SVD040S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 336 | 101 | 333 | 333 | 100 | 1 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 381 | 114 | 333 | 376 | 113 | 2 | 20-130 | 50 |
| Anthracene | ND | 333 | 304 | 91 | 333 | 307 | 92 | 1 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 311 | 93 | 333 | 335 | 100 | 7 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 350 | 105 | 333 | 376 | 113 | 7 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 371 | 111 | 333 | 404 | 121 | 9 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 369 | 111 | 333 | 395 | 119 | 7 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 382 | 115 | 333 | 413 | 124 | 8 | 30-140 | 50 |
| Chrysene | ND | 333 | 298 | 89 | 333 | 322 | 97 | 8 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 381 | 114 | 333 | 412 | 124 | 8 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 330 | 99 | 333 | 344 | 103 | 4 | 30-130 | 50 |
| Fluorene | ND | 333 | 379 | 114 | 333 | 382 | 115 | 1 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 383 | 115 | 333 | 415 | 124 | 8 | 20-160 | 50 |
| Naphthalene | ND | 333 | 304 | 91 | 333 | 296 | 89 | 3 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 306 | 92 | 333 | 310 | 93 | 1 | 20-130 | 50 |
| Pyrene | ND | 333 | 314 | 94 | 333 | 327 | 98 | 4 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 343 | 103 | 333 | 335 | 100 | 3 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 342 | 103 | 333 | 335 | 101 | 2 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 299 | 90 | 333 | 313 | 94 | 4 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 288 | 86 | 333 | 302 | 91 | 5 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 301 | 90 | 333 | 315 | 95 | 5 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 305 | 91 | 333 | 326 | 98 | 7 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 378 | 113 | 333 | 389 | 117 | 3 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 366 | 110 | 333 | 372 | 112 | 2 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 339 | 102 | 333 | 327 | 98 | 4 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 304 | 91 | 333 | 320 | 96 | 40-130 |
| 2-Fluorobiphenyl | 333 | 263 | 79 | 333 | 282 | 85 | 45-130 |
| Terphenyl-d14 | 333 | 269 | 81 | 333 | 303 | 91 | 45-135 |

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/20/12 07:26 |
| Sample ID: EB-NBZ-SB-041712 | Date Analyzed: 04/20/12 07:26 |
| Lab Samp ID: D154-01 | Dilution Factor: 1 |
| Lab File ID: ED18056A | Matrix : WATER |
| Ext Btch ID: VA39D13 | % Moisture : NA |
| Calib. Ref.: ED18047A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 26J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 34.8 | 40.00 | 87.0 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D154 | Date Extracted: 04/19/12 17:26 |
| Sample ID: MBLK1W | Date Analyzed: 04/19/12 17:26 |
| Lab Samp ID: VA39D13B | Dilution Factor: 1 |
| Lab File ID: ED18036A | Matrix : WATER |
| Ext Btch ID: VA39D13 | % Moisture : NA |
| Calib. Ref.: ED18035A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 35.1 | 40.00 | 87.7 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 5030B/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VA39D13B | VA39D13L | VA39D13C | | |
| LAB FILE ID: | ED18036A | ED18037A | ED18038A | | |
| DATE EXTRACTED: | 04/19/1217:26 | 04/19/1218:08 | 04/19/1218:50 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/19/1217:26 | 04/19/1218:08 | 04/19/1218:50 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | VA39D13 | VA39D13 | VA39D13 | | |
| CALIB. REF: | ED18035A | ED18035A | ED18035A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 500 | 459 | 92 | 500 | 487 | 97 | 6 | 60-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 40.0 | 38.3 | 96 | 40.0 | 40.5 | 101 | 60-130 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/19/12 12:25 |
| Sample ID: EB-NBZ-SB-041712 | Date Analyzed: 04/19/12 12:25 |
| Lab Samp ID: D154-01 | Dilution Factor: 1 |
| Lab File ID: BD19008A | Matrix : WATER |
| Ext Btch ID: MED003W | % Moisture : NA |
| Calib. Ref.: BD19003A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/19/12 13:10 |
| Sample ID: EB-NBZ-SS-041712 | Date Analyzed: 04/19/12 13:10 |
| Lab Samp ID: D154-02 | Dilution Factor: 1 |
| Lab File ID: BD19009A | Matrix : WATER |
| Ext Btch ID: MED003W | % Moisture : NA |
| Calib. Ref.: BD19003A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D154 | Date Extracted: 04/19/12 11:02 |
| Sample ID: MBLK1W | Date Analyzed: 04/19/12 11:02 |
| Lab Samp ID: MED003WB | Dilution Factor: 1 |
| Lab File ID: BD19004A | Matrix : WATER |
| Ext Btch ID: MED003W | % Moisture : NA |
| Calib. Ref.: BD19003A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ETHANOL | ND | 1000 | 500 |
| ISOPROPANOL | ND | 1000 | 500 |
| METHANOL | ND | 1000 | 500 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | MED003WB | MED003WL | MED003WC | | |
| LAB FILE ID: | BD19004A | BD19006A | BD19007A | | |
| DATE EXTRACTED: | 04/19/1211:02 | 04/19/1211:42 | 04/19/1212:08 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/19/1211:02 | 04/19/1211:42 | 04/19/1212:08 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | MED003W | MED003W | MED003W | | |
| CALIB. REF: | BD19003A | BD19003A | BD19003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 11500 | 115 | 10000 | 11500 | 115 | 0 | 50-150 | 30 |
| Isopropanol | ND | 10000 | 10600 | 106 | 10000 | 11000 | 110 | 4 | 50-150 | 30 |
| Methanol | ND | 10000 | 9880 | 99 | 10000 | 10200 | 102 | 3 | 50-150 | 30 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/19/12 12:26 |
| Sample ID: EB-NBZ-SB-041712 | Date Analyzed: 04/19/12 12:26 |
| Lab Samp ID: D154-01 | Dilution Factor: 1 |
| Lab File ID: TD19011A | Matrix : WATER |
| Ext Btch ID: PED005W | % Moisture : NA |
| Calib. Ref.: TD19003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/19/12 13:14 |
| Sample ID: EB-NBZ-SS-041712 | Date Analyzed: 04/19/12 13:14 |
| Lab Samp ID: D154-02 | Dilution Factor: 1 |
| Lab File ID: TD19012A | Matrix : WATER |
| Ext Btch ID: PED005W | % Moisture : NA |
| Calib. Ref.: TD19003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D154 | Date Extracted: 04/19/12 10:41 |
| Sample ID: MBLK1W | Date Analyzed: 04/19/12 10:41 |
| Lab Samp ID: PED005WB | Dilution Factor: 1 |
| Lab File ID: TD19006A | Matrix : WATER |
| Ext Btch ID: PED005W | % Moisture : NA |
| Calib. Ref.: TD19003A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 10 | 5.0 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 2.5 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | PED005WB | PED005WL | PED005WC | | |
| LAB FILE ID: | TD19006A | TD19004A | TD19005A | | |
| DATE EXTRACTED: | 04/19/1210:41 | 04/19/1209:38 | 04/19/1209:54 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/19/1210:41 | 04/19/1209:38 | 04/19/1209:54 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | PED005W | PED005W | PED005W | | |
| CALIB. REF: | TD19003A | TD19003A | TD19003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 51.6 | 103 | 50.0 | 54.9 | 110 | 6 | 50-150 | 30 |
| Ethylene Glycol | ND | 50.0 | 47.2 | 94 | 50.0 | 49.0 | 98 | 4 | 50-150 | 30 |
| Propylene Glycol | ND | 25.0 | 23.2 | 93 | 25.0 | 24.2 | 97 | 4 | 50-150 | 30 |

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/19/12 16:00 |
| Sample ID: EB-NBZ-SB-041712 | Date Analyzed: 04/20/12 17:58 |
| Lab Samp ID: D154-01 | Dilution Factor: 1.05 |
| Lab File ID: LD20007A | Matrix : WATER |
| Ext Btch ID: DSD035W | % Moisture : NA |
| Calib. Ref.: LD20002A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.52 | 0.10 |
| EFH(C12-C14) | ND | 0.52 | 0.10 |
| EFH(C15-C20) | ND | 0.52 | 0.10 |
| EFH(C21-C30) | ND | 0.52 | 0.10 |
| EFH(C30-C40) | ND | 0.52 | 0.10 |
| TOTAL EFH(C8-C40) | ND | 0.52 | 0.10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.802 | 1.050 | 76.4 | 40-130 |
| HEXACOSANE | 0.228 | 0.2625 | 86.7 | 40-150 |

RL : Reporting Limit

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/19/12 16:00 |
| Sample ID: EB-NBZ-SS-041712 | Date Analyzed: 04/20/12 18:15 |
| Lab Samp ID: D154-02 | Dilution Factor: 1.09 |
| Lab File ID: LD20008A | Matrix : WATER |
| Ext Btch ID: DSD035W | % Moisture : NA |
| Calib. Ref.: LD20002A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.55 | 0.11 |
| EFH(C12-C14) | ND | 0.55 | 0.11 |
| EFH(C15-C20) | ND | 0.55 | 0.11 |
| EFH(C21-C30) | ND | 0.55 | 0.11 |
| EFH(C30-C40) | ND | 0.55 | 0.11 |
| TOTAL EFH(C8-C40) | ND | 0.55 | 0.11 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.754 | 1.090 | 69.2 | 40-130 |
| HEXACOSANE | 0.225 | 0.2725 | 82.6 | 40-150 |

RL : Reporting Limit

METHOD 3520C/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D154 | Date Extracted: 04/19/12 16:00 |
| Sample ID: MBLK1W | Date Analyzed: 04/20/12 17:07 |
| Lab Samp ID: DSD035WB | Dilution Factor: 1 |
| Lab File ID: LD20004A | Matrix : WATER |
| Ext Btch ID: DSD035W | % Moisture : NA |
| Calib. Ref.: LD20002A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| EFH(C8-C11) | ND | 0.50 | 0.10 |
| EFH(C12-C14) | ND | 0.50 | 0.10 |
| EFH(C15-C20) | ND | 0.50 | 0.10 |
| EFH(C21-C30) | ND | 0.50 | 0.10 |
| EFH(C30-C40) | ND | 0.50 | 0.10 |
| TOTAL EFH(C8-C40) | ND | 0.50 | 0.10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 0.774 | 1.000 | 77.4 | 40-130 |
| HEXACOSANE | 0.204 | 0.2500 | 81.5 | 40-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 3520C/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | DSD035WB | DSD035WL | DSD035WC | | |
| LAB FILE ID: | LD20004A | LD20005A | LD20006A | | |
| DATE EXTRACTED: | 04/19/1216:00 | 04/19/1216:00 | 04/19/1216:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/20/1217:07 | 04/20/1217:24 | 04/20/1217:41 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | DSD035W | DSD035W | DSD035W | | |
| CALIB. REF: | LD20002A | LD20002A | LD20002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 5.00 | 4.59 | 92 | 5.00 | 4.79 | 96 | 4 | 20-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 1.00 | 0.762 | 76 | 1.00 | 0.788 | 79 | 40-130 |
| Hexacosane | 0.250 | 0.205 | 82 | 0.250 | 0.209 | 84 | 40-150 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/24/12 14:55 |
| Sample ID: SL-014-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 11:19 |
| Lab Samp ID: D154-03 | Dilution Factor: 1 |
| Lab File ID: LD24071A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : 20.3 |
| Calib. Ref.: LD24062A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.71J | 1.3 | 0.63 |
| EFH(C12-C14) | ND | 1.3 | 0.63 |
| EFH(C15-C20) | 2.4 | 1.3 | 0.63 |
| EFH(C21-C30) | 17 | 1.3 | 0.63 |
| EFH(C30-C40) | 33 | 1.3 | 0.63 |
| TOTAL EFH(C8-C40) | 53 | 1.3 | 0.63 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.04 | 12.55 | 56.1 | 50-150 |
| HEXACOSANE | 2.94 | 3.137 | 93.8 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/24/12 14:55 |
| Sample ID: SL-088-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 11:36 |
| Lab Samp ID: D154-04 | Dilution Factor: 1 |
| Lab File ID: LD24072A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : 23.6 |
| Calib. Ref.: LD24062A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.97J | 1.3 | 0.65 |
| EFH(C12-C14) | 0.76J | 1.3 | 0.65 |
| EFH(C15-C20) | 3.7 | 1.3 | 0.65 |
| EFH(C21-C30) | 25 | 1.3 | 0.65 |
| EFH(C30-C40) | 42 | 1.3 | 0.65 |
| TOTAL EFH(C8-C40) | 72 | 1.3 | 0.65 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 8.08 | 13.09 | 61.7 | 50-150 |
| HEXACOSANE | 3.26 | 3.272 | 99.6 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/24/12 14:55 |
| Sample ID: SL-090-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 08:29 |
| Lab Samp ID: D154-05 | Dilution Factor: 1 |
| Lab File ID: LD24061A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : 13.9 |
| Calib. Ref.: LD24050A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.70J | 1.2 | 0.58 |
| EFH(C12-C14) | ND | 1.2 | 0.58 |
| EFH(C15-C20) | 2.2 | 1.2 | 0.58 |
| EFH(C21-C30) | 18 | 1.2 | 0.58 |
| EFH(C30-C40) | 30 | 1.2 | 0.58 |
| TOTAL EFH(C8-C40) | 51 | 1.2 | 0.58 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 5.81 | 11.61 | 50.1 | 50-150 |
| HEXACOSANE | 2.50 | 2.904 | 86.2 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/24/12 |
| Batch No. : 12D154 | Date Extracted: 04/24/12 14:55 |
| Sample ID: MBLK1S | Date Analyzed: 04/25/12 07:21 |
| Lab Samp ID: DSD040SB | Dilution Factor: 1 |
| Lab File ID: LD24057A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : NA |
| Calib. Ref.: LD24050A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.92 | 10.00 | 69.2 | 50-150 |
| HEXACOSANE | 1.96 | 2.500 | 78.5 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSD040SB | DSD040SL | DSD040SC | | |
| LAB FILE ID: | LD24057A | LD24055A | LD24056A | | |
| DATE EXTRACTED: | 04/24/1214:55 | 04/24/1214:55 | 04/24/1214:55 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1207:21 | 04/25/1206:47 | 04/25/1207:04 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | DSD040S | DSD040S | DSD040S | | |
| CALIB. REF: | LD24050A | LD24050A | LD24050A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 45.1 | 90 | 50.0 | 40.7 | 81 | 10 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 7.75 | 78 | 10.0 | 6.77 | 68 | 50-150 |
| Hexacosane | 2.50 | 2.16 | 86 | 2.50 | 2.05 | 82 | 50-150 |

METHOD 3520C/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/19/12 14:00 |
| Sample ID: EB-NBZ-SS-041712 | Date Analyzed: 04/26/12 01:24 |
| Lab Samp ID: D154-02 | Dilution Factor: 1.04 |
| Lab File ID: MD25036A | Matrix : WATER |
| Ext Btch ID: CPD047W | % Moisture : NA |
| Calib. Ref.: MD25028A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ALPHA-BHC | 0.088J \| (ND) | 0.10 | 0.010 \| 0.010 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.10 | 0.010 \| 0.010 |
| BETA-BHC | (ND) \| 0.020J | 0.10 | 0.010 \| 0.010 |
| HEPTACHLOR | (ND) \| ND | 0.10 | 0.010 \| 0.010 |
| DELTA-BHC | (ND) \| ND | 0.10 | 0.010 \| 0.010 |
| ALDRIN | (ND) \| ND | 0.10 | 0.010 \| 0.010 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.10 | 0.010 \| 0.010 |
| ENDOSULFAN I | (ND) \| ND | 0.10 | 0.010 \| 0.010 |
| 4,4'-DDE | 0.035J \| (ND) | 0.10 | 0.010 \| 0.010 |
| DIELDRIN | 0.047J \| (ND) | 0.10 | 0.010 \| 0.010 |
| ENDRIN | (ND) \| ND | 0.10 | 0.010 \| 0.010 |
| 4,4'-DDD | (ND) \| ND | 0.10 | 0.010 \| 0.010 |
| ENDOSULFAN II | 0.012J \| (ND) | 0.10 | 0.010 \| 0.010 |
| 4,4'-DDT | (ND) \| ND | 0.10 | 0.010 \| 0.010 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.10 | 0.010 \| 0.010 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.10 | 0.010 \| 0.010 |
| ENDRIN KETONE | (ND) \| ND | 0.10 | 0.010 \| 0.010 |
| METHOXYCHLOR | (ND) \| ND | 1.0 | 0.10 \| 0.10 |
| MIREX | (ND) \| ND | 0.10 | 0.010 \| 0.010 |
| TOXAPHENE | (ND) \| ND | 2.1 | 0.52 \| 0.52 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 1.0 | 0.26 \| 0.26 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (0.3026) \| 0.2989 | 0.4160 | (72.7) \| 71.8 | 60-140 |
| DECACHLOROBIPHENYL | (0.3948) \| 0.3943 | 0.4160 | (94.9) \| 94.8 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3520C/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D154 | Date Extracted: 04/19/12 14:00 |
| Sample ID: MBLK1W | Date Analyzed: 04/26/12 00:17 |
| Lab Samp ID: CPD047WB | Dilution Factor: 1 |
| Lab File ID: MD25033A | Matrix : WATER |
| Ext Btch ID: CPD047W | % Moisture : NA |
| Calib. Ref.: MD25028A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.10 | 0.010\|0.010 |
| BETA-BHC | (ND)\|0.024J | 0.10 | 0.010\|0.010 |
| HEPTACHLOR | (ND)\|ND | 0.10 | 0.010\|0.010 |
| DELTA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ALDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN I | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| DIELDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDD | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN II | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDT | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN KETONE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| METHOXYCHLOR | (ND)\|ND | 1.0 | 0.10\|0.10 |
| MIREX | (ND)\|ND | 0.10 | 0.010\|0.010 |
| TOXAPHENE | (ND)\|ND | 2.0 | 0.50\|0.50 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 1.0 | 0.25\|0.25 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 0.3343\|(0.3446) | 0.4000 | 83.6\|(86.1) | 60-140 |
| DECACHLOROBIPHENYL | 0.3932\|(0.3997) | 0.4000 | 98.3\|(99.9) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 3520C/8081A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | CPD047WB | CPD047WL | CPD047WC | | |
| LAB FILE ID: | MD25033A | MD25034A | MD25035A | | |
| DATE EXTRACTED: | 04/19/1214:00 | 04/19/1214:00 | 04/19/1214:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/26/1200:17 | 04/26/1200:39 | 04/26/1201:02 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | CPD047W | CPD047W | CPD047W | | |
| CALIB. REF: | MD25028A | MD25028A | MD25028A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 0.200 | (0.168)\|0.158 | (84)\|79 | 0.200 | (0.177)\|0.166 | (88)\|83 | (5)\|5 | 30-150 | 30 |
| gamma-BHC (Lindane) | (ND)\|ND | 0.200 | 0.161\|(0.164) | 80\|(82) | 0.200 | 0.172\|(0.176) | 86\|(88) | 7\|(7) | 40-130 | 30 |
| beta-BHC | (ND)\|0.024J | 0.200 | 0.167\|(0.187) | 84\|(94) | 0.200 | 0.184\|(0.199) | 92\|(100) | 10\|(6) | 60-130 | 30 |
| Heptachlor | (ND)\|ND | 0.200 | (0.170)\|0.166 | (85)\|83 | 0.200 | (0.178)\|0.173 | (89)\|86 | (5)\|4 | 30-140 | 30 |
| delta-BHC | (ND)\|ND | 0.200 | (0.165)\|0.160 | (82)\|80 | 0.200 | (0.188)\|0.179 | (94)\|90 | (13)\|11 | 30-150 | 30 |
| Aldrin | (ND)\|ND | 0.200 | (0.169)\|0.162 | (84)\|81 | 0.200 | (0.174)\|0.170 | (87)\|85 | (3)\|5 | 40-130 | 30 |
| Heptachlor Epoxide | (ND)\|ND | 0.200 | (0.175)\|0.166 | (88)\|83 | 0.200 | (0.189)\|0.181 | (94)\|90 | (8)\|9 | 50-140 | 30 |
| Endosulfan I | (ND)\|ND | 0.200 | 0.163\|(0.164) | 82\|(82) | 0.200 | 0.179\|(0.180) | 90\|(90) | 9\|(9) | 60-140 | 30 |
| 4,4'-DDE | (ND)\|ND | 0.200 | 0.171\|(0.176) | 86\|(88) | 0.200 | 0.188\|(0.193) | 94\|(96) | 9\|(9) | 50-140 | 30 |
| Dieldrin | (ND)\|ND | 0.200 | (0.173)\|0.164 | (86)\|82 | 0.200 | (0.194)\|0.187 | (97)\|94 | (11)\|13 | 60-140 | 30 |
| Endrin | (ND)\|ND | 0.200 | (0.177)\|0.163 | (88)\|82 | 0.200 | (0.198)\|0.181 | (99)\|90 | (11)\|10 | 50-140 | 30 |
| 4,4'-DDD | (ND)\|ND | 0.200 | (0.175)\|0.174 | (88)\|87 | 0.200 | 0.199\|(0.200) | 100\|(100) | 13\|(14) | 50-160 | 30 |
| Endosulfan II | (ND)\|ND | 0.200 | (0.187)\|0.176 | (94)\|88 | 0.200 | (0.213)\|0.202 | (106)\|101 | (13)\|14 | 60-150 | 30 |
| 4,4'-DDT | (ND)\|ND | 0.200 | (0.215)\|0.188 | (108)\|94 | 0.200 | (0.249)\|0.208 | (124)\|104 | (15)\|10 | 60-140 | 30 |
| Endrin aldehyde | (ND)\|ND | 0.200 | (0.192)\|0.185 | (96)\|92 | 0.200 | (0.221)\|0.210 | (110)\|105 | (14)\|13 | 60-160 | 30 |
| Endosulfan Sulfate | (ND)\|ND | 0.200 | (0.181)\|0.176 | (90)\|88 | 0.200 | (0.213)\|0.203 | (106)\|101 | (16)\|14 | 70-140 | 30 |
| Endrin Ketone | (ND)\|ND | 0.200 | (0.182)\|0.176 | (91)\|88 | 0.200 | (0.215)\|0.203 | (108)\|101 | (17)\|14 | 30-150 | 30 |
| Methoxychlor | (ND)\|ND | 2.00 | (1.90)\|1.86 | (95)\|93 | 2.00 | (2.17)\|2.14 | (108)\|107 | (13)\|14 | 70-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 0.4000 | 0.3580\|(0.3647) | 89.5\|(91.2) | 0.4000 | 0.3101\|(0.3187) | 77.5\|(79.7) | 60-140 |
| Decachlorobiphenyl | 0.4000 | 0.4004\|(0.4061) | 100\|(102) | 0.4000 | 0.4009\|(0.4037) | 100\|(101) | 20-120 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-014-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 13:34 |
| Lab Samp ID: D154-03 | Dilution Factor: 1 |
| Lab File ID: MD27012A | Matrix : SOIL |
| Ext Btch ID: CPD054S | % Moisture : 20.3 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 1.1 \| (ND) | 0.21 | 0.11 \| 0.11 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.21 | 0.11 \| 0.11 |
| BETA-BHC | (ND) \| 0.32 | 0.21 | 0.11 \| 0.11 |
| HEPTACHLOR | (ND) \| 0.70 | 0.21 | 0.11 \| 0.11 |
| DELTA-BHC | (ND) \| ND | 0.21 | 0.11 \| 0.11 |
| ALDRIN | (ND) \| ND | 0.21 | 0.11 \| 0.11 |
| HEPTACHLOR EPOXIDE | (ND) \| 0.32 | 0.21 | 0.11 \| 0.11 |
| ENDOSULFAN I | (ND) \| 0.19J | 0.21 | 0.11 \| 0.11 |
| 4,4'-DDE | 1.5 \| (ND) | 0.43 | 0.21 \| 0.21 |
| DIELDRIN | 0.98 \| (ND) | 0.43 | 0.21 \| 0.21 |
| ENDRIN | 0.36J \| (ND) | 0.43 | 0.21 \| 0.21 |
| 4,4'-DDD | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| ENDOSULFAN II | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| 4,4'-DDT | 2.8 \| (5.1) | 0.43 | 0.21 \| 0.21 |
| ENDRIN ALDEHYDE | 0.69 \| (ND) | 0.43 | 0.21 \| 0.21 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| ENDRIN KETONE | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| METHOXYCHLOR | 2.1 \| (ND) | 2.1 | 1.1 \| 1.1 |
| MIREX | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| TOXAPHENE | (ND) \| ND | 8.3 | 4.1 \| 4.1 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.3 | 2.1 \| 2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.278 \| (5.582) | 6.691 | 63.9 \| (83.4) | 50-130 |
| DECACHLOROBIPHENYL | (5.326) \| 4.903 | 6.691 | (79.6) \| 73.3 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-088-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 13:56 |
| Lab Samp ID: D154-04 | Dilution Factor: 1 |
| Lab File ID: MD27013A | Matrix : SOIL |
| Ext Btch ID: CPD054S | % Moisture : 23.6 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 4.2 \| (0.33) | 0.22 | 0.11 \| 0.11 |
| GAMMA-BHC (LINDANE) | 0.22J \| (ND) | 0.22 | 0.11 \| 0.11 |
| BETA-BHC | 3.2 \| (ND) | 0.22 | 0.11 \| 0.11 |
| HEPTACHLOR | (ND) \| 1.1 | 0.22 | 0.11 \| 0.11 |
| DELTA-BHC | 1.8 \| (ND) | 0.22 | 0.11 \| 0.11 |
| ALDRIN | (ND) \| 0.18J | 0.22 | 0.11 \| 0.11 |
| HEPTACHLOR EPOXIDE | (0.39) \| 0.16J | 0.22 | 0.11 \| 0.11 |
| ENDOSULFAN I | (ND) \| 0.20J | 0.22 | 0.11 \| 0.11 |
| 4,4'-DDE | (1.1) \| 0.49 | 0.45 | 0.22 \| 0.22 |
| DIELDRIN | 0.75 \| (ND) | 0.45 | 0.22 \| 0.22 |
| ENDRIN | 0.23J \| (ND) | 0.45 | 0.22 \| 0.22 |
| 4,4'-DDD | (ND) \| ND | 0.45 | 0.22 \| 0.22 |
| ENDOSULFAN II | (ND) \| ND | 0.45 | 0.22 \| 0.22 |
| 4,4'-DDT | 2.0 \| (3.3) | 0.45 | 0.22 \| 0.22 |
| ENDRIN ALDEHYDE | (ND) \| 0.55 | 0.45 | 0.22 \| 0.22 |
| ENDOSULFAN SULFATE | 0.41J \| (ND) | 0.45 | 0.22 \| 0.22 |
| ENDRIN KETONE | (ND) \| ND | 0.45 | 0.22 \| 0.22 |
| METHOXYCHLOR | (ND) \| ND | 2.2 | 1.1 \| 1.1 |
| MIREX | (ND) \| ND | 0.45 | 0.22 \| 0.22 |
| TOXAPHENE | (ND) \| ND | 8.6 | 4.3 \| 4.3 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.5 | 2.2 \| 2.2 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.801 \| (7.104) | 6.980 | 68.8 \| (102) | 50-130 |
| DECACHLOROBIPHENYL | (4.983) \| 4.784 | 6.980 | (71.4) \| 68.5 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-090-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 14:18 |
| Lab Samp ID: D154-05 | Dilution Factor: 1 |
| Lab File ID: MD27014A | Matrix : SOIL |
| Ext Btch ID: CPD054S | % Moisture : 13.9 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.25 \| (ND) | 0.20 | 0.099 \| 0.099 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| BETA-BHC | (ND) \| 0.31 | 0.20 | 0.099 \| 0.099 |
| HEPTACHLOR | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| DELTA-BHC | 0.60 \| (ND) | 0.20 | 0.099 \| 0.099 |
| ALDRIN | 0.15J \| (ND) | 0.20 | 0.099 \| 0.099 |
| HEPTACHLOR EPOXIDE | (ND) \| 0.26 | 0.20 | 0.099 \| 0.099 |
| ENDOSULFAN I | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| 4,4'-DDE | (1.3) \| 1.2 | 0.39 | 0.20 \| 0.20 |
| DIELDRIN | 0.36J \| (ND) | 0.39 | 0.20 \| 0.20 |
| ENDRIN | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN II | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDT | (3.7) \| 3.4 | 0.39 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDRIN KETONE | 0.27J \| (ND) | 0.39 | 0.20 \| 0.20 |
| METHOXYCHLOR | 2.1 \| (ND) | 2.0 | 0.99 \| 0.99 |
| MIREX | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.7 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.781 \| (5.331) | 6.194 | 61.0 \| (86.1) | 50-130 |
| DECACHLOROBIPHENYL | (4.306) \| 3.755 | 6.194 | (69.5) \| 60.6 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-147-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 14:41 |
| Lab Samp ID: D154-06 | Dilution Factor: 1 |
| Lab File ID: MD27015A | Matrix : SOIL |
| Ext Btch ID: CPD054S | % Moisture : 13.4 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.85 \| (ND) | 0.20 | 0.098 \| 0.098 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| BETA-BHC | 0.40 \| (ND) | 0.20 | 0.098 \| 0.098 |
| HEPTACHLOR | (ND) \| 0.36 | 0.20 | 0.098 \| 0.098 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| ALDRIN | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| HEPTACHLOR EPOXIDE | 0.21 \| (ND) | 0.20 | 0.098 \| 0.098 |
| ENDOSULFAN I | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| 4,4'-DDE | (0.92) \| 0.57 | 0.39 | 0.20 \| 0.20 |
| DIELDRIN | 0.34J \| (ND) | 0.39 | 0.20 \| 0.20 |
| ENDRIN | 0.32J \| (ND) | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN II | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDT | (1.3) \| 1.3 | 0.39 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | 0.38J \| (ND) | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| ND | 2.0 | 0.98 \| 0.98 |
| MIREX | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.227 \| (5.168) | 6.158 | 68.6 \| (83.9) | 50-130 |
| DECACHLOROBIPHENYL | (3.959) \| 3.847 | 6.158 | (64.3) \| 62.5 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-156-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 15:03 |
| Lab Samp ID: D154-07 | Dilution Factor: 1 |
| Lab File ID: MD27016A | Matrix : SOIL |
| Ext Btch ID: CPD054S | % Moisture : 17.2 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.32 | 0.21 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.44 | 0.21 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| 0.28 | 0.21 | 0.10 \| 0.10 |
| HEPTACHLOR | (ND) \| 0.16J | 0.21 | 0.10 \| 0.10 |
| DELTA-BHC | (ND) \| ND | 0.21 | 0.10 \| 0.10 |
| ALDRIN | (ND) \| 0.11J | 0.21 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | 0.14J \| (ND) | 0.21 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| ND | 0.21 | 0.10 \| 0.10 |
| 4,4'-DDE | 0.75 \| (0.84) | 0.41 | 0.21 \| 0.21 |
| DIELDRIN | (ND) \| 1.2 | 0.41 | 0.21 \| 0.21 |
| ENDRIN | 0.37J \| (ND) | 0.41 | 0.21 \| 0.21 |
| 4,4'-DDD | (ND) \| ND | 0.41 | 0.21 \| 0.21 |
| ENDOSULFAN II | (ND) \| ND | 0.41 | 0.21 \| 0.21 |
| 4,4'-DDT | 0.89 \| (1.5) | 0.41 | 0.21 \| 0.21 |
| ENDRIN ALDEHYDE | 1.5 \| (ND) | 0.41 | 0.21 \| 0.21 |
| ENDOSULFAN SULFATE | (ND) \| 4.3 | 0.41 | 0.21 \| 0.21 |
| ENDRIN KETONE | 0.82 \| (ND) | 0.41 | 0.21 \| 0.21 |
| METHOXYCHLOR | (ND) \| 4.4 | 2.1 | 1.0 \| 1.0 |
| MIREX | (ND) \| ND | 0.41 | 0.21 \| 0.21 |
| TOXAPHENE | (ND) \| ND | 8.0 | 4.0 \| 4.0 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.1 | 2.1 \| 2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.518 \| (6.240) | 6.441 | 54.6 \| (96.9) | 50-130 |
| DECACHLOROBIPHENYL | 2.366 \| (4.474) | 6.441 | 36.7 \| (69.5) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-161-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 15:26 |
| Lab Samp ID: D154-08 | Dilution Factor: 1 |
| Lab File ID: MD27017A | Matrix : SOIL |
| Ext Btch ID: CPD054S | % Moisture : 10.7 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.51 \| (ND) | 0.19 | 0.095 \| 0.095 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| HEPTACHLOR | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| ALDRIN | (ND) \| 0.13J | 0.19 | 0.095 \| 0.095 |
| HEPTACHLOR EPOXIDE | 0.17J \| (ND) | 0.19 | 0.095 \| 0.095 |
| ENDOSULFAN I | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| 4,4'-DDE | 0.35J \| (0.37J) | 0.38 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.19J \| (ND) | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDT | (1.3) \| 0.68 | 0.38 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDRIN KETONE | 0.27J \| (ND) | 0.38 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| MIREX | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.4 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.8 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.958 \| (5.892) | 5.972 | 83.0 \| (98.7) | 50-130 |
| DECACHLOROBIPHENYL | (5.117) \| 4.585 | 5.972 | (85.7) \| 76.8 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-162-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 15:48 |
| Lab Samp ID: D154-09 | Dilution Factor: 1 |
| Lab File ID: MD27018A | Matrix : SOIL |
| Ext Btch ID: CPD054S | % Moisture : 8.9 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.40 | 0.19 | 0.093 \| 0.093 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.18J | 0.19 | 0.093 \| 0.093 |
| BETA-BHC | (ND) \| 0.19J | 0.19 | 0.093 \| 0.093 |
| HEPTACHLOR | (ND) \| 0.31 | 0.19 | 0.093 \| 0.093 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| ALDRIN | (ND) \| 0.099J | 0.19 | 0.093 \| 0.093 |
| HEPTACHLOR EPOXIDE | 0.25 \| (ND) | 0.19 | 0.093 \| 0.093 |
| ENDOSULFAN I | (ND) \| 0.10J | 0.19 | 0.093 \| 0.093 |
| 4,4'-DDE | (1.7) \| 1.5 | 0.37 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.23J \| (ND) | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDT | (3.7) \| 2.9 | 0.37 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| 0.40 | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDRIN KETONE | 0.25J \| (ND) | 0.37 | 0.19 \| 0.19 |
| METHOXYCHLOR | 1.5J \| (ND) | 1.9 | 0.93 \| 0.93 |
| MIREX | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.2 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.472 \| (6.042) | 5.854 | 76.4 \| (103) | 50-130 |
| DECACHLOROBIPHENYL | (4.985) \| 4.606 | 5.854 | (85.2) \| 78.7 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-166-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 16:11 |
| Lab Samp ID: D154-10 | Dilution Factor: 1 |
| Lab File ID: MD27019A | Matrix : SOIL |
| Ext Btch ID: CPD054S | % Moisture : 13.8 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.41 \| (ND) | 0.20 | 0.099 \| 0.099 |
| GAMMA-BHC (LINDANE) | 0.10J \| (ND) | 0.20 | 0.099 \| 0.099 |
| BETA-BHC | (ND) \| 0.15J | 0.20 | 0.099 \| 0.099 |
| HEPTACHLOR | 0.63 \| (ND) | 0.20 | 0.099 \| 0.099 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| ALDRIN | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| ENDOSULFAN I | (ND) \| 0.25 | 0.20 | 0.099 \| 0.099 |
| 4,4'-DDE | (0.66) \| 0.36J | 0.39 | 0.20 \| 0.20 |
| DIELDRIN | 0.62 \| (ND) | 0.39 | 0.20 \| 0.20 |
| ENDRIN | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN II | (ND) \| 0.20J | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDT | (2.0) \| 1.8 | 0.39 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| 0.93 | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| 0.20J | 0.39 | 0.20 \| 0.20 |
| ENDRIN KETONE | 0.50 \| (ND) | 0.39 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| ND | 2.0 | 0.99 \| 0.99 |
| MIREX | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.7 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.752 \| (6.060) | 6.187 | 76.8 \| (97.9) | 50-130 |
| DECACHLOROBIPHENYL | (5.399) \| 5.393 | 6.187 | (87.3) \| 87.2 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 17:33 |
| Sample ID: MBLK1S | Date Analyzed: 04/27/12 12:27 |
| Lab Samp ID: CPD054SB | Dilution Factor: 1 |
| Lab File ID: MD27009A | Matrix : SOIL |
| Ext Btch ID: CPD054S | % Moisture : NA |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.801\|(5.074) | 5.333 | 71.3\|(95.1) | 50-130 |
| DECACHLOROBIPHENYL | 5.191\|(5.277) | 5.333 | 97.3\|(98.9) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPD054SB CPD054SL CPD054SC
LAB FILE ID: MD27009A MD27010A MD27011A
DATE EXTRACTED: 04/23/1217:33 04/23/1217:33 04/23/1217:33 DATE COLLECTED: NA
DATE ANALYZED: 04/27/1212:27 04/27/1212:49 04/27/1213:11 DATE RECEIVED: 04/23/12
PREP. BATCH: CPD054S CPD054S CPD054S
CALIB. REF: MD27005A MD27005A MD27005A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND) \| ND | 2.67 | 2.27 \| (2.58) | 85 \| (97) | 2.67 | 2.38 \| (2.68) | 89 \| (100) | 5 \| (4) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND) \| ND | 2.67 | 1.81 \| (2.30) | 68 \| (86) | 2.67 | 1.95 \| (2.46) | 73 \| (92) | 7 \| (7) | 40-130 | 50 |
| beta-BHC | (ND) \| ND | 2.67 | 2.33 \| (2.36) | 87 \| (88) | 2.67 | 2.13 \| (2.37) | 80 \| (89) | 9 \| (0) | 50-140 | 50 |
| Heptachlor | (ND) \| ND | 2.67 | 2.33 \| (2.68) | 87 \| (100) | 2.67 | 2.55 \| (2.73) | 96 \| (102) | 9 \| (2) | 30-130 | 50 |
| delta-BHC | (ND) \| ND | 2.67 | 2.44 \| (2.52) | 91 \| (94) | 2.67 | 2.58 \| (2.60) | 97 \| (97) | 6 \| (3) | 30-150 | 50 |
| Aldrin | (ND) \| ND | 2.67 | (2.08) \| 2.03 | (78) \| 76 | 2.67 | (2.23) \| 2.14 | (84) \| 80 | (7) \| 5 | 30-130 | 50 |
| Heptachlor Epoxide | (ND) \| ND | 2.67 | 2.33 \| (2.38) | 87 \| (89) | 2.67 | 2.31 \| (2.49) | 87 \| (93) | 1 \| (5) | 60-140 | 50 |
| Endosulfan I | (ND) \| ND | 2.67 | 1.92 \| (2.16) | 72 \| (81) | 2.67 | 2.08 \| (2.24) | 78 \| (84) | 8 \| (4) | 50-150 | 50 |
| 4,4'-DDE | (ND) \| ND | 2.67 | 2.34 \| (2.35) | 88 \| (88) | 2.67 | (2.55) \| 2.45 | (96) \| 92 | (9) \| 4 | 50-150 | 50 |
| Dieldrin | (ND) \| ND | 2.67 | (2.59) \| 2.19 | (97) \| 82 | 2.67 | (2.73) \| 2.25 | (102) \| 84 | (5) \| 3 | 60-130 | 50 |
| Endrin | (ND) \| ND | 2.67 | 2.25 \| (2.28) | 84 \| (85) | 2.67 | (2.37) \| 2.37 | (89) \| 89 | (5) \| 4 | 50-140 | 50 |
| 4,4'-DDD | (ND) \| ND | 2.67 | (2.39) \| 2.16 | (90) \| 81 | 2.67 | (2.56) \| 2.30 | (96) \| 86 | (7) \| 6 | 50-160 | 50 |
| Endosulfan II | (ND) \| ND | 2.67 | (2.53) \| 2.49 | (95) \| 93 | 2.67 | (2.70) \| 2.67 | (101) \| 100 | (7) \| 7 | 60-150 | 50 |
| 4,4'-DDT | (ND) \| ND | 2.67 | (2.83) \| 2.46 | (106) \| 92 | 2.67 | (3.02) \| 2.58 | (113) \| 97 | (6) \| 5 | 60-140 | 50 |
| Endrin aldehyde | (ND) \| ND | 2.67 | (2.35) \| 2.32 | (88) \| 87 | 2.67 | (2.54) \| 2.50 | (95) \| 94 | (8) \| 7 | 50-160 | 50 |
| Endosulfan Sulfate | (ND) \| ND | 2.67 | (2.56) \| 2.49 | (96) \| 93 | 2.67 | (2.76) \| 2.67 | (103) \| 100 | (8) \| 7 | 70-140 | 50 |
| Endrin Ketone | (ND) \| ND | 2.67 | (2.55) \| 2.44 | (96) \| 91 | 2.67 | (2.76) \| 2.61 | (103) \| 98 | (8) \| 7 | 70-160 | 50 |
| Methoxychlor | (ND) \| ND | 26.7 | 25.6 \| (25.7) | 96 \| (96) | 26.7 | (27.4) \| 27.2 | (103) \| 102 | (7) \| 6 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 2.997 \| (4.110) | 56.2 \| (77.1) | 5.333 | 3.269 \| (4.313) | 61.3 \| (80.9) | 50-130 |
| Decachlorobiphenyl | 5.333 | (4.221) \| 4.180 | (79.1) \| 78.4 | 5.333 | (4.489) \| 4.416 | (84.2) \| 82.8 | 20-120 |

METHOD 3520C/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/19/12 14:00 |
| Sample ID: EB-NBZ-SB-041712 | Date Analyzed: 05/10/12 22:07 |
| Lab Samp ID: D154-01 | Dilution Factor: 1.04 |
| Lab File ID: KE07085A | Matrix : WATER |
| Ext Btch ID: CPD047W | % Moisture : NA |
| Calib. Ref.: KE07079A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1221 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1232 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1242 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1248 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1254 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1260 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1262 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1268 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 5432 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 5442 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 5460 | (ND)\|ND | 2.1 | 1.0\|1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (0.4318)\|0.3456 | 0.4160 | (104)\|83.1 | 45-120 |
| TETRACHLORO-M-XYLENE | (0.3650)\|0.2556 | 0.4160 | (87.7)\|61.4 | 30-140 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3520C/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/19/12 14:00 |
| Sample ID: EB-NBZ-SS-041712 | Date Analyzed: 05/10/12 23:00 |
| Lab Samp ID: D154-02 | Dilution Factor: 1.04 |
| Lab File ID: KE07086A | Matrix : WATER |
| Ext Btch ID: CPD047W | % Moisture : NA |
| Calib. Ref.: KE07079A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1221 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1232 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1242 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1248 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1254 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1260 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1262 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1268 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 5432 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 5442 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 5460 | (ND)\|ND | 2.1 | 1.0\|1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (0.4257)\|0.3240 | 0.4160 | (102)\|77.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (0.3627)\|0.2687 | 0.4160 | (87.2)\|64.6 | 30-140 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3520C/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D154 | Date Extracted: 04/19/12 14:00 |
| Sample ID: MBLK1W | Date Analyzed: 05/10/12 19:28 |
| Lab Samp ID: CPD047WB | Dilution Factor: 1 |
| Lab File ID: KE07082A | Matrix : WATER |
| Ext Btch ID: CPD047W | % Moisture : NA |
| Calib. Ref.: KE07079A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1221 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1232 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1242 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1248 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1254 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1260 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1262 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1268 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 5432 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5442 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5460 | (ND)\|ND | 2.0 | 1.0\|1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (0.4491)\|0.3575 | 0.4000 | (112)\|89.4 | 45-120 |
| TETRACHLORO-M-XYLENE | (0.4017)\|0.3139 | 0.4000 | (100)\|78.5 | 30-140 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 3520C/8082

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | CPD047WB | 60D047WX | 60D047WY | | |
| LAB FILE ID: | KE07082A | KE07083A | KE07084A | | |
| DATE EXTRACTED: | 04/19/1214:00 | 04/19/1214:00 | 04/19/1214:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/10/1219:28 | 05/10/1220:21 | 05/10/1221:14 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | CPD047W | CPD047W | CPD047W | | |
| CALIB. REF: | KE07079A | KE07079A | KE07079A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 5.00 | (4.82)\|3.67 | (96)\|73 | 5.00 | (5.02)\|3.83 | (100)\|77 | (4)\|4 | 50-130 | 30 |
| Aroclor 1260 | (ND)\|ND | 5.00 | (5.98)\|4.12 | (120)\|82 | 5.00 | (6.24)\|4.30 | (125)\|86 | (4)\|4 | 60-150 | 30 |
| Aroclor 5460 | (ND)\|ND | 2.50 | (2.75)\|2.67 | (110)\|107 | 2.50 | (2.87)\|2.79 | (115)\|112 | (4)\|4 | 50-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 0.4000 | (0.4197)\|0.3180 | (105)\|79.5 | 0.4000 | (0.4202)\|0.3306 | (105)\|82.7 | 45-120 |
| Tetrachloro-m-xylene | 0.4000 | (0.3875)\|0.2860 | (96.9)\|71.5 | 0.4000 | (0.4029)\|0.3021 | (101)\|75.5 | 30-140 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/25/12 17:21 |
| Sample ID: SL-014-NBZ-SS-0.0-0.5 | Date Analyzed: 05/12/12 00:02 |
| Lab Samp ID: D154-03 | Dilution Factor: 1 |
| Lab File ID: KE11019A | Matrix : SOIL |
| Ext Btch ID: CPD058S | % Moisture : 20.3 |
| Calib. Ref.: KE11016A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1221 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1232 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1242 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1248 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1254 | 16\|(9.8) | 2.1 | 1.1\|1.1 |
| AROCLOR 1260 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1262 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1268 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 5432 | (ND)\|ND | 4.1 | 2.1\|2.1 |
| AROCLOR 5442 | (ND)\|ND | 4.1 | 2.1\|2.1 |
| AROCLOR 5460 | (ND)\|ND | 4.1 | 2.1\|2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.440)\|4.643 | 6.691 | (96.2)\|69.4 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.591)\|3.878 | 6.691 | (113)\|58.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/25/12 17:21 |
| Sample ID: SL-088-NBZ-SS-0.0-0.5 | Date Analyzed: 05/12/12 00:55 |
| Lab Samp ID: D154-04 | Dilution Factor: 1 |
| Lab File ID: KE11020A | Matrix : SOIL |
| Ext Btch ID: CPD058S | % Moisture : 23.6 |
| Calib. Ref.: KE11016A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1221 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1232 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1242 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1248 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1254 | 24\|(13) | 2.2 | 1.1\|1.1 |
| AROCLOR 1260 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1262 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1268 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 5432 | (ND)\|ND | 4.3 | 2.2\|2.2 |
| AROCLOR 5442 | (ND)\|ND | 4.3 | 2.2\|2.2 |
| AROCLOR 5460 | (ND)\|ND | 4.3 | 2.2\|2.2 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.888)\|5.147 | 6.980 | (98.7)\|73.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.322)\|4.620 | 6.980 | (105)\|66.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/25/12 17:21 |
| Sample ID: SL-090-NBZ-SS-0.0-0.5 | Date Analyzed: 05/12/12 01:48 |
| Lab Samp ID: D154-05 | Dilution Factor: 1 |
| Lab File ID: KE11021A | Matrix : SOIL |
| Ext Btch ID: CPD058S | % Moisture : 13.9 |
| Calib. Ref.: KE11016A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.002)\|4.663 | 6.194 | (96.9)\|75.3 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.169)\|4.231 | 6.194 | (99.6)\|68.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/25/12 17:21 |
| Sample ID: SL-147-NBZ-SS-0.0-0.5 | Date Analyzed: 05/12/12 02:41 |
| Lab Samp ID: D154-06 | Dilution Factor: 1 |
| Lab File ID: KE11022A | Matrix : SOIL |
| Ext Btch ID: CPD058S | % Moisture : 13.4 |
| Calib. Ref.: KE11016A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.014)\|5.230 | 6.158 | (114)\|84.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.654)\|4.263 | 6.158 | (108)\|69.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/25/12 17:21 |
| Sample ID: SL-156-NBZ-SS-0.0-0.5 | Date Analyzed: 05/12/12 03:34 |
| Lab Samp ID: D154-07 | Dilution Factor: 1 |
| Lab File ID: KE11023A | Matrix : SOIL |
| Ext Btch ID: CPD058S | % Moisture : 17.2 |
| Calib. Ref.: KE11016A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 4.0 | 2.1\|2.1 |
| AROCLOR 5442 | (ND)\|ND | 4.0 | 2.1\|2.1 |
| AROCLOR 5460 | (ND)\|ND | 4.0 | 2.1\|2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.277)\|4.855 | 6.441 | (97.5)\|75.4 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.688)\|4.314 | 6.441 | (104)\|67.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/25/12 17:21 |
| Sample ID: SL-161-NBZ-SS-0.0-0.5 | Date Analyzed: 05/12/12 04:27 |
| Lab Samp ID: D154-08 | Dilution Factor: 1 |
| Lab File ID: KE11024A | Matrix : SOIL |
| Ext Btch ID: CPD058S | % Moisture : 10.7 |
| Calib. Ref.: KE11016A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (2.6J)\|2.3J | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.642)\|5.065 | 5.972 | (111)\|84.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.125)\|4.160 | 5.972 | (103)\|69.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/25/12 17:21 |
| Sample ID: SL-162-NBZ-SS-0.0-0.5 | Date Analyzed: 05/12/12 05:21 |
| Lab Samp ID: D154-09 | Dilution Factor: 1 |
| Lab File ID: KE11025A | Matrix : SOIL |
| Ext Btch ID: CPD058S | % Moisture : 8.9 |
| Calib. Ref.: KE11016A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (2.9J)\|3.2J | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.053\|(5.226) | 5.854 | 120*\|(89.3) | 45-120 |
| TETRACHLORO-M-XYLENE | (6.621)\|4.557 | 5.854 | (113)\|77.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/25/12 17:21 |
| Sample ID: SL-166-NBZ-SS-0.0-0.5 | Date Analyzed: 05/12/12 06:14 |
| Lab Samp ID: D154-10 | Dilution Factor: 1 |
| Lab File ID: KE11026A | Matrix : SOIL |
| Ext Btch ID: CPD058S | % Moisture : 13.8 |
| Calib. Ref.: KE11016A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.867)\|5.121 | 6.187 | (111)\|82.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.956)\|4.080 | 6.187 | (112)\|66.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/25/12 |
| Batch No. : 12D154 | Date Extracted: 04/25/12 17:21 |
| Sample ID: MBLK1S | Date Analyzed: 05/10/12 23:53 |
| Lab Samp ID: 60D058SB | Dilution Factor: 1 |
| Lab File ID: KE07087A | Matrix : SOIL |
| Ext Btch ID: CPD058S | % Moisture : NA |
| Calib. Ref.: KE07079A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.724)\|4.578 | 5.333 | (107)\|85.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (4.879)\|3.662 | 5.333 | (91.5)\|68.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 3550B/8082

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60D058SB | 60D058SL | 60D058SC | | |
| LAB FILE ID: | KE07087A | KE07088A | KE07089A | | |
| DATE EXTRACTED: | 04/25/1217:21 | 04/25/1217:21 | 04/25/1217:21 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/10/1223:53 | 05/11/1200:46 | 05/11/1201:39 | DATE RECEIVED: | 04/25/12 |
| PREP. BATCH: | CPD058S | CPD058S | CPD058S | | |
| CALIB. REF: | KE07079A | KE07079A | KE07079A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (61.6)\|44.8 | (92)\|67 | 66.7 | (65.2)\|50.0 | (98)\|75 | (6)\|11 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (79.7)\|55.5 | (120)\|83 | 66.7 | (84.2)\|58.0 | (126)\|87 | (5)\|4 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 33.3 | (40.9)\|39.7 | (123)\|119 | 33.3 | (42.3)\|41.7 | (127)\|125 | (3)\|5 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | (6.028)\|4.521 | (113)\|84.8 | 5.333 | (6.362)\|5.062 | (119)\|94.9 | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (5.178)\|3.918 | (97.1)\|73.5 | 5.333 | (5.570)\|4.289 | (104)\|80.4 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/24/12 16:57 |
| Sample ID: EB-NBZ-SS-041712 | Date Analyzed: 04/25/12 19:15 |
| Lab Samp ID: D154-02 | Dilution Factor: 1 |
| Lab File ID: QD25009A | Matrix : WATER |
| Ext Btch ID: HED013W | % Moisture : NA |
| Calib. Ref.: QD25003A | Instrument ID : GCT009 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4-DB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-T | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DALAPON | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICAMBA | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICHLOROPROP | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DINOSEB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| MCPA | (ND)\|ND | 100 | 20\|20 |
| MCPP | (ND)\|ND | 100 | 20\|20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (8.468)\|7.542 | 10.00 | (84.7)\|75.4 | 40-140 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/24/12 |
| Batch No. : 12D154 | Date Extracted: 04/24/12 16:57 |
| Sample ID: MBLK1W | Date Analyzed: 04/25/12 17:14 |
| Lab Samp ID: HED013WB | Dilution Factor: 1 |
| Lab File ID: QD25004A | Matrix : WATER |
| Ext Btch ID: HED013W | % Moisture : NA |
| Calib. Ref.: QD25003A | Instrument ID : GCT009 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4-DB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-T | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DALAPON | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICAMBA | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICHLOROPROP | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DINOSEB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| MCPA | (ND)\|ND | 100 | 20\|20 |
| MCPP | (ND)\|ND | 100 | 20\|20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (9.126)\|8.751 | 10.00 | (91.3)\|87.5 | 40-140 |

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Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 8151A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HED013WB | HED013WL | HED013WC | | |
| LAB FILE ID: | QD25004A | QD25005A | QD25006A | | |
| DATE EXTRACTED: | 04/24/1216:57 | 04/24/1216:57 | 04/24/1216:57 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1217:14 | 04/25/1217:39 | 04/25/1218:03 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | HED013W | HED013W | HED013W | | |
| CALIB. REF: | QD25003A | QD25003A | QD25003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 1.00 | (0.852)\|0.800J | (85)\|80 | 1.00 | (0.749J)\|0.694J | (75)\|69 | (13)\|14 | 40-130 | 30 |
| 2,4-DB | (ND)\|ND | 1.00 | 0.765J\|(0.768J) | 76\|(77) | 1.00 | 0.625J\|(0.672J) | 62\|(67) | 20\|(13) | 30-160 | 30 |
| 2,4,5-T | (ND)\|ND | 1.00 | 0.792J\|(1.03) | 79\|(103) | 1.00 | 0.681J\|(0.902) | 68\|(90) | 15\|(13) | 40-140 | 30 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 1.00 | (0.866)\|0.823 | (87)\|82 | 1.00 | (0.742J)\|0.729J | (74)\|73 | (15)\|12 | 60-140 | 30 |
| Dalapon | (ND)\|ND | 1.00 | 0.652J\|(0.664J) | 65\|(66) | 1.00 | 0.613J\|(0.615J) | 61\|(62) | 6\|(8) | 30-130 | 30 |
| Dicamba | (ND)\|ND | 1.00 | (0.817)\|0.725J | (82)\|72 | 1.00 | (0.714J)\|0.632J | (71)\|63 | (13)\|14 | 50-130 | 30 |
| Dichloroprop | (ND)\|ND | 1.00 | (0.938)\|0.883 | (94)\|88 | 1.00 | (0.824)\|0.773J | (82)\|77 | (13)\|13 | 70-150 | 30 |
| Dinoseb | (ND)\|ND | 1.00 | (0.651J)\|0.632J | (65)\|63 | 1.00 | (0.571J)\|0.544J | (57)\|54 | (13)\|15 | 20-130 | 30 |
| MCPA | (ND)\|ND | 50.0 | 39.8J\|(42.0J) | 80\|(84) | 50.0 | 35.2J\|(38.2J) | 70\|(76) | 12\|(9) | 30-150 | 30 |
| MCPP | (ND)\|ND | 50.0 | (43.7J)\|19.4J | (87)\|39 | 50.0 | (39.8J)\|18.5J | (80)\|37 | (9)\|5 | 30-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 10.00 | (8.275)\|7.891 | (82.7)\|78.9 | 10.00 | (7.475)\|7.107 | (74.7)\|71.1 | 40-140 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 17:23 |
| Sample ID: SL-014-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 12:23 |
| Lab Samp ID: D154-03 | Dilution Factor: 1 |
| Lab File ID: WD25008A | Matrix : SOIL |
| Ext Btch ID: HED012S | % Moisture : 20.3 |
| Calib. Ref.: WD25002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 4.5 | 2.3 \| 2.3 |
| 2,4-DB | (ND) \| ND | 2.1 | 1.1 \| 1.1 |
| 2,4,5-T | 1.5 \| (ND) | 0.21 | 0.11 \| 0.11 |
| 2,4,5-TP(SILVEX) | 1.1 \| (ND) | 0.21 | 0.11 \| 0.11 |
| DALAPON | (ND) \| ND | 11 | 5.6 \| 5.6 |
| DICAMBA | (ND) \| ND | 1.5 | 0.75 \| 0.75 |
| DICHLOROPROP | (ND) \| ND | 3.0 | 1.5 \| 1.5 |
| DINOSEB | (ND) \| ND | 2.1 | 1.1 \| 1.1 |
| MCPA | (ND) \| ND | 310 | 160 \| 160 |
| MCPP | (ND) \| ND | 310 | 160 \| 160 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (265.4) \| 222.0 | 188.2 | (141) \| 118 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 17:23 |
| Sample ID: SL-088-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 12:45 |
| Lab Samp ID: D154-04 | Dilution Factor: 1 |
| Lab File ID: WD25009A | Matrix : SOIL |
| Ext Btch ID: HED012S | % Moisture : 23.6 |
| Calib. Ref.: WD25002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.7 | 2.4\|2.4 |
| 2,4-DB | (ND)\|ND | 2.2 | 1.1\|1.1 |
| 2,4,5-T | 1.9\|(ND) | 0.22 | 0.11\|0.11 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.22 | 0.11\|0.11 |
| DALAPON | (ND)\|ND | 12 | 5.9\|5.9 |
| DICAMBA | (ND)\|ND | 1.6 | 0.79\|0.79 |
| DICHLOROPROP | (ND)\|ND | 3.1 | 1.6\|1.6 |
| DINOSEB | (ND)\|ND | 2.2 | 1.1\|1.1 |
| MCPA | (ND)\|ND | 330 | 160\|160 |
| MCPP | (ND)\|ND | 330 | 160\|160 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (260.7)\|216.9 | 196.3 | (133)\|110 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 17:23 |
| Sample ID: SL-090-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 13:06 |
| Lab Samp ID: D154-05 | Dilution Factor: 1 |
| Lab File ID: WD25010A | Matrix : SOIL |
| Ext Btch ID: HED012S | % Moisture : 13.9 |
| Calib. Ref.: WD25002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 0.99\|0.99 |
| 2,4,5-T | 0.55\|(ND) | 0.20 | 0.099\|0.099 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.099\|0.099 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.70\|0.70 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 0.99\|0.99 |
| MCPA | (ND)\|ND | 290 | 150\|150 |
| MCPP | (ND)\|ND | 290 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (207.2)\|187.1 | 174.2 | (119)\|107 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 17:23 |
| Sample ID: SL-147-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 14:10 |
| Lab Samp ID: D154-06 | Dilution Factor: 1 |
| Lab File ID: WD25013A | Matrix : SOIL |
| Ext Btch ID: HED012S | % Moisture : 13.4 |
| Calib. Ref.: WD25002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 0.98\|0.98 |
| 2,4,5-T | 1.7\|(ND) | 0.20 | 0.098\|0.098 |
| 2,4,5-TP(SILVEX) | 1.1\|(ND) | 0.20 | 0.098\|0.098 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.69\|0.69 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|2.7 | 2.0 | 0.98\|0.98 |
| MCPA | (ND)\|ND | 290 | 140\|140 |
| MCPP | (ND)\|ND | 290 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (189.3)\|170.0 | 173.2 | (109)\|98.2 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 17:23 |
| Sample ID: SL-156-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 14:32 |
| Lab Samp ID: D154-07 | Dilution Factor: 1 |
| Lab File ID: WD25014A | Matrix : SOIL |
| Ext Btch ID: HED012S | % Moisture : 17.2 |
| Calib. Ref.: WD25002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.3 | 2.2\|2.2 |
| 2,4-DB | (ND)\|ND | 2.1 | 1.0\|1.0 |
| 2,4,5-T | 0.14J\|(ND) | 0.21 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.21 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.4\|5.4 |
| DICAMBA | (ND)\|ND | 1.4 | 0.72\|0.72 |
| DICHLOROPROP | (ND)\|ND | 2.9 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.1 | 1.0\|1.0 |
| MCPA | (ND)\|ND | 300 | 150\|150 |
| MCPP | (ND)\|ND | 300 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (223.0)\|192.0 | 181.2 | (123)\|106 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 17:23 |
| Sample ID: SL-161-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 14:53 |
| Lab Samp ID: D154-08 | Dilution Factor: 1 |
| Lab File ID: WD25015A | Matrix : SOIL |
| Ext Btch ID: HED012S | % Moisture : 10.7 |
| Calib. Ref.: WD25002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.95\|0.95 |
| 2,4,5-T | 1.0\|(ND) | 0.19 | 0.095\|0.095 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.095\|0.095 |
| DALAPON | (ND)\|ND | 10 | 5.0\|5.0 |
| DICAMBA | (ND)\|ND | 1.3 | 0.67\|0.67 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.95\|0.95 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (247.1)\|214.8 | 168.0 | (147)\|128 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 17:23 |
| Sample ID: SL-162-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 15:14 |
| Lab Samp ID: D154-09 | Dilution Factor: 1 |
| Lab File ID: WD25016A | Matrix : SOIL |
| Ext Btch ID: HED012S | % Moisture : 8.9 |
| Calib. Ref.: WD25002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| 2,4,5-T | 0.75\|(ND) | 0.19 | 0.093\|0.093 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.093\|0.093 |
| DALAPON | (ND)\|ND | 9.9 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.66\|0.66 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (213.8)\|160.6 | 164.7 | (130)\|97.5 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 17:23 |
| Sample ID: SL-166-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 15:36 |
| Lab Samp ID: D154-10 | Dilution Factor: 1 |
| Lab File ID: WD25017A | Matrix : SOIL |
| Ext Btch ID: HED012S | % Moisture : 13.8 |
| Calib. Ref.: WD25002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 0.99\|0.99 |
| 2,4,5-T | 0.59\|(ND) | 0.20 | 0.099\|0.099 |
| 2,4,5-TP(SILVEX) | 0.97\|(ND) | 0.20 | 0.099\|0.099 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.70\|0.70 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|2.1 | 2.0 | 0.99\|0.99 |
| MCPA | (ND)\|ND | 290 | 150\|150 |
| MCPP | (ND)\|ND | 290 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (200.4)\|156.9 | 174.0 | (115)\|90.2 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 17:23 |
| Sample ID: MBLK1S | Date Analyzed: 04/25/12 10:14 |
| Lab Samp ID: HED012SB | Dilution Factor: 1 |
| Lab File ID: WD25003A | Matrix : SOIL |
| Ext Btch ID: HED012S | % Moisture : NA |
| Calib. Ref.: WD25002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (185.8)\|158.3 | 150.0 | (124)\|106 | 10-150 |

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Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HED012SB | HED012SL | HED012SC | | |
| LAB FILE ID: | WD25003A | WD25004A | WD25005A | | |
| DATE EXTRACTED: | 04/23/1217:23 | 04/23/1217:23 | 04/23/1217:23 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1210:14 | 04/25/1210:58 | 04/25/1211:19 | DATE RECEIVED: | 04/23/12 |
| PREP. BATCH: | HED012S | HED012S | HED012S | | |
| CALIB. REF: | WD25002A | WD25002A | WD25002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | (14.3)\|13.7 | (95)\|91 | 15.0 | (14.5)\|13.9 | (97)\|93 | (1)\|1 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 12.5\|(14.4) | 83\|(96) | 15.0 | 12.2\|(15.5) | 81\|(103) | 2\|(7) | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | (14.3)\|12.3 | (95)\|82 | 15.0 | (14.6)\|13.9 | (97)\|93 | (2)\|12 | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 15.0 | 13.3\|(13.8) | 89\|(92) | 15.0 | 13.6\|(13.8) | 91\|(92) | 2\|(0) | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | 10.7\|(13.9) | 71\|(93) | 15.0 | 14.2\|(18.7) | 95\|(125) | 28\|(29) | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (14.5)\|12.8 | (97)\|85 | 15.0 | (14.8)\|13.0 | (99)\|87 | (2)\|2 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | 15.6\|(16.4) | 104\|(109) | 15.0 | 15.6\|(16.5) | 104\|(110) | 0\|(1) | 60-160 | 50 |
| Dinoseb | (ND)\|ND | 15.0 | (10.9)\|9.81 | (73)\|65 | 15.0 | (11.3)\|9.27 | (75)\|62 | (4)\|6 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (774)\|750 | (103)\|100 | 750 | (819)\|762 | (109)\|102 | (6)\|2 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | (688)\|622 | (92)\|83 | 750 | (746)\|654 | (99)\|87 | (8)\|5 | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 | (165.6)\|148.4 | (110)\|98.9 | 150.0 | (167.7)\|149.8 | (112)\|99.9 | 10-150 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: 13.9
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-090-NBZ-SS-0.0-0.5
LAB SAMP ID: D154-05 D154-05M D154-05S
LAB FILE ID: WD25010A WD25011A WD25012A
DATE EXTRACTED: 04/23/1217:23 04/23/1217:23 04/23/1217:23 DATE COLLECTED: 04/17/12
DATE ANALYZED: 04/25/1213:06 04/25/1213:28 04/25/1213:49 DATE RECEIVED: 04/17/12
PREP. BATCH: HED012S HED012S HED012S
CALIB. REF: WD25002A WD25002A WD25002A

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 17.4 | 12.4\|(18.8) | 71\|(108) | 17.4 | 11.8\|(19.3) | 68\|(111) | 5\|(3) | 30-140 | 50 |
| 2,4-DB | (ND)\|ND | 17.4 | (15.2)\|20.6 | (87)\|118 | 17.4 | (12.1)\|11.6 | (69)\|67 | (23)\|56* | 30-160 | 50 |
| 2,4,5-T | 0.55\|(ND) | 17.4 | 16.2\|(19.4) | 90\|(111) | 17.4 | 15.9\|(16.3) | 88\|(94) | 2\|(17) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 17.4 | 17.7\|(19.1) | 102\|(110) | 17.4 | 16.0\|(18.7) | 92\|(107) | 10\|(2) | 30-150 | 50 |
| Dalapon | (ND)\|ND | 17.4 | 8.44J\|(18.2) | 48\|(104) | 17.4 | 7.79J\|(15.4) | 45\|(88) | 8\|(17) | 10-160 | 50 |
| Dicamba | (ND)\|ND | 17.4 | 18.9\|(19.1) | 108\|(110) | 17.4 | 16.8\|(19.7) | 96\|(113) | 12\|(3) | 50-130 | 50 |
| Dichloroprop | (ND)\|ND | 17.4 | (19.1)\|17.3 | (110)\|99 | 17.4 | (18.2)\|17.6 | (104)\|101 | (5)\|2 | 60-150 | 50 |
| Dinoseb | (ND)\|ND | 17.4 | 11.6\|(13.8) | 67\|(79) | 17.4 | 12.1\|(14.4) | 69\|(83) | 4\|(4) | 10-130 | 50 |
| MCPA | (ND)\|ND | 871 | (797)\|649 | (91)\|75 | 871 | (866)\|637 | (99)\|73 | (8)\|2 | 10-160 | 50 |
| MCPP | (ND)\|ND | 871 | (962)\|913 | (110)\|105 | 871 | (974)\|954 | (112)\|110 | (1)\|4 | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 174.2 | (227.9)\|208.0 | (131)\|119 | 174.2 | (195.4)\|181.7 | (112)\|104 | 10-150 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 18:04 |
| Sample ID: EB-NBZ-SB-041712 | Date Analyzed: 04/25/12 16:47 |
| Lab Samp ID: D154-01 | Dilution Factor: 1 |
| Lab File ID: XD25007A | Matrix : WATER |
| Ext Btch ID: EXD017W | % Moisture : NA |
| Calib. Ref.: XD25003A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | ND | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 3.86 | 4.000 | 96.5 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 18:04 |
| Sample ID: EB-NBZ-SS-041712 | Date Analyzed: 04/25/12 17:21 |
| Lab Samp ID: D154-02 | Dilution Factor: 1 |
| Lab File ID: XD25008A | Matrix : WATER |
| Ext Btch ID: EXD017W | % Moisture : NA |
| Calib. Ref.: XD25003A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | ND | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 3.36 | 4.000 | 84.0 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 18:04 |
| Sample ID: MBLK1W | Date Analyzed: 04/25/12 15:04 |
| Lab Samp ID: EXD017WB | Dilution Factor: 1 |
| Lab File ID: XD25004A | Matrix : WATER |
| Ext Btch ID: EXD017W | % Moisture : NA |
| Calib. Ref.: XD25003A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| HMX | ND | 1.0 | 0.20 |
| RDX | ND | 1.0 | 0.20 |
| 1,3,5-TRINITROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DINITROBENZENE | ND | 1.0 | 0.20 |
| TETRYL | ND | 1.0 | 0.20 |
| NITROBENZENE | ND | 1.0 | 0.20 |
| 2,4,6-TRINITROTOLUENE | ND | 1.0 | 0.20 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,6-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DINITROTOLUENE | ND | 1.0 | 0.20 |
| 2-NITROTOLUENE | ND | 1.0 | 0.20 |
| 3-NITROTOLUENE | ND | 1.0 | 0.20 |
| 4-NITROTOLUENE | ND | 1.0 | 0.20 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 2.0 | 1.0 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 3.24 | 4.000 | 81.1 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 8330A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | EXD017WB | EXD017WL | EXD017WC | | |
| LAB FILE ID: | XD25004A | XD25005A | XD25006A | | |
| DATE EXTRACTED: | 04/23/1218:04 | 04/23/1218:04 | 04/23/1218:04 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1215:04 | 04/25/1215:38 | 04/25/1216:12 | DATE RECEIVED: | 04/23/12 |
| PREP. BATCH: | EXD017W | EXD017W | EXD017W | | |
| CALIB. REF: | XD25003A | XD25003A | XD25003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 4.00 | 3.21 | 80 | 4.00 | 3.43 | 86 | 7 | 70-130 | 30 |
| RDX | ND | 4.00 | 3.23 | 81 | 4.00 | 3.12 | 78 | 3 | 60-130 | 30 |
| 1,3,5-Trinitrobenzene | ND | 4.00 | 4.20 | 105 | 4.00 | 4.07 | 102 | 3 | 70-130 | 30 |
| 1,3-Dinitrobenzene | ND | 4.00 | 3.57 | 89 | 4.00 | 3.72 | 93 | 4 | 70-130 | 30 |
| Tetryl | ND | 4.00 | 3.81 | 95 | 4.00 | 3.93 | 98 | 3 | 70-130 | 30 |
| Nitrobenzene | ND | 4.00 | 3.48 | 87 | 4.00 | 3.60 | 90 | 3 | 70-130 | 30 |
| 2,4,6-Trinitrotoluene | ND | 4.00 | 3.72 | 93 | 4.00 | 3.68 | 92 | 1 | 70-130 | 30 |
| 4-Amino-2,6-Dinitrotoluene | ND | 4.00 | 3.75 | 94 | 4.00 | 3.74 | 93 | 0 | 70-130 | 30 |
| 2-Amino-4,6-Dinitrotoluene | ND | 4.00 | 3.71 | 93 | 4.00 | 3.69 | 92 | 1 | 70-130 | 30 |
| 2,6-Dinitrotoluene | ND | 4.00 | 4.23 | 106 | 4.00 | 4.33 | 108 | 2 | 70-130 | 30 |
| 2,4-Dinitrotoluene | ND | 4.00 | 4.23 | 106 | 4.00 | 4.45 | 111 | 5 | 70-130 | 30 |
| 2-Nitrotoluene | ND | 4.00 | 3.97 | 99 | 4.00 | 4.05 | 101 | 2 | 70-130 | 30 |
| 3-Nitrotoluene | ND | 4.00 | 3.74 | 94 | 4.00 | 3.98 | 99 | 6 | 70-130 | 30 |
| 4-Nitrotoluene | ND | 4.00 | 4.08 | 102 | 4.00 | 3.64 | 91 | 11 | 70-130 | 30 |
| 2,4-Diamino-6-nitrotoluene | ND | 4.00 | 1.44J | 36 | 4.00 | 1.32J | 33 | 8 | 20-130 | 30 |
| 2,6-Diamino-4-nitrotoluene | ND | 4.00 | 1.47J | 37 | 4.00 | 1.41J | 35 | 4 | 20-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 4.00 | 3.89 | 97 | 4.00 | 3.79 | 95 | 65-135 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-014-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 20:45 |
| Lab Samp ID: D154-03 | Dilution Factor: .99 |
| Lab File ID: XD25014A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25012A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1920 | 1980 | 96.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-088-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 21:19 |
| Lab Samp ID: D154-04 | Dilution Factor: 1 |
| Lab File ID: XD25015A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25012A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1960 | 2000 | 98.1 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-090-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 21:53 |
| Lab Samp ID: D154-05 | Dilution Factor: .99 |
| Lab File ID: XD25016A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25012A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1880 | 1980 | 94.8 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/24/12 |
| Batch No. : 12D154 | Date Extracted: 04/24/12 18:47 |
| Sample ID: MBLK1S | Date Analyzed: 04/25/12 17:55 |
| Lab Samp ID: EXD018SB | Dilution Factor: 1 |
| Lab File ID: XD25009A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25003A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1950 | 2000 | 97.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD018SB | EXD018SL | EXD018SC | | |
| LAB FILE ID: | XD25009A | XD25010A | XD25011A | | |
| DATE EXTRACTED: | 04/24/1218:47 | 04/24/1218:47 | 04/24/1218:47 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1217:55 | 04/25/1218:29 | 04/25/1219:03 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | EXD018S | EXD018S | EXD018S | | |
| CALIB. REF: | XD25003A | XD25003A | XD25003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 2010 | 100 | 2000 | 1960 | 98 | 3 | 70-130 | 50 |
| RDX | ND | 2000 | 2050 | 102 | 2000 | 2100 | 105 | 2 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2260 | 113 | 2000 | 2250 | 112 | 1 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2140 | 107 | 2000 | 2190 | 109 | 2 | 70-130 | 50 |
| Tetryl | ND | 2000 | 1790 | 90 | 2000 | 1880 | 94 | 5 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 2140 | 107 | 2000 | 2270 | 114 | 6 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 1830 | 91 | 2000 | 1770 | 89 | 3 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 2030 | 102 | 2000 | 1940 | 97 | 5 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 1960 | 98 | 2000 | 1920 | 96 | 2 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2000 | 100 | 2000 | 2130 | 106 | 6 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2130 | 106 | 2000 | 2220 | 111 | 4 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 2220 | 111 | 2000 | 2190 | 109 | 1 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1920 | 96 | 2000 | 1960 | 98 | 2 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 2010 | 101 | 2000 | 1810 | 90 | 11 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1890 | 95 | 2000 | 1980 | 99 | 5 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2070 | 104 | 2000 | 2140 | 107 | 4 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1930 | 96 | 2000 | 1960 | 98 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 17:29 |
| Sample ID: EB-NBZ-SB-041712 | Date Analyzed: 04/25/12 16:35 |
| Lab Samp ID: D154-01 | Dilution Factor: 1 |
| Lab File ID: PD25009A | Matrix : WATER |
| Ext Btch ID: EXD016W | % Moisture : NA |
| Calib. Ref.: PD25005A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 594 | 500.0 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/17/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/17/12 |
| Batch No. | : 12D154 | Date Extracted | : 04/23/12 17:29 |
| Sample ID | : EB-NBZ-SS-041712 | Date Analyzed | : 04/25/12 16:48 |
| Lab Samp ID | : D154-02 | Dilution Factor | : 1 |
| Lab File ID | : PD25010A | Matrix | : WATER |
| Ext Btch ID | : EXD016W | % Moisture | : NA |
| Calib. Ref. | : PD25005A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 597 | 500.0 | 119 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D154 | Date Extracted: 04/23/12 17:29 |
| Sample ID: MBLK1W | Date Analyzed: 04/25/12 15:53 |
| Lab Samp ID: EXD016WB | Dilution Factor: 1 |
| Lab File ID: PD25006A | Matrix : WATER |
| Ext Btch ID: EXD016W | % Moisture : NA |
| Calib. Ref.: PD25005A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| NITROGLYCERIN | ND | 250 | 120 |
| PETN | ND | 250 | 120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 599 | 500.0 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | EXD016WB | EXD016WL | EXD016WC | | |
| LAB FILE ID: | PD25006A | PD25007A | PD25008A | | |
| DATE EXTRACTED: | 04/23/1217:29 | 04/23/1217:29 | 04/23/1217:29 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1215:53 | 04/25/1216:07 | 04/25/1216:21 | DATE RECEIVED: | 04/23/12 |
| PREP. BATCH: | EXD016W | EXD016W | EXD016W | | |
| CALIB. REF: | PD25005A | PD25005A | PD25005A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 1870 | 1910 | 102 | 1870 | 1970 | 105 | 3 | 50-150 | 30 |
| PETN | ND | 1870 | 1910 | 102 | 1870 | 1930 | 103 | 1 | 50-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 500 | 592 | 118 | 500 | 602 | 120 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/17/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/17/12 |
| Batch No. | : 12D154 | Date Extracted | : 04/24/12 18:47 |
| Sample ID | : SL-014-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/25/12 18:54 |
| Lab Samp ID | : D154-03 | Dilution Factor | : .99 |
| Lab File ID | : PD25019A | Matrix | : SOIL |
| Ext Btch ID | : EXD018S | % Moisture | : NA |
| Calib. Ref. | : PD25017A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2460 | 1980 | 124 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/17/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/17/12 |
| Batch No. | : 12D154 | Date Extracted | : 04/24/12 18:47 |
| Sample ID | : SL-088-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/25/12 19:08 |
| Lab Samp ID | : D154-04 | Dilution Factor | : 1 |
| Lab File ID | : PD25020A | Matrix | : SOIL |
| Ext Btch ID | : EXD018S | % Moisture | : NA |
| Calib. Ref. | : PD25017A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2590 | 2000 | 130 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/17/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/17/12 |
| Batch No. | : 12D154 | Date Extracted | : 04/24/12 18:47 |
| Sample ID | : SL-090-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/25/12 19:21 |
| Lab Samp ID | : D154-05 | Dilution Factor | : .99 |
| Lab File ID | : PD25021A | Matrix | : SOIL |
| Ext Btch ID | : EXD018S | % Moisture | : NA |
| Calib. Ref. | : PD25017A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2440 | 1980 | 123 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/24/12 |
| Batch No. : 12D154 | Date Extracted: 04/24/12 18:47 |
| Sample ID: MBLK1S | Date Analyzed: 04/25/12 17:44 |
| Lab Samp ID: EXD018SB | Dilution Factor: 1 |
| Lab File ID: PD25014A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: PD25005A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2490 | 2000 | 125 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD018SB | EXD018SX | EXD018SY | | |
| LAB FILE ID: | PD25014A | PD25015A | PD25016A | | |
| DATE EXTRACTED: | 04/24/1218:47 | 04/24/1218:47 | 04/24/1218:47 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1217:44 | 04/25/1217:58 | 04/25/1218:12 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | EXD018S | EXD018S | EXD018S | | |
| CALIB. REF: | PD25005A | PD25005A | PD25005A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7920 | 106 | 7500 | 7970 | 106 | 1 | 50-150 | 50 |
| PETN | ND | 7500 | 7670 | 102 | 7500 | 7500 | 100 | 2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2380 | 119 | 2000 | 2400 | 120 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/17/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/17/12 |
| SDG NO. | : 12D154 | Date Extracted | : 04/24/12 10:27 |
| Sample ID | : EB-NBZ-SB-041712 | Date Analyzed | : 05/07/12 13:32 |
| Lab Samp ID | : D154-01 | Dilution Factor | : 1 |
| Lab File ID | : 98E05022 | Matrix | : WATER |
| Ext Btch ID | : IMD034W | % Moisture | : NA |
| Calib. Ref. | : 98E05017 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Aluminum | 0.0217J | 0.100 | 0.0200 |
| Antimony | ND | 0.00100 | 0.000500 |
| Arsenic | ND | 0.00100 | 0.000200 |
| Barium | ND | 0.00100 | 0.000500 |
| Beryllium | ND | 0.00100 | 0.000100 |
| Boron | ND | 0.0100 | 0.00500 |
| Cadmium | ND | 0.00100 | 0.000200 |
| Calcium | ND | 0.100 | 0.0250 |
| Chromium | ND | 0.00100 | 0.000200 |
| Cobalt | ND | 0.00100 | 0.000200 |
| Copper | 0.000894J | 0.00100 | 0.000500 |
| Iron | ND | 0.100 | 0.0100 |
| Lead | ND | 0.00100 | 0.000100 |
| Magnesium | ND | 0.100 | 0.0100 |
| Manganese | ND | 0.00100 | 0.000200 |
| Molybdenum | ND | 0.00200 | 0.000500 |
| Nickel | ND | 0.00100 | 0.000200 |
| Potassium | ND | 0.100 | 0.0200 |
| Selenium | ND | 0.00100 | 0.000300 |
| Silver | ND | 0.00100 | 0.000200 |
| Sodium | ND | 0.100 | 0.0500 |
| Strontium | ND | 0.00200 | 0.00100 |
| Thallium | ND | 0.00100 | 0.000200 |
| Tin | ND | 0.00100 | 0.000200 |
| Titanium | ND | 0.00200 | 0.000500 |
| Vanadium | ND | 0.00100 | 0.000500 |
| Zinc | ND | 0.0200 | 0.0100 |
| Lithium | ND | 0.00200 | 0.000500 |
| Phosphorus | ND | 0.0500 | 0.0250 |
| Zirconium | ND | 0.00500 | 0.00200 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/17/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/17/12 |
| SDG NO. | : 12D154 | Date Extracted | : 04/24/12 10:27 |
| Sample ID | : EB-NBZ-SS-041712 | Date Analyzed | : 05/07/12 13:37 |
| Lab Samp ID | : D154-02 | Dilution Factor | : 1 |
| Lab File ID | : 98E05023 | Matrix | : WATER |
| Ext Btch ID | : IMD034W | % Moisture | : NA |
| Calib. Ref. | : 98E05017 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Aluminum | ND | 0.100 | 0.0200 |
| Antimony | ND | 0.00100 | 0.000500 |
| Arsenic | ND | 0.00100 | 0.000200 |
| Barium | ND | 0.00100 | 0.000500 |
| Beryllium | ND | 0.00100 | 0.000100 |
| Boron | ND | 0.0100 | 0.00500 |
| Cadmium | ND | 0.00100 | 0.000200 |
| Calcium | 0.0492J | 0.100 | 0.0250 |
| Chromium | ND | 0.00100 | 0.000200 |
| Cobalt | ND | 0.00100 | 0.000200 |
| Copper | 0.000613J | 0.00100 | 0.000500 |
| Iron | ND | 0.100 | 0.0100 |
| Lead | ND | 0.00100 | 0.000100 |
| Magnesium | ND | 0.100 | 0.0100 |
| Manganese | ND | 0.00100 | 0.000200 |
| Molybdenum | ND | 0.00200 | 0.000500 |
| Nickel | 0.000255J | 0.00100 | 0.000200 |
| Potassium | ND | 0.100 | 0.0200 |
| Selenium | ND | 0.00100 | 0.000300 |
| Silver | ND | 0.00100 | 0.000200 |
| Sodium | ND | 0.100 | 0.0500 |
| Strontium | ND | 0.00200 | 0.00100 |
| Thallium | ND | 0.00100 | 0.000200 |
| Tin | ND | 0.00100 | 0.000200 |
| Titanium | ND | 0.00200 | 0.000500 |
| Vanadium | ND | 0.00100 | 0.000500 |
| Zinc | ND | 0.0200 | 0.0100 |
| Lithium | ND | 0.00200 | 0.000500 |
| Phosphorus | ND | 0.0500 | 0.0250 |
| Zirconium | ND | 0.00500 | 0.00200 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/24/12 |
| SDG NO. | : 12D154 | Date Extracted | : 04/24/12 10:27 |
| Sample ID | : MBLK1W | Date Analyzed | : 05/07/12 13:19 |
| Lab Samp ID | : IMD034WB | Dilution Factor | : 1 |
| Lab File ID | : 98E05019 | Matrix | : WATER |
| Ext Btch ID | : IMD034W | % Moisture | : NA |
| Calib. Ref. | : 98E05017 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Aluminum | ND | 0.100 | 0.0200 |
| Antimony | ND | 0.00100 | 0.000500 |
| Arsenic | ND | 0.00100 | 0.000200 |
| Barium | ND | 0.00100 | 0.000500 |
| Beryllium | ND | 0.00100 | 0.000100 |
| Boron | ND | 0.0100 | 0.00500 |
| Cadmium | ND | 0.00100 | 0.000200 |
| Calcium | ND | 0.100 | 0.0250 |
| Chromium | ND | 0.00100 | 0.000200 |
| Cobalt | ND | 0.00100 | 0.000200 |
| Copper | ND | 0.00100 | 0.000500 |
| Iron | ND | 0.100 | 0.0100 |
| Lead | ND | 0.00100 | 0.000100 |
| Magnesium | ND | 0.100 | 0.0100 |
| Manganese | ND | 0.00100 | 0.000200 |
| Molybdenum | ND | 0.00200 | 0.000500 |
| Nickel | ND | 0.00100 | 0.000200 |
| Potassium | ND | 0.100 | 0.0200 |
| Selenium | ND | 0.00100 | 0.000300 |
| Silver | ND | 0.00100 | 0.000200 |
| Sodium | ND | 0.100 | 0.0500 |
| Strontium | ND | 0.00200 | 0.00100 |
| Thallium | ND | 0.00100 | 0.000200 |
| Tin | ND | 0.00100 | 0.000200 |
| Titanium | ND | 0.00200 | 0.000500 |
| Vanadium | ND | 0.00100 | 0.000500 |
| Zinc | ND | 0.0200 | 0.0100 |
| Lithium | ND | 0.00200 | 0.000500 |
| Phosphorus | ND | 0.0500 | 0.0250 |
| Zirconium | ND | 0.00500 | 0.00200 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D154
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| CONTROL NO.: | IMD034WB | IMD034WL | IMD034WC | | |
| LAB FILE ID: | 98E05019 | 98E05020 | 98E05021 | | |
| DATIME EXTRCTD: | 04/24/1210:27 | 04/24/1210:27 | 04/24/1210:27 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 05/07/1213:19 | 05/07/1213:23 | 05/07/1213:28 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | IMD034W | IMD034W | IMD034W | | |
| CALIB. REF: | 98E05017 | 98E05017 | 98E05017 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/L | SPIKE AMT mg/L | BS RSLT mg/L | BS % REC | SPIKE AMT mg/L | BSD RSLT mg/L | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2.50 | 2.50 | 100 | 2.50 | 2.66 | 106 | 6 | 80-120 | 20 |
| Antimony | ND | 0.0250 | 0.0253 | 101 | 0.0250 | 0.0270 | 108 | 7 | 80-120 | 20 |
| Arsenic | ND | 0.0250 | 0.0251 | 101 | 0.0250 | 0.0265 | 106 | 5 | 80-120 | 20 |
| Barium | ND | 0.0250 | 0.0250 | 100 | 0.0250 | 0.0266 | 106 | 6 | 80-120 | 20 |
| Beryllium | ND | 0.0250 | 0.0255 | 102 | 0.0250 | 0.0270 | 108 | 6 | 80-120 | 20 |
| Boron | ND | 0.0250 | 0.0258 | 103 | 0.0250 | 0.0276 | 110 | 7 | 80-120 | 20 |
| Cadmium | ND | 0.0250 | 0.0252 | 101 | 0.0250 | 0.0267 | 107 | 6 | 80-120 | 20 |
| Calcium | ND | 2.50 | 2.62 | 105 | 2.50 | 2.78 | 111 | 6 | 80-120 | 20 |
| Chromium | ND | 0.0250 | 0.0247 | 99 | 0.0250 | 0.0259 | 103 | 5 | 80-120 | 20 |
| Cobalt | ND | 0.0250 | 0.0245 | 98 | 0.0250 | 0.0261 | 104 | 6 | 80-120 | 20 |
| Copper | ND | 0.0250 | 0.0252 | 101 | 0.0250 | 0.0263 | 105 | 4 | 80-120 | 20 |
| Iron | ND | 2.50 | 2.59 | 103 | 2.50 | 2.74 | 110 | 6 | 80-120 | 20 |
| Lead | ND | 0.0250 | 0.0255 | 102 | 0.0250 | 0.0264 | 106 | 3 | 80-120 | 20 |
| Magnesium | ND | 2.50 | 2.52 | 101 | 2.50 | 2.66 | 107 | 6 | 80-120 | 20 |
| Manganese | ND | 0.0250 | 0.0243 | 97 | 0.0250 | 0.0261 | 104 | 7 | 80-120 | 20 |
| Molybdenum | ND | 0.0250 | 0.0241 | 96 | 0.0250 | 0.0255 | 102 | 6 | 80-120 | 20 |
| Nickel | ND | 0.0250 | 0.0255 | 102 | 0.0250 | 0.0282 | 113 | 10 | 80-120 | 20 |
| Potassium | ND | 2.50 | 2.60 | 104 | 2.50 | 2.75 | 110 | 6 | 80-120 | 20 |
| Selenium | ND | 0.0250 | 0.0256 | 102 | 0.0250 | 0.0273 | 109 | 6 | 80-120 | 20 |
| Silver | ND | 0.0250 | 0.0244 | 97 | 0.0250 | 0.0259 | 104 | 6 | 80-120 | 20 |
| Sodium | ND | 2.50 | 2.55 | 102 | 2.50 | 2.71 | 108 | 6 | 80-120 | 20 |
| Strontium | ND | 0.0250 | 0.0246 | 98 | 0.0250 | 0.0260 | 104 | 6 | 80-120 | 20 |
| Thallium | ND | 0.0250 | 0.0253 | 101 | 0.0250 | 0.0263 | 105 | 4 | 80-120 | 20 |
| Tin | ND | 0.0250 | 0.0253 | 101 | 0.0250 | 0.0266 | 106 | 5 | 80-120 | 20 |
| Titanium | ND | 0.0250 | 0.0251 | 100 | 0.0250 | 0.0267 | 107 | 6 | 80-120 | 20 |
| Vanadium | ND | 0.0250 | 0.0244 | 98 | 0.0250 | 0.0255 | 102 | 4 | 80-120 | 20 |
| Zinc | ND | 0.0500 | 0.0525 | 105 | 0.0500 | 0.0578 | 116 | 10 | 80-120 | 20 |
| Lithium | ND | 0.0250 | 0.0245 | 98 | 0.0250 | 0.0257 | 103 | 5 | 80-120 | 20 |
| Phosphorus | ND | 0.250 | 0.250 | 100 | 0.250 | 0.266 | 106 | 6 | 80-120 | 20 |
| Zirconium | ND | 0.0250 | 0.0253 | 101 | 0.0250 | 0.0273 | 109 | 8 | 80-120 | 20 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| SDG NO. : 12D154 | Date Extracted: 04/24/12 10:33 |
| Sample ID: SL-014-NBZ-SS-0.0-0.5 | Date Analyzed: 05/03/12 19:53 |
| Lab Samp ID: D154-03 | Dilution Factor: 0.990 |
| Lab File ID: 98E03113 | Matrix : SOIL |
| Ext Btch ID: IMD035S | % Moisture : 20.3 |
| Calib. Ref.: 98E03106 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9010 | 29.8 | 14.9 |
| Antimony | 0.158J | 0.248 | 0.124 |
| Arsenic | 9.17 | 0.497 | 0.248 |
| Barium | 71.1 | 0.497 | 0.248 |
| Beryllium | 0.320 | 0.124 | 0.0621 |
| Boron | ND | 6.21 | 3.11 |
| Cadmium | 0.151 | 0.124 | 0.0621 |
| Calcium | 2970 | 24.8 | 12.4 |
| Chromium | 11.1 | 0.497 | 0.248 |
| Cobalt | 4.04 | 0.124 | 0.0621 |
| Copper | 5.91 | 0.497 | 0.248 |
| Iron | 15700 | 24.8 | 12.4 |
| Lead | 9.89 | 0.248 | 0.124 |
| Magnesium | 3810 | 12.4 | 6.21 |
| Manganese | 234 | 0.621 | 0.311 |
| Molybdenum | 0.328 | 0.124 | 0.0621 |
| Nickel | 7.37 | 0.497 | 0.248 |
| Potassium | 3130 | 74.5 | 37.3 |
| Selenium | ND | 0.497 | 0.248 |
| Silver | ND | 0.124 | 0.0621 |
| Sodium | 78.6J | 124 | 62.1 |
| Strontium | 14.8 | 0.621 | 0.311 |
| Thallium | 0.205 | 0.124 | 0.0621 |
| Tin | ND | 12.4 | 6.21 |
| Titanium | 812 | 1.24 | 0.621 |
| Vanadium | 23.8 | 0.124 | 0.0621 |
| Zinc | 49.8 | 3.73 | 1.86 |
| Lithium | 19.0 | 2.48 | 1.24 |
| Phosphorus | 337 | 14.9 | 7.45 |
| Zirconium | ND | 6.21 | 3.11 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/17/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/17/12 |
| SDG NO. | : 12D154 | Date Extracted | : 04/24/12 10:33 |
| Sample ID | : SL-088-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/03/12 19:57 |
| Lab Samp ID | : D154-04 | Dilution Factor | : 0.995 |
| Lab File ID | : 98E03114 | Matrix | : SOIL |
| Ext Btch ID | : IMD035S | % Moisture | : 23.6 |
| Calib. Ref. | : 98E03106 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 8520 | 31.3 | 15.6 |
| Antimony | 0.200J | 0.260 | 0.130 |
| Arsenic | 8.96 | 0.521 | 0.260 |
| Barium | 81.2 | 0.521 | 0.260 |
| Beryllium | 0.328 | 0.130 | 0.0651 |
| Boron | ND | 6.51 | 3.26 |
| Cadmium | 0.217 | 0.130 | 0.0651 |
| Calcium | 4560 | 26.0 | 13.0 |
| Chromium | 11.3 | 0.521 | 0.260 |
| Cobalt | 4.21 | 0.130 | 0.0651 |
| Copper | 7.39 | 0.521 | 0.260 |
| Iron | 14500 | 26.0 | 13.0 |
| Lead | 11.6 | 0.260 | 0.130 |
| Magnesium | 3820 | 13.0 | 6.51 |
| Manganese | 252 | 0.651 | 0.326 |
| Molybdenum | 0.359 | 0.130 | 0.0651 |
| Nickel | 8.17 | 0.521 | 0.260 |
| Potassium | 2820 | 78.1 | 39.1 |
| Selenium | ND | 0.521 | 0.260 |
| Silver | ND | 0.130 | 0.0651 |
| Sodium | 84.8J | 130 | 65.1 |
| Strontium | 24.0 | 0.651 | 0.326 |
| Thallium | 0.169 | 0.130 | 0.0651 |
| Tin | ND | 13.0 | 6.51 |
| Titanium | 734 | 1.30 | 0.651 |
| Vanadium | 22.9 | 0.130 | 0.0651 |
| Zinc | 52.1 | 3.91 | 1.95 |
| Lithium | 16.8 | 2.60 | 1.30 |
| Phosphorus | 401 | 15.6 | 7.81 |
| Zirconium | ND | 6.51 | 3.26 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/17/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/17/12 |
| SDG NO. | : 12D154 | Date Extracted | : 04/24/12 10:33 |
| Sample ID | : SL-090-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/03/12 20:02 |
| Lab Samp ID | : D154-05 | Dilution Factor | : 0.995 |
| Lab File ID | : 98E03115 | Matrix | : SOIL |
| Ext Btch ID | : IMD035S | % Moisture | : 13.9 |
| Calib. Ref. | : 98E03106 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9610 | 27.7 | 13.9 |
| Antimony | 0.173J | 0.231 | 0.116 |
| Arsenic | 3.34 | 0.462 | 0.231 |
| Barium | 73.7 | 0.462 | 0.231 |
| Beryllium | 0.376 | 0.116 | 0.0578 |
| Boron | 4.52J | 5.78 | 2.89 |
| Cadmium | 0.200 | 0.116 | 0.0578 |
| Calcium | 4080 | 23.1 | 11.6 |
| Chromium | 12.4 | 0.462 | 0.231 |
| Cobalt | 4.56 | 0.116 | 0.0578 |
| Copper | 6.64 | 0.462 | 0.231 |
| Iron | 17100 | 23.1 | 11.6 |
| Lead | 11.7 | 0.231 | 0.116 |
| Magnesium | 4420 | 11.6 | 5.78 |
| Manganese | 286 | 0.578 | 0.289 |
| Molybdenum | 0.389 | 0.116 | 0.0578 |
| Nickel | 8.60 | 0.462 | 0.231 |
| Potassium | 3470 | 69.3 | 34.7 |
| Selenium | ND | 0.462 | 0.231 |
| Silver | ND | 0.116 | 0.0578 |
| Sodium | 81.1J | 116 | 57.8 |
| Strontium | 15.6 | 0.578 | 0.289 |
| Thallium | 0.214 | 0.116 | 0.0578 |
| Tin | ND | 11.6 | 5.78 |
| Titanium | 863 | 1.16 | 0.578 |
| Vanadium | 26.9 | 0.116 | 0.0578 |
| Zinc | 53.3 | 3.47 | 1.73 |
| Lithium | 24.0 | 2.31 | 1.16 |
| Phosphorus | 369 | 13.9 | 6.93 |
| Zirconium | ND | 5.78 | 2.89 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/17/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/17/12 |
| SDG NO. | : 12D154 | Date Extracted | : 04/24/12 10:33 |
| Sample ID | : SL-147-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/03/12 20:06 |
| Lab Samp ID | : D154-06 | Dilution Factor | : 0.971 |
| Lab File ID | : 98E03116 | Matrix | : SOIL |
| Ext Btch ID | : IMD035S | % Moisture | : 13.4 |
| Calib. Ref. | : 98E03106 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11000 | 26.9 | 13.5 |
| Antimony | 0.174J | 0.224 | 0.112 |
| Arsenic | 4.96 | 0.448 | 0.224 |
| Barium | 78.3 | 0.448 | 0.224 |
| Beryllium | 0.487 | 0.112 | 0.0561 |
| Boron | 3.38J | 5.61 | 2.80 |
| Cadmium | 0.194 | 0.112 | 0.0561 |
| Calcium | 3920 | 22.4 | 11.2 |
| Chromium | 13.4 | 0.448 | 0.224 |
| Cobalt | 5.70 | 0.112 | 0.0561 |
| Copper | 8.25 | 0.448 | 0.224 |
| Iron | 20300 | 22.4 | 11.2 |
| Lead | 10.5 | 0.224 | 0.112 |
| Magnesium | 4300 | 11.2 | 5.61 |
| Manganese | 270 | 0.561 | 0.280 |
| Molybdenum | 0.433 | 0.112 | 0.0561 |
| Nickel | 9.41 | 0.448 | 0.224 |
| Potassium | 3570 | 67.3 | 33.6 |
| Selenium | 0.259J | 0.448 | 0.224 |
| Silver | ND | 0.112 | 0.0561 |
| Sodium | 67.1J | 112 | 56.1 |
| Strontium | 13.9 | 0.561 | 0.280 |
| Thallium | 0.249 | 0.112 | 0.0561 |
| Tin | ND | 11.2 | 5.61 |
| Titanium | 770 | 1.12 | 0.561 |
| Vanadium | 29.2 | 0.112 | 0.0561 |
| Zinc | 62.5 | 3.36 | 1.68 |
| Lithium | 26.0 | 2.24 | 1.12 |
| Phosphorus | 403 | 13.5 | 6.73 |
| Zirconium | ND | 5.61 | 2.80 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/17/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/17/12 |
| SDG NO. | : 12D154 | Date Extracted | : 04/24/12 10:33 |
| Sample ID | : SL-156-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/03/12 20:25 |
| Lab Samp ID | : D154-07 | Dilution Factor | : 0.980 |
| Lab File ID | : 98E03120 | Matrix | : SOIL |
| Ext Btch ID | : IMD035S | % Moisture | : 17.2 |
| Calib. Ref. | : 98E03118 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 19300 | 28.4 | 14.2 |
| Antimony | 0.303 | 0.237 | 0.118 |
| Arsenic | 7.80 | 0.473 | 0.237 |
| Barium | 144 | 0.473 | 0.237 |
| Beryllium | 0.871 | 0.118 | 0.0592 |
| Boron | 4.02J | 5.92 | 2.96 |
| Cadmium | 0.377 | 0.118 | 0.0592 |
| Calcium | 4100 | 23.7 | 11.8 |
| Chromium | 24.7 | 0.473 | 0.237 |
| Cobalt | 10.0 | 0.118 | 0.0592 |
| Copper | 15.8 | 0.473 | 0.237 |
| Iron | 30000 | 23.7 | 11.8 |
| Lead | 17.8 | 0.237 | 0.118 |
| Magnesium | 6190 | 11.8 | 5.92 |
| Manganese | 423 | 0.592 | 0.296 |
| Molybdenum | 0.766 | 0.118 | 0.0592 |
| Nickel | 20.8 | 0.473 | 0.237 |
| Potassium | 6350 | 71.0 | 35.5 |
| Selenium | 0.338J | 0.473 | 0.237 |
| Silver | 0.0895J | 0.118 | 0.0592 |
| Sodium | 63.7J | 118 | 59.2 |
| Strontium | 28.9 | 0.592 | 0.296 |
| Thallium | 0.404 | 0.118 | 0.0592 |
| Tin | ND | 11.8 | 5.92 |
| Titanium | 933 | 1.18 | 0.592 |
| Vanadium | 50.0 | 0.118 | 0.0592 |
| Zinc | 93.9 | 3.55 | 1.78 |
| Lithium | 34.3 | 2.37 | 1.18 |
| Phosphorus | 537 | 14.2 | 7.10 |
| Zirconium | ND | 5.92 | 2.96 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| SDG NO. : 12D154 | Date Extracted: 04/24/12 10:33 |
| Sample ID: SL-161-NBZ-SS-0.0-0.5 | Date Analyzed: 05/03/12 20:29 |
| Lab Samp ID: D154-08 | Dilution Factor: 0.995 |
| Lab File ID: 98E03121 | Matrix : SOIL |
| Ext Btch ID: IMD035S | % Moisture : 10.7 |
| Calib. Ref.: 98E03118 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11100 | 26.7 | 13.4 |
| Antimony | 0.167J | 0.223 | 0.111 |
| Arsenic | 4.76 | 0.446 | 0.223 |
| Barium | 87.9 | 0.446 | 0.223 |
| Beryllium | 0.530 | 0.111 | 0.0557 |
| Boron | ND | 5.57 | 2.79 |
| Cadmium | 0.225 | 0.111 | 0.0557 |
| Calcium | 2730 | 22.3 | 11.1 |
| Chromium | 13.7 | 0.446 | 0.223 |
| Cobalt | 5.53 | 0.111 | 0.0557 |
| Copper | 7.33 | 0.446 | 0.223 |
| Iron | 20900 | 22.3 | 11.1 |
| Lead | 10.6 | 0.223 | 0.111 |
| Magnesium | 4050 | 11.1 | 5.57 |
| Manganese | 345 | 0.557 | 0.279 |
| Molybdenum | 0.471 | 0.111 | 0.0557 |
| Nickel | 9.31 | 0.446 | 0.223 |
| Potassium | 3170 | 66.9 | 33.4 |
| Selenium | 0.244J | 0.446 | 0.223 |
| Silver | ND | 0.111 | 0.0557 |
| Sodium | ND | 111 | 55.7 |
| Strontium | 14.1 | 0.557 | 0.279 |
| Thallium | 0.275 | 0.111 | 0.0557 |
| Tin | ND | 11.1 | 5.57 |
| Titanium | 809 | 1.11 | 0.557 |
| Vanadium | 28.7 | 0.111 | 0.0557 |
| Zinc | 56.4 | 3.34 | 1.67 |
| Lithium | 25.7 | 2.23 | 1.11 |
| Phosphorus | 356 | 13.4 | 6.69 |
| Zirconium | ND | 5.57 | 2.79 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/17/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/17/12 |
| SDG NO. : 12D154 | Date Extracted: 04/24/12 10:33 |
| Sample ID: SL-162-NBZ-SS-0.0-0.5 | Date Analyzed: 05/03/12 20:34 |
| Lab Samp ID: D154-09 | Dilution Factor: 1.00 |
| Lab File ID: 98E03122 | Matrix : SOIL |
| Ext Btch ID: IMD035S | % Moisture : 8.9 |
| Calib. Ref.: 98E03118 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 8050 | 26.3 | 13.2 |
| Antimony | 0.113J | 0.220 | 0.110 |
| Arsenic | 2.27 | 0.439 | 0.220 |
| Barium | 55.4 | 0.439 | 0.220 |
| Beryllium | 0.308 | 0.110 | 0.0549 |
| Boron | ND | 5.49 | 2.74 |
| Cadmium | 0.176 | 0.110 | 0.0549 |
| Calcium | 2370 | 22.0 | 11.0 |
| Chromium | 8.06 | 0.439 | 0.220 |
| Cobalt | 3.61 | 0.110 | 0.0549 |
| Copper | 4.20 | 0.439 | 0.220 |
| Iron | 16400 | 22.0 | 11.0 |
| Lead | 9.85 | 0.220 | 0.110 |
| Magnesium | 4000 | 11.0 | 5.49 |
| Manganese | 251 | 0.549 | 0.274 |
| Molybdenum | 0.238 | 0.110 | 0.0549 |
| Nickel | 5.06 | 0.439 | 0.220 |
| Potassium | 2830 | 65.9 | 32.9 |
| Selenium | ND | 0.439 | 0.220 |
| Silver | ND | 0.110 | 0.0549 |
| Sodium | ND | 110 | 54.9 |
| Strontium | 8.90 | 0.549 | 0.274 |
| Thallium | 0.182 | 0.110 | 0.0549 |
| Tin | ND | 11.0 | 5.49 |
| Titanium | 721 | 1.10 | 0.549 |
| Vanadium | 19.4 | 0.110 | 0.0549 |
| Zinc | 49.8 | 3.29 | 1.65 |
| Lithium | 25.6 | 2.20 | 1.10 |
| Phosphorus | 356 | 13.2 | 6.59 |
| Zirconium | ND | 5.49 | 2.74 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/17/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/17/12 |
| SDG NO. | : 12D154 | Date Extracted | : 04/24/12 10:33 |
| Sample ID | : SL-166-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/03/12 20:38 |
| Lab Samp ID | : D154-10 | Dilution Factor | : 0.985 |
| Lab File ID | : 98E03123 | Matrix | : SOIL |
| Ext Btch ID | : IMD035S | % Moisture | : 13.8 |
| Calib. Ref. | : 98E03118 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 8200 | 27.4 | 13.7 |
| Antimony | 0.133J | 0.229 | 0.114 |
| Arsenic | 2.46 | 0.457 | 0.229 |
| Barium | 57.5 | 0.457 | 0.229 |
| Beryllium | 0.322 | 0.114 | 0.0571 |
| Boron | ND | 5.71 | 2.86 |
| Cadmium | 0.219 | 0.114 | 0.0571 |
| Calcium | 3230 | 22.9 | 11.4 |
| Chromium | 9.00 | 0.457 | 0.229 |
| Cobalt | 4.25 | 0.114 | 0.0571 |
| Copper | 4.96 | 0.457 | 0.229 |
| Iron | 15700 | 22.9 | 11.4 |
| Lead | 14.3 | 0.229 | 0.114 |
| Magnesium | 3900 | 11.4 | 5.71 |
| Manganese | 338 | 0.571 | 0.286 |
| Molybdenum | 0.297 | 0.114 | 0.0571 |
| Nickel | 6.07 | 0.457 | 0.229 |
| Potassium | 2570 | 68.6 | 34.3 |
| Selenium | ND | 0.457 | 0.229 |
| Silver | ND | 0.114 | 0.0571 |
| Sodium | ND | 114 | 57.1 |
| Strontium | 13.3 | 0.571 | 0.286 |
| Thallium | 0.174 | 0.114 | 0.0571 |
| Tin | ND | 11.4 | 5.71 |
| Titanium | 687 | 1.14 | 0.571 |
| Vanadium | 20.3 | 0.114 | 0.0571 |
| Zinc | 49.2 | 3.43 | 1.71 |
| Lithium | 24.7 | 2.29 | 1.14 |
| Phosphorus | 368 | 13.7 | 6.86 |
| Zirconium | ND | 5.71 | 2.86 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/16/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/16/12 |
| SDG NO. | : 12D154 | Date Extracted | : 04/24/12 10:33 |
| Sample ID | : SL-173-NBZ-SS-0.0-0.5DL | Date Analyzed | : 05/03/12 19:11 |
| Lab Samp ID | : D146-05J | Dilution Factor | : 4.90 |
| Lab File ID | : 98E03104 | Matrix | : SOIL |
| Ext Btch ID | : IMD035S | % Moisture | : 17.4 |
| Calib. Ref. | : 98E03094 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11900 | 142 | 71.2 |
| Antimony | ND | 1.19 | 0.593 |
| Arsenic | 3.72 | 2.37 | 1.19 |
| Barium | 79.0 | 2.37 | 1.19 |
| Beryllium | 0.494J | 0.593 | 0.297 |
| Boron | ND | 29.7 | 14.8 |
| Cadmium | ND | 0.593 | 0.297 |
| Calcium | 3340 | 119 | 59.3 |
| Chromium | 11.6 | 2.37 | 1.19 |
| Cobalt | 5.01 | 0.593 | 0.297 |
| Copper | 6.90 | 2.37 | 1.19 |
| Iron | 20100 | 119 | 59.3 |
| Lead | 13.5 | 1.19 | 0.593 |
| Magnesium | 4210 | 59.3 | 29.7 |
| Manganese | 302 | 2.97 | 1.48 |
| Molybdenum | 0.461J | 0.593 | 0.297 |
| Nickel | 7.69 | 2.37 | 1.19 |
| Potassium | 3580 | 356 | 178 |
| Selenium | ND | 2.37 | 1.19 |
| Silver | ND | 0.593 | 0.297 |
| Sodium | ND | 593 | 297 |
| Strontium | 19.5 | 2.97 | 1.48 |
| Thallium | ND | 0.593 | 0.297 |
| Tin | ND | 59.3 | 29.7 |
| Titanium | 871 | 5.93 | 2.97 |
| Vanadium | 26.5 | 0.593 | 0.297 |
| Zinc | 63.6 | 17.8 | 8.90 |
| Lithium | 25.5 | 11.9 | 5.93 |
| Phosphorus | 414 | 71.2 | 35.6 |
| Zirconium | ND | 29.7 | 14.8 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/24/12 |
| SDG NO. : 12D154 | Date Extracted: 04/24/12 10:33 |
| Sample ID: MBLK1S | Date Analyzed: 05/03/12 18:40 |
| Lab Samp ID: IMD035SB | Dilution Factor: 1 |
| Lab File ID: 98E03097 | Matrix : SOIL |
| Ext Btch ID: IMD035S | % Moisture : NA |
| Calib. Ref.: 98E03094 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D154
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IMD035SB | IMD035SL | IMD035SC | | |
| LAB FILE ID: | 98E03097 | 98E03098 | 98E03099 | | |
| DATIME EXTRCTD: | 04/24/1210:33 | 04/24/1210:33 | 04/24/1210:33 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 05/03/1218:40 | 05/03/1218:45 | 05/03/1218:49 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | IMD035S | IMD035S | IMD035S | | |
| CALIB. REF: | 98E03094 | 98E03094 | 98E03094 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2660 | 106 | 2500 | 2620 | 105 | 1 | 80-120 | 20 |
| Antimony | ND | 25.0 | 25.9 | 103 | 25.0 | 25.1 | 100 | 3 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 25.2 | 101 | 25.0 | 24.3 | 97 | 4 | 80-120 | 20 |
| Barium | ND | 25.0 | 26.4 | 106 | 25.0 | 25.5 | 102 | 4 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 24.8 | 99 | 25.0 | 23.8 | 95 | 4 | 80-120 | 20 |
| Boron | ND | 25.0 | 25.0 | 100 | 25.0 | 24.4 | 98 | 2 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 25.1 | 100 | 25.0 | 24.5 | 98 | 2 | 80-120 | 20 |
| Calcium | ND | 2500 | 2760 | 111 | 2500 | 2690 | 107 | 3 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.9 | 99 | 25.0 | 24.0 | 96 | 4 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 25.5 | 102 | 25.0 | 24.9 | 100 | 2 | 80-120 | 20 |
| Copper | ND | 25.0 | 23.9 | 96 | 25.0 | 23.2 | 93 | 3 | 80-120 | 20 |
| Iron | ND | 2500 | 2670 | 107 | 2500 | 2600 | 104 | 2 | 80-120 | 20 |
| Lead | ND | 25.0 | 26.1 | 104 | 25.0 | 24.7 | 99 | 5 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2660 | 106 | 2500 | 2630 | 105 | 1 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.8 | 103 | 25.0 | 25.3 | 101 | 2 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 25.2 | 101 | 25.0 | 24.6 | 98 | 3 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.0 | 96 | 25.0 | 23.1 | 92 | 4 | 80-120 | 20 |
| Potassium | ND | 2500 | 2840 | 114 | 2500 | 2730 | 109 | 4 | 80-120 | 20 |
| Selenium | ND | 25.0 | 24.7 | 99 | 25.0 | 24.1 | 96 | 3 | 80-120 | 20 |
| Silver | ND | 25.0 | 25.4 | 101 | 25.0 | 25.1 | 101 | 1 | 80-120 | 20 |
| Sodium | ND | 2500 | 2610 | 104 | 2500 | 2560 | 102 | 2 | 80-120 | 20 |
| Strontium | ND | 25.0 | 26.4 | 106 | 25.0 | 25.5 | 102 | 3 | 80-120 | 20 |
| Thallium | ND | 25.0 | 26.2 | 105 | 25.0 | 25.4 | 101 | 3 | 80-120 | 20 |
| Tin | ND | 25.0 | 28.3 | 113 | 25.0 | 27.4 | 110 | 3 | 80-120 | 20 |
| Titanium | ND | 25.0 | 25.9 | 104 | 25.0 | 25.6 | 102 | 1 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 25.1 | 100 | 25.0 | 24.0 | 96 | 4 | 80-120 | 20 |
| Zinc | ND | 50.0 | 50.3 | 101 | 50.0 | 50.0 | 100 | 1 | 80-120 | 20 |
| Lithium | ND | 25.0 | 26.2 | 105 | 25.0 | 24.9 | 100 | 5 | 80-120 | 20 |
| Phosphorus | ND | 250 | 252 | 101 | 250 | 247 | 99 | 2 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 25.6 | 102 | 25.0 | 25.2 | 101 | 2 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D154
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 17.4
DILTN FACTR: 0.980 0.980
SAMPLE ID: SL-173-NBZ-SS-0.0-0.5
CONTROL NO.: D146-05 D146-05A
LAB FILE ID: 98E03103 98E03102
DATIME EXTRCTD: 04/24/1210:33 04/24/1210:33 DATE COLLECTED: 04/16/12
DATIME ANALYZD: 05/03/1219:07 05/03/1219:02 DATE RECEIVED: 04/16/12
PREP. BATCH: IMD035S IMD035S
CALIB. REF: 98E03094 98E03094

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 11500 | 2970 | 14800 | 112 | 75-125 |
| Antimony | 0.206J | 29.7 | 30.0 | 100 | 75-125 |
| Arsenic | 3.90 | 29.7 | 32.0 | 95 | 75-125 |
| Barium | 82.0 | 29.7 | 119 | 125 | 75-125 |
| Beryllium | 0.473 | 29.7 | 28.5 | 95 | 75-125 |
| Boron | ND | 29.7 | 31.0 | 104 | 75-125 |
| Cadmium | 0.226 | 29.7 | 29.1 | 97 | 75-125 |
| Calcium | 3280 | 2970 | 6330 | 103 | 75-125 |
| Chromium | 11.6 | 29.7 | 38.3 | 90 | 75-125 |
| Cobalt | 4.87 | 29.7 | 32.4 | 93 | 75-125 |
| Copper | 6.69 | 29.7 | 32.2 | 86 | 75-125 |
| Iron | 19600 | 2970 | 22800 | 107 | 75-125 |
| Lead | 13.8 | 29.7 | 43.3 | 99 | 75-125 |
| Magnesium | 4110 | 2970 | 7120 | 102 | 75-125 |
| Manganese | 292 | 29.7 | 327 | 117 | 75-125 |
| Molybdenum | 0.476 | 29.7 | 30.0 | 99 | 75-125 |
| Nickel | 7.65 | 29.7 | 33.2 | 86 | 75-125 |
| Potassium | 3670 | 2970 | 6890 | 109 | 75-125 |
| Selenium | 0.330J | 29.7 | 28.5 | 95 | 75-125 |
| Silver | ND | 29.7 | 29.4 | 99 | 75-125 |
| Sodium | 72.2J | 2970 | 2900 | 95 | 75-125 |
| Strontium | 20.3 | 29.7 | 49.9 | 100 | 75-125 |
| Thallium | 0.247 | 29.7 | 29.8 | 100 | 75-125 |
| Tin | ND | 29.7 | 33.7 | 114 | 75-125 |
| Titanium | 900 | 29.7 | 952 | 176* | 75-125 |
| Vanadium | 26.8 | 29.7 | 54.1 | 92 | 75-125 |
| Zinc | 60.6 | 59.3 | 114 | 91 | 75-125 |
| Lithium | 28.9 | 29.7 | 58.9 | 101 | 75-125 |
| Phosphorus | 397 | 297 | 739 | 115 | 75-125 |
| Zirconium | ND | 29.7 | 29.5 | 99 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 17.4
DILUTION FACTOR: 0.980 4.90
SAMPLE ID: SL-173-NBZ-SS- SL-173-NBZ-SS-
EMAX SAMP ID: D146-05 D146-05J
LAB FILE ID: 98E03103 98E03104
DATE EXTRACTED: 04/24/1210:33 04/24/1210:33 DATE COLLECTED: 04/16/12
DATE ANALYZED: 05/03/1219:07 05/03/1219:11 DATE RECEIVED: 04/16/12
PREP. BATCH: IMD035S IMD035S
CALIB. REF: 98E03094 98E03094

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 11500 | 11900 | 4 | 10 |
| Antimony | 0.206J | ND | NA | 10 |
| Arsenic | 3.90 | 3.72 | 5 | 10 |
| Barium | 82.0 | 79.0 | 4 | 10 |
| Beryllium | 0.473 | 0.494J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.226 | ND | NA | 10 |
| Calcium | 3280 | 3340 | 2 | 10 |
| Chromium | 11.6 | 11.6 | 0 | 10 |
| Cobalt | 4.87 | 5.01 | 3 | 10 |
| Copper | 6.69 | 6.90 | 3 | 10 |
| Iron | 19600 | 20100 | 2 | 10 |
| Lead | 13.8 | 13.5 | 2 | 10 |
| Magnesium | 4110 | 4210 | 2 | 10 |
| Manganese | 292 | 302 | 3 | 10 |
| Molybdenum | 0.476 | 0.461J | NA | 10 |
| Nickel | 7.65 | 7.69 | 0 | 10 |
| Potassium | 3670 | 3580 | 3 | 10 |
| Selenium | 0.330J | ND | NA | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | 72.2J | ND | NA | 10 |
| Strontium | 20.3 | 19.5 | 4 | 10 |
| Thallium | 0.247 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 900 | 871 | 3 | 10 |
| Vanadium | 26.8 | 26.5 | 1 | 10 |
| Zinc | 60.6 | 63.6 | 5 | 10 |
| Lithium | 28.9 | 25.5 | 12* | 10 |
| Phosphorus | 397 | 414 | 4 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7470A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D154

Matrix : WATER
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | HGD022WB | ND | 1 | NA | 0.000500 | 0.000100 | 04/23/1216:58 | 04/23/1211:15 | M47D015010 | M47D015008 | HGD022W | NA | 04/23/12 |
| LCS1W | HGD022WL | 0.00518 | 1 | NA | 0.000500 | 0.000100 | 04/23/1217:00 | 04/23/1211:15 | M47D015011 | M47D015008 | HGD022W | NA | 04/23/12 |
| LCD1W | HGD022WC | 0.00516 | 1 | NA | 0.000500 | 0.000100 | 04/23/1217:02 | 04/23/1211:15 | M47D015012 | M47D015008 | HGD022W | NA | 04/23/12 |
| EB-NBZ-SB-041712 | D154-01 | ND | 1 | NA | 0.000500 | 0.000100 | 04/23/1217:15 | 04/23/1211:15 | M47D015018 | M47D015008 | HGD022W | 04/17/12 | 04/17/12 |
| EB-NBZ-SS-041712 | D154-02 | ND | 1 | NA | 0.000500 | 0.000100 | 04/23/1217:17 | 04/23/1211:15 | M47D015019 | M47D015008 | HGD022W | 04/17/12 | 04/17/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D154
METHOD: METHOD 7470A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| CONTROL NO.: | HGD022WB | HGD022WL | HGD022WC | | |
| LAB FILE ID: | M47D015010 | M47D015011 | M47D015012 | | |
| DATIME EXTRCTD: | 04/23/1211:15 | 04/23/1211:15 | 04/23/1211:15 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/23/1216:58 | 04/23/1217:00 | 04/23/1217:02 | DATE RECEIVED: | 04/23/12 |
| PREP. BATCH: | HGD022W | HGD022W | HGD022W | | |
| CALIB. REF: | M47D015008 | M47D015008 | M47D015008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/L | SPIKE AMT mg/L | BS RSLT mg/L | BS % REC | SPIKE AMT mg/L | BSD RSLT mg/L | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .005 | .00518 | 104 | .005 | .00516 | 103 | 0 | 80-120 | 20 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D154
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD024SB | ND | 1 | NA | 0.100 | 0.0500 | 04/24/1217:02 | 04/24/1213:00 | M47D017010 | M47D017008 | HGD024S | NA | 04/24/12 |
| LCS1S | HGD024SL | 0.848 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:04 | 04/24/1213:00 | M47D017011 | M47D017008 | HGD024S | NA | 04/24/12 |
| LCD1S | HGD024SC | 0.843 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:06 | 04/24/1213:00 | M47D017012 | M47D017008 | HGD024S | NA | 04/24/12 |
| SL-014-NBZ-SS-0.0-0.5 | D154-03 | 0.0676J | 0.998 | 20.3 | 0.125 | 0.0626 | 04/24/1217:34 | 04/24/1213:00 | M47D017025 | M47D017020 | HGD024S | 04/17/12 | 04/17/12 |
| SL-088-NBZ-SS-0.0-0.5 | D154-04 | ND | 1.00 | 23.6 | 0.131 | 0.0654 | 04/24/1217:36 | 04/24/1213:00 | M47D017026 | M47D017020 | HGD024S | 04/17/12 | 04/17/12 |
| SL-090-NBZ-SS-0.0-0.5 | D154-05 | ND | 0.997 | 13.9 | 0.116 | 0.0579 | 04/24/1217:39 | 04/24/1213:00 | M47D017027 | M47D017020 | HGD024S | 04/17/12 | 04/17/12 |
| SL-147-NBZ-SS-0.0-0.5 | D154-06 | ND | 0.990 | 13.4 | 0.114 | 0.0572 | 04/24/1217:41 | 04/24/1213:00 | M47D017028 | M47D017020 | HGD024S | 04/17/12 | 04/17/12 |
| SL-156-NBZ-SS-0.0-0.5 | D154-07 | ND | 1.00 | 17.2 | 0.121 | 0.0604 | 04/24/1217:43 | 04/24/1213:00 | M47D017029 | M47D017020 | HGD024S | 04/17/12 | 04/17/12 |
| SL-161-NBZ-SS-0.0-0.5 | D154-08 | ND | 0.987 | 10.7 | 0.111 | 0.0553 | 04/24/1217:45 | 04/24/1213:00 | M47D017030 | M47D017020 | HGD024S | 04/17/12 | 04/17/12 |
| SL-162-NBZ-SS-0.0-0.5 | D154-09 | ND | 0.984 | 8.9 | 0.108 | 0.0540 | 04/24/1217:47 | 04/24/1213:00 | M47D017031 | M47D017020 | HGD024S | 04/17/12 | 04/17/12 |
| SL-166-NBZ-SS-0.0-0.5 | D154-10 | ND | 0.985 | 13.8 | 0.114 | 0.0571 | 04/24/1217:54 | 04/24/1213:00 | M47D017034 | M47D017032 | HGD024S | 04/17/12 | 04/17/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D154
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGD024SB | HGD024SL | HGD024SC | | |
| LAB FILE ID: | M47D017010 | M47D017011 | M47D017012 | | |
| DATIME EXTRCTD: | 04/24/1213:00 | 04/24/1213:00 | 04/24/1213:00 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/24/1217:02 | 04/24/1217:04 | 04/24/1217:06 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | HGD024S | HGD024S | HGD024S | | |
| CALIB. REF: | M47D017008 | M47D017008 | M47D017008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .848 | 102 | .833 | .843 | 101 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D154
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 17.4 |
| DILTN FACTR: | 0.993 | 0.993 | | |
| SAMPLE ID: | SL-173-NBZ-SS-0.0-0.5 | | | |
| CONTROL NO.: | D146-05 | D146-05A | | |
| LAB FILE ID: | M47D017014 | M47D017013 | | |
| DATIME EXTRCTD: | 04/24/1213:00 | 04/24/1213:00 | DATE COLLECTED: | 04/16/12 |
| DATIME ANALYZD: | 04/24/1217:10 | 04/24/1217:08 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | HGD024S | HGD024S | | |
| CALIB. REF: | M47D017008 | M47D017008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | 1 | 1.04 | 103 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 17.4

| | | | | |
|---|---|---|---|---|
| DILUTION FACTOR: | 0.993 | 4.97 | | |
| SAMPLE ID: | SL-173-NBZ-SS-0.0-0 | SL-173-NBZ-SS-0.0-0 | | |
| EMAX SAMP ID: | D146-05 | D146-05J | | |
| LAB FILE ID: | M47D017014 | M47D017015 | | |
| DATE EXTRACTED: | 04/24/1213:00 | 04/24/1213:00 | DATE COLLECTED: | 04/16/12 |
| DATE ANALYZED: | 04/24/1217:10 | 04/24/1217:12 | DATE RECEIVED: | 04/16/12 |
| PREP. BATCH: | HGD024S | HGD024S | | |
| CALIB. REF: | M47D017008 | M47D017008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D154
Matrix : WATER
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | ICD027WB | ND | 1 | NA | 0.100 | 0.0500 | 04/18/1209:03 | NA | AD23-03 | AD23-01 | ICD027W | NA | NA |
| LCS1W | ICD027WL | 1.99 | 1 | NA | 0.100 | 0.0500 | 04/18/1209:19 | NA | AD23-04 | AD23-01 | ICD027W | NA | NA |
| LCD1W | ICD027WC | 1.99 | 1 | NA | 0.100 | 0.0500 | 04/18/1209:35 | NA | AD23-05 | AD23-01 | ICD027W | NA | NA |
| EB-NBZ-SB-041712 | D154-01 | ND | 1 | NA | 0.100 | 0.0500 | 04/18/1209:51 | NA | AD23-06 | AD23-01 | ICD027W | 04/17/1215:45 | 04/17/12 |
| EB-NBZ-SS-041712 | D154-02 | ND | 1 | NA | 0.100 | 0.0500 | 04/18/1210:07 | NA | AD23-07 | AD23-01 | ICD027W | 04/17/1215:00 | 04/17/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | ICD027WB | ICD027WL | ICD027WC | | |
| LAB FILE ID: | AD23-03 | AD23-04 | AD23-05 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/18/1209:03 | 04/18/1209:19 | 04/18/1209:35 | DATE RECEIVED: | NA |
| PREP. BATCH: | ICD027W | ICD027W | ICD027W | | |
| CALIB. REF: | AD23-01 | AD23-01 | AD23-01 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 2.00 | 1.99 | 100 | 2.00 | 1.99 | 100 | 0 | 90-110 | 20 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D154
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD009SB | ND | 1 | NA | 1.00 | 0.500 | 04/20/1211:52 | 04/19/1210:17 | AD27-06 | AD27-04 | ICD009S | NA | 04/19/12 |
| LCS1S | ICD009SL | 6.26 | 1 | NA | 1.00 | 0.500 | 04/20/1212:08 | 04/19/1210:17 | AD27-07 | AD27-04 | ICD009S | NA | 04/19/12 |
| LCD1S | ICD009SC | 6.24 | 1 | NA | 1.00 | 0.500 | 04/20/1212:24 | 04/19/1210:17 | AD27-08 | AD27-04 | ICD009S | NA | 04/19/12 |
| SL-014-NBZ-SS-0.0-0.5 | D154-03 | ND | 1 | 20.3 | 1.25 | 0.627 | 04/20/1215:54 | 04/19/1210:17 | AD27-21 | AD27-16 | ICD009S | 04/17/1210:10 | 04/17/12 |
| SL-088-NBZ-SS-0.0-0.5 | D154-04 | ND | 1 | 23.6 | 1.31 | 0.654 | 04/20/1216:10 | 04/19/1210:17 | AD27-22 | AD27-16 | ICD009S | 04/17/1211:00 | 04/17/12 |
| SL-090-NBZ-SS-0.0-0.5 | D154-05 | 1.30 | 1 | 13.9 | 1.16 | 0.581 | 04/20/1216:26 | 04/19/1210:17 | AD27-23 | AD27-16 | ICD009S | 04/17/1214:12 | 04/17/12 |
| SL-147-NBZ-SS-0.0-0.5 | D154-06 | 0.660J | 1 | 13.4 | 1.15 | 0.577 | 04/20/1216:43 | 04/19/1210:17 | AD27-24 | AD27-16 | ICD009S | 04/17/1215:25 | 04/17/12 |
| SL-156-NBZ-SS-0.0-0.5 | D154-07 | ND | 1 | 17.2 | 1.21 | 0.604 | 04/20/1216:59 | 04/19/1210:17 | AD27-25 | AD27-16 | ICD009S | 04/17/1211:17 | 04/17/12 |
| SL-161-NBZ-SS-0.0-0.5 | D154-08 | ND | 1 | 10.7 | 1.12 | 0.560 | 04/20/1217:15 | 04/19/1210:17 | AD27-26 | AD27-16 | ICD009S | 04/17/1211:50 | 04/17/12 |
| SL-162-NBZ-SS-0.0-0.5 | D154-09 | ND | 1 | 8.9 | 1.10 | 0.549 | 04/20/1218:20 | 04/19/1210:17 | AD27-30 | AD27-28 | ICD009S | 04/17/1209:55 | 04/17/12 |
| SL-166-NBZ-SS-0.0-0.5 | D154-10 | ND | 1 | 13.8 | 1.16 | 0.580 | 04/20/1218:36 | 04/19/1210:17 | AD27-31 | AD27-28 | ICD009S | 04/17/1210:30 | 04/17/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD009SB | ICD009SL | ICD009SC | | |
| LAB FILE ID: | AD27-06 | AD27-07 | AD27-08 | | |
| DATE EXTRACTED: | 04/19/1210:17 | 04/19/1210:17 | 04/19/1210:17 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/20/1211:52 | 04/20/1212:08 | 04/20/1212:24 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | ICD009S | ICD009S | ICD009S | | |
| CALIB. REF: | AD27-04 | AD27-04 | AD27-04 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 6.26 | 104 | 6.00 | 6.24 | 104 | 0 | 90-110 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D154
Matrix : WATER
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | ICD027WB | ND | 1 | NA | 0.443 | 0.222 | 04/18/1209:03 | NA | AD23-03 | AD23-01 | ICD027W | NA | NA |
| LCS1W | ICD027WL | 8.68 | 1 | NA | 0.443 | 0.222 | 04/18/1209:19 | NA | AD23-04 | AD23-01 | ICD027W | NA | NA |
| LCD1W | ICD027WC | 8.67 | 1 | NA | 0.443 | 0.222 | 04/18/1209:35 | NA | AD23-05 | AD23-01 | ICD027W | NA | NA |
| EB-NBZ-SB-041712 | D154-01 | ND | 1 | NA | 0.443 | 0.222 | 04/18/1209:51 | NA | AD23-06 | AD23-01 | ICD027W | 04/17/1215:45 | 04/17/12 |
| EB-NBZ-SS-041712 | D154-02 | ND | 1 | NA | 0.443 | 0.222 | 04/18/1210:07 | NA | AD23-07 | AD23-01 | ICD027W | 04/17/1215:00 | 04/17/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD009SB | ICD009SL | ICD009SC | | |
| LAB FILE ID: | AD27-06 | AD27-07 | AD27-08 | | |
| DATE EXTRACTED: | 04/19/1210:17 | 04/19/1210:17 | 04/19/1210:17 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/20/1211:52 | 04/20/1212:08 | 04/20/1212:24 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | ICD009S | ICD009S | ICD009S | | |
| CALIB. REF: | AD27-04 | AD27-04 | AD27-04 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 13.3 | 13.6 | 102 | 13.3 | 13.6 | 102 | 0 | 90-110 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D154
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD009SB | ND | 1 | NA | 1.50 | 0.750 | 04/20/1211:52 | 04/19/1210:17 | AD27-06 | AD27-04 | ICD009S | NA | 04/19/12 |
| LCS1S | ICD009SL | 13.6 | 1 | NA | 1.50 | 0.750 | 04/20/1212:08 | 04/19/1210:17 | AD27-07 | AD27-04 | ICD009S | NA | 04/19/12 |
| LCD1S | ICD009SC | 13.6 | 1 | NA | 1.50 | 0.750 | 04/20/1212:24 | 04/19/1210:17 | AD27-08 | AD27-04 | ICD009S | NA | 04/19/12 |
| SL-014-NBZ-SS-0.0-0.5 | D154-03 | 5.67 | 1 | 20.3 | 1.88 | 0.941 | 04/20/1215:54 | 04/19/1210:17 | AD27-21 | AD27-16 | ICD009S | 04/17/1210:10 | 04/17/12 |
| SL-088-NBZ-SS-0.0-0.5 | D154-04 | 9.91 | 1 | 23.6 | 1.96 | 0.982 | 04/20/1216:10 | 04/19/1210:17 | AD27-22 | AD27-16 | ICD009S | 04/17/1211:00 | 04/17/12 |
| SL-090-NBZ-SS-0.0-0.5 | D154-05 | 9.76 | 1 | 13.9 | 1.74 | 0.871 | 04/20/1216:26 | 04/19/1210:17 | AD27-23 | AD27-16 | ICD009S | 04/17/1214:12 | 04/17/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | ICD027WB | ICD027WL | ICD027WC | | |
| LAB FILE ID: | AD23-03 | AD23-04 | AD23-05 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/18/1209:03 | 04/18/1209:19 | 04/18/1209:35 | DATE RECEIVED: | NA |
| PREP. BATCH: | ICD027W | ICD027W | ICD027W | | |
| CALIB. REF: | AD23-01 | AD23-01 | AD23-01 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 8.86 | 8.68 | 98 | 8.86 | 8.67 | 98 | 0 | 90-110 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D154
Matrix : WATER
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | PCD006WB | ND | 1 | NA | 2.00 | 1.00 | 04/19/1215:18 | NA | JD19002 | JD19001 | PCD006W | NA | NA |
| LCS1W | PCD006WL | 25.1 | 1 | NA | 2.00 | 1.00 | 04/19/1216:00 | NA | JD19004 | JD19001 | PCD006W | NA | NA |
| LCD1W | PCD006WC | 25.5 | 1 | NA | 2.00 | 1.00 | 04/19/1216:21 | NA | JD19005 | JD19001 | PCD006W | NA | NA |
| EB-NBZ-SB-041712 | D154-01 | ND | 1 | NA | 2.00 | 1.00 | 04/19/1216:42 | NA | JD19006 | JD19001 | PCD006W | 04/17/1215:45 | 04/17/12 |
| EB-NBZ-SS-041712 | D154-02 | ND | 1 | NA | 2.00 | 1.00 | 04/19/1217:10 | NA | JD19007 | JD19001 | PCD006W | 04/17/1215:00 | 04/17/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | PCD006WB | PCD006WL | PCD006WC | | |
| LAB FILE ID: | JD19002 | JD19004 | JD19005 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/19/1215:18 | 04/19/1216:00 | 04/19/1216:21 | DATE RECEIVED: | NA |
| PREP. BATCH: | PCD006W | PCD006W | PCD006W | | |
| CALIB. REF: | JD19001 | JD19001 | JD19001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 25.0 | 25.1 | 100 | 25.0 | 25.5 | 102 | 2 | 85-115 | 15 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D154
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD016SB | ND | 1 | NA | 20.0 | 10.0 | 04/23/1211:26 | 04/19/1210:30 | JD23002 | JD23001 | PCD016S | NA | 04/19/12 |
| LCS1S | PCD016SL | 252 | 1 | NA | 20.0 | 10.0 | 04/23/1212:08 | 04/19/1210:30 | JD23004 | JD23001 | PCD016S | NA | 04/19/12 |
| LCD1S | PCD016SC | 243 | 1 | NA | 20.0 | 10.0 | 04/23/1212:29 | 04/19/1210:30 | JD23005 | JD23001 | PCD016S | NA | 04/19/12 |
| SL-014-NBZ-SS-0.0-0.5 | D154-03 | ND | 1 | 20.3 | 25.1 | 12.5 | 04/23/1217:14 | 04/19/1210:30 | JD23018 | JD23012 | PCD016S | 04/17/1210:10 | 04/17/12 |
| SL-088-NBZ-SS-0.0-0.5 | D154-04 | ND | 1 | 23.6 | 26.2 | 13.1 | 04/23/1217:35 | 04/19/1210:30 | JD23019 | JD23012 | PCD016S | 04/17/1211:00 | 04/17/12 |
| SL-090-NBZ-SS-0.0-0.5 | D154-05 | ND | 1 | 13.9 | 23.2 | 11.6 | 04/23/1217:56 | 04/19/1210:30 | JD23020 | JD23012 | PCD016S | 04/17/1214:12 | 04/17/12 |
| SL-147-NBZ-SS-0.0-0.5 | D154-06 | ND | 1 | 13.4 | 23.1 | 11.5 | 04/23/1218:17 | 04/19/1210:30 | JD23021 | JD23012 | PCD016S | 04/17/1215:25 | 04/17/12 |
| SL-156-NBZ-SS-0.0-0.5 | D154-07 | ND | 1 | 17.2 | 24.2 | 12.1 | 04/23/1219:21 | 04/19/1210:30 | JD23024 | JD23023 | PCD016S | 04/17/1211:17 | 04/17/12 |
| SL-161-NBZ-SS-0.0-0.5 | D154-08 | ND | 1 | 10.7 | 22.4 | 11.2 | 04/23/1219:42 | 04/19/1210:30 | JD23025 | JD23023 | PCD016S | 04/17/1211:50 | 04/17/12 |
| SL-162-NBZ-SS-0.0-0.5 | D154-09 | ND | 1 | 8.9 | 22.0 | 11.0 | 04/23/1220:03 | 04/19/1210:30 | JD23026 | JD23023 | PCD016S | 04/17/1209:55 | 04/17/12 |
| SL-166-NBZ-SS-0.0-0.5 | D154-10 | ND | 1 | 13.8 | 23.2 | 11.6 | 04/23/1220:24 | 04/19/1210:30 | JD23027 | JD23023 | PCD016S | 04/17/1210:30 | 04/17/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD016SB | PCD016SL | PCD016SC | | |
| LAB FILE ID: | JD23002 | JD23004 | JD23005 | | |
| DATE EXTRACTED: | 04/19/1210:30 | 04/19/1210:30 | 04/19/1210:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/23/1211:26 | 04/23/1212:08 | 04/23/1212:29 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | PCD016S | PCD016S | PCD016S | | |
| CALIB. REF: | JD23001 | JD23001 | JD23001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 252 | 101 | 250 | 243 | 97 | 4 | 85-115 | 15 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D154

Matrix : WATER
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | CND009WB | ND | 1 | NA | 0.0100 | 0.00500 | 04/23/1217:56 | 04/23/1212:05 | CND00910 | CND00908 | CND009W | NA | 04/23/12 |
| LCS1W | CND009WL | 0.104 | 1 | NA | 0.0100 | 0.00500 | 04/23/1217:56 | 04/23/1212:05 | CND00911 | CND00908 | CND009W | NA | 04/23/12 |
| LCD1W | CND009WC | 0.108 | 1 | NA | 0.0100 | 0.00500 | 04/23/1217:56 | 04/23/1212:05 | CND00912 | CND00908 | CND009W | NA | 04/23/12 |
| EB-NBZ-SB-041712 | D154-01 | ND | 1 | NA | 0.0100 | 0.00500 | 04/23/1217:58 | 04/23/1212:05 | CND00916 | CND00908 | CND009W | 04/17/1215:45 | 04/17/12 |
| EB-NBZ-SS-041712 | D154-02 | ND | 1 | NA | 0.0100 | 0.00500 | 04/23/1217:58 | 04/23/1212:05 | CND00917 | CND00908 | CND009W | 04/17/1215:00 | 04/17/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 12D154
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: CND009WL/C

DATE RECEIVED: 04/23/12
DATE EXTRACTED: 04/23/1212:05
DATE ANALYZED: 04/23/1217:56/17:56

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 0.100 | 0.104 | 104 | 0.100 | 0.108 | 108 | 4 | 85-115 | 20 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D154
Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CND011SB | ND | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01110 | CND01108 | CND011S | NA | 04/26/12 |
| LCS1S | CND011SL | 2.32 | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01111 | CND01108 | CND011S | NA | 04/26/12 |
| LCD1S | CND011SC | 2.34 | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01112 | CND01108 | CND011S | NA | 04/26/12 |
| SL-014-NBZ-SS-0.0-0.5 | D154-03 | 0.339J | 1 | 20.3 | 0.627 | 0.314 | 04/26/1218:50 | 04/26/1211:30 | CND01113 | CND01108 | CND011S | 04/17/1210:10 | 04/17/12 |
| SL-088-NBZ-SS-0.0-0.5 | D154-04 | 0.579J | 1 | 23.6 | 0.654 | 0.327 | 04/26/1218:51 | 04/26/1211:30 | CND01114 | CND01108 | CND011S | 04/17/1211:00 | 04/17/12 |
| SL-090-NBZ-SS-0.0-0.5 | D154-05 | ND | 1 | 13.9 | 0.581 | 0.290 | 04/26/1218:51 | 04/26/1211:30 | CND01115 | CND01108 | CND011S | 04/17/1214:12 | 04/17/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D154
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CND011SL/C

DATE RECEIVED: 04/26/12
DATE EXTRACTED: 04/26/1211:30
DATE ANALYZED: 04/26/1218:49/18:49

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.32 | 93 | 2.50 | 2.34 | 94 | 1 | 85-125 | 20 |

METHOD 9040C
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D154
Matrix : WATER
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EB-NBZ-SB-041712 | D154-01 | 5.56 | 1 | NA | NA | NA | 04/17/1219:23 | NA | 12PHD017W01 | PHD017W | PHD017W | 04/17/1215:45 | 04/17/12 |
| EB-NBZ-SS-041712 | D154-02 | 5.38 | 1 | NA | NA | NA | 04/17/1219:26 | NA | 12PHD017W02 | PHD017W | PHD017W | 04/17/1215:00 | 04/17/12 |
| EB-NBZ-SS-041712DUP | D154-02D | 5.37 | 1 | NA | NA | NA | 04/17/1219:30 | NA | 12PHD017W03 | PHD017W | PHD017W | 04/17/1215:00 | 04/17/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9040C
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 12D154 DATE RECEIVED: 04/17/12
SAMPLE ID: EB-NBZ-SS-041712DUP DATE EXTRACTED: NA
CONTROL NO.: D154-02D DATE ANALYZED: 04/17/1219:30

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | RPD (pH Unit) | RPD LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 5.38 | 5.37 | 0.01 | 0.1 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D154
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-014-NBZ-SS-0.0-0.5 | D154-03 | 7.52 | 1 | NA | NA | NA | 04/18/1214:15 | 04/18/1214:15 | 12PHD018S01 | PHD018S | PHD018S | 04/17/1210:10 | 04/17/12 |
| SL-014-NBZ-SS-0.0-0.5DUP | D154-03D | 7.51 | 1 | NA | NA | NA | 04/18/1214:16 | 04/18/1214:15 | 12PHD018S02 | PHD018S | PHD018S | 04/17/1210:10 | 04/17/12 |
| SL-088-NBZ-SS-0.0-0.5 | D154-04 | 7.27 | 1 | NA | NA | NA | 04/18/1214:18 | 04/18/1214:15 | 12PHD018S03 | PHD018S | PHD018S | 04/17/1211:00 | 04/17/12 |
| SL-090-NBZ-SS-0.0-0.5 | D154-05 | 7.58 | 1 | NA | NA | NA | 04/18/1214:20 | 04/18/1214:15 | 12PHD018S04 | PHD018S | PHD018S | 04/17/1214:12 | 04/17/12 |
| SL-147-NBZ-SS-0.0-0.5 | D154-06 | 7.63 | 1 | NA | NA | NA | 04/18/1214:21 | 04/18/1214:15 | 12PHD018S05 | PHD018S | PHD018S | 04/17/1215:25 | 04/17/12 |
| SL-156-NBZ-SS-0.0-0.5 | D154-07 | 6.90 | 1 | NA | NA | NA | 04/18/1214:23 | 04/18/1214:15 | 12PHD018S06 | PHD018S | PHD018S | 04/17/1211:17 | 04/17/12 |
| SL-161-NBZ-SS-0.0-0.5 | D154-08 | 5.95 | 1 | NA | NA | NA | 04/18/1214:26 | 04/18/1214:15 | 12PHD018S07 | PHD018S | PHD018S | 04/17/1211:50 | 04/17/12 |
| SL-162-NBZ-SS-0.0-0.5 | D154-09 | 6.53 | 1 | NA | NA | NA | 04/18/1214:27 | 04/18/1214:15 | 12PHD018S08 | PHD018S | PHD018S | 04/17/1209:55 | 04/17/12 |
| SL-166-NBZ-SS-0.0-0.5 | D154-10 | 7.20 | 1 | NA | NA | NA | 04/18/1214:29 | 04/18/1214:15 | 12PHD018S09 | PHD018S | PHD018S | 04/17/1210:30 | 04/17/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D154 DATE RECEIVED: 04/17/12
SAMPLE ID: SL-014-NBZ-SS-0.0-0.5DUP DATE EXTRACTED: 04/18/1214:15
CONTROL NO.: D154-03D DATE ANALYZED: 04/18/1214:16

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | RPD (pH Unit) | RPD LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 7.52 | 7.51 | 0.01 | 0.1 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D154

Matrix : WATER
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | HCD017WB | ND | 1 | NA | 0.200 | 0.100 | 04/18/1208:27 | NA | ID18003 | ID18001 | HCD017W | NA | NA |
| MBLK1W | HCD017WQ | ND | 1 | NA | 0.200 | 0.100 | 04/18/1208:37 | NA | ID18004 | ID18001 | HCD017W | NA | NA |
| LCS1W | HCD017WL | 2.00 | 1 | NA | 0.200 | 0.100 | 04/18/1208:48 | NA | ID18005 | ID18001 | HCD017W | NA | NA |
| LCS1W | HCD017WX | 2.06 | 1 | NA | 0.200 | 0.100 | 04/18/1208:58 | NA | ID18006 | ID18001 | HCD017W | NA | NA |
| LCD1W | HCD017WC | 2.02 | 1 | NA | 0.200 | 0.100 | 04/18/1209:09 | NA | ID18007 | ID18001 | HCD017W | NA | NA |
| LCD1W | HCD017WY | 2.06 | 1 | NA | 0.200 | 0.100 | 04/18/1209:19 | NA | ID18008 | ID18001 | HCD017W | NA | NA |
| EB-NBZ-SB-041712 | D154-01 | ND | 1 | NA | 0.200 | 0.100 | 04/18/1209:32 | NA | ID18009 | ID18001 | HCD017W | 04/17/1215:45 | 04/17/12 |
| EB-NBZ-SB-041712 | D154-01R | ND | 1 | NA | 0.200 | 0.100 | 04/18/1209:42 | NA | ID18010 | ID18001 | HCD017W | 04/17/1215:45 | 04/17/12 |
| EB-NBZ-SS-041712 | D154-02 | ND | 1 | NA | 0.200 | 0.100 | 04/18/1209:53 | NA | ID18011 | ID18001 | HCD017W | 04/17/1215:00 | 04/17/12 |
| EB-NBZ-SS-041712 | D154-02R | ND | 1 | NA | 0.200 | 0.100 | 04/18/1210:03 | NA | ID18012 | ID18001 | HCD017W | 04/17/1215:00 | 04/17/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: 7199

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HCD017WB | HCD017WL | HCD017WC | | |
| LAB FILE ID: | ID18003 | ID18005 | ID18007 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/18/1208:27 | 04/18/1208:48 | 04/18/1209:09 | DATE RECEIVED: | NA |
| PREP. BATCH: | HCD017W | HCD017W | HCD017W | | |
| CALIB. REF: | ID18001 | ID18001 | ID18001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 2.00 | 2.00 | 100 | 2.00 | 2.02 | 101 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: 7199

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HCD017WQ | HCD017WX | HCD017WY | | |
| LAB FILE ID: | ID18004 | ID18006 | ID18008 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/18/1208:37 | 04/18/1208:58 | 04/18/1209:19 | DATE RECEIVED: | NA |
| PREP. BATCH: | HCD017W | HCD017W | HCD017W | | |
| CALIB. REF: | ID18001 | ID18001 | ID18001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 2.00 | 2.06 | 103 | 2.00 | 2.06 | 103 | 0 | 80-120 | 20 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D154

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD011SB | ND | 1 | NA | 1.00 | 0.500 | 04/23/1220:06 | 04/20/1214:14 | ID23003 | ID23001 | HCD011S | NA | 04/20/12 |
| MBLK1S | HCD011SQ | ND | 1 | NA | 1.00 | 0.500 | 04/23/1220:17 | 04/20/1214:14 | ID23004 | ID23001 | HCD011S | NA | 04/20/12 |
| LCS1S | CSD011SL | 9.65 | 1 | NA | 1.00 | 0.500 | 04/23/1220:27 | 04/20/1214:14 | ID23005 | ID23001 | HCD011S | NA | 04/20/12 |
| LCS1S | CSD011SX | 9.68 | 1 | NA | 1.00 | 0.500 | 04/23/1220:37 | 04/20/1214:14 | ID23006 | ID23001 | HCD011S | NA | 04/20/12 |
| LCS2W | CID011SL | 253 | 20 | NA | 20.0 | 10.0 | 04/23/1220:48 | 04/20/1214:14 | ID23007 | ID23001 | HCD011S | NA | 04/20/12 |
| LCS2W | CID011SX | 256 | 20 | NA | 20.0 | 10.0 | 04/23/1220:58 | 04/20/1214:14 | ID23008 | ID23001 | HCD011S | NA | 04/20/12 |
| SL-014-NBZ-SS-0.0-0.5 | D154-03 | ND | 1 | 20.3 | 1.25 | 0.627 | 04/23/1222:21 | 04/20/1214:14 | ID23015 | ID23013 | HCD011S | 04/17/1210:10 | 04/17/12 |
| SL-014-NBZ-SS-0.0-0.5 | D154-03R | ND | 1 | 20.3 | 1.25 | 0.627 | 04/23/1222:32 | 04/20/1214:14 | ID23016 | ID23013 | HCD011S | 04/17/1210:10 | 04/17/12 |
| SL-088-NBZ-SS-0.0-0.5 | D154-04 | ND | 1 | 23.6 | 1.31 | 0.654 | 04/23/1222:42 | 04/20/1214:14 | ID23017 | ID23013 | HCD011S | 04/17/1211:00 | 04/17/12 |
| SL-088-NBZ-SS-0.0-0.5 | D154-04R | ND | 1 | 23.6 | 1.31 | 0.654 | 04/23/1222:53 | 04/20/1214:14 | ID23018 | ID23013 | HCD011S | 04/17/1211:00 | 04/17/12 |
| SL-090-NBZ-SS-0.0-0.5 | D154-05 | ND | 1 | 13.9 | 1.16 | 0.581 | 04/23/1223:03 | 04/20/1214:14 | ID23019 | ID23013 | HCD011S | 04/17/1214:12 | 04/17/12 |
| SL-090-NBZ-SS-0.0-0.5 | D154-05R | ND | 1 | 13.9 | 1.16 | 0.581 | 04/23/1223:13 | 04/20/1214:14 | ID23020 | ID23013 | HCD011S | 04/17/1214:12 | 04/17/12 |
| SL-147-NBZ-SS-0.0-0.5 | D154-06 | ND | 1 | 13.4 | 1.15 | 0.577 | 04/23/1223:24 | 04/20/1214:14 | ID23021 | ID23013 | HCD011S | 04/17/1215:25 | 04/17/12 |
| SL-147-NBZ-SS-0.0-0.5 | D154-06R | ND | 1 | 13.4 | 1.15 | 0.577 | 04/23/1223:34 | 04/20/1214:14 | ID23022 | ID23013 | HCD011S | 04/17/1215:25 | 04/17/12 |
| SL-156-NBZ-SS-0.0-0.5 | D154-07 | ND | 1 | 17.2 | 1.21 | 0.604 | 04/23/1223:45 | 04/20/1214:14 | ID23023 | ID23013 | HCD011S | 04/17/1211:17 | 04/17/12 |
| SL-156-NBZ-SS-0.0-0.5 | D154-07R | ND | 1 | 17.2 | 1.21 | 0.604 | 04/23/1223:55 | 04/20/1214:14 | ID23024 | ID23013 | HCD011S | 04/17/1211:17 | 04/17/12 |
| SL-161-NBZ-SS-0.0-0.5 | D154-08 | ND | 1 | 10.7 | 1.12 | 0.560 | 04/24/1200:37 | 04/20/1214:14 | ID23027 | ID23025 | HCD011S | 04/17/1211:50 | 04/17/12 |
| SL-161-NBZ-SS-0.0-0.5 | D154-08R | ND | 1 | 10.7 | 1.12 | 0.560 | 04/24/1200:47 | 04/20/1214:14 | ID23028 | ID23025 | HCD011S | 04/17/1211:50 | 04/17/12 |
| SL-162-NBZ-SS-0.0-0.5 | D154-09 | ND | 1 | 8.9 | 1.10 | 0.549 | 04/24/1200:57 | 04/20/1214:14 | ID23029 | ID23025 | HCD011S | 04/17/1209:55 | 04/17/12 |
| SL-162-NBZ-SS-0.0-0.5 | D154-09R | ND | 1 | 8.9 | 1.10 | 0.549 | 04/24/1201:08 | 04/20/1214:14 | ID23030 | ID23025 | HCD011S | 04/17/1209:55 | 04/17/12 |
| SL-166-NBZ-SS-0.0-0.5 | D154-10 | ND | 1 | 13.8 | 1.16 | 0.580 | 04/24/1201:18 | 04/20/1214:14 | ID23031 | ID23025 | HCD011S | 04/17/1210:30 | 04/17/12 |
| SL-166-NBZ-SS-0.0-0.5 | D154-10R | ND | 1 | 13.8 | 1.16 | 0.580 | 04/24/1201:29 | 04/20/1214:14 | ID23032 | ID23025 | HCD011S | 04/17/1210:30 | 04/17/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD011SB CSD011SL
LAB FILE ID: ID23003 ID23005
DATE EXTRACTED: 04/20/1214:14 04/20/1214:14 DATE COLLECTED: NA
DATE ANALYZED: 04/23/1220:06 04/23/1220:27 DATE RECEIVED: 04/20/12
PREP. BATCH: HCD011S HCD011S
CALIB. REF: ID23001 ID23001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 9.65 | 96 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD011SQ CSD011SX
LAB FILE ID: ID23004 ID23006
DATE EXTRACTED: 04/20/1214:14 04/20/1214:14 DATE COLLECTED: NA
DATE ANALYZED: 04/23/1220:17 04/23/1220:37 DATE RECEIVED: 04/20/12
PREP. BATCH: HCD011S HCD011S
CALIB. REF: ID23001 ID23001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 9.68 | 97 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 20 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD011SB | CID011SL | | |
| LAB FILE ID: | ID23003 | ID23007 | | |
| DATE EXTRACTED: | 04/20/1214:14 | 04/20/1214:14 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/23/1220:06 | 04/23/1220:48 | DATE RECEIVED: | 04/20/12 |
| PREP. BATCH: | HCD011S | HCD011S | | |
| CALIB. REF: | ID23001 | ID23001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 306 | 253 | 83 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D154
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD011SQ CID011SX
LAB FILE ID: ID23004 ID23008
DATE EXTRACTED: 04/20/1214:14 04/20/1214:14 DATE COLLECTED: NA
DATE ANALYZED: 04/23/1220:17 04/23/1220:58 DATE RECEIVED: 04/20/12
PREP. BATCH: HCD011S HCD011S
CALIB. REF: ID23001 ID23001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 306 | 256 | 84 | 80-120 |

# SAMPLE DELIVERY GROUP

# 12D166

**NBZ – Data Package Amendment**
**SDG 12D146, SDG 12D166, SDG DX169, SDG DX170**
**6-17-13**

During the database check, an inconsistency in sample identification was discovered that needed to be corrected. They are listed below:

- Two samples for SL-160-NBZ-SS-0.0-0.5 were taken on the same day at the same location.
- One sample was re-assigned as a field duplicate called DUP-10-NBZ-QC-041612.
- The field duplicate sample DUP-10-NBZ-QC-041612 was added to the dt_sample table and the methods in SDG 12D166 and DX170 were assigned to it.

All changes have been documented and verified by the field personnel and data group.

Pam Hartman
Catherine Love
Cherie Zakowski

eurofins | Lancaster Laboratories

# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

DUP-10-NBZ-QC-041612 CZ 6/17/13



Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6624306
LLI Group # 1303751
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2012 14:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7014 SDG#: DX170-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 11.0 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

DUP-10-NBZ-QC-041612 6/17/13



Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6624306
LLI Group # 1303751
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2012 14:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7014 SDG#: DX170-14

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0244 | U | 0.0244 | 1.12 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.108 | J | 0.0219 | 5.61 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0804 | JBQ | 0.0285 | 5.61 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.246 | JB | 0.0311 | 5.61 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.247 | JB | 0.0310 | 5.61 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 1.97 | JB | 0.0235 | 5.61 | 1 |
| 11031 | OCDD | 3268-87-9 | 10.7 | JB | 0.0227 | 11.2 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.208 | JB | 0.0591 | 1.12 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 0.253 | JBQ | 0.0365 | 5.61 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.605 | JB | 0.0369 | 5.61 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 0.238 | JB | 0.0276 | 5.61 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.159 | J | 0.0246 | 5.61 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.0436 | JB | 0.0302 | 5.61 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.225 | JB | 0.0234 | 5.61 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.492 | JB | 0.0146 | 5.61 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.0638 | JB | 0.0236 | 5.61 | 1 |
| 11031 | OCDF | 39001-02-0 | 0.826 | JB | 0.0236 | 11.2 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 76 | 25 - 164 |
| 13C12-12378-PeCDD | 75 | 25 - 181 |
| 13C12-123478-HxCDD | 96 | 32 - 141 |
| 13C12-123678-HxCDD | 89 | 28 - 130 |
| 13C12-123789-HxCDD | 87 | 28 - 130 |
| 13C12-1234678-HpCDD | 83 | 23 - 140 |
| 13C12-OCDD | 78 | 17 - 157 |
| 13C12-2378-TCDF | 68 | 24 - 169 |
| 13C12-12378-PeCDF | 76 | 24 - 185 |
| 13C12-23478-PeCDF | 70 | 21 - 178 |
| 13C12-123478-HxCDF | 77 | 26 - 152 |
| 13C12-123678-HxCDF | 84 | 26 - 123 |
| 13C12-234678-HxCDF | 90 | 28 - 136 |
| 13C12-123789-HxCDF | 72 | 29 - 147 |
| 13C12-1234678-HpCDF | 97 | 28 - 143 |
| 13C12-1234789-HpCDF | 65 | 26 - 138 |
| 13C12-OCDF | 59 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

DUP-10-NBZ-QC-041612 CZ 6/17/13



Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6624306
LLI Group # 1303751
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2012 14:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7014 SDG#: DX170-14

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| S | *Saturation of detection signal* | | | | | |

*=This limit was used in the evaluation of the final result

eurofins | Lancaster Laboratories

# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

DUP-10-NBZ-QC-041612 6/17/13



**Sample Description:** SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6624306
LLI Group # 1303751
Account # 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 14:25

Submitted: 04/20/2012 09:15
Reported: 05/08/2012 17:20

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

D7014 SDG#: DX170-14

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 09:15 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401B | 05/01/2012 11:51 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

eurofins | Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

# Analysis Report



Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6620881
LLI Group # 1303087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/16/2012 14:40

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6906 SDG#: DX169-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11624 | Moisture Content by 160.3 | n.a. | 10.2 | 0.50 | 0.50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6620881
LLI Group # 1303087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/16/2012 14:40

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6906 SDG#: DX169-06

| CAT No. | Analysis Name | | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | | 1746-01-6 | 0.0213 | U | 0.0213 | 1.09 | 1 |
| 11031 | 12378-PeCDD | | 40321-76-4 | 0.0928 | JBQ | 0.0199 | 5.47 | 1 |
| 11031 | 123478-HxCDD | | 39227-28-6 | 0.0864 | JB | 0.0293 | 5.47 | 1 |
| 11031 | 123678-HxCDD | | 57653-85-7 | 0.165 | JB | 0.0274 | 5.47 | 1 |
| 11031 | 123789-HxCDD | | 19408-74-3 | 0.172 | JB | 0.0269 | 5.47 | 1 |
| 11031 | 1234678-HpCDD | | 35822-46-9 | 1.94 | JB | 0.0228 | 5.47 | 1 |
| 11031 | OCDD | | 3268-87-9 | 12.9 | B | 0.0182 | 10.9 | 1 |
| 11031 | 2378-TCDF | | 51207-31-9 | 0.0924 | JB | 0.0412 | 1.09 | 1 |
| 11031 | 12378-PeCDF | | 57117-41-6 | 0.139 | JB | 0.0233 | 5.47 | 1 |
| 11031 | 23478-PeCDF | | 57117-31-4 | 0.261 | JB | 0.0214 | 5.47 | 1 |
| 11031 | 123478-HxCDF | | 70648-26-9 | 0.120 | JB | 0.0197 | 5.47 | 1 |
| 11031 | 123678-HxCDF | | 57117-44-9 | 0.0911 | JB | 0.0190 | 5.47 | 1 |
| 11031 | 123789-HxCDF | | 72918-21-9 | 0.0288 | JB | 0.0192 | 5.47 | 1 |
| 11031 | 234678-HxCDF | | 60851-34-5 | 0.158 | JB | 0.0185 | 5.47 | 1 |
| 11031 | 1234678-HpCDF | | 67562-39-4 | 0.474 | JB | 0.0219 | 5.47 | 1 |
| 11031 | 1234789-HpCDF | | 55673-89-7 | 0.0688 | JB | 0.0255 | 5.47 | 1 |
| 11031 | OCDF | | 39001-02-0 | 0.711 | JB | 0.0141 | 10.9 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 84 | 25 - 164 |
| 13C12-12378-PeCDD | 86 | 25 - 181 |
| 13C12-123478-HxCDD | 88 | 32 - 141 |
| 13C12-123678-HxCDD | 101 | 28 - 130 |
| 13C12-123789-HxCDD | 96 | 28 - 130 |
| 13C12-1234678-HpCDD | 88 | 23 - 140 |
| 13C12-OCDD | 86 | 17 - 157 |
| 13C12-2378-TCDF | 77 | 24 - 169 |
| 13C12-12378-PeCDF | 82 | 24 - 185 |
| 13C12-23478-PeCDF | 83 | 21 - 178 |
| 13C12-123478-HxCDF | 79 | 26 - 152 |
| 13C12-123678-HxCDF | 79 | 26 - 123 |
| 13C12-234678-HxCDF | 82 | 28 - 136 |
| 13C12-123789-HxCDF | 86 | 29 - 147 |
| 13C12-1234678-HpCDF | 87 | 28 - 143 |
| 13C12-1234789-HpCDF | 82 | 26 - 138 |
| 13C12-OCDF | 80 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

- *B Detected in Method Blank*
- *U Undetected*
- *J Estimated concentration between Estimated Detection Limit and Minimum Level*
- *E Exceeds calibration range*
- *C Confirmed quantitation on secondary GC column*
- *Q EMPC - Estimated Maximum Possible Concentration*
- *F Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6620881
LLI Group # 1303087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/16/2012 14:40

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6906 SDG#: DX169-06

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|
| S | *Saturation of detection signal* | | | | | |

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-NBZ-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-NBZ-SS

LLI Sample # SW 6620881
LLI Group # 1303087
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/16/2012 14:40

Submitted: 04/18/2012 09:40
Reported: 05/03/2012 14:13

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X6906 SDG#: DX169-06

## General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12111004 | 04/24/2012 00:22 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12111004 | 04/20/2012 12:45 | Deborah M Zimmerman | 1 |
| 11624 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12122162401A | 05/01/2012 11:51 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| Batch No. | : 120166 | Date Extracted | : 04/25/1211:53 |
| Sample ID | : SL-160-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/02/12 21:13 |
| Lab Samp ID | : D166-09 | Dilution Factor | : 1 |
| Lab File ID | : REL078 DUP-10-NBZ-QC- CK11612 | Matrix | : SOIL |
| Ext Btch ID | : SVD047S | % Moisture | : 10.8 |
| Calib. Ref. | : RDL204 | Instrument ID | : T-OE9 |

EZ 6/7/12

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 750 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 834 | 1121 | 74.4 | 35-130 |
| 2-FLUOROBIPHENYL | 292 | 373.7 | 78.2 | 45-130 |
| 2-FLUOROPHENOL | 791 | 1121 | 70.6 | 25-130 |
| NITROBENZENE-D5 | 244 | 373.7 | 65.2 | 40-130 |
| PHENOL-D5 | 812 | 1121 | 72.4 | 25-120 |
| TERPHENYL-D14 | 381 | 373.7 | 102 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 21:13 |
| Lab Samp ID: D166-09 DUP-10-NBZ-QC-041612 | Dilution Factor: 1 |
| Lab File ID: REL078 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 10.8 |
| Calib. Ref.: RDL204 cz 6/17/13 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)PYRENE | ND | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.95 |
| CHRYSENE | ND | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | ND | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.95 |
| NAPHTHALENE | ND | 1.9 | 0.95 |
| PHENANTHRENE | ND | 1.9 | 0.95 |
| PYRENE | ND | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | 9.6J | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 240 | 373.7 | 64.2 | 40-130 |
| 2-FLUOROBIPHENYL | 256 | 373.7 | 68.6 | 45-130 |
| TERPHENYL-D14 | 347 | 373.7 | 92.8 | 45-135 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 19:12 |
| Lab Samp ID: D166-09 | Dilution Factor: 1 |
| Lab File ID: MD27027A DUP-b-NBZ-QC- | Matrix : SOIL |
| Ext Btch ID: CPD054S 04/6/12 CZ 6/07/13 | % Moisture : 10.8 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | | RL (ug/kg) | MDL (ug/kg) | |
|---|---|---|---|---|---|
| ALPHA-BHC | 0.61 | (ND) | 0.19 | 0.095 | 0.095 |
| GAMMA-BHC (LINDANE) | (ND) | ND | 0.19 | 0.095 | 0.095 |
| BETA-BHC | (ND) | ND | 0.19 | 0.095 | 0.095 |
| HEPTACHLOR | (ND) | 0.23 | 0.19 | 0.095 | 0.095 |
| DELTA-BHC | (ND) | 1.1 | 0.19 | 0.095 | 0.095 |
| ALDRIN | (ND) | 0.38 | 0.19 | 0.095 | 0.095 |
| HEPTACHLOR EPOXIDE | 0.35 | (ND) | 0.19 | 0.095 | 0.095 |
| ENDOSULFAN I | (ND) | 0.13J | 0.19 | 0.095 | 0.095 |
| 4,4'-DDE | (1.1) | 0.89 | 0.38 | 0.19 | 0.19 |
| DIELDRIN | (ND) | ND | 0.38 | 0.19 | 0.19 |
| ENDRIN | (ND) | ND | 0.38 | 0.19 | 0.19 |
| 4,4'-DDD | (ND) | 0.92 | 0.38 | 0.19 | 0.19 |
| ENDOSULFAN II | (ND) | ND | 0.38 | 0.19 | 0.19 |
| 4,4'-DDT | (1.7) | 1.6 | 0.38 | 0.19 | 0.19 |
| ENDRIN ALDEHYDE | (ND) | 0.25J | 0.38 | 0.19 | 0.19 |
| ENDOSULFAN SULFATE | (ND) | 0.98 | 0.38 | 0.19 | 0.19 |
| ENDRIN KETONE | 0.98 | (ND) | 0.38 | 0.19 | 0.19 |
| METHOXYCHLOR | 2.5 | (ND) | 1.9 | 0.95 | 0.95 |
| MIREX | (ND) | ND | 0.38 | 0.19 | 0.19 |
| TOXAPHENE | (ND) | ND | 7.4 | 3.7 | 3.7 |
| CHLORDANE (TECHNICAL) | (ND) | ND | 3.8 | 1.9 | 1.9 |

| SURROGATE PARAMETERS | RESULTS | | SPK_AMT | % RECOVERY | | QC LIMIT |
|---|---|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.593 | (5.594) | 5.979 | 76.8 | (93.6) | 50-130 |
| DECACHLOROBIPHENYL | (5.786) | 4.684 | 5.979 | (96.8) | 78.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/26/12 17:43 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/14/12 18:37 |
| Lab Samp ID: D166-09 DUP-10-NBZ-QC-041612 cz 6/7/13 | Dilution Factor: 1 |
| Lab File ID: KE14012A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 10.8 |
| Calib. Ref.: KE14003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1221 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1232 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1242 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1248 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1254 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1260 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1262 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1268 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 5432 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| AROCLOR 5442 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| AROCLOR 5460 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.005) \| 4.897 | 5.979 | (117) \| 81.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.558) \| 4.527 | 5.979 | (110) \| 75.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 120166 | Date Extracted: 04/23/12 17:23 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 18:48 |
| Lab Samp ID: D166-09 DUP-10-NBZ-QC-04/16/12 | Dilution Factor: 1 |
| Lab File ID: WD25026A | Matrix : SOIL |
| Ext Btch ID: HED012S | % Moisture : 10.8 |
| Calib. Ref.: WD25020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 4.0 | 2.0 \| 2.0 |
| 2,4-DB | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| 2,4,5-T | 0.34 \| (ND) | 0.19 | 0.095 \| 0.095 |
| 2,4,5-TP(SILVEX) | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| DALAPON | (ND) \| ND | 10 | 5.0 \| 5.0 |
| DICAMBA | (ND) \| ND | 1.3 | 0.67 \| 0.67 |
| DICHLOROPROP | (ND) \| ND | 2.7 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| MCPA | (ND) \| ND | 280 | 140 \| 140 |
| MCPP | (ND) \| ND | 280 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (231.8) \| 180.3 | 168.2 | (138) \| 107 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 6020
METALS BY ICP-MS

oz 6/17/13

DUP-10-NBZ-QC-041612

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 04/18/12 |
| SDG NO. | : 12D166 | Date Extracted: | 04/25/12 10:28 |
| Sample ID: | SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: | 04/30/12 17:50 # 05/01/12 19:01 |
| Lab Samp ID: | D166-09 #D166-09W | Dilution Factor: | 0.976 |
| Lab File ID: | 98D21066 #98E01050 | Matrix : | SOIL |
| Ext Btch ID: | IMD036S | % Moisture : | 10.8 |
| Calib. Ref.: | 98D21062 #98E01041 | Instrument ID : | T-198 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 9610 | 26.3 | 13.1 |
| | Antimony | 0.164J | 0.219 | 0.109 |
| | Arsenic | 4.70 | 0.438 | 0.219 |
| | Barium | 60.5 | 0.438 | 0.219 |
| | Beryllium | 0.494 | 0.109 | 0.0547 |
| | Boron | ND | 5.47 | 2.74 |
| | Cadmium | 0.205 | 0.109 | 0.0547 |
| | Calcium | 2290 | 21.9 | 10.9 |
| | Chromium | 11.2 | 0.438 | 0.219 |
| | Cobalt | 4.81 | 0.109 | 0.0547 |
| | Copper | 6.78 | 0.438 | 0.219 |
| | Iron | 20100 | 21.9 | 10.9 |
| | Lead | 9.49 | 0.219 | 0.109 |
| | Magnesium | 4160 | 10.9 | 5.47 |
| | Manganese | 260 | 0.547 | 0.274 |
| | Molybdenum | 0.359 | 0.109 | 0.0547 |
| | Nickel | 7.36 | 0.438 | 0.219 |
| | Potassium | 2720 | 65.7 | 32.8 |
| | Selenium | 0.887 | 0.438 | 0.219 |
| | Silver | ND | 0.109 | 0.0547 |
| | Sodium | ND | 109 | 54.7 |
| # | Strontium | 10.3 | 0.547 | 0.274 |
| | Thallium | 0.253 | 0.109 | 0.0547 |
| | Tin | ND | 10.9 | 5.47 |
| | Titanium | 785 | 1.09 | 0.547 |
| | Vanadium | 25.7 | 0.109 | 0.0547 |
| | Zinc | 59.1 | 3.28 | 1.64 |
| | Lithium | 28.6 | 2.19 | 1.09 |
| | Phosphorus | 395 | 13.1 | 6.57 |
| | Zirconium | ND | 5.47 | 2.74 |

# Members of the Associated File

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD025SB | ND | 1 | NA | 0.100 | 0.0500 | 04/24/1217:56 | 04/24/1213:30 | M47D017035 | M47D017032 | HGD025S | NA | 04/24/12 |
| LCS1S | HGD025SL | 0.863 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:58 | 04/24/1213:30 | M47D017036 | M47D017032 | HGD025S | NA | 04/24/12 |
| LCD1S | HGD025SC | 0.853 | 1 | NA | 0.100 | 0.0500 | 04/24/1218:00 | 04/24/1213:30 | M47D017037 | M47D017032 | HGD025S | NA | 04/24/12 |
| SL-008-NBZ-SB-4.0-5.0AS | D166-02A | 0.911 | 0.993 | 5.3 | 0.105 | 0.0524 | 04/24/1218:03 | 04/24/1213:30 | M47D017038 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 0.993 | 5.3 | 0.105 | 0.0524 | 04/24/1218:05 | 04/24/1213:30 | M47D017039 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DL | D166-02J | ND | 4.97 | 5.3 | 0.525 | 0.262 | 04/24/1218:07 | 04/24/1213:30 | M47D017040 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M | 0.920 | 0.992 | 5.3 | 0.105 | 0.0524 | 04/24/1218:09 | 04/24/1213:30 | M47D017041 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MSD | D166-02S | 0.921 | 0.995 | 5.3 | 0.105 | 0.0525 | 04/24/1218:11 | 04/24/1213:30 | M47D017042 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 0.998 | 16.0 | 0.119 | 0.0594 | 04/24/1218:13 | 04/24/1213:30 | M47D017043 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 0.233 | 0.985 | 12.8 | 0.113 | 0.0565 | 04/24/1218:20 | 04/24/1213:30 | M47D017046 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1.01 | 12.1 | 0.115 | 0.0575 | 04/24/1218:22 | 04/24/1213:30 | M47D017047 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 0.0992J | 0.995 | 12.6 | 0.114 | 0.0569 | 04/24/1218:24 | 04/24/1213:30 | M47D017048 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1.00 | 13.0 | 0.115 | 0.0575 | 04/24/1218:26 | 04/24/1213:30 | M47D017049 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 0.995 | 10.8 | 0.112 | 0.0558 | 04/24/1218:28 | 04/24/1213:30 | M47D017050 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 0.997 | 12.7 | 0.114 | 0.0571 | 04/24/1218:30 | 04/24/1213:30 | M47D017051 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |

DUP-10-NBZ-QC-041612

CZ
6/7/13

GS2

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : DO

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD010SB | ND | 1 | NA | 1.00 | 0.500 | 04/24/1220:12 | 04/23/1211:11 | AD31-39 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCS1S | ICD010SL | 6.34 | 1 | NA | 1.00 | 0.500 | 04/24/1220:28 | 04/23/1211:11 | AD31-40 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCD1S | ICD010SC | 6.31 | 1 | NA | 1.00 | 0.500 | 04/24/1220:44 | 04/23/1211:11 | AD31-41 | AD31-37 | ICD010S | NA | 04/23/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 1.06 | 0.528 | 04/24/1221:00 | 04/23/1211:11 | AD31-42 | AD31-37 | ICD010S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 1 | 16.0 | 1.19 | 0.595 | 04/24/1221:16 | 04/23/1211:11 | AD31-43 | AD31-37 | ICD010S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 0.831J | 1 | 12.8 | 1.15 | 0.573 | 04/24/1221:33 | 04/23/1211:11 | AD31-44 | AD31-37 | ICD010S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | 1.26 | 1 | 12.1 | 1.14 | 0.569 | 04/24/1221:49 | 04/23/1211:11 | AD31-45 | AD31-37 | ICD010S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 0.692J | 1 | 12.6 | 1.14 | 0.572 | 04/24/1222:05 | 04/23/1211:11 | AD31-46 | AD31-37 | ICD010S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 1.15 | 0.575 | 04/24/1222:21 | 04/23/1211:11 | AD31-47 | AD31-37 | ICD010S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 1.12 | 0.561 | 04/24/1223:26 | 04/23/1211:11 | AD31-51 | AD31-49 | ICD010S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 1.15 | 0.573 | 04/24/1223:42 | 04/23/1211:11 | AD31-52 | AD31-49 | ICD010S | 04/18/1211:20 | 04/18/12 |

DUP-10-NBZ-QC-041612

EZ
6/07/13

1827

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD018SB | ND | 1 | NA | 20.0 | 10.0 | 04/23/1221:48 | 04/23/1211:30 | JD23031 | JD23030 | PCD018S | NA | 04/23/12 |
| LCS1S | PCD018SL | 241 | 1 | NA | 20.0 | 10.0 | 04/23/1222:30 | 04/23/1211:30 | JD23033 | JD23030 | PCD018S | NA | 04/23/12 |
| LCD1S | PCD018SC | 243 | 1 | NA | 20.0 | 10.0 | 04/23/1222:51 | 04/23/1211:30 | JD23034 | JD23030 | PCD018S | NA | 04/23/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 21.1 | 10.6 | 04/23/1223:12 | 04/23/1211:30 | JD23035 | JD23030 | PCD018S | 04/18/1209:55 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | ND | 1 | 12.8 | 22.9 | 11.5 | 04/23/1223:54 | 04/23/1211:30 | JD23037 | JD23030 | PCD018S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1 | 12.1 | 22.8 | 11.4 | 04/24/1200:15 | 04/23/1211:30 | JD23038 | JD23030 | PCD018S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | ND | 1 | 12.6 | 22.9 | 11.4 | 04/24/1200:36 | 04/23/1211:30 | JD23039 | JD23030 | PCD018S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 23.0 | 11.5 | 04/24/1201:39 | 04/23/1211:30 | JD23042 | JD23041 | PCD018S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 22.4 | 11.2 | 04/24/1202:00 | 04/23/1211:30 | JD23043 | JD23041 | PCD018S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 22.9 | 11.5 | 04/24/1202:21 | 04/23/1211:30 | JD23044 | JD23041 | PCD018S | 04/18/1211:20 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 5 | 16.0 | 119 | 59.5 | 04/24/1210:44 | 04/23/1211:30 | JD23064 | JD23062 | PCD018S | 04/18/1210:00 | 04/18/12 |

DUP-10-NBZ-QC-041612

CZ
6/17/13

Ch2 1

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD012SB | ND | 1 | NA | 1.00 | 0.500 | 04/25/1215:02 | 04/24/1216:57 | ID25003 | ID25001 | HCD012S | NA | 04/24/12 |
| MBLK1S | HCD012SQ | ND | 1 | NA | 1.00 | 0.500 | 04/25/1215:13 | 04/24/1216:57 | ID25004 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS1S | CID012SL | 337 | 20 | NA | 20.0 | 10.0 | 04/25/1215:44 | 04/24/1216:57 | ID25007 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS1S | CID012SX | 341 | 20 | NA | 20.0 | 10.0 | 04/25/1215:55 | 04/24/1216:57 | ID25008 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS2S | CSD012SL | 8.77 | 1 | NA | 1.00 | 0.500 | 04/25/1219:18 | 04/24/1216:57 | ID25023 | ID25013 | HCD012S | NA | 04/24/12 |
| LCS2S | CSD012SX | 8.57 | 1 | NA | 1.00 | 0.500 | 04/25/1219:28 | 04/24/1216:57 | ID25024 | ID25013 | HCD012S | NA | 04/24/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M | 9.82 | 1 | 5.3 | 1.06 | 0.528 | 04/25/1216:33 | 04/24/1216:57 | ID25009 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M1 | 9.75 | 1 | 5.3 | 1.06 | 0.528 | 04/25/1216:44 | 04/24/1216:57 | ID25010 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02G | 470 | 20 | 5.3 | 21.1 | 10.6 | 04/25/1216:54 | 04/24/1216:57 | ID25011 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02G1 | 495 | 20 | 5.3 | 21.1 | 10.6 | 04/25/1217:05 | 04/24/1216:57 | ID25012 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1217:54 | 04/24/1216:57 | ID25015 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02R | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:04 | 04/24/1216:57 | ID25016 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DUP | D166-02D | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:14 | 04/24/1216:57 | ID25017 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DUP | D166-02Z | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:25 | 04/24/1216:57 | ID25018 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 1 | 16.0 | 1.19 | 0.595 | 04/25/1220:30 | 04/24/1216:57 | ID25029 | ID25025 | HCD012S | 04/18/1210:00 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03R | ND | 1 | 16.0 | 1.19 | 0.595 | 04/25/1220:41 | 04/24/1216:57 | ID25030 | ID25025 | HCD012S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | ND | 1 | 12.8 | 1.15 | 0.573 | 04/25/1220:51 | 04/24/1216:57 | ID25031 | ID25025 | HCD012S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04R | ND | 1 | 12.8 | 1.15 | 0.573 | 04/25/1221:02 | 04/24/1216:57 | ID25032 | ID25025 | HCD012S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1 | 12.1 | 1.14 | 0.569 | 04/25/1221:12 | 04/24/1216:57 | ID25033 | ID25025 | HCD012S | 04/18/1210:57 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06R | ND | 1 | 12.1 | 1.14 | 0.569 | 04/25/1221:22 | 04/24/1216:57 | ID25034 | ID25025 | HCD012S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | ND | 1 | 12.6 | 1.14 | 0.572 | 04/25/1221:33 | 04/24/1216:57 | ID25035 | ID25025 | HCD012S | 04/18/1214:06 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07R | ND | 1 | 12.6 | 1.14 | 0.572 | 04/25/1221:43 | 04/24/1216:57 | ID25036 | ID25025 | HCD012S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 1.15 | 0.575 | 04/25/1222:25 | 04/24/1216:57 | ID25039 | ID25037 | HCD012S | 04/18/1215:40 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08R | ND | 1 | 13.0 | 1.15 | 0.575 | 04/25/1222:35 | 04/24/1216:57 | ID25040 | ID25037 | HCD012S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 1.12 | 0.561 | 04/25/1222:46 | 04/24/1216:57 | ID25041 | ID25037 | HCD012S | 04/18/1214:25 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09R | ND | 1 | 10.8 | 1.12 | 0.561 | 04/25/1222:56 | 04/24/1216:57 | ID25042 | ID25037 | HCD012S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 1.15 | 0.573 | 04/25/1223:06 | 04/24/1216:57 | ID25043 | ID25037 | HCD012S | 04/18/1211:20 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10R | ND | 1 | 12.7 | 1.15 | 0.573 | 04/25/1223:17 | 04/24/1216:57 | ID25044 | ID25037 | HCD012S | 04/18/1211:20 | 04/18/12 |

DUP-10-NBZ-QC-041612

CZ
6/7/13

0659

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | 6.55 | 1 | NA | NA | NA | 04/19/1217:45 | 04/19/1217:32 | 12PHD021S08 | PHD021S | PHD021S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | 6.50 | 1 | NA | NA | NA | 04/19/1217:46 | 04/19/1217:32 | 12PHD021S09 | PHD021S | PHD021S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 6.52 | 1 | NA | NA | NA | 04/19/1217:47 | 04/19/1217:32 | 12PHD021S10 | PHD021S | PHD021S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | 6.72 | 1 | NA | NA | NA | 04/19/1217:52 | 04/19/1217:32 | 12PHD021S11 | PHD021S | PHD021S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 6.95 | 1 | NA | NA | NA | 04/19/1217:54 | 04/19/1217:32 | 12PHD021S12 | PHD021S | PHD021S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | 7.19 | 1 | NA | NA | NA | 04/19/1217:55 | 04/19/1217:32 | 12PHD021S13 | PHD021S | PHD021S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | 6.25 | 1 | NA | NA | NA | 04/19/1217:57 | 04/19/1217:32 | 12PHD021S14 | PHD021S | PHD021S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | 6.71 | 1 | NA | NA | NA | 04/19/1217:59 | 04/19/1217:32 | 12PHD021S15 | PHD021S | PHD021S | 04/18/1211:20 | 04/18/12 |

DUP-10-NBZ-QC-041612

CZ
6/17/13

GZT

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/1211:53 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 16:52 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: REL068 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 10.4 |
| Calib. Ref.: RDL204 | Instrument ID : T-0E9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 740 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 789 | 1116 | 70.7 | 35-130 |
| 2-FLUOROBIPHENYL | 237 | 372.0 | 63.7 | 45-130 |
| 2-FLUOROPHENOL | 597 | 1116 | 53.5 | 25-130 |
| NITROBENZENE-D5 | 184 | 372.0 | 49.5 | 40-130 |
| PHENOL-D5 | 633 | 1116 | 56.7 | 25-120 |
| TERPHENYL-D14 | 388 | 372.0 | 104 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 16:52 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: REL068 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 10.4 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | 1.4J | 1.9 | 0.95 |
| BENZO(A)PYRENE | ND | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.95 |
| CHRYSENE | ND | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | ND | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.95 |
| NAPHTHALENE | ND | 1.9 | 0.95 |
| PHENANTHRENE | ND | 1.9 | 0.95 |
| PYRENE | ND | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 13J | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | 9.4J | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 180 | 372.0 | 48.5 | 40-130 |
| 2-FLUOROBIPHENYL | 211 | 372.0 | 56.7 | 45-130 |
| TERPHENYL-D14 | 372 | 372.0 | 99.9 | 45-135 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 13:40 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 17:06 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: MD26019A | Matrix : SOIL |
| Ext Btch ID: CPD042S | % Moisture : 10.4 |
| Calib. Ref.: MD26008A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | | RL (ug/kg) | MDL (ug/kg) | |
|---|---|---|---|---|---|
| ALPHA-BHC | 0.59 | (ND) | 0.19 | 0.095 | 0.095 |
| GAMMA-BHC (LINDANE) | (ND) | ND | 0.19 | 0.095 | 0.095 |
| BETA-BHC | (ND) | ND | 0.19 | 0.095 | 0.095 |
| HEPTACHLOR | (ND) | ND | 0.19 | 0.095 | 0.095 |
| DELTA-BHC | (ND) | ND | 0.19 | 0.095 | 0.095 |
| ALDRIN | (ND) | 0.46 | 0.19 | 0.095 | 0.095 |
| HEPTACHLOR EPOXIDE | 0.32 | (ND) | 0.19 | 0.095 | 0.095 |
| ENDOSULFAN I | (ND) | 0.12J | 0.19 | 0.095 | 0.095 |
| 4,4'-DDE | 0.42 | (0.92) | 0.38 | 0.19 | 0.19 |
| DIELDRIN | 0.28J | (ND) | 0.38 | 0.19 | 0.19 |
| ENDRIN | (ND) | 0.40 | 0.38 | 0.19 | 0.19 |
| 4,4'-DDD | (ND) | 1.1 | 0.38 | 0.19 | 0.19 |
| ENDOSULFAN II | (ND) | ND | 0.38 | 0.19 | 0.19 |
| 4,4'-DDT | (0.35J) | 0.60 | 0.38 | 0.19 | 0.19 |
| ENDRIN ALDEHYDE | (ND) | 0.21J | 0.38 | 0.19 | 0.19 |
| ENDOSULFAN SULFATE | 0.50 | (ND) | 0.38 | 0.19 | 0.19 |
| ENDRIN KETONE | 3.4 | (ND) | 0.38 | 0.19 | 0.19 |
| METHOXYCHLOR | 14 | (ND) | 1.9 | 0.95 | 0.95 |
| MIREX | (ND) | ND | 0.38 | 0.19 | 0.19 |
| TOXAPHENE | (ND) | ND | 7.4 | 3.7 | 3.7 |
| CHLORDANE (TECHNICAL) | (ND) | ND | 3.8 | 1.9 | 1.9 |

| SURROGATE PARAMETERS | RESULTS | | SPK_AMT | % RECOVERY | | QC LIMIT |
|---|---|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.923 | (6.211) | 5.952 | 82.7 | (104) | 50-130 |
| DECACHLOROBIPHENYL | (4.740) | 4.594 | 5.952 | (79.6) | 77.2 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8082

PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/25/12 17:21 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/11/12 15:10 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: KE11009A | Matrix : SOIL |
| Ext Btch ID: CPD058S | % Moisture : 10.4 |
| Calib. Ref.: KE11003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1221 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1232 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1242 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1248 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1254 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1260 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1262 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 1268 | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| AROCLOR 5432 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| AROCLOR 5442 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |
| AROCLOR 5460 | (ND) \| ND | 3.7 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.764) \| 5.451 | 5.952 | (114) \| 91.6 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.225) \| 4.756 | 5.952 | (105) \| 79.9 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/16/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/16/12 |
| Batch No. : 12D146 | Date Extracted: 04/19/12 17:20 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/23/12 18:13 |
| Lab Samp ID: D146-03 | Dilution Factor: 1 |
| Lab File ID: WD23015A | Matrix : SOIL |
| Ext Btch ID: HED011S | % Moisture : 10.4 |
| Calib. Ref.: WD23002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 4.0 | 2.0 \| 2.0 |
| 2,4-DB | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| 2,4,5-T | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| 2,4,5-TP(SILVEX) | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| DALAPON | (ND) \| ND | 10 | 5.0 \| 5.0 |
| DICAMBA | (ND) \| ND | 1.3 | 0.67 \| 0.67 |
| DICHLOROPROP | (ND) \| ND | 2.7 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| MCPA | (ND) \| ND | 280 | 140 \| 140 |
| MCPP | (ND) \| ND | 280 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (168.7) \| 119.7 | 167.4 | (101) \| 71.5 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 04/16/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 04/16/12 |
| SDG NO. | : 12D146 | Date Extracted: | 04/24/12 10:33 |
| Sample ID: | SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: | 05/03/12 19:39 |
| Lab Samp ID: | D146-03 | Dilution Factor: | 1.00 |
| Lab File ID: | 98E03110 | Matrix : | SOIL |
| Ext Btch ID: | IMD035S | % Moisture : | 10.4 |
| Calib. Ref.: | 98E03106 | Instrument ID : | T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9850 | 26.8 | 13.4 |
| Antimony | 0.123J | 0.223 | 0.112 |
| Arsenic | 4.36 | 0.446 | 0.223 |
| Barium | 51.9 | 0.446 | 0.223 |
| Beryllium | 0.424 | 0.112 | 0.0558 |
| Boron | ND | 5.58 | 2.79 |
| Cadmium | 0.167 | 0.112 | 0.0558 |
| Calcium | 2340 | 22.3 | 11.2 |
| Chromium | 10.4 | 0.446 | 0.223 |
| Cobalt | 4.59 | 0.112 | 0.0558 |
| Copper | 6.03 | 0.446 | 0.223 |
| Iron | 19300 | 22.3 | 11.2 |
| Lead | 7.04 | 0.223 | 0.112 |
| Magnesium | 4150 | 11.2 | 5.58 |
| Manganese | 254 | 0.558 | 0.279 |
| Molybdenum | 0.352 | 0.112 | 0.0558 |
| Nickel | 6.55 | 0.446 | 0.223 |
| Potassium | 2460 | 67.0 | 33.5 |
| Selenium | 0.687 | 0.446 | 0.223 |
| Silver | ND | 0.112 | 0.0558 |
| Sodium | 57.0J | 112 | 55.8 |
| Strontium | 9.24 | 0.558 | 0.279 |
| Thallium | 0.224 | 0.112 | 0.0558 |
| Tin | ND | 11.2 | 5.58 |
| Titanium | 780 | 1.12 | 0.558 |
| Vanadium | 23.4 | 0.112 | 0.0558 |
| Zinc | 57.1 | 3.35 | 1.67 |
| Lithium | 28.2 | 2.23 | 1.12 |
| Phosphorus | 326 | 13.4 | 6.70 |
| Zirconium | ND | 5.58 | 2.79 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD024SB | ND | 1 | NA | 0.100 | 0.0500 | 04/24/1217:02 | 04/24/1213:00 | M47D017010 | M47D017008 | HGD024S | NA | 04/24/12 |
| LCS1S | HGD024SL | 0.848 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:04 | 04/24/1213:00 | M47D017011 | M47D017008 | HGD024S | NA | 04/24/12 |
| LCD1S | HGD024SC | 0.843 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:06 | 04/24/1213:00 | M47D017012 | M47D017008 | HGD024S | NA | 04/24/12 |
| SL-173-NBZ-SS-0.0-0.5AS | D146-05A | 1.04 | 0.993 | 17.4 | 0.120 | 0.0601 | 04/24/1217:08 | 04/24/1213:00 | M47D017013 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | ND | 0.993 | 17.4 | 0.120 | 0.0601 | 04/24/1217:10 | 04/24/1213:00 | M47D017014 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5DL | D146-05J | ND | 4.97 | 17.4 | 0.602 | 0.301 | 04/24/1217:12 | 04/24/1213:00 | M47D017015 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M | 1.08 | 0.995 | 17.4 | 0.120 | 0.0602 | 04/24/1217:14 | 04/24/1213:00 | M47D017016 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S | 1.07 | 0.995 | 17.4 | 0.120 | 0.0602 | 04/24/1217:16 | 04/24/1213:00 | M47D017017 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | ND | 1.01 | 32.4 | 0.149 | 0.0747 | 04/24/1217:19 | 04/24/1213:00 | M47D017018 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | ND | 0.990 | 12.5 | 0.113 | 0.0566 | 04/24/1217:21 | 04/24/1213:00 | M47D017019 | M47D017008 | HGD024S | 04/16/12 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | ND | 0.993 | 10.4 | 0.111 | 0.0554 | 04/24/1217:28 | 04/24/1213:00 | M47D017022 | M47D017020 | HGD024S | 04/16/12 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | ND | 0.998 | 16.3 | 0.119 | 0.0596 | 04/24/1217:30 | 04/24/1213:00 | M47D017023 | M47D017020 | HGD024S | 04/16/12 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | ND | 0.990 | 16.1 | 0.118 | 0.0590 | 04/24/1217:32 | 04/24/1213:00 | M47D017024 | M47D017020 | HGD024S | 04/16/12 | 04/16/12 |

Ehs

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : DO

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD009SB | ND | 1 | NA | 1.00 | 0.500 | 04/20/1211:52 | 04/19/1210:17 | AD27-06 | AD27-04 | ICD009S | NA | 04/19/12 |
| LCS1S | ICD009SL | 6.26 | 1 | NA | 1.00 | 0.500 | 04/20/1212:08 | 04/19/1210:17 | AD27-07 | AD27-04 | ICD009S | NA | 04/19/12 |
| LCD1S | ICD009SC | 6.24 | 1 | NA | 1.00 | 0.500 | 04/20/1212:24 | 04/19/1210:17 | AD27-08 | AD27-04 | ICD009S | NA | 04/19/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | 0.829J | 1 | 32.4 | 1.48 | 0.740 | 04/20/1213:12 | 04/19/1210:17 | AD27-11 | AD27-04 | ICD009S | 04/16/1210:07 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | ND | 1 | 12.5 | 1.14 | 0.571 | 04/20/1213:29 | 04/19/1210:17 | AD27-12 | AD27-04 | ICD009S | 04/16/1211:01 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | ND | 1 | 10.4 | 1.12 | 0.558 | 04/20/1213:45 | 04/19/1210:17 | AD27-13 | AD27-04 | ICD009S | 04/16/1214:40 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | ND | 1 | 16.3 | 1.19 | 0.597 | 04/20/1214:01 | 04/19/1210:17 | AD27-14 | AD27-04 | ICD009S | 04/16/1211:35 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | ND | 1 | 16.1 | 1.19 | 0.596 | 04/20/1214:17 | 04/19/1210:17 | AD27-15 | AD27-04 | ICD009S | 04/16/1215:23 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | ND | 1 | 17.4 | 1.21 | 0.605 | 04/20/1215:06 | 04/19/1210:17 | AD27-18 | AD27-16 | ICD009S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M | 8.15 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1215:22 | 04/19/1210:17 | AD27-19 | AD27-16 | ICD009S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S | 8.27 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1215:38 | 04/19/1210:17 | AD27-20 | AD27-16 | ICD009S | 04/16/1215:18 | 04/16/12 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD016SB | ND | 1 | NA | 20.0 | 10.0 | 04/23/1211:26 | 04/19/1210:30 | JD23002 | JD23001 | PCD016S | NA | 04/19/12 |
| LCS1S | PCD016SL | 252 | 1 | NA | 20.0 | 10.0 | 04/23/1212:08 | 04/19/1210:30 | JD23004 | JD23001 | PCD016S | NA | 04/19/12 |
| LCD1S | PCD016SC | 243 | 1 | NA | 20.0 | 10.0 | 04/23/1212:29 | 04/19/1210:30 | JD23005 | JD23001 | PCD016S | NA | 04/19/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | ND | 1 | 32.4 | 29.6 | 14.8 | 04/23/1213:36 | 04/19/1210:30 | JD23008 | JD23001 | PCD016S | 04/16/1210:07 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | ND | 1 | 12.5 | 22.9 | 11.4 | 04/23/1213:57 | 04/19/1210:30 | JD23009 | JD23001 | PCD016S | 04/16/1211:01 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | ND | 1 | 10.4 | 22.3 | 11.2 | 04/23/1214:18 | 04/19/1210:30 | JD23010 | JD23001 | PCD016S | 04/16/1214:40 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | ND | 1 | 16.3 | 23.9 | 11.9 | 04/23/1215:21 | 04/19/1210:30 | JD23013 | JD23012 | PCD016S | 04/16/1211:35 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | ND | 1 | 17.4 | 24.2 | 12.1 | 04/23/1215:42 | 04/19/1210:30 | JD23014 | JD23012 | PCD016S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M | 300 | 1 | 17.4 | 24.2 | 12.1 | 04/23/1216:03 | 04/19/1210:30 | JD23015 | JD23012 | PCD016S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S | 301 | 1 | 17.4 | 24.2 | 12.1 | 04/23/1216:24 | 04/19/1210:30 | JD23016 | JD23012 | PCD016S | 04/16/1215:18 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | ND | 1 | 16.1 | 23.8 | 11.9 | 04/23/1216:46 | 04/19/1210:30 | JD23017 | JD23012 | PCD016S | 04/16/1215:23 | 04/16/12 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD010SB | ND | 1 | NA | 1.00 | 0.500 | 04/20/1217:40 | 04/18/1215:06 | ID21013 | ID21011 | HCD010S | NA | 04/18/12 |
| MBLK1S | HCD010SQ | ND | 1 | NA | 1.00 | 0.500 | 04/20/1217:50 | 04/18/1215:06 | ID21014 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS1S | CSD010SL | 9.63 | 1 | NA | 1.00 | 0.500 | 04/20/1218:00 | 04/18/1215:06 | ID21015 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS1S | CSD010SX | 11.5 | 1 | NA | 1.00 | 0.500 | 04/20/1218:11 | 04/18/1215:06 | ID21016 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS2S | CID010SL | 467 | 25 | NA | 25.0 | 12.5 | 04/20/1218:21 | 04/18/1215:06 | ID21017 | ID21011 | HCD010S | NA | 04/18/12 |
| LCS2S | CID010SX | 465 | 25 | NA | 25.0 | 12.5 | 04/20/1218:32 | 04/18/1215:06 | ID21018 | ID21011 | HCD010S | NA | 04/18/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M | 11.0 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1218:42 | 04/18/1215:06 | ID21019 | ID21011 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05M1 | 12.3 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1218:52 | 04/18/1215:06 | ID21020 | ID21011 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S | 10.9 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1219:03 | 04/18/1215:06 | ID21021 | ID21011 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05S1 | 11.3 | 1 | 17.4 | 1.21 | 0.605 | 04/20/1219:13 | 04/18/1215:06 | ID21022 | ID21011 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | ND | 1 | 17.4 | 1.21 | 0.605 | 04/20/1220:36 | 04/18/1215:06 | ID21029 | ID21023 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05R | ND | 1 | 17.4 | 1.21 | 0.605 | 04/20/1220:47 | 04/18/1215:06 | ID21030 | ID21023 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | ND | 1 | 32.4 | 1.48 | 0.740 | 04/20/1222:10 | 04/18/1215:06 | ID21037 | ID21035 | HCD010S | 04/16/1210:07 | 04/16/12 |
| SL-013-NBZ-SS-0.0-0.5 | D146-01R | ND | 1 | 32.4 | 1.48 | 0.740 | 04/20/1222:21 | 04/18/1215:06 | ID21038 | ID21035 | HCD010S | 04/16/1210:07 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | ND | 1 | 12.5 | 1.14 | 0.571 | 04/20/1222:31 | 04/18/1215:06 | ID21039 | ID21035 | HCD010S | 04/16/1211:01 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02R | ND | 1 | 12.5 | 1.14 | 0.571 | 04/20/1222:41 | 04/18/1215:06 | ID21040 | ID21035 | HCD010S | 04/16/1211:01 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | ND | 1 | 10.4 | 1.12 | 0.558 | 04/20/1222:52 | 04/18/1215:06 | ID21041 | ID21035 | HCD010S | 04/16/1214:40 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03R | ND | 1 | 10.4 | 1.12 | 0.558 | 04/20/1223:02 | 04/18/1215:06 | ID21042 | ID21035 | HCD010S | 04/16/1214:40 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | ND | 1 | 16.3 | 1.19 | 0.597 | 04/20/1223:13 | 04/18/1215:06 | ID21043 | ID21035 | HCD010S | 04/16/1211:35 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04R | ND | 1 | 16.3 | 1.19 | 0.597 | 04/20/1223:23 | 04/18/1215:06 | ID21044 | ID21035 | HCD010S | 04/16/1211:35 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | ND | 1 | 16.1 | 1.19 | 0.596 | 04/20/1223:33 | 04/18/1215:06 | ID21045 | ID21035 | HCD010S | 04/16/1215:23 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06R | ND | 1 | 16.1 | 1.19 | 0.596 | 04/20/1223:44 | 04/18/1215:06 | ID21046 | ID21035 | HCD010S | 04/16/1215:23 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05G | 107 | 5 | 17.4 | 6.05 | 3.03 | 04/23/1221:09 | 04/18/1215:06 | ID23009 | ID23001 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MS | D146-05G1 | 105 | 5 | 17.4 | 6.05 | 3.03 | 04/23/1221:19 | 04/18/1215:06 | ID23010 | ID23001 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05H | 107 | 5 | 17.4 | 6.05 | 3.03 | 04/23/1221:29 | 04/18/1215:06 | ID23011 | ID23001 | HCD010S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5MSD | D146-05H1 | 109 | 5 | 17.4 | 6.05 | 3.03 | 04/23/1221:40 | 04/18/1215:06 | ID23012 | ID23001 | HCD010S | 04/16/1215:18 | 04/16/12 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D146

Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-013-NBZ-SS-0.0-0.5 | D146-01 | 6.92 | 1 | NA | NA | NA | 04/17/1213:02 | 04/17/1213:02 | 12PHD015S01 | PHD015S | PHD015S | 04/16/1210:07 | 04/16/12 |
| SL-159-NBZ-SS-0.0-0.5 | D146-02 | 6.12 | 1 | NA | NA | NA | 04/17/1213:04 | 04/17/1213:02 | 12PHD015S02 | PHD015S | PHD015S | 04/16/1211:01 | 04/16/12 |
| SL-160-NBZ-SS-0.0-0.5 | D146-03 | 6.36 | 1 | NA | NA | NA | 04/17/1213:07 | 04/17/1213:02 | 12PHD015S03 | PHD015S | PHD015S | 04/16/1214:40 | 04/16/12 |
| SL-164-NBZ-SS-0.0-0.5 | D146-04 | 6.24 | 1 | NA | NA | NA | 04/17/1213:14 | 04/17/1213:02 | 12PHD015S04 | PHD015S | PHD015S | 04/16/1211:35 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5 | D146-05 | 6.82 | 1 | NA | NA | NA | 04/17/1213:16 | 04/17/1213:02 | 12PHD015S05 | PHD015S | PHD015S | 04/16/1215:18 | 04/16/12 |
| SL-173-NBZ-SS-0.0-0.5DUP | D146-05D | 6.83 | 1 | NA | NA | NA | 04/17/1213:17 | 04/17/1213:02 | 12PHD015S06 | PHD015S | PHD015S | 04/16/1215:18 | 04/16/12 |
| DUP-08-NBZ-QC-041612 | D146-06 | 6.55 | 1 | NA | NA | NA | 04/17/1213:19 | 04/17/1213:02 | 12PHD015S07 | PHD015S | PHD015S | 04/16/1215:23 | 04/16/12 |

**NBZ – Data Package Amendment**
**SDG 12D166, SDG DE311, SDG DX170**
**6-17-13**

During the database check, an inconsistency in sample identification was discovered that needed to be corrected. They are listed below:

- Methods (NDMA, Formaldehyde, Terphenyls, and Dioxins) from sample SL-083-NBZ-SB-0.0-0.5 were moved to SL-083-NBZ-SS-0.0-0.5.
- Sample SL-083-NBZ-SB-0.0-0.5 was removed.

All changes have been documented and verified by the field personnel and data group.

Pam Hartman
Catherine Love
Cherie Zakowski

eurofins | Lancaster Laboratories

# Analysis Report

CZ 6/7/13



Sample Description: SL-083-NBZ-~~SB~~SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-NBZ-SB

LLI Sample # SW 6622564
LLI Group # 1303405
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected 04/18/2012 14 06

Submitted 04/19/2012 09 10
Reported 04/30/2012 15 25

CDM Federal Programs Corp
3201 Jermantown Road
Suite 400
Fairfax VA 22030

E1106 SDG# DE311-06*

| CAT No | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **GC/MS Semivolatiles** | **EPA 1625C** | | ng/kg | | ng/kg | ng/kg | |
| 11622 | N-Nitrosodimethylamine | 62-75-9 | 19 2 | U | 19 2 | 38 4 | 1 |
| **HPLC Organics** | **SW-846 8315A** | | ug/kg | | ug/kg | ug/kg | |
| 04173 | 20a Formaldehyde 8315A | 50-00-0 | 690 | U | 690 | 1,700 | 1 |
| **GC Petroleum Hydrocarbons** | **SW-846 8015B** | | mg/kg | | mg/kg | mg/kg | |
| 10318 | m-Terphenyl | 92-06-8 | 1 7 | U | 1 7 | 4 0 | 1 |
| 10318 | o-Terphenyl | 84-15-1 | 1 7 | U | 1 7 | 4 0 | 1 |
| 10318 | p-Terphenyl | 92-94-4 | 1 7 | U | 1 7 | 4 0 | 1 |
| **Wet Chemistry** | **EPA 160.3 modified** | | % | | % | % | |
| 11624 | Moisture Content by 160 3 | n a | 13 2 | | 0 50 | 0 50 | 1 |

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius The moisture result reported above is on an as-received basis

## General Sample Comments

State of California Lab Certification No 2501

All QC is compliant unless otherwise noted Please refer to the Quality Control Summary for overall QC performance data and associated samples

## Laboratory Sample Analysis Record

| CAT No | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11622 | 21a NDMA by 1625C | EPA 1625C | 1 | 12116SLA026 | 04/27/2012 16 32 | Matthew S Woods | 1 |
| 11630 | NDMA Soil Microwave | SW-846 3546 | 1 | 12116SLA026 | 04/25/2012 14 15 | David S Schrum | 1 |
| 04173 | 20a Formaldehyde 8315A | SW-846 8315A | 1 | 121130004A | 04/25/2012 00 49 | James H Place | 1 |
| 05876 | Formaldehyde Solid Extraction | SW-846 8315A | 1 | 121130004A | 04/23/2012 13 15 | Kelli M Barto | 1 |
| 10318 | 22a Terphenyls by 8015B | SW-846 8015B | 1 | 121160015A | 04/27/2012 12 37 | Robert Brown | 1 |
| 10303 | Terphenyls soil prep | SW-846 3550B | 1 | 121160015A | 04/26/2012 11 55 | Denise L Trimby | 1 |
| 11624 | Moisture Content by 160 3 | EPA 160 3 modified | 1 | 12115162401A | 04/24/2012 12 21 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc
2425 New Holland Pike
PO Box 12425
Lancaster PA 17605-2425
717-656-2300 Fax 717-656-2681

eurofins | Lancaster Laboratories

# Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

SS C2 6/17/13



**Sample Description:** SL-083-NBZ-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-NBZ-SB

**LLI Sample #** SW 6622571
**LLI Group #** 1303406
**Account #** 13013

**Project Name: SSFL Area IV Collocated Soil Sampling**

Collected: 04/18/2012 14:06

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7014 SDG#: DX170-11

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Wet Chemistry** | **EPA 160.3 modified** | | % | % | % | |
| 11625 | Moisture Content by 160.3 | n.a. | 13.2 | 0.50 | 0.50 | 1 |

*=This limit was used in the evaluation of the final result

**Sample Description:** SL-083-NBZ-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-NBZ-SB

LLI Sample # SW 6622571
LLI Group # 1303406
Account # 13013

**Project Name:** SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2012 14:06

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7014 SDG#: DX170-11

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry EDL* | Dry MRL | Dilution Factor |
|---|---|---|---|---|---|---|---|
| **Dioxins/Furans** | **EPA 1613B** | | ng/kg | | ng/kg | ng/kg | |
| 11031 | 2378-TCDD | 1746-01-6 | 0.0337 | J | 0.0276 | 1.13 | 1 |
| 11031 | 12378-PeCDD | 40321-76-4 | 0.0388 | J | 0.0385 | 5.64 | 1 |
| 11031 | 123478-HxCDD | 39227-28-6 | 0.0986 | JB | 0.0396 | 5.64 | 1 |
| 11031 | 123678-HxCDD | 57653-85-7 | 0.313 | JB | 0.0406 | 5.64 | 1 |
| 11031 | 123789-HxCDD | 19408-74-3 | 0.243 | JB | 0.0396 | 5.64 | 1 |
| 11031 | 1234678-HpCDD | 35822-46-9 | 6.08 | B | 0.0445 | 5.64 | 1 |
| 11031 | OCDD | 3268-87-9 | 75.3 | B | 0.0327 | 11.3 | 1 |
| 11031 | 2378-TCDF | 51207-31-9 | 0.417 | JB | 0.273 | 1.13 | 1 |
| 11031 | 12378-PeCDF | 57117-41-6 | 9.82 | B | 0.113 | 5.64 | 1 |
| 11031 | 23478-PeCDF | 57117-31-4 | 0.416 | JB | 0.118 | 5.64 | 1 |
| 11031 | 123478-HxCDF | 70648-26-9 | 2.50 | JB | 0.0661 | 5.64 | 1 |
| 11031 | 123678-HxCDF | 57117-44-9 | 0.146 | J | 0.0603 | 5.64 | 1 |
| 11031 | 123789-HxCDF | 72918-21-9 | 0.188 | JBQ | 0.0737 | 5.64 | 1 |
| 11031 | 234678-HxCDF | 60851-34-5 | 0.196 | JB | 0.0609 | 5.64 | 1 |
| 11031 | 1234678-HpCDF | 67562-39-4 | 0.811 | JB | 0.0228 | 5.64 | 1 |
| 11031 | 1234789-HpCDF | 55673-89-7 | 0.156 | JB | 0.0355 | 5.64 | 1 |
| 11031 | OCDF | 39001-02-0 | 1.27 | JB | 0.0291 | 11.3 | 1 |

| Labeled Compounds | %Rec | Windows |
|---|---|---|
| 13C12-2378-TCDD | 74 | 25 - 164 |
| 13C12-12378-PeCDD | 75 | 25 - 181 |
| 13C12-123478-HxCDD | 82 | 32 - 141 |
| 13C12-123678-HxCDD | 81 | 28 - 130 |
| 13C12-123789-HxCDD | 80 | 28 - 130 |
| 13C12-1234678-HpCDD | 80 | 23 - 140 |
| 13C12-OCDD | 82 | 17 - 157 |
| 13C12-2378-TCDF | 65 | 24 - 169 |
| 13C12-12378-PeCDF | 76 | 24 - 185 |
| 13C12-23478-PeCDF | 71 | 21 - 178 |
| 13C12-123478-HxCDF | 73 | 26 - 152 |
| 13C12-123678-HxCDF | 78 | 26 - 123 |
| 13C12-234678-HxCDF | 76 | 28 - 136 |
| 13C12-123789-HxCDF | 66 | 29 - 147 |
| 13C12-1234678-HpCDF | 97 | 28 - 143 |
| 13C12-1234789-HpCDF | 66 | 26 - 138 |
| 13C12-OCDF | 61 | 17 - 157 |

***Dioxins/Furans Data Qualifiers:***

*B Detected in Method Blank*
*U Undetected*
*J Estimated concentration between Estimated Detection Limit and Minimum Level*
*E Exceeds calibration range*
*C Confirmed quantitation on secondary GC column*
*Q EMPC - Estimated Maximum Possible Concentration*
*F Interference is present*

*=This limit was used in the evaluation of the final result

C2 6/19/13

Sample Description: SL-083-NBZ-~~SB~~SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-NBZ-SB

LLI Sample # SW 6622571
LLI Group # 1303406
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 04/18/2012 14:06

Submitted: 04/19/2012 09:10
Reported: 05/04/2012 13:28

CDM Federal Programs Corp.
3201 Jermantown Road
Suite 400
Fairfax VA 22030

X7014 SDG#: DX170-11

## General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11031 | 10a Dioxin/Furan by EPA 1613B | EPA 1613B | 1 | 12120001 | 05/03/2012 06:25 | Joseph D Anderson | 1 |
| 11030 | Dioxins/Furans in Solids - Sox | EPA 1613B | 1 | 12120001 | 04/29/2012 13:05 | Ginelle L Haines | 1 |
| 11625 | Moisture Content by 160.3 | EPA 160.3 modified | 1 | 12115162401A | 04/24/2012 12:21 | William C Schwebel | 1 |

*=This limit was used in the evaluation of the final result

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/1211:53 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 20:20 |
| Lab Samp ID: D166-07 | Dilution Factor: 1 |
| Lab File ID: REL076 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 12.6 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 96 |
| 1,2-DICHLOROBENZENE | ND | 190 | 96 |
| 1,3-DICHLOROBENZENE | ND | 190 | 96 |
| 1,4-DICHLOROBENZENE | ND | 190 | 96 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 96 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 96 |
| 2,6-DINITROTOLUENE | ND | 190 | 96 |
| 2-CHLORONAPHTHALENE | ND | 190 | 96 |
| 2-CHLOROPHENOL | ND | 190 | 96 |
| 2-METHYLNAPHTHALENE | ND | 190 | 96 |
| 2-METHYLPHENOL | ND | 190 | 96 |
| 2-NITROANILINE | ND | 190 | 96 |
| 2-NITROPHENOL | ND | 190 | 96 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 96 |
| 3-NITROANILINE | ND | 190 | 96 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 96 |
| 4-CHLOROANILINE | ND | 190 | 96 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-METHYLPHENOL (1) | ND | 190 | 96 |
| 4-NITROANILINE | ND | 190 | 96 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 96 |
| ACENAPHTHYLENE | ND | 190 | 96 |
| ANTHRACENE | ND | 190 | 96 |
| BENZO(A)ANTHRACENE | ND | 190 | 96 |
| BENZO(A)PYRENE | ND | 190 | 96 |
| BENZO(B)FLUORANTHENE | ND | 190 | 96 |
| BENZO(K)FLUORANTHENE | ND | 190 | 96 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 96 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 96 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 96 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 96 |
| CHRYSENE | ND | 190 | 96 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 96 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 96 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 96 |
| DIBENZOFURAN | ND | 190 | 96 |
| DIETHYLPHTHALATE | ND | 190 | 96 |
| DIMETHYLPHTHALATE | ND | 190 | 96 |
| FLUORANTHENE | ND | 190 | 96 |
| FLUORENE | ND | 190 | 96 |
| HEXACHLOROBENZENE | ND | 190 | 96 |
| HEXACHLOROBUTADIENE | ND | 190 | 96 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 96 |
| HEXACHLOROETHANE | ND | 190 | 96 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 96 |
| ISOPHORONE | ND | 190 | 96 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 96 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 96 |
| NAPHTHALENE | ND | 190 | 96 |
| NITROBENZENE | ND | 190 | 96 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 96 |
| PHENOL | ND | 190 | 96 |
| PYRENE | ND | 190 | 96 |
| BENZYL ALCOHOL | ND | 190 | 96 |
| 1-METHYLNAPHTHALENE | ND | 190 | 96 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 96 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 96 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 950 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 96 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 96 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 780 | 1144 | 68.2 | 35-130 |
| 2-FLUOROBIPHENYL | 240 | 381.4 | 63.0 | 45-130 |
| 2-FLUOROPHENOL | 663 | 1144 | 58.0 | 25-130 |
| NITROBENZENE-D5 | 209 | 381.4 | 54.7 | 40-130 |
| PHENOL-D5 | 664 | 1144 | 58.1 | 25-120 |
| TERPHENYL-D14 | 356 | 381.4 | 93.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 20:20 |
| Lab Samp ID: D166-07 | Dilution Factor: 1 |
| Lab File ID: REL076 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 12.6 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.97 |
| ACENAPHTHYLENE | ND | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)PYRENE | ND | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.97 |
| CHRYSENE | ND | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | ND | 1.9 | 0.97 |
| FLUORENE | ND | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.97 |
| NAPHTHALENE | ND | 1.9 | 0.97 |
| PHENANTHRENE | ND | 1.9 | 0.97 |
| PYRENE | ND | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 19 | 9.6 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.6 |
| DIETHYLPHTHALATE | ND | 19 | 9.6 |
| DIMETHYLPHTHALATE | ND | 19 | 9.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 202 | 381.4 | 53.1 | 40-130 |
| 2-FLUOROBIPHENYL | 210 | 381.4 | 55.2 | 45-130 |
| TERPHENYL-D14 | 327 | 381.4 | 85.8 | 45-135 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/24/12 14:55 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 10:11 |
| Lab Samp ID: D166-07 | Dilution Factor: 1 |
| Lab File ID: LD24067A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : 12.6 |
| Calib. Ref.: LD24062A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.57 |
| EFH(C12-C14) | ND | 1.1 | 0.57 |
| EFH(C15-C20) | ND | 1.1 | 0.57 |
| EFH(C21-C30) | 4.5 | 1.1 | 0.57 |
| EFH(C30-C40) | 12 | 1.1 | 0.57 |
| TOTAL EFH(C8-C40) | 17 | 1.1 | 0.57 |

| SURROGATE PARAMETERS | RESULTS | SPK AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.77 | 11.44 | 59.2 | 50-150 |
| HEXACOSANE | 2.81 | 2.860 | 98.2 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 17:41 |
| Lab Samp ID: D166-07 | Dilution Factor: 1 |
| Lab File ID: MD27023A | Matrix : SOIL |
| Ext Btch ID: CPD054S | % Moisture : 12.6 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.29 | 0.19 | 0.097 \| 0.097 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.14J | 0.19 | 0.097 \| 0.097 |
| BETA-BHC | (ND) \| 0.19 | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR | (ND) \| 0.23 | 0.19 | 0.097 \| 0.097 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| ALDRIN | (ND) \| 0.30 | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR EPOXIDE | (ND) \| 0.31 | 0.19 | 0.097 \| 0.097 |
| ENDOSULFAN I | (ND) \| 0.18J | 0.19 | 0.097 \| 0.097 |
| 4,4'-DDE | 0.64 \| (ND) | 0.39 | 0.19 \| 0.19 |
| DIELDRIN | 1.6 \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDRIN | 0.60 \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.31J \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDT | (ND) \| 5.1 | 0.39 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | 1.6 \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| 0.40 | 0.39 | 0.19 \| 0.19 |
| ENDRIN KETONE | 0.40 \| (ND) | 0.39 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| ND | 1.9 | 0.97 \| 0.97 |
| MIREX | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.511 \| (6.130) | 6.102 | 73.9 \| (100) | 50-130 |
| DECACHLOROBIPHENYL | (5.656) \| 5.271 | 6.102 | (92.7) \| 86.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| Batch No. | : 12D166 | Date Extracted | : 04/26/12 17:43 |
| Sample ID | : SL-083-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/14/12 20:23 |
| Lab Samp ID | : D166-07T | Dilution Factor | : 2 |
| Lab File ID | : KE14014A | Matrix | : SOIL |
| Ext Btch ID | : CPD063S | % Moisture | : 12.6 |
| Calib. Ref. | : KE14003A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1221 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1232 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1242 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1248 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1254 | 180 \| (100) | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1260 | (92) \| 98 | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1262 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 1268 | (ND) \| ND | 3.9 | 1.9 \| 1.9 |
| AROCLOR 5432 | (ND) \| ND | 7.6 | 3.9 \| 3.9 |
| AROCLOR 5442 | (ND) \| ND | 7.6 | 3.9 \| 3.9 |
| AROCLOR 5460 | (ND) \| ND | 7.6 | 3.9 \| 3.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.995) \| 4.356 | 6.100 | (98.3) \| 71.4 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.355) \| 3.892 | 6.100 | (87.8) \| 63.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 8151A
HERBICIDES

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| Batch No. | : 12D166 | Date Extracted | : 04/23/12 17:23 |
| Sample ID | : SL-083-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/25/12 18:05 |
| Lab Samp ID | : D166-07 | Dilution Factor | : 1 |
| Lab File ID | : WD25024A | Matrix | : SOIL |
| Ext Btch ID | : HED012S | % Moisture | : 12.6 |
| Calib. Ref. | : WD25020A | Instrument ID | : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 4.1 | 2.1 \| 2.1 |
| 2,4-DB | (ND) \| ND | 1.9 | 0.97 \| 0.97 |
| 2,4,5-T | (ND) \| 1.5 | 0.19 | 0.097 \| 0.097 |
| 2,4,5-TP(SILVEX) | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| DALAPON | (ND) \| ND | 10 | 5.1 \| 5.1 |
| DICAMBA | (ND) \| ND | 1.4 | 0.69 \| 0.69 |
| DICHLOROPROP | (ND) \| ND | 2.7 | 1.4 \| 1.4 |
| DINOSEB | (ND) \| ND | 1.9 | 0.97 \| 0.97 |
| MCPA | (ND) \| ND | 290 | 140 \| 140 |
| MCPP | (ND) \| ND | 290 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (250.4) \| 209.5 | 171.6 | (146) \| 122 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 00:43 |
| Lab Samp ID: D166-07 | Dilution Factor: .99 |
| Lab File ID: XD25021A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25012A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1890 | 1980 | 95.3 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 04/18/12 |
| Batch No. | : 12D166 | Date Extracted: | 04/24/12 18:47 |
| Sample ID: | SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: | 04/25/12 20:31 |
| Lab Samp ID: | D166-07 | Dilution Factor: | .99 |
| Lab File ID: | PD25026A | Matrix : | SOIL |
| Ext Btch ID: | EXD018S | % Moisture : | NA |
| Calib. Ref.: | PD25017A | Instrument ID : | T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2580 | 1980 | 130 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected: | 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received: | 04/18/12 |
| SDG NO. | : 12D166 | Date Extracted: | 04/25/12 10:28 |
| Sample ID: | SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: | 04/30/12 17:41 # 05/01/12 18:52 |
| Lab Samp ID: | D166-07 #D166-07W | Dilution Factor: | 1.00 |
| Lab File ID: | 98D21064 #98E01048 | Matrix : | SOIL |
| Ext Btch ID: | IMD036S | % Moisture : | 12.6 |
| Calib. Ref.: | 98D21062 #98E01041 | Instrument ID : | T-I98 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 11000 | 27.5 | 13.7 |
| | Antimony | 0.120J | 0.229 | 0.114 |
| | Arsenic | 16.4 | 0.458 | 0.229 |
| | Barium | 112 | 0.458 | 0.229 |
| | Beryllium | 0.505 | 0.114 | 0.0572 |
| | Boron | ND | 5.72 | 2.86 |
| | Cadmium | 0.296 | 0.114 | 0.0572 |
| | Calcium | 2540 | 22.9 | 11.4 |
| | Chromium | 15.2 | 0.458 | 0.229 |
| | Cobalt | 5.00 | 0.114 | 0.0572 |
| | Copper | 8.03 | 0.458 | 0.229 |
| | Iron | 18300 | 22.9 | 11.4 |
| | Lead | 6.24 | 0.229 | 0.114 |
| | Magnesium | 4190 | 11.4 | 5.72 |
| | Manganese | 279 | 0.572 | 0.286 |
| | Molybdenum | 0.453 | 0.114 | 0.0572 |
| | Nickel | 10.4 | 0.458 | 0.229 |
| | Potassium | 3930 | 68.6 | 34.3 |
| | Selenium | ND | 0.458 | 0.229 |
| | Silver | 0.0876J | 0.114 | 0.0572 |
| | Sodium | ND | 114 | 57.2 |
| # | Strontium | 15.2 | 0.572 | 0.286 |
| | Thallium | 0.242 | 0.114 | 0.0572 |
| | Tin | ND | 11.4 | 5.72 |
| | Titanium | 883 | 1.14 | 0.572 |
| | Vanadium | 30.7 | 0.114 | 0.0572 |
| | Zinc | 63.2 | 3.43 | 1.72 |
| | Lithium | 26.2 | 2.29 | 1.14 |
| | Phosphorus | 450 | 13.7 | 6.86 |
| | Zirconium | ND | 5.72 | 2.86 |

# Members of the Associated File

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD025SB | ND | 1 | NA | 0.100 | 0.0500 | 04/24/1217:56 | 04/24/1213:30 | M47D017035 | M47D017032 | HGD025S | NA | 04/24/12 |
| LCS1S | HGD025SL | 0.863 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:58 | 04/24/1213:30 | M47D017036 | M47D017032 | HGD025S | NA | 04/24/12 |
| LCD1S | HGD025SC | 0.853 | 1 | NA | 0.100 | 0.0500 | 04/24/1218:00 | 04/24/1213:30 | M47D017037 | M47D017032 | HGD025S | NA | 04/24/12 |
| SL-008-NBZ-SB-4.0-5.0AS | D166-02A | 0.911 | 0.993 | 5.3 | 0.105 | 0.0524 | 04/24/1218:03 | 04/24/1213:30 | M47D017038 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 0.993 | 5.3 | 0.105 | 0.0524 | 04/24/1218:05 | 04/24/1213:30 | M47D017039 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DL | D166-02J | ND | 4.97 | 5.3 | 0.525 | 0.262 | 04/24/1218:07 | 04/24/1213:30 | M47D017040 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M | 0.920 | 0.992 | 5.3 | 0.105 | 0.0524 | 04/24/1218:09 | 04/24/1213:30 | M47D017041 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MSD | D166-02S | 0.921 | 0.995 | 5.3 | 0.105 | 0.0525 | 04/24/1218:11 | 04/24/1213:30 | M47D017042 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 0.998 | 16.0 | 0.119 | 0.0594 | 04/24/1218:13 | 04/24/1213:30 | M47D017043 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 0.233 | 0.985 | 12.8 | 0.113 | 0.0565 | 04/24/1218:20 | 04/24/1213:30 | M47D017046 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1.01 | 12.1 | 0.115 | 0.0575 | 04/24/1218:22 | 04/24/1213:30 | M47D017047 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 0.0992J | 0.995 | 12.6 | 0.114 | 0.0569 | 04/24/1218:24 | 04/24/1213:30 | M47D017048 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1.00 | 13.0 | 0.115 | 0.0575 | 04/24/1218:26 | 04/24/1213:30 | M47D017049 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 0.995 | 10.8 | 0.112 | 0.0558 | 04/24/1218:28 | 04/24/1213:30 | M47D017050 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 0.997 | 12.7 | 0.114 | 0.0571 | 04/24/1218:30 | 04/24/1213:30 | M47D017051 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD010SB | ND | 1 | NA | 1.50 | 0.750 | 04/24/1220:12 | 04/23/1211:11 | AD31-39 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCS1S | ICD010SL | 13.6 | 1 | NA | 1.50 | 0.750 | 04/24/1220:28 | 04/23/1211:11 | AD31-40 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCD1S | ICD010SC | 13.5 | 1 | NA | 1.50 | 0.750 | 04/24/1220:44 | 04/23/1211:11 | AD31-41 | AD31-37 | ICD010S | NA | 04/23/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | 1.79 | 1 | 5.3 | 1.58 | 0.792 | 04/24/1221:00 | 04/23/1211:11 | AD31-42 | AD31-37 | ICD010S | 04/18/1209:55 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 1.85 | 1 | 12.8 | 1.72 | 0.860 | 04/24/1221:33 | 04/23/1211:11 | AD31-44 | AD31-37 | ICD010S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | 1.09J | 1 | 12.1 | 1.71 | 0.853 | 04/24/1221:49 | 04/23/1211:11 | AD31-45 | AD31-37 | ICD010S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 4.04 | 1 | 12.6 | 1.72 | 0.858 | 04/24/1222:05 | 04/23/1211:11 | AD31-46 | AD31-37 | ICD010S | 04/18/1214:06 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | 71.8 | 5 | 16.0 | 8.93 | 4.46 | 04/25/1209:56 | 04/23/1211:11 | AD31-90 | AD31-83 | ICD010S | 04/18/1210:00 | 04/18/12 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD010SB | ND | 1 | NA | 1.00 | 0.500 | 04/24/1220:12 | 04/23/1211:11 | AD31-39 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCS1S | ICD010SL | 6.34 | 1 | NA | 1.00 | 0.500 | 04/24/1220:28 | 04/23/1211:11 | AD31-40 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCD1S | ICD010SC | 6.31 | 1 | NA | 1.00 | 0.500 | 04/24/1220:44 | 04/23/1211:11 | AD31-41 | AD31-37 | ICD010S | NA | 04/23/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 1.06 | 0.528 | 04/24/1221:00 | 04/23/1211:11 | AD31-42 | AD31-37 | ICD010S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 1 | 16.0 | 1.19 | 0.595 | 04/24/1221:16 | 04/23/1211:11 | AD31-43 | AD31-37 | ICD010S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 0.831J | 1 | 12.8 | 1.15 | 0.573 | 04/24/1221:33 | 04/23/1211:11 | AD31-44 | AD31-37 | ICD010S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | 1.26 | 1 | 12.1 | 1.14 | 0.569 | 04/24/1221:49 | 04/23/1211:11 | AD31-45 | AD31-37 | ICD010S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 0.692J | 1 | 12.6 | 1.14 | 0.572 | 04/24/1222:05 | 04/23/1211:11 | AD31-46 | AD31-37 | ICD010S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 1.15 | 0.575 | 04/24/1222:21 | 04/23/1211:11 | AD31-47 | AD31-37 | ICD010S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 1.12 | 0.561 | 04/24/1223:26 | 04/23/1211:11 | AD31-51 | AD31-49 | ICD010S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 1.15 | 0.573 | 04/24/1223:42 | 04/23/1211:11 | AD31-52 | AD31-49 | ICD010S | 04/18/1211:20 | 04/18/12 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD018SB | ND | 1 | NA | 20.0 | 10.0 | 04/23/1221:48 | 04/23/1211:30 | JD23031 | JD23030 | PCD018S | NA | 04/23/12 |
| LCS1S | PCD018SL | 241 | 1 | NA | 20.0 | 10.0 | 04/23/1222:30 | 04/23/1211:30 | JD23033 | JD23030 | PCD018S | NA | 04/23/12 |
| LCD1S | PCD018SC | 243 | 1 | NA | 20.0 | 10.0 | 04/23/1222:51 | 04/23/1211:30 | JD23034 | JD23030 | PCD018S | NA | 04/23/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 21.1 | 10.6 | 04/23/1223:12 | 04/23/1211:30 | JD23035 | JD23030 | PCD018S | 04/18/1209:55 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | ND | 1 | 12.8 | 22.9 | 11.5 | 04/23/1223:54 | 04/23/1211:30 | JD23037 | JD23030 | PCD018S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1 | 12.1 | 22.8 | 11.4 | 04/24/1200:15 | 04/23/1211:30 | JD23038 | JD23030 | PCD018S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | ND | 1 | 12.6 | 22.9 | 11.4 | 04/24/1200:36 | 04/23/1211:30 | JD23039 | JD23030 | PCD018S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 23.0 | 11.5 | 04/24/1201:39 | 04/23/1211:30 | JD23042 | JD23041 | PCD018S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 22.4 | 11.2 | 04/24/1202:00 | 04/23/1211:30 | JD23043 | JD23041 | PCD018S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 22.9 | 11.5 | 04/24/1202:21 | 04/23/1211:30 | JD23044 | JD23041 | PCD018S | 04/18/1211:20 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 5 | 16.0 | 119 | 59.5 | 04/24/1210:44 | 04/23/1211:30 | JD23064 | JD23062 | PCD018S | 04/18/1210:00 | 04/18/12 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD012SB | ND | 1 | NA | 1.00 | 0.500 | 04/25/1215:02 | 04/24/1216:57 | ID25003 | ID25001 | HCD012S | NA | 04/24/12 |
| MBLK1S | HCD012SQ | ND | 1 | NA | 1.00 | 0.500 | 04/25/1215:13 | 04/24/1216:57 | ID25004 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS1S | CID012SL | 337 | 20 | NA | 20.0 | 10.0 | 04/25/1215:44 | 04/24/1216:57 | ID25007 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS1S | CID012SX | 341 | 20 | NA | 20.0 | 10.0 | 04/25/1215:55 | 04/24/1216:57 | ID25008 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS2S | CSD012SL | 8.77 | 1 | NA | 1.00 | 0.500 | 04/25/1219:18 | 04/24/1216:57 | ID25023 | ID25013 | HCD012S | NA | 04/24/12 |
| LCS2S | CSD012SX | 8.57 | 1 | NA | 1.00 | 0.500 | 04/25/1219:28 | 04/24/1216:57 | ID25024 | ID25013 | HCD012S | NA | 04/24/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M | 9.82 ✓ | 1 | 5.3 | 1.06 | 0.528 | 04/25/1216:33 | 04/24/1216:57 | ID25009 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M1 | 9.75 ✓ | 1 | 5.3 | 1.06 | 0.528 | 04/25/1216:44 | 04/24/1216:57 | ID25010 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02G | 470 | 20 | 5.3 | 21.1 | 10.6 | 04/25/1216:54 | 04/24/1216:57 | ID25011 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02G1 | 495 | 20 | 5.3 | 21.1 | 10.6 | 04/25/1217:05 | 04/24/1216:57 | ID25012 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1217:54 | 04/24/1216:57 | ID25015 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02R | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:04 | 04/24/1216:57 | ID25016 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DUP | D166-02D | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:14 | 04/24/1216:57 | ID25017 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DUP | D166-02Z | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:25 | 04/24/1216:57 | ID25018 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 1 | 16.0 | 1.19 | 0.595 | 04/25/1220:30 | 04/24/1216:57 | ID25029 | ID25025 | HCD012S | 04/18/1210:00 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03R | ND | 1 | 16.0 | 1.19 | 0.595 | 04/25/1220:41 | 04/24/1216:57 | ID25030 | ID25025 | HCD012S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | ND | 1 | 12.8 | 1.15 | 0.573 | 04/25/1220:51 | 04/24/1216:57 | ID25031 | ID25025 | HCD012S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04R | ND | 1 | 12.8 | 1.15 | 0.573 | 04/25/1221:02 | 04/24/1216:57 | ID25032 | ID25025 | HCD012S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1 | 12.1 | 1.14 | 0.569 | 04/25/1221:12 | 04/24/1216:57 | ID25033 | ID25025 | HCD012S | 04/18/1210:57 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06R | ND | 1 | 12.1 | 1.14 | 0.569 | 04/25/1221:22 | 04/24/1216:57 | ID25034 | ID25025 | HCD012S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | ND | 1 | 12.6 | 1.14 | 0.572 | 04/25/1221:33 | 04/24/1216:57 | ID25035 | ID25025 | HCD012S | 04/18/1214:06 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07R | ND | 1 | 12.6 | 1.14 | 0.572 | 04/25/1221:43 | 04/24/1216:57 | ID25036 | ID25025 | HCD012S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 1.15 | 0.575 | 04/25/1222:25 | 04/24/1216:57 | ID25039 | ID25037 | HCD012S | 04/18/1215:40 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08R | ND | 1 | 13.0 | 1.15 | 0.575 | 04/25/1222:35 | 04/24/1216:57 | ID25040 | ID25037 | HCD012S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 1.12 | 0.561 | 04/25/1222:46 | 04/24/1216:57 | ID25041 | ID25037 | HCD012S | 04/18/1214:25 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09R | ND | 1 | 10.8 | 1.12 | 0.561 | 04/25/1222:56 | 04/24/1216:57 | ID25042 | ID25037 | HCD012S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 1.15 | 0.573 | 04/25/1223:06 | 04/24/1216:57 | ID25043 | ID25037 | HCD012S | 04/18/1211:20 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10R | ND | 1 | 12.7 | 1.15 | 0.573 | 04/25/1223:17 | 04/24/1216:57 | ID25044 | ID25037 | HCD012S | 04/18/1211:20 | 04/18/12 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CND011SB | ND | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01110 | CND01108 | CND011S | NA | 04/26/12 |
| LCS1S | CND011SL | 2.32 | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01111 | CND01108 | CND011S | NA | 04/26/12 |
| LCD1S | CND011SC | 2.34 | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01112 | CND01108 | CND011S | NA | 04/26/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 0.528 | 0.264 | 04/26/1218:51 | 04/26/1211:30 | CND01116 | CND01108 | CND011S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DUP | D166-02D | ND | 1 | 5.3 | 0.528 | 0.264 | 04/26/1218:51 | 04/26/1211:30 | CND01117 | CND01108 | CND011S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M | 2.25 | 1 | 5.3 | 0.528 | 0.264 | 04/26/1218:51 | 04/26/1211:30 | CND01118 | CND01108 | CND011S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | 0.335J | 1 | 16.0 | 0.595 | 0.298 | 04/26/1218:52 | 04/26/1211:30 | CND01119 | CND01108 | CND011S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | ND | 1 | 12.8 | 0.573 | 0.287 | 04/26/1218:52 | 04/26/1211:30 | CND01122 | CND01120 | CND011S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1 | 12.1 | 0.569 | 0.284 | 04/26/1218:53 | 04/26/1211:30 | CND01123 | CND01120 | CND011S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | ND | 1 | 12.6 | 0.572 | 0.286 | 04/26/1218:53 | 04/26/1211:30 | CND01124 | CND01120 | CND011S | 04/18/1214:06 | 04/18/12 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | 6.55 | 1 | NA | NA | NA | 04/19/1217:45 | 04/19/1217:32 | 12PHD021S08 | PHD021S | PHD021S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | 6.50 | 1 | NA | NA | NA | 04/19/1217:46 | 04/19/1217:32 | 12PHD021S09 | PHD021S | PHD021S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 6.52 | 1 | NA | NA | NA | 04/19/1217:47 | 04/19/1217:32 | 12PHD021S10 | PHD021S | PHD021S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | 6.72 | 1 | NA | NA | NA | 04/19/1217:52 | 04/19/1217:32 | 12PHD021S11 | PHD021S | PHD021S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 6.95 | 1 | NA | NA | NA | 04/19/1217:54 | 04/19/1217:32 | 12PHD021S12 | PHD021S | PHD021S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | 7.19 | 1 | NA | NA | NA | 04/19/1217:55 | 04/19/1217:32 | 12PHD021S13 | PHD021S | PHD021S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | 6.25 | 1 | NA | NA | NA | 04/19/1217:57 | 04/19/1217:32 | 12PHD021S14 | PHD021S | PHD021S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | 6.71 | 1 | NA | NA | NA | 04/19/1217:59 | 04/19/1217:32 | 12PHD021S15 | PHD021S | PHD021S | 04/18/1211:20 | 04/18/12 |

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/1211:53 |
| Sample ID: SL-008-NBZ-SB-4.0-5.0 | Date Analyzed: 05/02/12 18:35 |
| Lab Samp ID: D166-02 | Dilution Factor: 1 |
| Lab File ID: REL072 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 5.3 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 89 |
| 1,2-DICHLOROBENZENE | ND | 180 | 89 |
| 1,3-DICHLOROBENZENE | ND | 180 | 89 |
| 1,4-DICHLOROBENZENE | ND | 180 | 89 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DICHLOROPHENOL | ND | 180 | 89 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 89 |
| 2,4-DINITROPHENOL | ND | 350 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 89 |
| 2,6-DINITROTOLUENE | ND | 180 | 89 |
| 2-CHLORONAPHTHALENE | ND | 180 | 89 |
| 2-CHLOROPHENOL | ND | 180 | 89 |
| 2-METHYLNAPHTHALENE | ND | 180 | 89 |
| 2-METHYLPHENOL | ND | 180 | 89 |
| 2-NITROANILINE | ND | 180 | 89 |
| 2-NITROPHENOL | ND | 180 | 89 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 89 |
| 3-NITROANILINE | ND | 180 | 89 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 350 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 89 |
| 4-CHLOROANILINE | ND | 180 | 89 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 89 |
| 4-METHYLPHENOL (1) | ND | 180 | 89 |
| 4-NITROANILINE | ND | 180 | 89 |
| 4-NITROPHENOL | ND | 350 | 180 |
| ACENAPHTHENE | ND | 180 | 89 |
| ACENAPHTHYLENE | ND | 180 | 89 |
| ANTHRACENE | ND | 180 | 89 |
| BENZO(A)ANTHRACENE | ND | 180 | 89 |
| BENZO(A)PYRENE | ND | 180 | 89 |
| BENZO(B)FLUORANTHENE | ND | 180 | 89 |
| BENZO(K)FLUORANTHENE | ND | 180 | 89 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 89 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 89 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 89 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 89 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 89 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 89 |
| CHRYSENE | ND | 180 | 89 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 89 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 89 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 89 |
| DIBENZOFURAN | ND | 180 | 89 |
| DIETHYLPHTHALATE | ND | 180 | 89 |
| DIMETHYLPHTHALATE | ND | 180 | 89 |
| FLUORANTHENE | ND | 180 | 89 |
| FLUORENE | ND | 180 | 89 |
| HEXACHLOROBENZENE | ND | 180 | 89 |
| HEXACHLOROBUTADIENE | ND | 180 | 89 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 89 |
| HEXACHLOROETHANE | ND | 180 | 89 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 89 |
| ISOPHORONE | ND | 180 | 89 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 89 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 89 |
| NAPHTHALENE | ND | 180 | 89 |
| NITROBENZENE | ND | 180 | 89 |
| PENTACHLOROPHENOL | ND | 350 | 180 |
| PHENANTHRENE | ND | 180 | 89 |
| PHENOL | ND | 180 | 89 |
| PYRENE | ND | 180 | 89 |
| BENZYL ALCOHOL | ND | 180 | 89 |
| 1-METHYLNAPHTHALENE | ND | 180 | 89 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 89 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 89 |
| ANILINE | ND | 350 | 180 |
| BENZIDINE | ND | 880 | 440 |
| BENZOIC ACID | ND | 700 | 350 |
| CARBAZOLE | ND | 180 | 89 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 89 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 847 | 1056 | 80.2 | 35-130 |
| 2-FLUOROBIPHENYL | 281 | 352.0 | 79.9 | 45-130 |
| 2-FLUOROPHENOL | 775 | 1056 | 73.3 | 25-130 |
| NITROBENZENE-D5 | 254 | 352.0 | 72.3 | 40-130 |
| PHENOL-D5 | 771 | 1056 | 73.0 | 25-120 |
| TERPHENYL-D14 | 388 | 352.0 | 110 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/1211:53 |
| Sample ID: SL-081-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 19:02 |
| Lab Samp ID: D166-03 | Dilution Factor: 1 |
| Lab File ID: REL073 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 16.0 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 400 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 400 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 400 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 400 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 400 | 200 |
| BENZIDINE | ND | 990 | 500 |
| BENZOIC ACID | ND | 790 | 400 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 862 | 1190 | 72.4 | 35-130 |
| 2-FLUOROBIPHENYL | 265 | 396.8 | 66.8 | 45-130 |
| 2-FLUOROPHENOL | 592 | 1190 | 49.7 | 25-130 |
| NITROBENZENE-D5 | 220 | 396.8 | 55.4 | 40-130 |
| PHENOL-D5 | 723 | 1190 | 60.8 | 25-120 |
| TERPHENYL-D14 | 355 | 396.8 | 89.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/1211:53 |
| Sample ID: SL-082-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 19:28 |
| Lab Samp ID: D166-04 | Dilution Factor: 1 |
| Lab File ID: REL074 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 12.8 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 96 |
| 1,2-DICHLOROBENZENE | ND | 190 | 96 |
| 1,3-DICHLOROBENZENE | ND | 190 | 96 |
| 1,4-DICHLOROBENZENE | ND | 190 | 96 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 96 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 96 |
| 2,6-DINITROTOLUENE | ND | 190 | 96 |
| 2-CHLORONAPHTHALENE | ND | 190 | 96 |
| 2-CHLOROPHENOL | ND | 190 | 96 |
| 2-METHYLNAPHTHALENE | ND | 190 | 96 |
| 2-METHYLPHENOL | ND | 190 | 96 |
| 2-NITROANILINE | ND | 190 | 96 |
| 2-NITROPHENOL | ND | 190 | 96 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 96 |
| 3-NITROANILINE | ND | 190 | 96 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 96 |
| 4-CHLOROANILINE | ND | 190 | 96 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-METHYLPHENOL (1) | ND | 190 | 96 |
| 4-NITROANILINE | ND | 190 | 96 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 96 |
| ACENAPHTHYLENE | ND | 190 | 96 |
| ANTHRACENE | ND | 190 | 96 |
| BENZO(A)ANTHRACENE | ND | 190 | 96 |
| BENZO(A)PYRENE | ND | 190 | 96 |
| BENZO(B)FLUORANTHENE | ND | 190 | 96 |
| BENZO(K)FLUORANTHENE | ND | 190 | 96 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 96 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 96 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 96 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 96 |
| CHRYSENE | ND | 190 | 96 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 96 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 96 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 96 |
| DIBENZOFURAN | ND | 190 | 96 |
| DIETHYLPHTHALATE | ND | 190 | 96 |
| DIMETHYLPHTHALATE | ND | 190 | 96 |
| FLUORANTHENE | ND | 190 | 96 |
| FLUORENE | ND | 190 | 96 |
| HEXACHLOROBENZENE | ND | 190 | 96 |
| HEXACHLOROBUTADIENE | ND | 190 | 96 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 96 |
| HEXACHLOROETHANE | ND | 190 | 96 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 96 |
| ISOPHORONE | ND | 190 | 96 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 96 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 96 |
| NAPHTHALENE | ND | 190 | 96 |
| NITROBENZENE | ND | 190 | 96 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 96 |
| PHENOL | ND | 190 | 96 |
| PYRENE | ND | 190 | 96 |
| BENZYL ALCOHOL | ND | 190 | 96 |
| 1-METHYLNAPHTHALENE | ND | 190 | 96 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 96 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 96 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 950 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 96 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 96 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 949 | 1147 | 82.8 | 35-130 |
| 2-FLUOROBIPHENYL | 227 | 382.2 | 59.3 | 45-130 |
| 2-FLUOROPHENOL | 583 | 1147 | 50.9 | 25-130 |
| NITROBENZENE-D5 | 185 | 382.2 | 48.3 | 40-130 |
| PHENOL-D5 | 643 | 1147 | 56.1 | 25-120 |
| TERPHENYL-D14 | 429 | 382.2 | 112 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/1211:53 |
| Sample ID: SL-082-NBZ-SB-2.5-3.5 | Date Analyzed: 05/02/12 19:54 |
| Lab Samp ID: D166-06 | Dilution Factor: 1 |
| Lab File ID: REL075 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 12.1 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 96 |
| 1,2-DICHLOROBENZENE | ND | 190 | 96 |
| 1,3-DICHLOROBENZENE | ND | 190 | 96 |
| 1,4-DICHLOROBENZENE | ND | 190 | 96 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 96 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 96 |
| 2,6-DINITROTOLUENE | ND | 190 | 96 |
| 2-CHLORONAPHTHALENE | ND | 190 | 96 |
| 2-CHLOROPHENOL | ND | 190 | 96 |
| 2-METHYLNAPHTHALENE | ND | 190 | 96 |
| 2-METHYLPHENOL | ND | 190 | 96 |
| 2-NITROANILINE | ND | 190 | 96 |
| 2-NITROPHENOL | ND | 190 | 96 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 96 |
| 3-NITROANILINE | ND | 190 | 96 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 96 |
| 4-CHLOROANILINE | ND | 190 | 96 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-METHYLPHENOL (1) | ND | 190 | 96 |
| 4-NITROANILINE | ND | 190 | 96 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 96 |
| ACENAPHTHYLENE | ND | 190 | 96 |
| ANTHRACENE | ND | 190 | 96 |
| BENZO(A)ANTHRACENE | ND | 190 | 96 |
| BENZO(A)PYRENE | ND | 190 | 96 |
| BENZO(B)FLUORANTHENE | ND | 190 | 96 |
| BENZO(K)FLUORANTHENE | ND | 190 | 96 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 96 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 96 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 96 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 96 |
| CHRYSENE | ND | 190 | 96 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 96 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 96 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 96 |
| DIBENZOFURAN | ND | 190 | 96 |
| DIETHYLPHTHALATE | ND | 190 | 96 |
| DIMETHYLPHTHALATE | ND | 190 | 96 |
| FLUORANTHENE | ND | 190 | 96 |
| FLUORENE | ND | 190 | 96 |
| HEXACHLOROBENZENE | ND | 190 | 96 |
| HEXACHLOROBUTADIENE | ND | 190 | 96 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 96 |
| HEXACHLOROETHANE | ND | 190 | 96 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 96 |
| ISOPHORONE | ND | 190 | 96 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 96 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 96 |
| NAPHTHALENE | ND | 190 | 96 |
| NITROBENZENE | ND | 190 | 96 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 96 |
| PHENOL | ND | 190 | 96 |
| PYRENE | ND | 190 | 96 |
| BENZYL ALCOHOL | ND | 190 | 96 |
| 1-METHYLNAPHTHALENE | ND | 190 | 96 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 96 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 96 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 940 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 96 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 96 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 750 | 1138 | 65.9 | 35-130 |
| 2-FLUOROBIPHENYL | 175 | 379.2 | 46.2 | 45-130 |
| 2-FLUOROPHENOL | 596 | 1138 | 52.4 | 25-130 |
| NITROBENZENE-D5 | 185 | 379.2 | 48.9 | 40-130 |
| PHENOL-D5 | 631 | 1138 | 55.5 | 25-120 |
| TERPHENYL-D14 | 356 | 379.2 | 94.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/1211:53 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 20:20 |
| Lab Samp ID: D166-07 | Dilution Factor: 1 |
| Lab File ID: REL076 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 12.6 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 96 |
| 1,2-DICHLOROBENZENE | ND | 190 | 96 |
| 1,3-DICHLOROBENZENE | ND | 190 | 96 |
| 1,4-DICHLOROBENZENE | ND | 190 | 96 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 96 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 96 |
| 2,6-DINITROTOLUENE | ND | 190 | 96 |
| 2-CHLORONAPHTHALENE | ND | 190 | 96 |
| 2-CHLOROPHENOL | ND | 190 | 96 |
| 2-METHYLNAPHTHALENE | ND | 190 | 96 |
| 2-METHYLPHENOL | ND | 190 | 96 |
| 2-NITROANILINE | ND | 190 | 96 |
| 2-NITROPHENOL | ND | 190 | 96 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 96 |
| 3-NITROANILINE | ND | 190 | 96 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 96 |
| 4-CHLOROANILINE | ND | 190 | 96 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-METHYLPHENOL (1) | ND | 190 | 96 |
| 4-NITROANILINE | ND | 190 | 96 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 96 |
| ACENAPHTHYLENE | ND | 190 | 96 |
| ANTHRACENE | ND | 190 | 96 |
| BENZO(A)ANTHRACENE | ND | 190 | 96 |
| BENZO(A)PYRENE | ND | 190 | 96 |
| BENZO(B)FLUORANTHENE | ND | 190 | 96 |
| BENZO(K)FLUORANTHENE | ND | 190 | 96 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 96 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 96 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 96 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 96 |
| CHRYSENE | ND | 190 | 96 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 96 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 96 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 96 |
| DIBENZOFURAN | ND | 190 | 96 |
| DIETHYLPHTHALATE | ND | 190 | 96 |
| DIMETHYLPHTHALATE | ND | 190 | 96 |
| FLUORANTHENE | ND | 190 | 96 |
| FLUORENE | ND | 190 | 96 |
| HEXACHLOROBENZENE | ND | 190 | 96 |
| HEXACHLOROBUTADIENE | ND | 190 | 96 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 96 |
| HEXACHLOROETHANE | ND | 190 | 96 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 96 |
| ISOPHORONE | ND | 190 | 96 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 96 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 96 |
| NAPHTHALENE | ND | 190 | 96 |
| NITROBENZENE | ND | 190 | 96 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 96 |
| PHENOL | ND | 190 | 96 |
| PYRENE | ND | 190 | 96 |
| BENZYL ALCOHOL | ND | 190 | 96 |
| 1-METHYLNAPHTHALENE | ND | 190 | 96 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 96 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 96 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 950 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 96 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 96 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 780 | 1144 | 68.2 | 35-130 |
| 2-FLUOROBIPHENYL | 240 | 381.4 | 63.0 | 45-130 |
| 2-FLUOROPHENOL | 663 | 1144 | 58.0 | 25-130 |
| NITROBENZENE-D5 | 209 | 381.4 | 54.7 | 40-130 |
| PHENOL-D5 | 664 | 1144 | 58.1 | 25-120 |
| TERPHENYL-D14 | 356 | 381.4 | 93.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/1211:53 |
| Sample ID: SL-146-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 20:46 |
| Lab Samp ID: D166-08 | Dilution Factor: 1 |
| Lab File ID: REL077 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 13.0 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 97 |
| 1,2-DICHLOROBENZENE | ND | 190 | 97 |
| 1,3-DICHLOROBENZENE | ND | 190 | 97 |
| 1,4-DICHLOROBENZENE | ND | 190 | 97 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DICHLOROPHENOL | ND | 190 | 97 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 97 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 97 |
| 2,6-DINITROTOLUENE | ND | 190 | 97 |
| 2-CHLORONAPHTHALENE | ND | 190 | 97 |
| 2-CHLOROPHENOL | ND | 190 | 97 |
| 2-METHYLNAPHTHALENE | ND | 190 | 97 |
| 2-METHYLPHENOL | ND | 190 | 97 |
| 2-NITROANILINE | ND | 190 | 97 |
| 2-NITROPHENOL | ND | 190 | 97 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 97 |
| 3-NITROANILINE | ND | 190 | 97 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 97 |
| 4-CHLOROANILINE | ND | 190 | 97 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 97 |
| 4-METHYLPHENOL (1) | ND | 190 | 97 |
| 4-NITROANILINE | ND | 190 | 97 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 97 |
| ACENAPHTHYLENE | ND | 190 | 97 |
| ANTHRACENE | ND | 190 | 97 |
| BENZO(A)ANTHRACENE | ND | 190 | 97 |
| BENZO(A)PYRENE | ND | 190 | 97 |
| BENZO(B)FLUORANTHENE | ND | 190 | 97 |
| BENZO(K)FLUORANTHENE | ND | 190 | 97 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 97 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 97 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 97 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 97 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 97 |
| CHRYSENE | ND | 190 | 97 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 97 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 97 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 97 |
| DIBENZOFURAN | ND | 190 | 97 |
| DIETHYLPHTHALATE | ND | 190 | 97 |
| DIMETHYLPHTHALATE | ND | 190 | 97 |
| FLUORANTHENE | ND | 190 | 97 |
| FLUORENE | ND | 190 | 97 |
| HEXACHLOROBENZENE | ND | 190 | 97 |
| HEXACHLOROBUTADIENE | ND | 190 | 97 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 97 |
| HEXACHLOROETHANE | ND | 190 | 97 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 97 |
| ISOPHORONE | ND | 190 | 97 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 97 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 97 |
| NAPHTHALENE | ND | 190 | 97 |
| NITROBENZENE | ND | 190 | 97 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 97 |
| PHENOL | ND | 190 | 97 |
| PYRENE | ND | 190 | 97 |
| BENZYL ALCOHOL | ND | 190 | 97 |
| 1-METHYLNAPHTHALENE | ND | 190 | 97 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 97 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 97 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 950 | 480 |
| BENZOIC ACID | ND | 770 | 380 |
| CARBAZOLE | ND | 190 | 97 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 97 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 894 | 1149 | 77.8 | 35-130 |
| 2-FLUOROBIPHENYL | 236 | 383.1 | 61.6 | 45-130 |
| 2-FLUOROPHENOL | 529 | 1149 | 46.0 | 25-130 |
| NITROBENZENE-D5 | 181 | 383.1 | 47.2 | 40-130 |
| PHENOL-D5 | 650 | 1149 | 56.6 | 25-120 |
| TERPHENYL-D14 | 406 | 383.1 | 106 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/1211:53 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 21:13 |
| Lab Samp ID: D166-09 | Dilution Factor: 1 |
| Lab File ID: REL078 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 10.8 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 750 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 834 | 1121 | 74.4 | 35-130 |
| 2-FLUOROBIPHENYL | 292 | 373.7 | 78.2 | 45-130 |
| 2-FLUOROPHENOL | 791 | 1121 | 70.6 | 25-130 |
| NITROBENZENE-D5 | 244 | 373.7 | 65.2 | 40-130 |
| PHENOL-D5 | 812 | 1121 | 72.4 | 25-120 |
| TERPHENYL-D14 | 381 | 373.7 | 102 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/1211:53 |
| Sample ID: SL-189-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 21:39 |
| Lab Samp ID: D166-10 | Dilution Factor: 1 |
| Lab File ID: REL079 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 12.7 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 96 |
| 1,2-DICHLOROBENZENE | ND | 190 | 96 |
| 1,3-DICHLOROBENZENE | ND | 190 | 96 |
| 1,4-DICHLOROBENZENE | ND | 190 | 96 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DICHLOROPHENOL | ND | 190 | 96 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 96 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 96 |
| 2,6-DINITROTOLUENE | ND | 190 | 96 |
| 2-CHLORONAPHTHALENE | ND | 190 | 96 |
| 2-CHLOROPHENOL | ND | 190 | 96 |
| 2-METHYLNAPHTHALENE | ND | 190 | 96 |
| 2-METHYLPHENOL | ND | 190 | 96 |
| 2-NITROANILINE | ND | 190 | 96 |
| 2-NITROPHENOL | ND | 190 | 96 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 96 |
| 3-NITROANILINE | ND | 190 | 96 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 96 |
| 4-CHLOROANILINE | ND | 190 | 96 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 96 |
| 4-METHYLPHENOL (1) | ND | 190 | 96 |
| 4-NITROANILINE | ND | 190 | 96 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 96 |
| ACENAPHTHYLENE | ND | 190 | 96 |
| ANTHRACENE | ND | 190 | 96 |
| BENZO(A)ANTHRACENE | ND | 190 | 96 |
| BENZO(A)PYRENE | ND | 190 | 96 |
| BENZO(B)FLUORANTHENE | ND | 190 | 96 |
| BENZO(K)FLUORANTHENE | ND | 190 | 96 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 96 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 96 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 96 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 96 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 96 |
| CHRYSENE | ND | 190 | 96 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 96 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 96 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 96 |
| DIBENZOFURAN | ND | 190 | 96 |
| DIETHYLPHTHALATE | ND | 190 | 96 |
| DIMETHYLPHTHALATE | ND | 190 | 96 |
| FLUORANTHENE | ND | 190 | 96 |
| FLUORENE | ND | 190 | 96 |
| HEXACHLOROBENZENE | ND | 190 | 96 |
| HEXACHLOROBUTADIENE | ND | 190 | 96 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 96 |
| HEXACHLOROETHANE | ND | 190 | 96 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 96 |
| ISOPHORONE | ND | 190 | 96 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 96 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 96 |
| NAPHTHALENE | ND | 190 | 96 |
| NITROBENZENE | ND | 190 | 96 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 96 |
| PHENOL | ND | 190 | 96 |
| PYRENE | ND | 190 | 96 |
| BENZYL ALCOHOL | ND | 190 | 96 |
| 1-METHYLNAPHTHALENE | ND | 190 | 96 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 96 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 96 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 950 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 96 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 96 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 807 | 1145 | 70.5 | 35-130 |
| 2-FLUOROBIPHENYL | 218 | 381.8 | 57.0 | 45-130 |
| 2-FLUOROPHENOL | 492 | 1145 | 42.9 | 25-130 |
| NITROBENZENE-D5 | 155 | 381.8 | 40.5 | 40-130 |
| PHENOL-D5 | 561 | 1145 | 49.0 | 25-120 |
| TERPHENYL-D14 | 358 | 381.8 | 93.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/25/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/1211:53 |
| Sample ID: MBLK1S | Date Analyzed: 05/02/12 02:15 |
| Lab Samp ID: SVD047SB | Dilution Factor: 1 |
| Lab File ID: REL036 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : NA |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 680 | 1000 | 68.0 | 35-130 |
| 2-FLUOROBIPHENYL | 266 | 333.3 | 79.8 | 45-130 |
| 2-FLUOROPHENOL | 756 | 1000 | 75.6 | 25-130 |
| NITROBENZENE-D5 | 244 | 333.3 | 73.2 | 40-130 |
| PHENOL-D5 | 717 | 1000 | 71.7 | 25-120 |
| TERPHENYL-D14 | 332 | 333.3 | 99.6 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVD047SB SVD047SL SVD047SC
LAB FILE ID: REL036 REL037 REL038
DATE EXTRACTED: 04/25/1211:53 04/25/1211:53 04/25/1211:53 DATE COLLECTED: NA
DATE ANALYZED: 05/02/1202:15 05/02/1202:42 05/02/1203:09 DATE RECEIVED: 04/25/12
PREP. BATCH: SVD047S SVD047S SVD047S
CALIB. REF: RDL204 RDL204 RDL204

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 451 | 68 | 667 | 322 | 48 | 33 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 448 | 67 | 667 | 298 | 45 | 40 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 460 | 69 | 667 | 302 | 45 | 41 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 446 | 67 | 667 | 307 | 46 | 37 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 455 | 68 | 667 | 350 | 53 | 26 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 497 | 75 | 667 | 336 | 50 | 39 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 490 | 74 | 667 | 337 | 50 | 37 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 510 | 76 | 667 | 330 | 49 | 43 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 495 | 74 | 667 | 525 | 79 | 6 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 594 | 89 | 667 | 609 | 91 | 2 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 492 | 74 | 667 | 467 | 70 | 5 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 466 | 70 | 667 | 315 | 47* | 39 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 492 | 74 | 667 | 321 | 48 | 42 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 603 | 90 | 667 | 418 | 63 | 36 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 443 | 66 | 667 | 286 | 43 | 43 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 440 | 66 | 667 | 368 | 55 | 18 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 522 | 78 | 667 | 355 | 53 | 38 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 603 | 90 | 667 | 612 | 92 | 1 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 473 | 71 | 667 | 461 | 69 | 3 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 585 | 88 | 667 | 572 | 86 | 2 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 596 | 89 | 667 | 519 | 78 | 14 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 482 | 72 | 667 | 390 | 59 | 21 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 458 | 69 | 667 | 317 | 48 | 36 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 563 | 84 | 667 | 456 | 68 | 21 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 442 | 66 | 667 | 285 | 43 | 43 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 574 | 86 | 667 | 547 | 82 | 5 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 487 | 73 | 667 | 523 | 78 | 7 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 523 | 78 | 667 | 357 | 54 | 38 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 550 | 83 | 667 | 379 | 57 | 37 | 30-130 | 50 |
| Anthracene | ND | 667 | 614 | 92 | 667 | 560 | 84 | 9 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 729 | 109 | 667 | 727 | 109 | 0 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 688 | 103 | 667 | 648 | 97 | 6 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 788 | 118 | 667 | 745 | 112 | 6 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 739 | 111 | 667 | 724 | 109 | 2 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 679 | 102 | 667 | 636 | 95 | 7 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 529 | 79 | 667 | 340 | 51 | 43 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 496 | 74 | 667 | 355 | 53 | 33 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 541 | 81 | 667 | 334 | 50 | 47 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 669 | 100 | 667 | 651 | 98 | 3 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 656 | 98 | 667 | 636 | 95 | 3 | 40-150 | 50 |
| Chrysene | ND | 667 | 705 | 106 | 667 | 698 | 105 | 1 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 666 | 100 | 667 | 713 | 107 | 7 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 702 | 105 | 667 | 681 | 102 | 3 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 693 | 104 | 667 | 698 | 105 | 1 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 512 | 77 | 667 | 364 | 55 | 34 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 562 | 84 | 667 | 564 | 85 | 0 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 489 | 73 | 667 | 441 | 66 | 10 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 742 | 111 | 667 | 740 | 111 | 0 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 529 | 79 | 667 | 422 | 63 | 22 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 561 | 84 | 667 | 532 | 80 | 5 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 486 | 73 | 667 | 315 | 47 | 43 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 390 | 59 | 667 | 219 | 33 | 56* | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 447 | 67 | 667 | 269 | 40 | 50 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 686 | 103 | 667 | 665 | 100 | 3 | 30-140 | 50 |
| Isophorone | ND | 667 | 511 | 77 | 667 | 346 | 52 | 38 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 421 | 63 | 667 | 263 | 39 | 46 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 475 | 71 | 667 | 396 | 59 | 18 | 30-140 | 50 |
| Naphthalene | ND | 667 | 540 | 81 | 667 | 423 | 63 | 24 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 522 | 78 | 667 | 357 | 54 | 37 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 641 | 96 | 667 | 623 | 93 | 3 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 622 | 93 | 667 | 601 | 90 | 3 | 30-130 | 50 |
| Phenol | ND | 667 | 487 | 73 | 667 | 327 | 49 | 39 | 30-130 | 50 |
| Pyrene | ND | 667 | 694 | 104 | 667 | 685 | 103 | 1 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 460 | 69 | 667 | 304 | 46 | 41 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 589 | 88 | 667 | 403 | 60 | 38 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 448 | 67 | 667 | 363 | 54 | 21 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 475 | 71 | 667 | 298 | 45 | 46 | 20-150 | 50 |
| Aniline | ND | 667 | 379 | 57 | 667 | 214J | 32 | 56* | 20-150 | 50 |
| Benzidine | ND | 2670 | 1570 | 59 | 2670 | 1480 | 55 | 7 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 794 | 30 | 2670 | 659J | 25 | 19 | 10-130 | 50 |
| Carbazole | ND | 667 | 660 | 99 | 667 | 597 | 90 | 10 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 504 | 76 | 667 | 342 | 51 | 38 | 30-150 | 50 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 653 | 65 | 1000 | 603 | 60 | 35-130 |
| 2-Fluorobiphenyl | 333 | 207 | 62 | 333 | 127 | 38* | 45-130 |
| 2-Fluorophenol | 1000 | 574 | 57 | 1000 | 377 | 38 | 25-130 |
| Nitrobenzene-d5 | 333 | 180 | 54 | 333 | 132 | 40 | 40-130 |
| Phenol-d5 | 1000 | 571 | 57 | 1000 | 378 | 38 | 25-120 |
| Terphenyl-d14 | 333 | 303 | 91 | 333 | 304 | 91 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-008-NBZ-SB-4.0-5.0 | Date Analyzed: 05/02/12 18:35 |
| Lab Samp ID: D166-02 | Dilution Factor: 1 |
| Lab File ID: REL072 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 5.3 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.90 |
| ACENAPHTHYLENE | ND | 1.8 | 0.90 |
| ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.90 |
| BENZO(A)PYRENE | ND | 1.8 | 0.90 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.90 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.90 |
| CHRYSENE | ND | 1.8 | 0.90 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.90 |
| FLUORANTHENE | ND | 1.8 | 0.90 |
| FLUORENE | ND | 1.8 | 0.90 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.90 |
| NAPHTHALENE | ND | 1.8 | 0.90 |
| PHENANTHRENE | ND | 1.8 | 0.90 |
| PYRENE | ND | 1.8 | 0.90 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.90 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 19 | 18 | 8.9 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 8.9 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 8.9 |
| DIETHYLPHTHALATE | ND | 18 | 8.9 |
| DIMETHYLPHTHALATE | ND | 18 | 8.9 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.90 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 245 | 352.0 | 69.7 | 40-130 |
| 2-FLUOROBIPHENYL | 259 | 352.0 | 73.7 | 45-130 |
| TERPHENYL-D14 | 347 | 352.0 | 98.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-081-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 19:02 |
| Lab Samp ID: D166-03 | Dilution Factor: 1 |
| Lab File ID: REL073 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 16.0 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 1.0 |
| ACENAPHTHYLENE | ND | 2.0 | 1.0 |
| ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | 1.8J | 2.0 | 1.0 |
| BENZO(A)PYRENE | ND | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 1.0 |
| CHRYSENE | ND | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 1.0 |
| FLUORANTHENE | 4.5 | 2.0 | 1.0 |
| FLUORENE | 8.1 | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 1.0 |
| NAPHTHALENE | ND | 2.0 | 1.0 |
| PHENANTHRENE | ND | 2.0 | 1.0 |
| PYRENE | 3.6 | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 31 | 20 | 10 |
| BUTYLBENZYLPHTHALATE | 16J | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 195 | 396.8 | 49.1 | 40-130 |
| 2-FLUOROBIPHENYL | 222 | 396.8 | 56.0 | 45-130 |
| TERPHENYL-D14 | 338 | 396.8 | 85.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-082-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 19:28 |
| Lab Samp ID: D166-04 | Dilution Factor: 1 |
| Lab File ID: REL074 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 12.8 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.97 |
| ACENAPHTHYLENE | ND | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | 7.7 | 1.9 | 0.97 |
| BENZO(A)PYRENE | ND | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.97 |
| CHRYSENE | ND | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | ND | 1.9 | 0.97 |
| FLUORENE | ND | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.97 |
| NAPHTHALENE | ND | 1.9 | 0.97 |
| PHENANTHRENE | 1.1J | 1.9 | 0.97 |
| PYRENE | 1.3J | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 26 | 19 | 9.6 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.6 |
| DIETHYLPHTHALATE | ND | 19 | 9.6 |
| DIMETHYLPHTHALATE | ND | 19 | 9.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 177 | 382.2 | 46.4 | 40-130 |
| 2-FLUOROBIPHENYL | 202 | 382.2 | 52.8 | 45-130 |
| TERPHENYL-D14 | 395 | 382.2 | 103 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-082-NBZ-SB-2.5-3.5 | Date Analyzed: 05/09/12 17:24 |
| Lab Samp ID: D166-06W | Dilution Factor: 1 |
| Lab File ID: REL150 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 12.1 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.97 |
| ACENAPHTHYLENE | ND | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)PYRENE | ND | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.97 |
| CHRYSENE | ND | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | ND | 1.9 | 0.97 |
| FLUORENE | ND | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.97 |
| NAPHTHALENE | ND | 1.9 | 0.97 |
| PHENANTHRENE | ND | 1.9 | 0.97 |
| PYRENE | ND | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 19 | 9.6 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.6 |
| DIETHYLPHTHALATE | ND | 19 | 9.6 |
| DIMETHYLPHTHALATE | ND | 19 | 9.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 229 | 379.2 | 60.3 | 40-130 |
| 2-FLUOROBIPHENYL | 199 | 379.2 | 52.6 | 45-130 |
| TERPHENYL-D14 | 392 | 379.2 | 103 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 20:20 |
| Lab Samp ID: D166-07 | Dilution Factor: 1 |
| Lab File ID: REL076 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 12.6 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.97 |
| ACENAPHTHYLENE | ND | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)PYRENE | ND | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.97 |
| CHRYSENE | ND | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | ND | 1.9 | 0.97 |
| FLUORENE | ND | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.97 |
| NAPHTHALENE | ND | 1.9 | 0.97 |
| PHENANTHRENE | ND | 1.9 | 0.97 |
| PYRENE | ND | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 19 | 9.6 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.6 |
| DIETHYLPHTHALATE | ND | 19 | 9.6 |
| DIMETHYLPHTHALATE | ND | 19 | 9.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 202 | 381.4 | 53.1 | 40-130 |
| 2-FLUOROBIPHENYL | 210 | 381.4 | 55.2 | 45-130 |
| TERPHENYL-D14 | 327 | 381.4 | 85.8 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-146-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 20:46 |
| Lab Samp ID: D166-08 | Dilution Factor: 1 |
| Lab File ID: REL077 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 13.0 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 0.98 |
| ACENAPHTHYLENE | ND | 2.0 | 0.98 |
| ANTHRACENE | ND | 2.0 | 0.98 |
| BENZO(A)ANTHRACENE | 1.5J | 2.0 | 0.98 |
| BENZO(A)PYRENE | ND | 2.0 | 0.98 |
| BENZO(B)FLUORANTHENE | 3.4 | 2.0 | 0.98 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 0.98 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 0.98 |
| CHRYSENE | ND | 2.0 | 0.98 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 0.98 |
| FLUORANTHENE | 3.3 | 2.0 | 0.98 |
| FLUORENE | 1.2J | 2.0 | 0.98 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 0.98 |
| NAPHTHALENE | ND | 2.0 | 0.98 |
| PHENANTHRENE | 1.3J | 2.0 | 0.98 |
| PYRENE | 2.8 | 2.0 | 0.98 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 0.98 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 0.98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 20 | 19 | 9.7 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.7 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.7 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.7 |
| DIETHYLPHTHALATE | ND | 19 | 9.7 |
| DIMETHYLPHTHALATE | ND | 19 | 9.7 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 0.98 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 178 | 383.1 | 46.4 | 40-130 |
| 2-FLUOROBIPHENYL | 210 | 383.1 | 54.8 | 45-130 |
| TERPHENYL-D14 | 336 | 383.1 | 87.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 21:13 |
| Lab Samp ID: D166-09 | Dilution Factor: 1 |
| Lab File ID: REL078 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 10.8 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)PYRENE | ND | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.95 |
| CHRYSENE | ND | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | ND | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.95 |
| NAPHTHALENE | ND | 1.9 | 0.95 |
| PHENANTHRENE | ND | 1.9 | 0.95 |
| PYRENE | ND | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | 9.6J | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 240 | 373.7 | 64.2 | 40-130 |
| 2-FLUOROBIPHENYL | 256 | 373.7 | 68.6 | 45-130 |
| TERPHENYL-D14 | 347 | 373.7 | 92.8 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/12 11:53 |
| Sample ID: SL-189-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 21:39 |
| Lab Samp ID: D166-10 | Dilution Factor: 1 |
| Lab File ID: REL079 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : 12.7 |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.97 |
| ACENAPHTHYLENE | ND | 1.9 | 0.97 |
| ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.97 |
| BENZO(A)PYRENE | ND | 1.9 | 0.97 |
| BENZO(B)FLUORANTHENE | 1.4J | 1.9 | 0.97 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.97 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.97 |
| CHRYSENE | 2.9 | 1.9 | 0.97 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.97 |
| FLUORANTHENE | 1.1J | 1.9 | 0.97 |
| FLUORENE | ND | 1.9 | 0.97 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.97 |
| NAPHTHALENE | ND | 1.9 | 0.97 |
| PHENANTHRENE | ND | 1.9 | 0.97 |
| PYRENE | 0.98J | 1.9 | 0.97 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.97 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 19 | 9.6 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.6 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.6 |
| DIETHYLPHTHALATE | ND | 19 | 9.6 |
| DIMETHYLPHTHALATE | ND | 19 | 9.6 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.97 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 152 | 381.8 | 39.9* | 40-130 |
| 2-FLUOROBIPHENYL | 193 | 381.8 | 50.6 | 45-130 |
| TERPHENYL-D14 | 299 | 381.8 | 78.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/25/12 |
| Batch No. : 12D166 | Date Extracted: 04/25/12 11:53 |
| Sample ID: MBLK1S | Date Analyzed: 05/02/12 02:15 |
| Lab Samp ID: SVD047SB | Dilution Factor: 1 |
| Lab File ID: REL036 | Matrix : SOIL |
| Ext Btch ID: SVD047S | % Moisture : NA |
| Calib. Ref.: RDL204 | Instrument ID : T-OE9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 231 | 333.3 | 69.2 | 40-130 |
| 2-FLUOROBIPHENYL | 247 | 333.3 | 74.2 | 45-130 |
| TERPHENYL-D14 | 312 | 333.3 | 93.6 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVD047SB | SVD047SX | SVD047SY | | |
| LAB FILE ID: | REL036 | REL039 | REL040 | | |
| DATE EXTRACTED: | 04/25/1211:53 | 04/25/1211:53 | 04/25/1211:53 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/02/1202:15 | 05/02/1203:36 | 05/02/1204:03 | DATE RECEIVED: | 04/25/12 |
| PREP. BATCH: | SVD047S | SVD047S | SVD047S | | |
| CALIB. REF: | RDL204 | RDL204 | RDL204 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 250 | 75 | 333 | 251 | 75 | 0 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 280 | 84 | 333 | 272 | 81 | 3 | 20-130 | 50 |
| Anthracene | ND | 333 | 245 | 74 | 333 | 256 | 77 | 4 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 286 | 86 | 333 | 319 | 96 | 11 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 318 | 95 | 333 | 355 | 106 | 11 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 334 | 100 | 333 | 386 | 116 | 14 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 344 | 103 | 333 | 352 | 106 | 2 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 294 | 88 | 333 | 336 | 101 | 13 | 30-140 | 50 |
| Chrysene | ND | 333 | 287 | 86 | 333 | 318 | 95 | 10 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 315 | 95 | 333 | 359 | 108 | 13 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 310 | 93 | 333 | 340 | 102 | 9 | 30-130 | 50 |
| Fluorene | ND | 333 | 266 | 80 | 333 | 267 | 80 | 0 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 311 | 93 | 333 | 349 | 105 | 12 | 20-160 | 50 |
| Naphthalene | ND | 333 | 251 | 75 | 333 | 249 | 75 | 1 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 250 | 75 | 333 | 264 | 79 | 5 | 20-130 | 50 |
| Pyrene | ND | 333 | 280 | 84 | 333 | 306 | 92 | 9 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 279 | 84 | 333 | 276 | 83 | 1 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 275 | 83 | 333 | 270 | 81 | 2 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 262 | 79 | 333 | 290 | 87 | 10 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 234 | 70 | 333 | 259 | 78 | 10 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 273 | 82 | 333 | 304 | 91 | 11 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 298 | 89 | 333 | 328 | 98 | 10 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 243 | 73 | 333 | 271 | 81 | 11 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 251 | 75 | 333 | 257 | 77 | 2 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 251 | 75 | 333 | 253 | 76 | 1 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 195 | 59 | 333 | 186 | 56 | 40-130 |
| 2-Fluorobiphenyl | 333 | 217 | 65 | 333 | 208 | 62 | 45-130 |
| Terphenyl-d14 | 333 | 263 | 79 | 333 | 279 | 84 | 45-135 |

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/21/12 19:25 |
| Sample ID: SL-008-NBZ-SB-4.5 | Date Analyzed: 04/21/12 19:25 |
| Lab Samp ID: D166-01 | Dilution Factor: 0.97 |
| Lab File ID: ED20049A | Matrix : SOIL |
| Ext Btch ID: GMD017S | % Moisture : 6.4 |
| Calib. Ref.: ED20048A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.52 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.74 | 2.073 | 84.1 | 60-130 |

RL : Reporting Limit

Methanol Extraction: 04/20/12 14:35

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/21/12 20:07 |
| Sample ID: SL-082-NBZ-SB-3.0 | Date Analyzed: 04/21/12 20:07 |
| Lab Samp ID: D166-05 | Dilution Factor: 0.85 |
| Lab File ID: ED20050A | Matrix : SOIL |
| Ext Btch ID: GMD017S | % Moisture : 12.0 |
| Calib. Ref.: ED20048A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 0.97 | 0.48 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.59 | 1.932 | 82.3 | 60-130 |

RL : Reporting Limit

Methanol Extraction: 04/20/12 14:35

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/21/12 |
| Batch No. : 12D166 | Date Extracted: 04/21/12 16:38 |
| Sample ID: MBLK1S | Date Analyzed: 04/21/12 16:38 |
| Lab Samp ID: GMD017SB | Dilution Factor: 1 |
| Lab File ID: ED20045A | Matrix : SOIL |
| Ext Btch ID: GMD017S | % Moisture : NA |
| Calib. Ref.: ED20037A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.80 | 2.000 | 89.9 | 60-130 |

RL : Reporting Limit

Methanol Extraction: 04/20/12 14:35

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: METHOD 5035/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | GMD017SB | GMD017SL | GMD017SC | | |
| LAB FILE ID: | ED20045A | ED20046A | ED20047A | | |
| DATE EXTRACTED: | 04/21/1216:38 | 04/21/1217:20 | 04/21/1218:02 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/21/1216:38 | 04/21/1217:20 | 04/21/1218:02 | DATE RECEIVED: | 04/21/12 |
| PREP. BATCH: | GMD017S | GMD017S | GMD017S | | |
| CALIB. REF: | ED20037A | ED20037A | ED20037A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 25.0 | 21.9 | 88 | 25.0 | 21.2 | 85 | 3 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 2.00 | 2.05 | 103 | 2.00 | 1.97 | 98 | 60-130 |

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/20/12 08:08 |
| Sample ID: TB-041812 | Date Analyzed: 04/20/12 08:08 |
| Lab Samp ID: D166-11 | Dilution Factor: 1 |
| Lab File ID: ED18057A | Matrix : WATER |
| Ext Btch ID: VA39D13 | % Moisture : NA |
| Calib. Ref.: ED18047A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 37J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 35.5 | 40.00 | 88.7 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D166 | Date Extracted: 04/19/12 17:26 |
| Sample ID: MBLK1W | Date Analyzed: 04/19/12 17:26 |
| Lab Samp ID: VA39D13B | Dilution Factor: 1 |
| Lab File ID: ED18036A | Matrix : WATER |
| Ext Btch ID: VA39D13 | % Moisture : NA |
| Calib. Ref.: ED18035A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 35.1 | 40.00 | 87.7 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: METHOD 5030B/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VA39D13B | VA39D13L | VA39D13C | | |
| LAB FILE ID: | ED18036A | ED18037A | ED18038A | | |
| DATE EXTRACTED: | 04/19/1217:26 | 04/19/1218:08 | 04/19/1218:50 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/19/1217:26 | 04/19/1218:08 | 04/19/1218:50 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | VA39D13 | VA39D13 | VA39D13 | | |
| CALIB. REF: | ED18035A | ED18035A | ED18035A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 500 | 459 | 92 | 500 | 487 | 97 | 6 | 60-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 40.0 | 38.3 | 96 | 40.0 | 40.5 | 101 | 60-130 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/20/12 09:00 |
| Sample ID: SL-008-NBZ-SB-4.0-5.0 | Date Analyzed: 04/20/12 11:55 |
| Lab Samp ID: D166-02 | Dilution Factor: 1 |
| Lab File ID: BD20007A | Matrix : SOIL |
| Ext Btch ID: MED003S | % Moisture : 5.3 |
| Calib. Ref.: BD20002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 530 | 260 |
| ISOPROPANOL | ND | 530 | 260 |
| METHANOL | ND | 530 | 260 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D166 | Date Extracted: 04/20/12 09:00 |
| Sample ID: MBLK1S | Date Analyzed: 04/20/12 10:09 |
| Lab Samp ID: MED003SB | Dilution Factor: 1 |
| Lab File ID: BD20003A | Matrix : SOIL |
| Ext Btch ID: MED003S | % Moisture : NA |
| Calib. Ref.: BD20002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 500 | 250 |
| ISOPROPANOL | ND | 500 | 250 |
| METHANOL | ND | 500 | 250 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | MED003SB | MED003SX | MED003SC | | |
| LAB FILE ID: | BD20003A | BD20006A | BD20005A | | |
| DATE EXTRACTED: | 04/20/1209:00 | 04/20/1209:00 | 04/20/1209:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/20/1210:09 | 04/20/1211:32 | 04/20/1211:14 | DATE RECEIVED: | 04/20/12 |
| PREP. BATCH: | MED003S | MED003S | MED003S | | |
| CALIB. REF: | BD20002A | BD20002A | BD20002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 10400 | 104 | 10000 | 9310 | 93 | 11 | 50-150 | 50 |
| Isopropanol | ND | 10000 | 9270 | 93 | 10000 | 9240 | 92 | 0 | 50-150 | 50 |
| Methanol | ND | 10000 | 9410 | 94 | 10000 | 8490 | 85 | 10 | 50-150 | 50 |

METHOD 8015M
GLYCOLS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| Batch No. | : 12D166 | Date Extracted | : 04/20/12 09:00 |
| Sample ID | : SL-008-NBZ-SB-4.0-5.0 | Date Analyzed | : 04/20/12 11:59 |
| Lab Samp ID | : D166-02 | Dilution Factor | : 1 |
| Lab File ID | : TD20011A | Matrix | : SOIL |
| Ext Btch ID | : PED003S | % Moisture | : 5.3 |
| Calib. Ref. | : TD20004A | Instrument ID | : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 16 | 7.9 |
| ETHYLENE GLYCOL | ND | 11 | 5.3 |
| PROPYLENE GLYCOL | ND | 11 | 5.3 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D166 | Date Extracted: 04/20/12 09:00 |
| Sample ID: MBLK1S | Date Analyzed: 04/20/12 10:13 |
| Lab Samp ID: PED003SB | Dilution Factor: 1 |
| Lab File ID: TD20005A | Matrix : SOIL |
| Ext Btch ID: PED003S | % Moisture : NA |
| Calib. Ref.: TD20004A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.5 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 5.0 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: METHOD 8015M

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: PED003SB PED003SX PED003SC
LAB FILE ID: TD20005A TD20008A TD20007A
DATE EXTRACTED: 04/20/1209:00 04/20/1209:00 04/20/1209:00 DATE COLLECTED: NA
DATE ANALYZED: 04/20/1210:13 04/20/1211:01 04/20/1210:45 DATE RECEIVED: 04/20/12
PREP. BATCH: PED003S PED003S PED003S
CALIB. REF: TD20004A TD20004A TD20004A

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 51.5 | 103 | 50.0 | 46.4 | 93 | 10 | 50-150 | 50 |
| Ethylene Glycol | ND | 50.0 | 47.6 | 95 | 50.0 | 44.0 | 88 | 8 | 50-150 | 50 |
| Propylene Glycol | ND | 25.0 | 23.5 | 94 | 25.0 | 21.6 | 86 | 8 | 50-150 | 50 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/24/12 14:55 |
| Sample ID: SL-008-NBZ-SB-4.0-5.0 | Date Analyzed: 04/25/12 07:38 |
| Lab Samp ID: D166-02 | Dilution Factor: 1 |
| Lab File ID: LD24058A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : 5.3 |
| Calib. Ref.: LD24050A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.53 |
| EFH(C12-C14) | ND | 1.1 | 0.53 |
| EFH(C15-C20) | ND | 1.1 | 0.53 |
| EFH(C21-C30) | ND | 1.1 | 0.53 |
| EFH(C30-C40) | 1.1 | 1.1 | 0.53 |
| TOTAL EFH(C8-C40) | 1.1 | 1.1 | 0.53 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 5.38 | 10.56 | 50.9 | 50-150 |
| HEXACOSANE | 2.06 | 2.640 | 78.2 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/24/12 14:55 |
| Sample ID: SL-081-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 12:43 |
| Lab Samp ID: D166-03 | Dilution Factor: 1 |
| Lab File ID: LD24076A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : 16.0 |
| Calib. Ref.: LD24074A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 1.2 | 1.2 | 0.60 |
| EFH(C12-C14) | 1.8 | 1.2 | 0.60 |
| EFH(C15-C20) | 13 | 1.2 | 0.60 |
| EFH(C21-C30) | 27 | 1.2 | 0.60 |
| EFH(C30-C40) | 46 | 1.2 | 0.60 |
| TOTAL EFH(C8-C40) | 89 | 1.2 | 0.60 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.95 | 11.90 | 58.3 | 50-150 |
| HEXACOSANE | 3.05 | 2.976 | 103 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/24/12 14:55 |
| Sample ID: SL-082-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 09:54 |
| Lab Samp ID: D166-04 | Dilution Factor: 1 |
| Lab File ID: LD24066A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : 12.8 |
| Calib. Ref.: LD24062A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.57 |
| EFH(C12-C14) | ND | 1.1 | 0.57 |
| EFH(C15-C20) | 0.86J | 1.1 | 0.57 |
| EFH(C21-C30) | 23 | 1.1 | 0.57 |
| EFH(C30-C40) | 30 | 1.1 | 0.57 |
| TOTAL EFH(C8-C40) | 54 | 1.1 | 0.57 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.17 | 11.47 | 62.5 | 50-150 |
| HEXACOSANE | 3.13 | 2.867 | 109 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/24/12 14:55 |
| Sample ID: SL-082-NBZ-SB-2.5-3.5 | Date Analyzed: 04/25/12 09:20 |
| Lab Samp ID: D166-06 | Dilution Factor: 1 |
| Lab File ID: LD24064A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : 12.1 |
| Calib. Ref.: LD24062A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.57 |
| EFH(C12-C14) | ND | 1.1 | 0.57 |
| EFH(C15-C20) | ND | 1.1 | 0.57 |
| EFH(C21-C30) | 1.5 | 1.1 | 0.57 |
| EFH(C30-C40) | 2.4 | 1.1 | 0.57 |
| TOTAL EFH(C8-C40) | 3.9 | 1.1 | 0.57 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 5.69 | 11.38 | 50.1 | 50-150 |
| HEXACOSANE | 2.30 | 2.844 | 80.9 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/24/12 14:55 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 10:11 |
| Lab Samp ID: D166-07 | Dilution Factor: 1 |
| Lab File ID: LD24067A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : 12.6 |
| Calib. Ref.: LD24062A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.1 | 0.57 |
| EFH(C12-C14) | ND | 1.1 | 0.57 |
| EFH(C15-C20) | ND | 1.1 | 0.57 |
| EFH(C21-C30) | 4.5 | 1.1 | 0.57 |
| EFH(C30-C40) | 12 | 1.1 | 0.57 |
| TOTAL EFH(C8-C40) | 17 | 1.1 | 0.57 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.77 | 11.44 | 59.2 | 50-150 |
| HEXACOSANE | 2.81 | 2.860 | 98.2 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/24/12 |
| Batch No. : 12D166 | Date Extracted: 04/24/12 14:55 |
| Sample ID: MBLK1S | Date Analyzed: 04/25/12 07:21 |
| Lab Samp ID: DSD040SB | Dilution Factor: 1 |
| Lab File ID: LD24057A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : NA |
| Calib. Ref.: LD24050A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.92 | 10.00 | 69.2 | 50-150 |
| HEXACOSANE | 1.96 | 2.500 | 78.5 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSD040SB | DSD040SL | DSD040SC | | |
| LAB FILE ID: | LD24057A | LD24055A | LD24056A | | |
| DATE EXTRACTED: | 04/24/1214:55 | 04/24/1214:55 | 04/24/1214:55 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1207:21 | 04/25/1206:47 | 04/25/1207:04 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | DSD040S | DSD040S | DSD040S | | |
| CALIB. REF: | LD24050A | LD24050A | LD24050A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 45.1 | 90 | 50.0 | 40.7 | 81 | 10 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 7.75 | 78 | 10.0 | 6.77 | 68 | 50-150 |
| Hexacosane | 2.50 | 2.16 | 86 | 2.50 | 2.05 | 82 | 50-150 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: METHOD 3550B/8015B EFH

MATRIX: SOIL % MOISTURE: 5.3

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-008-NBZ-SB-4.0-5.0 | | | | |
| LAB SAMP ID: | D166-02 | D166-02M | D166-02S | | |
| LAB FILE ID: | LD24058A | LD24059A | LD24060A | | |
| DATE EXTRACTED: | 04/24/1214:55 | 04/24/1214:55 | 04/24/1214:55 | DATE COLLECTED: | 04/18/12 |
| DATE ANALYZED: | 04/25/1207:38 | 04/25/1207:55 | 04/25/1208:12 | DATE RECEIVED: | 04/18/12 |
| PREP. BATCH: | DSD040S | DSD040S | DSD040S | | |
| CALIB. REF: | LD24050A | LD24050A | LD24050A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | 1.07 | 52.8 | 45.1 | 83 | 52.8 | 41.7 | 77 | 8 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.6 | 7.74 | 73 | 10.6 | 6.82 | 65 | 50-150 |
| Hexacosane | 2.64 | 2.12 | 80 | 2.64 | 2.10 | 80 | 50-150 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-081-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 16:33 |
| Lab Samp ID: D166-03 | Dilution Factor: 1 |
| Lab File ID: MD27020A | Matrix : SOIL |
| Ext Btch ID: CPD054S | % Moisture : 16.0 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 2.2 \| (ND) | 0.20 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR | 0.71 \| (ND) | 0.20 | 0.10 \| 0.10 |
| DELTA-BHC | 2.2 \| (ND) | 0.20 | 0.10 \| 0.10 |
| ALDRIN | 0.85 \| (ND) | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | 1.2 \| (ND) | 0.20 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| 0.36 | 0.20 | 0.10 \| 0.10 |
| 4,4'-DDE | (2.2) \| 1.1 | 0.40 | 0.20 \| 0.20 |
| DIELDRIN | 0.82 \| (ND) | 0.40 | 0.20 \| 0.20 |
| ENDRIN | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDD | (0.22J) \| 0.20J | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN II | 0.34J \| (ND) | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDT | (2.9) \| 2.4 | 0.40 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| 0.32J | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| 0.37J | 0.40 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| METHOXYCHLOR | 2.3 \| (ND) | 2.0 | 1.0 \| 1.0 |
| MIREX | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.9 | 3.9 \| 3.9 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.0 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.301 \| (6.119) | 6.349 | 52.0 \| (96.4) | 50-130 |
| DECACHLOROBIPHENYL | 5.098 \| (5.799) | 6.349 | 80.3 \| (91.3) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-082-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 16:56 |
| Lab Samp ID: D166-04 | Dilution Factor: 1 |
| Lab File ID: MD27021A | Matrix : SOIL |
| Ext Btch ID: CPD054S | % Moisture : 12.8 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.42 | 0.19 | 0.097 \| 0.097 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR | (ND) \| 1.0 | 0.19 | 0.097 \| 0.097 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| ALDRIN | 0.35 \| (ND) | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR EPOXIDE | (ND) \| 3.5 | 0.19 | 0.097 \| 0.097 |
| ENDOSULFAN I | 0.61 \| (ND) | 0.19 | 0.097 \| 0.097 |
| 4,4'-DDE | 2.5 \| (3.1) | 0.39 | 0.19 \| 0.19 |
| DIELDRIN | 6.4 \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDRIN | 2.9 \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN II | 1.3 \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDT | (ND) \| 40 | 0.39 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| 4.1 | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| 1.5 | 0.39 | 0.19 \| 0.19 |
| ENDRIN KETONE | 0.88 \| (ND) | 0.39 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| ND | 1.9 | 0.97 \| 0.97 |
| MIREX | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.362 \| (6.182) | 6.116 | 71.3 \| (101) | 50-130 |
| DECACHLOROBIPHENYL | (5.194) \| 5.094 | 6.116 | (84.9) \| 83.3 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-082-NBZ-SB-2.5-3.5 | Date Analyzed: 04/27/12 17:18 |
| Lab Samp ID: D166-06 | Dilution Factor: 1 |
| Lab File ID: MD27022A | Matrix : SOIL |
| Ext Btch ID: CPD054S | % Moisture : 12.1 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.20 | 0.19 | 0.097 \| 0.097 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.16J | 0.19 | 0.097 \| 0.097 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR | 0.12J \| (ND) | 0.19 | 0.097 \| 0.097 |
| DELTA-BHC | (ND) \| 0.16J | 0.19 | 0.097 \| 0.097 |
| ALDRIN | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR EPOXIDE | (ND) \| 0.12J | 0.19 | 0.097 \| 0.097 |
| ENDOSULFAN I | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| 4,4'-DDE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| 0.25J | 0.39 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| 0.55 | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN II | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDT | (ND) \| 0.88 | 0.39 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | 0.33J \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| ND | 1.9 | 0.97 \| 0.97 |
| MIREX | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.5 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.052 \| (5.666) | 6.067 | 83.3 \| (93.4) | 50-130 |
| DECACHLOROBIPHENYL | (4.912) \| 4.652 | 6.067 | (81.0) \| 76.7 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 17:41 |
| Lab Samp ID: D166-07 | Dilution Factor: 1 |
| Lab File ID: MD27023A | Matrix : SOIL |
| Ext Btch ID: CPD054S | % Moisture : 12.6 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.29 | 0.19 | 0.097 \| 0.097 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.14J | 0.19 | 0.097 \| 0.097 |
| BETA-BHC | (ND) \| 0.19 | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR | (ND) \| 0.23 | 0.19 | 0.097 \| 0.097 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| ALDRIN | (ND) \| 0.30 | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR EPOXIDE | (ND) \| 0.31 | 0.19 | 0.097 \| 0.097 |
| ENDOSULFAN I | (ND) \| 0.18J | 0.19 | 0.097 \| 0.097 |
| 4,4'-DDE | 0.64 \| (ND) | 0.39 | 0.19 \| 0.19 |
| DIELDRIN | 1.6 \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDRIN | 0.60 \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.31J \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDT | (ND) \| 5.1 | 0.39 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | 1.6 \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| 0.40 | 0.39 | 0.19 \| 0.19 |
| ENDRIN KETONE | 0.40 \| (ND) | 0.39 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| ND | 1.9 | 0.97 \| 0.97 |
| MIREX | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.511 \| (6.130) | 6.102 | 73.9 \| (100) | 50-130 |
| DECACHLOROBIPHENYL | (5.656) \| 5.271 | 6.102 | (92.7) \| 86.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-146-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 18:49 |
| Lab Samp ID: D166-08 | Dilution Factor: 1 |
| Lab File ID: MD27026A | Matrix : SOIL |
| Ext Btch ID: CPD054S | % Moisture : 13.0 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| BETA-BHC | (ND) \| 0.55 | 0.20 | 0.098 \| 0.098 |
| HEPTACHLOR | (ND) \| 0.34 | 0.20 | 0.098 \| 0.098 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| ALDRIN | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| HEPTACHLOR EPOXIDE | 0.11J \| (ND) | 0.20 | 0.098 \| 0.098 |
| ENDOSULFAN I | (ND) \| ND | 0.20 | 0.098 \| 0.098 |
| 4,4'-DDE | (0.59) \| 0.51 | 0.39 | 0.20 \| 0.20 |
| DIELDRIN | 0.44 \| (ND) | 0.39 | 0.20 \| 0.20 |
| ENDRIN | 3.5 \| (ND) | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN II | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| 4,4'-DDT | (0.90) \| 0.84 | 0.39 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| 0.27J | 0.39 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| ENDRIN KETONE | 0.35J \| (ND) | 0.39 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| ND | 2.0 | 0.98 \| 0.98 |
| MIREX | (ND) \| ND | 0.39 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.778 \| (6.227) | 6.130 | 77.9 \| (102) | 50-130 |
| DECACHLOROBIPHENYL | (5.391) \| 5.082 | 6.130 | (88.0) \| 82.9 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 19:12 |
| Lab Samp ID: D166-09 | Dilution Factor: 1 |
| Lab File ID: MD27027A | Matrix : SOIL |
| Ext Btch ID: CPD054S | % Moisture : 10.8 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.61 \| (ND) | 0.19 | 0.095 \| 0.095 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| HEPTACHLOR | (ND) \| 0.23 | 0.19 | 0.095 \| 0.095 |
| DELTA-BHC | (ND) \| 1.1 | 0.19 | 0.095 \| 0.095 |
| ALDRIN | (ND) \| 0.38 | 0.19 | 0.095 \| 0.095 |
| HEPTACHLOR EPOXIDE | 0.35 \| (ND) | 0.19 | 0.095 \| 0.095 |
| ENDOSULFAN I | (ND) \| 0.13J | 0.19 | 0.095 \| 0.095 |
| 4,4'-DDE | (1.1) \| 0.89 | 0.38 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| 0.92 | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN II | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDT | (1.7) \| 1.6 | 0.38 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| 0.25J | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| 0.98 | 0.38 | 0.19 \| 0.19 |
| ENDRIN KETONE | 0.98 \| (ND) | 0.38 | 0.19 \| 0.19 |
| METHOXYCHLOR | 2.5 \| (ND) | 1.9 | 0.95 \| 0.95 |
| MIREX | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.4 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.8 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.593 \| (5.594) | 5.979 | 76.8 \| (93.6) | 50-130 |
| DECACHLOROBIPHENYL | (5.786) \| 4.684 | 5.979 | (96.8) \| 78.4 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:33 |
| Sample ID: SL-189-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 19:34 |
| Lab Samp ID: D166-10 | Dilution Factor: 1 |
| Lab File ID: MD27028A | Matrix : SOIL |
| Ext Btch ID: CPD054S | % Moisture : 12.7 |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.11J | 0.19 | 0.097 \| 0.097 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR | 0.54 \| (ND) | 0.19 | 0.097 \| 0.097 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| ALDRIN | (ND) \| 0.11J | 0.19 | 0.097 \| 0.097 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.19 | 0.097 \| 0.097 |
| ENDOSULFAN I | (ND) \| 0.24 | 0.19 | 0.097 \| 0.097 |
| 4,4'-DDE | 0.21J \| (0.30J) | 0.39 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN II | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDT | (1.1) \| 0.73 | 0.39 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| ND | 1.9 | 0.97 \| 0.97 |
| MIREX | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.6 | 3.8 \| 3.8 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.481 \| (6.172) | 6.109 | 89.7 \| (101) | 50-130 |
| DECACHLOROBIPHENYL | (5.843) \| 5.294 | 6.109 | (95.7) \| 86.7 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:33 |
| Sample ID: MBLK1S | Date Analyzed: 04/27/12 12:27 |
| Lab Samp ID: CPD054SB | Dilution Factor: 1 |
| Lab File ID: MD27009A | Matrix : SOIL |
| Ext Btch ID: CPD054S | % Moisture : NA |
| Calib. Ref.: MD27005A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 3.801\|(5.074) | 5.333 | 71.3\|(95.1) | 50-130 |
| DECACHLOROBIPHENYL | 5.191\|(5.277) | 5.333 | 97.3\|(98.9) | 20-120 |

RL : Reporting limit
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Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPD054SB CPD054SL CPD054SC
LAB FILE ID: MD27009A MD27010A MD27011A
DATE EXTRACTED: 04/23/1217:33 04/23/1217:33 04/23/1217:33 DATE COLLECTED: NA
DATE ANALYZED: 04/27/1212:27 04/27/1212:49 04/27/1213:11 DATE RECEIVED: 04/23/12
PREP. BATCH: CPD054S CPD054S CPD054S
CALIB. REF: MD27005A MD27005A MD27005A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND) \| ND | 2.67 | 2.27 \| (2.58) | 85 \| (97) | 2.67 | 2.38 \| (2.68) | 89 \| (100) | 5 \| (4) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND) \| ND | 2.67 | 1.81 \| (2.30) | 68 \| (86) | 2.67 | 1.95 \| (2.46) | 73 \| (92) | 7 \| (7) | 40-130 | 50 |
| beta-BHC | (ND) \| ND | 2.67 | 2.33 \| (2.36) | 87 \| (88) | 2.67 | 2.13 \| (2.37) | 80 \| (89) | 9 \| (0) | 50-140 | 50 |
| Heptachlor | (ND) \| ND | 2.67 | 2.33 \| (2.68) | 87 \| (100) | 2.67 | 2.55 \| (2.73) | 96 \| (102) | 9 \| (2) | 30-130 | 50 |
| delta-BHC | (ND) \| ND | 2.67 | 2.44 \| (2.52) | 91 \| (94) | 2.67 | 2.58 \| (2.60) | 97 \| (97) | 6 \| (3) | 30-150 | 50 |
| Aldrin | (ND) \| ND | 2.67 | (2.08) \| 2.03 | (78) \| 76 | 2.67 | (2.23) \| 2.14 | (84) \| 80 | (7) \| 5 | 30-130 | 50 |
| Heptachlor Epoxide | (ND) \| ND | 2.67 | 2.33 \| (2.38) | 87 \| (89) | 2.67 | 2.31 \| (2.49) | 87 \| (93) | 1 \| (5) | 60-140 | 50 |
| Endosulfan I | (ND) \| ND | 2.67 | 1.92 \| (2.16) | 72 \| (81) | 2.67 | 2.08 \| (2.24) | 78 \| (84) | 8 \| (4) | 50-150 | 50 |
| 4,4'-DDE | (ND) \| ND | 2.67 | 2.34 \| (2.35) | 88 \| (88) | 2.67 | (2.55) \| 2.45 | (96) \| 92 | (9) \| 4 | 50-150 | 50 |
| Dieldrin | (ND) \| ND | 2.67 | (2.59) \| 2.19 | (97) \| 82 | 2.67 | (2.73) \| 2.25 | (102) \| 84 | (5) \| 3 | 60-130 | 50 |
| Endrin | (ND) \| ND | 2.67 | 2.25 \| (2.28) | 84 \| (85) | 2.67 | (2.37) \| 2.37 | (89) \| 89 | (5) \| 4 | 50-140 | 50 |
| 4,4'-DDD | (ND) \| ND | 2.67 | (2.39) \| 2.16 | (90) \| 81 | 2.67 | (2.56) \| 2.30 | (96) \| 86 | (7) \| 6 | 50-160 | 50 |
| Endosulfan II | (ND) \| ND | 2.67 | (2.53) \| 2.49 | (95) \| 93 | 2.67 | (2.70) \| 2.67 | (101) \| 100 | (7) \| 7 | 60-150 | 50 |
| 4,4'-DDT | (ND) \| ND | 2.67 | (2.83) \| 2.46 | (106) \| 92 | 2.67 | (3.02) \| 2.58 | (113) \| 97 | (6) \| 5 | 60-140 | 50 |
| Endrin aldehyde | (ND) \| ND | 2.67 | (2.35) \| 2.32 | (88) \| 87 | 2.67 | (2.54) \| 2.50 | (95) \| 94 | (8) \| 7 | 50-160 | 50 |
| Endosulfan Sulfate | (ND) \| ND | 2.67 | (2.56) \| 2.49 | (96) \| 93 | 2.67 | (2.76) \| 2.67 | (103) \| 100 | (8) \| 7 | 70-140 | 50 |
| Endrin Ketone | (ND) \| ND | 2.67 | (2.55) \| 2.44 | (96) \| 91 | 2.67 | (2.76) \| 2.61 | (103) \| 98 | (8) \| 7 | 70-160 | 50 |
| Methoxychlor | (ND) \| ND | 26.7 | 25.6 \| (25.7) | 96 \| (96) | 26.7 | (27.4) \| 27.2 | (103) \| 102 | (7) \| 6 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | 2.997 \| (4.110) | 56.2 \| (77.1) | 5.333 | 3.269 \| (4.313) | 61.3 \| (80.9) | 50-130 |
| Decachlorobiphenyl | 5.333 | (4.221) \| 4.180 | (79.1) \| 78.4 | 5.333 | (4.489) \| 4.416 | (84.2) \| 82.8 | 20-120 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: 12.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-083-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D166-07 | D166-07M | D166-07S | | |
| LAB FILE ID: | MD27023A | MD27024A | MD27025A | | |
| DATE EXTRACTED: | 04/23/1217:33 | 04/23/1217:33 | 04/23/1217:33 | DATE COLLECTED: | 04/18/12 |
| DATE ANALYZED: | 04/27/1217:41 | 04/27/1218:03 | 04/27/1218:26 | DATE RECEIVED: | 04/18/12 |
| PREP. BATCH: | CPD054S | CPD054S | CPD054S | | |
| CALIB. REF: | MD27005A | MD27005A | MD27005A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|0.29 | 3.05 | (2.96)\|2.86 | (97)\|84 | 3.05 | (3.06)\|3.03 | (100)\|90 | (3)\|6 | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|0.14J | 3.05 | (2.40)\|2.95 | (79)\|92 | 3.05 | (2.39)\|3.09 | (78)\|97 | (0)\|5 | 20-150 | 50 |
| beta-BHC | (ND)\|0.19 | 3.05 | (3.14)\|3.04 | (103)\|93 | 3.05 | (3.06)\|3.01 | (100)\|92 | (3)\|1 | 50-140 | 50 |
| Heptachlor | (ND)\|0.23 | 3.05 | (2.89)\|3.12 | (95)\|95 | 3.05 | (3.01)\|3.22 | (99)\|98 | (4)\|3 | 20-140 | 50 |
| delta-BHC | (ND)\|ND | 3.05 | (3.33)\|3.03 | (109)\|99 | 3.05 | (3.33)\|3.03 | (109)\|99 | (0)\|0 | 30-150 | 50 |
| Aldrin | (ND)\|0.30 | 3.05 | (2.28)\|2.98 | (75)\|88 | 3.05 | (2.43)\|3.04 | (80)\|90 | (6)\|2 | 20-160 | 50 |
| Heptachlor Epoxide | (ND)\|0.31 | 3.05 | (2.60)\|3.14 | (85)\|93 | 3.05 | (2.56)\|3.10 | (84)\|91 | (2)\|1 | 40-140 | 50 |
| Endosulfan I | (ND)\|0.18J | 3.05 | (2.65)\|2.58 | (87)\|79 | 3.05 | (2.72)\|2.53 | (89)\|77 | (3)\|2 | 50-160 | 50 |
| 4,4'-DDE | 0.64\|(ND) | 3.05 | 3.99\|(3.89) | 110\|(127) | 3.05 | 4.06\|(3.76) | 112\|(123) | 2\|(3) | 50-150 | 50 |
| Dieldrin | 1.6\|(ND) | 3.05 | 4.00\|(4.76) | 79\|(156) | 3.05 | 4.17\|(4.68) | 84\|(153) | 4\|(2) | 10-160 | 50 |
| Endrin | 0.60\|(ND) | 3.05 | 3.07\|(3.49) | 81\|(114) | 3.05 | (3.05)\|2.53 | (80)\|83 | (1)\|32 | 20-160 | 50 |
| 4,4'-DDD | (ND)\|ND | 3.05 | (3.13)\|2.79 | (102)\|91 | 3.05 | (3.02)\|2.67 | (99)\|87 | (4)\|4 | 50-160 | 50 |
| Endosulfan II | 0.31J\|(ND) | 3.05 | 3.31\|(3.63) | 98\|(119) | 3.05 | 3.24\|(3.65) | 96\|(119) | 2\|(1) | 40-160 | 50 |
| 4,4'-DDT | (ND)\|5.1 | 3.05 | (6.15)\|12.6 | (201*)\|246* | 3.05 | (4.98)\|10.5 | (163*)\|177* | (21)\|18 | 30-160 | 50 |
| Endrin aldehyde | 1.6\|(ND) | 3.05 | 4.28\|(3.48) | 88\|(114) | 3.05 | 4.92\|(3.58) | 109\|(117) | 14\|(3) | 50-140 | 50 |
| Endosulfan Sulfate | (ND)\|0.40 | 3.05 | (3.01)\|3.80 | (99)\|111 | 3.05 | (2.96)\|3.52 | (97)\|102 | (2)\|8 | 40-160 | 50 |
| Endrin Ketone | 0.40\|(ND) | 3.05 | 3.61\|(2.71) | 105\|(89) | 3.05 | 3.57\|(2.66) | 104\|(87) | 1\|(2) | 50-160 | 50 |
| Methoxychlor | (ND)\|ND | 30.5 | (29.2)\|29.0 | (96)\|95 | 30.5 | (29.3)\|29.1 | (96)\|95 | (0)\|0 | 60-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 6.102 | 3.957\|(5.297) | 64.9\|(86.8) | 6.102 | 3.917\|(5.508) | 64.2\|(90.3) | 50-130 |
| Decachlorobiphenyl | 6.102 | (4.983)\|4.638 | (81.7)\|76.0 | 6.102 | (5.075)\|4.549 | (83.2)\|74.5 | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/26/12 17:43 |
| Sample ID: SL-008-NBZ-SB-4.0-5.0 | Date Analyzed: 05/14/12 13:16 |
| Lab Samp ID: D166-02W | Dilution Factor: 1 |
| Lab File ID: KE14006A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 5.3 |
| Calib. Ref.: KE14003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.90\|0.90 |
| AROCLOR 5432 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.5 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.5 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.404)\|5.263 | 5.631 | (114)\|93.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.117)\|4.616 | 5.631 | (109)\|82.0 | 10-160 |

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Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/26/12 17:43 |
| Sample ID: SL-081-NBZ-SS-0.0-0.5 | Date Analyzed: 05/14/12 14:09 |
| Lab Samp ID: D166-03W | Dilution Factor: 1 |
| Lab File ID: KE14007A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 16.0 |
| Calib. Ref.: KE14003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.268)\|4.963 | 6.349 | (98.7)\|78.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.123)\|4.738 | 6.349 | (112)\|74.6 | 10-160 |

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Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/26/12 17:43 |
| Sample ID: SL-082-NBZ-SS-0.0-0.5 | Date Analyzed: 05/14/12 15:03 |
| Lab Samp ID: D166-04 | Dilution Factor: 1 |
| Lab File ID: KE14008A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 12.8 |
| Calib. Ref.: KE14003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1254 | 120\|(64) | 1.9 | 0.97\|0.97 |
| AROCLOR 1260 | (86)\|97 | 1.9 | 0.97\|0.97 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5460 | 31\|(42) | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.870)\|4.626 | 6.116 | (96.0)\|75.6 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.403)\|4.385 | 6.116 | (105)\|71.7 | 10-160 |

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Final result indicated by ( )
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METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/26/12 17:43 |
| Sample ID: SL-082-NBZ-SB-2.5-3.5 | Date Analyzed: 05/14/12 15:56 |
| Lab Samp ID: D166-06 | Dilution Factor: 1 |
| Lab File ID: KE14009A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 12.1 |
| Calib. Ref.: KE14003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1254 | 11\|(6.2) | 1.9 | 0.97\|0.97 |
| AROCLOR 1260 | (6.3)\|9.4 | 1.9 | 0.97\|0.97 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5460 | (2.4J)\|2.4J | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.905)\|4.461 | 6.067 | (97.3)\|73.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.804)\|4.232 | 6.067 | (95.7)\|69.8 | 10-160 |

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Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/26/12 17:43 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 05/14/12 20:23 |
| Lab Samp ID: D166-07T | Dilution Factor: 2 |
| Lab File ID: KE14014A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 12.6 |
| Calib. Ref.: KE14003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 3.9 | 1.9\|1.9 |
| AROCLOR 1221 | (ND)\|ND | 3.9 | 1.9\|1.9 |
| AROCLOR 1232 | (ND)\|ND | 3.9 | 1.9\|1.9 |
| AROCLOR 1242 | (ND)\|ND | 3.9 | 1.9\|1.9 |
| AROCLOR 1248 | (ND)\|ND | 3.9 | 1.9\|1.9 |
| AROCLOR 1254 | 180\|(100) | 3.9 | 1.9\|1.9 |
| AROCLOR 1260 | (92)\|98 | 3.9 | 1.9\|1.9 |
| AROCLOR 1262 | (ND)\|ND | 3.9 | 1.9\|1.9 |
| AROCLOR 1268 | (ND)\|ND | 3.9 | 1.9\|1.9 |
| AROCLOR 5432 | (ND)\|ND | 7.6 | 3.9\|3.9 |
| AROCLOR 5442 | (ND)\|ND | 7.6 | 3.9\|3.9 |
| AROCLOR 5460 | (ND)\|ND | 7.6 | 3.9\|3.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.995)\|4.356 | 6.100 | (98.3)\|71.4 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.355)\|3.892 | 6.100 | (87.8)\|63.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/26/12 17:43 |
| Sample ID: SL-146-NBZ-SS-0.0-0.5 | Date Analyzed: 05/14/12 17:42 |
| Lab Samp ID: D166-08 | Dilution Factor: 1 |
| Lab File ID: KE14011A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 13.0 |
| Calib. Ref.: KE14003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.98\|0.98 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5460 | 3.1J\|(3.6J) | 3.8 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.470\|(5.269) | 6.130 | 122*\|(86.0) | 45-120 |
| TETRACHLORO-M-XYLENE | (8.171)\|4.968 | 6.130 | (133)\|81.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/26/12 17:43 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 05/14/12 18:37 |
| Lab Samp ID: D166-09 | Dilution Factor: 1 |
| Lab File ID: KE14012A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 10.8 |
| Calib. Ref.: KE14003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.005)\|4.897 | 5.979 | (117)\|81.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.558)\|4.527 | 5.979 | (110)\|75.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/26/12 17:43 |
| Sample ID: SL-189-NBZ-SS-0.0-0.5 | Date Analyzed: 05/14/12 19:30 |
| Lab Samp ID: D166-10 | Dilution Factor: 1 |
| Lab File ID: KE14013A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 12.7 |
| Calib. Ref.: KE14003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.97\|0.97 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.440\|(5.049) | 6.109 | 122*\|(82.7) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.521)\|5.314 | 6.109 | (123)\|87.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/26/12 |
| Batch No. : 12D166 | Date Extracted: 04/26/12 17:43 |
| Sample ID: MBLK1S | Date Analyzed: 05/12/12 11:53 |
| Lab Samp ID: 60D063SB | Dilution Factor: 1 |
| Lab File ID: KE11032A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : NA |
| Calib. Ref.: KE11028A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 6.755\|(5.215) | 5.333 | 127*\|(97.8) | 45-120 |
| TETRACHLORO-M-XYLENE | (5.360)\|4.335 | 5.333 | (101)\|81.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60D063SB | 60D063SL | 60D063SC | | |
| LAB FILE ID: | KE11032A | KE11033A | KE11034A | | |
| DATE EXTRACTED: | 04/26/1217:43 | 04/26/1217:43 | 04/26/1217:43 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/12/1211:53 | 05/12/1212:46 | 05/12/1213:39 | DATE RECEIVED: | 04/26/12 |
| PREP. BATCH: | CPD063S | CPD063S | CPD063S | | |
| CALIB. REF: | KE11028A | KE11028A | KE11028A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (61.3)\|46.8 | (92)\|70 | 66.7 | (57.7)\|43.1 | (87)\|65 | (6)\|8 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | 83.5\|(55.3) | 125\|(83) | 66.7 | 78.8\|(52.4) | 118\|(79) | 6\|(5) | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 33.3 | (41.0)\|42.1 | (123)\|126 | 33.3 | (41.4)\|41.1 | (124)\|123 | (1)\|2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | 6.496\|(4.938) | 122*\|(92.6) | 5.333 | (6.194)\|4.579 | (116)\|85.9 | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (5.704)\|4.426 | (107)\|83.0 | 5.333 | (5.249)\|4.045 | (98.4)\|75.8 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:23 |
| Sample ID: SL-081-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 17:01 |
| Lab Samp ID: D166-03 | Dilution Factor: 1 |
| Lab File ID: WD25021A | Matrix : SOIL |
| Ext Btch ID: HED012S | % Moisture : 16.0 |
| Calib. Ref.: WD25020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|110 | 4.3 | 2.1\|2.1 |
| 2,4-DB | 41\|(ND) | 2.0 | 1.0\|1.0 |
| 2,4,5-T | 3.3\|(ND) | 0.20 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.4\|5.4 |
| DICAMBA | (ND)\|ND | 1.4 | 0.71\|0.71 |
| DICHLOROPROP | (ND)\|ND | 2.9 | 1.4\|1.4 |
| DINOSEB | (ND)\|9.3 | 2.0 | 1.0\|1.0 |
| MCPA | (ND)\|ND | 300 | 150\|150 |
| MCPP | (ND)\|ND | 300 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (251.7)\|191.5 | 178.6 | (141)\|107 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| Batch No. | : 12D166 | Date Extracted | : 04/23/12 17:23 |
| Sample ID | : SL-082-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/25/12 17:23 |
| Lab Samp ID | : D166-04 | Dilution Factor | : 1 |
| Lab File ID | : WD25022A | Matrix | : SOIL |
| Ext Btch ID | : HED012S | % Moisture | : 12.8 |
| Calib. Ref. | : WD25020A | Instrument ID | : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| 2,4,5-T | 0.17J\|(ND) | 0.19 | 0.097\|0.097 |
| 2,4,5-TP(SILVEX) | 0.19J\|(ND) | 0.19 | 0.097\|0.097 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.69\|0.69 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | 2.4\|(ND) | 1.9 | 0.97\|0.97 |
| MCPA | (ND)\|ND | 290 | 140\|140 |
| MCPP | (ND)\|ND | 290 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (251.5)\|204.6 | 172.0 | (146)\|119 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:23 |
| Sample ID: SL-082-NBZ-SB-2.5-3.5 | Date Analyzed: 04/25/12 17:44 |
| Lab Samp ID: D166-06 | Dilution Factor: 1 |
| Lab File ID: WD25023A | Matrix : SOIL |
| Ext Btch ID: HED012S | % Moisture : 12.1 |
| Calib. Ref.: WD25020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.097\|0.097 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.097\|0.097 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.68\|0.68 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (220.8)\|183.5 | 170.6 | (129)\|108 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:23 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 18:05 |
| Lab Samp ID: D166-07 | Dilution Factor: 1 |
| Lab File ID: WD25024A | Matrix : SOIL |
| Ext Btch ID: HED012S | % Moisture : 12.6 |
| Calib. Ref.: WD25020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| 2,4,5-T | (ND)\|1.5 | 0.19 | 0.097\|0.097 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.097\|0.097 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.69\|0.69 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| MCPA | (ND)\|ND | 290 | 140\|140 |
| MCPP | (ND)\|ND | 290 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (250.4)\|209.5 | 171.6 | (146)\|122 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:23 |
| Sample ID: SL-146-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 18:27 |
| Lab Samp ID: D166-08 | Dilution Factor: 1 |
| Lab File ID: WD25025A | Matrix : SOIL |
| Ext Btch ID: HED012S | % Moisture : 13.0 |
| Calib. Ref.: WD25020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 0.98\|0.98 |
| 2,4,5-T | 0.43\|(ND) | 0.20 | 0.098\|0.098 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.098\|0.098 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.69\|0.69 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 0.98\|0.98 |
| MCPA | (ND)\|ND | 290 | 140\|140 |
| MCPP | (ND)\|ND | 290 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (251.4)\|207.3 | 172.4 | (146)\|120 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:23 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 18:48 |
| Lab Samp ID: D166-09 | Dilution Factor: 1 |
| Lab File ID: WD25026A | Matrix : SOIL |
| Ext Btch ID: HED012S | % Moisture : 10.8 |
| Calib. Ref.: WD25020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.95\|0.95 |
| 2,4,5-T | 0.34\|(ND) | 0.19 | 0.095\|0.095 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.095\|0.095 |
| DALAPON | (ND)\|ND | 10 | 5.0\|5.0 |
| DICAMBA | (ND)\|ND | 1.3 | 0.67\|0.67 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.95\|0.95 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (231.8)\|180.3 | 168.2 | (138)\|107 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:23 |
| Sample ID: SL-189-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 19:10 |
| Lab Samp ID: D166-10 | Dilution Factor: 1 |
| Lab File ID: WD25027A | Matrix : SOIL |
| Ext Btch ID: HED012S | % Moisture : 12.7 |
| Calib. Ref.: WD25020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.97\|0.97 |
| 2,4,5-T | 0.38\|(ND) | 0.19 | 0.097\|0.097 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.097\|0.097 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.69\|0.69 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|2.6 | 1.9 | 0.97\|0.97 |
| MCPA | (ND)\|ND | 290 | 140\|140 |
| MCPP | (ND)\|ND | 290 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (229.5)\|191.7 | 171.8 | (134)\|112 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D166 | Date Extracted: 04/23/12 17:23 |
| Sample ID: MBLK1S | Date Analyzed: 04/25/12 10:14 |
| Lab Samp ID: HED012SB | Dilution Factor: 1 |
| Lab File ID: WD25003A | Matrix : SOIL |
| Ext Btch ID: HED012S | % Moisture : NA |
| Calib. Ref.: WD25002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (185.8)\|158.3 | 150.0 | (124)\|106 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HED012SB | HED012SL | HED012SC | | |
| LAB FILE ID: | WD25003A | WD25004A | WD25005A | | |
| DATE EXTRACTED: | 04/23/1217:23 | 04/23/1217:23 | 04/23/1217:23 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1210:14 | 04/25/1210:58 | 04/25/1211:19 | DATE RECEIVED: | 04/23/12 |
| PREP. BATCH: | HED012S | HED012S | HED012S | | |
| CALIB. REF: | WD25002A | WD25002A | WD25002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | (14.3)\|13.7 | (95)\|91 | 15.0 | (14.5)\|13.9 | (97)\|93 | (1)\|1 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 12.5\|(14.4) | 83\|(96) | 15.0 | 12.2\|(15.5) | 81\|(103) | 2\|(7) | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | (14.3)\|12.3 | (95)\|82 | 15.0 | (14.6)\|13.9 | (97)\|93 | (2)\|12 | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 15.0 | 13.3\|(13.8) | 89\|(92) | 15.0 | 13.6\|(13.8) | 91\|(92) | 2\|(0) | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | 10.7\|(13.9) | 71\|(93) | 15.0 | 14.2\|(18.7) | 95\|(125) | 28\|(29) | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (14.5)\|12.8 | (97)\|85 | 15.0 | (14.8)\|13.0 | (99)\|87 | (2)\|2 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | 15.6\|(16.4) | 104\|(109) | 15.0 | 15.6\|(16.5) | 104\|(110) | 0\|(1) | 60-160 | 50 |
| Dinoseb | (ND)\|ND | 15.0 | (10.9)\|9.81 | (73)\|65 | 15.0 | (11.3)\|9.27 | (75)\|62 | (4)\|6 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (774)\|750 | (103)\|100 | 750 | (819)\|762 | (109)\|102 | (6)\|2 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | (688)\|622 | (92)\|83 | 750 | (746)\|654 | (99)\|87 | (8)\|5 | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 | (165.6)\|148.4 | (110)\|98.9 | 150.0 | (167.7)\|149.8 | (112)\|99.9 | 10-150 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-008-NBZ-SB-4.0-5.0 | Date Analyzed: 04/25/12 22:27 |
| Lab Samp ID: D166-02 | Dilution Factor: 1 |
| Lab File ID: XD25017A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25012A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1920 | 2000 | 95.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-081-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 23:01 |
| Lab Samp ID: D166-03 | Dilution Factor: .99 |
| Lab File ID: XD25018A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25012A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1880 | 1980 | 94.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-082-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 23:35 |
| Lab Samp ID: D166-04 | Dilution Factor: 1 |
| Lab File ID: XD25019A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25012A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1930 | 2000 | 96.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-082-NBZ-SB-2.5-3.5 | Date Analyzed: 04/26/12 00:09 |
| Lab Samp ID: D166-06 | Dilution Factor: 1 |
| Lab File ID: XD25020A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25012A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1940 | 2000 | 96.8 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| Batch No. : 12D166 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 00:43 |
| Lab Samp ID: D166-07 | Dilution Factor: .99 |
| Lab File ID: XD25021A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25012A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1890 | 1980 | 95.3 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/24/12 |
| Batch No. : 12D166 | Date Extracted: 04/24/12 18:47 |
| Sample ID: MBLK1S | Date Analyzed: 04/25/12 17:55 |
| Lab Samp ID: EXD018SB | Dilution Factor: 1 |
| Lab File ID: XD25009A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25003A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1950 | 2000 | 97.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD018SB | EXD018SL | EXD018SC | | |
| LAB FILE ID: | XD25009A | XD25010A | XD25011A | | |
| DATE EXTRACTED: | 04/24/1218:47 | 04/24/1218:47 | 04/24/1218:47 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1217:55 | 04/25/1218:29 | 04/25/1219:03 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | EXD018S | EXD018S | EXD018S | | |
| CALIB. REF: | XD25003A | XD25003A | XD25003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 2010 | 100 | 2000 | 1960 | 98 | 3 | 70-130 | 50 |
| RDX | ND | 2000 | 2050 | 102 | 2000 | 2100 | 105 | 2 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2260 | 113 | 2000 | 2250 | 112 | 1 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2140 | 107 | 2000 | 2190 | 109 | 2 | 70-130 | 50 |
| Tetryl | ND | 2000 | 1790 | 90 | 2000 | 1880 | 94 | 5 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 2140 | 107 | 2000 | 2270 | 114 | 6 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 1830 | 91 | 2000 | 1770 | 89 | 3 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 2030 | 102 | 2000 | 1940 | 97 | 5 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 1960 | 98 | 2000 | 1920 | 96 | 2 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2000 | 100 | 2000 | 2130 | 106 | 6 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2130 | 106 | 2000 | 2220 | 111 | 4 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 2220 | 111 | 2000 | 2190 | 109 | 1 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1920 | 96 | 2000 | 1960 | 98 | 2 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 2010 | 101 | 2000 | 1810 | 90 | 11 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1890 | 95 | 2000 | 1980 | 99 | 5 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2070 | 104 | 2000 | 2140 | 107 | 4 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1930 | 96 | 2000 | 1960 | 98 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| Batch No. | : 12D166 | Date Extracted | : 04/24/12 18:47 |
| Sample ID | : SL-008-NBZ-SB-4.0-5.0 | Date Analyzed | : 04/25/12 19:35 |
| Lab Samp ID | : D166-02 | Dilution Factor | : 1 |
| Lab File ID | : PD25022A | Matrix | : SOIL |
| Ext Btch ID | : EXD018S | % Moisture | : NA |
| Calib. Ref. | : PD25017A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2480 | 2000 | 124 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| Batch No. | : 12D166 | Date Extracted | : 04/24/12 18:47 |
| Sample ID | : SL-081-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/25/12 19:49 |
| Lab Samp ID | : D166-03 | Dilution Factor | : .99 |
| Lab File ID | : PD25023A | Matrix | : SOIL |
| Ext Btch ID | : EXD018S | % Moisture | : NA |
| Calib. Ref. | : PD25017A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2380 | 1980 | 120 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| Batch No. | : 12D166 | Date Extracted | : 04/24/12 18:47 |
| Sample ID | : SL-082-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/25/12 20:03 |
| Lab Samp ID | : D166-04 | Dilution Factor | : 1 |
| Lab File ID | : PD25024A | Matrix | : SOIL |
| Ext Btch ID | : EXD018S | % Moisture | : NA |
| Calib. Ref. | : PD25017A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2450 | 2000 | 123 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| Batch No. | : 12D166 | Date Extracted | : 04/24/12 18:47 |
| Sample ID | : SL-082-NBZ-SB-2.5-3.5 | Date Analyzed | : 04/25/12 20:17 |
| Lab Samp ID | : D166-06 | Dilution Factor | : 1 |
| Lab File ID | : PD25025A | Matrix | : SOIL |
| Ext Btch ID | : EXD018S | % Moisture | : NA |
| Calib. Ref. | : PD25017A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2470 | 2000 | 124 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| Batch No. | : 12D166 | Date Extracted | : 04/24/12 18:47 |
| Sample ID | : SL-083-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/25/12 20:31 |
| Lab Samp ID | : D166-07 | Dilution Factor | : .99 |
| Lab File ID | : PD25026A | Matrix | : SOIL |
| Ext Btch ID | : EXD018S | % Moisture | : NA |
| Calib. Ref. | : PD25017A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2580 | 1980 | 130 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/24/12 |
| Batch No. : 12D166 | Date Extracted: 04/24/12 18:47 |
| Sample ID: MBLK1S | Date Analyzed: 04/25/12 17:44 |
| Lab Samp ID: EXD018SB | Dilution Factor: 1 |
| Lab File ID: PD25014A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: PD25005A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2490 | 2000 | 125 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD018SB | EXD018SX | EXD018SY | | |
| LAB FILE ID: | PD25014A | PD25015A | PD25016A | | |
| DATE EXTRACTED: | 04/24/1218:47 | 04/24/1218:47 | 04/24/1218:47 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1217:44 | 04/25/1217:58 | 04/25/1218:12 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | EXD018S | EXD018S | EXD018S | | |
| CALIB. REF: | PD25005A | PD25005A | PD25005A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7920 | 106 | 7500 | 7970 | 106 | 1 | 50-150 | 50 |
| PETN | ND | 7500 | 7670 | 102 | 7500 | 7500 | 100 | 2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2380 | 119 | 2000 | 2400 | 120 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| SDG NO. : 12D166 | Date Extracted: 04/25/12 10:28 |
| Sample ID: SL-008-NBZ-SB-4.0-5.0 | Date Analyzed: 04/30/12 17:08 |
| Lab Samp ID: D166-02 | Dilution Factor: 1.00 |
| Lab File ID: 98D21057 | Matrix : SOIL |
| Ext Btch ID: IMD036S | % Moisture : 5.3 |
| Calib. Ref.: 98D21050 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 19700 | 25.3 | 12.7 |
| Antimony | 0.125J | 0.211 | 0.106 |
| Arsenic | 26.7 | 0.422 | 0.211 |
| Barium | 99.1 | 0.422 | 0.211 |
| Beryllium | 0.809 | 0.106 | 0.0528 |
| Boron | ND | 5.28 | 2.64 |
| Cadmium | 0.131 | 0.106 | 0.0528 |
| Calcium | 1990 | 21.1 | 10.6 |
| Chromium | 17.3 | 0.422 | 0.211 |
| Cobalt | 5.42 | 0.106 | 0.0528 |
| Copper | 7.65 | 0.422 | 0.211 |
| Iron | 19700 | 21.1 | 10.6 |
| Lead | 6.28 | 0.211 | 0.106 |
| Magnesium | 4590 | 10.6 | 5.28 |
| Manganese | 235 | 0.528 | 0.264 |
| Molybdenum | 0.751 | 0.106 | 0.0528 |
| Nickel | 11.4 | 0.422 | 0.211 |
| Potassium | 1760 | 63.4 | 31.7 |
| Selenium | ND | 0.422 | 0.211 |
| Silver | 0.0587J | 0.106 | 0.0528 |
| Sodium | 71.8J | 106 | 52.8 |
| Strontium | 17.8 | 0.528 | 0.264 |
| Thallium | 0.253 | 0.106 | 0.0528 |
| Tin | ND | 10.6 | 5.28 |
| Titanium | 1060 | 1.06 | 0.528 |
| Vanadium | 37.2 | 0.106 | 0.0528 |
| Zinc | 48.2 | 3.17 | 1.58 |
| Lithium | 25.4 | 2.11 | 1.06 |
| Phosphorus | 200 | 12.7 | 6.34 |
| Zirconium | ND | 5.28 | 2.64 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| SDG NO. | : 12D166 | Date Extracted | : 04/25/12 10:28 |
| Sample ID | : SL-081-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/30/12 17:13 |
| Lab Samp ID | : D166-03 | Dilution Factor | : 0.980 |
| Lab File ID | : 98D21058 | Matrix | : SOIL |
| Ext Btch ID | : IMD036S | % Moisture | : 16.0 |
| Calib. Ref. | : 98D21050 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 8520 | 28.0 | 14.0 |
| Antimony | 0.166J | 0.233 | 0.117 |
| Arsenic | 4.01 | 0.467 | 0.233 |
| Barium | 79.2 | 0.467 | 0.233 |
| Beryllium | 0.437 | 0.117 | 0.0583 |
| Boron | 4.98J | 5.83 | 2.92 |
| Cadmium | 0.228 | 0.117 | 0.0583 |
| Calcium | 5070 | 23.3 | 11.7 |
| Chromium | 9.77 | 0.467 | 0.233 |
| Cobalt | 4.08 | 0.117 | 0.0583 |
| Copper | 7.48 | 0.467 | 0.233 |
| Iron | 15700 | 23.3 | 11.7 |
| Lead | 11.7 | 0.233 | 0.117 |
| Magnesium | 3500 | 11.7 | 5.83 |
| Manganese | 250 | 0.583 | 0.292 |
| Molybdenum | 0.449 | 0.117 | 0.0583 |
| Nickel | 7.47 | 0.467 | 0.233 |
| Potassium | 3240 | 70.0 | 35.0 |
| Selenium | ND | 0.467 | 0.233 |
| Silver | ND | 0.117 | 0.0583 |
| Sodium | ND | 117 | 58.3 |
| Strontium | 29.7 | 0.583 | 0.292 |
| Thallium | 0.202 | 0.117 | 0.0583 |
| Tin | ND | 11.7 | 5.83 |
| Titanium | 684 | 1.17 | 0.583 |
| Vanadium | 22.0 | 0.117 | 0.0583 |
| Zinc | 54.7 | 3.50 | 1.75 |
| Lithium | 21.0 | 2.33 | 1.17 |
| Phosphorus | 469 | 14.0 | 7.00 |
| Zirconium | ND | 5.83 | 2.92 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| SDG NO. | : 12D166 | Date Extracted | : 04/25/12 10:28 |
| Sample ID | : SL-082-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/30/12 17:18 |
| Lab Samp ID | : D166-04 | Dilution Factor | : 0.971 |
| Lab File ID | : 98D21059 | Matrix | : SOIL |
| Ext Btch ID | : IMD036S | % Moisture | : 12.8 |
| Calib. Ref. | : 98D21050 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10800 | 26.7 | 13.4 |
| Antimony | 0.173J | 0.223 | 0.111 |
| Arsenic | 8.72 | 0.445 | 0.223 |
| Barium | 92.0 | 0.445 | 0.223 |
| Beryllium | 0.481 | 0.111 | 0.0557 |
| Boron | ND | 5.57 | 2.78 |
| Cadmium | 0.239 | 0.111 | 0.0557 |
| Calcium | 2300 | 22.3 | 11.1 |
| Chromium | 17.0 | 0.445 | 0.223 |
| Cobalt | 4.91 | 0.111 | 0.0557 |
| Copper | 8.16 | 0.445 | 0.223 |
| Iron | 17800 | 22.3 | 11.1 |
| Lead | 9.15 | 0.223 | 0.111 |
| Magnesium | 3880 | 11.1 | 5.57 |
| Manganese | 291 | 0.557 | 0.278 |
| Molybdenum | 0.552 | 0.111 | 0.0557 |
| Nickel | 10.2 | 0.445 | 0.223 |
| Potassium | 3650 | 66.8 | 33.4 |
| Selenium | ND | 0.445 | 0.223 |
| Silver | 1.39 | 0.111 | 0.0557 |
| Sodium | 68.3J | 111 | 55.7 |
| Strontium | 15.8 | 0.557 | 0.278 |
| Thallium | 0.248 | 0.111 | 0.0557 |
| Tin | ND | 11.1 | 5.57 |
| Titanium | 811 | 1.11 | 0.557 |
| Vanadium | 30.6 | 0.111 | 0.0557 |
| Zinc | 58.5 | 3.34 | 1.67 |
| Lithium | 25.9 | 2.23 | 1.11 |
| Phosphorus | 305 | 13.4 | 6.68 |
| Zirconium | ND | 5.57 | 2.78 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/18/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/18/12 |
| SDG NO. | : 12D166 | Date Extracted | : 04/25/12 10:28 |
| Sample ID | : SL-082-NBZ-SB-2.5-3.5 | Date Analyzed | : 04/30/12 17:22 |
| Lab Samp ID | : D166-06 | Dilution Factor | : 0.995 |
| Lab File ID | : 98D21060 | Matrix | : SOIL |
| Ext Btch ID | : IMD036S | % Moisture | : 12.1 |
| Calib. Ref. | : 98D21050 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 15700 | 27.2 | 13.6 |
| Antimony | 0.146J | 0.226 | 0.113 |
| Arsenic | 11.6 | 0.453 | 0.226 |
| Barium | 73.8 | 0.453 | 0.226 |
| Beryllium | 0.731 | 0.113 | 0.0566 |
| Boron | ND | 5.66 | 2.83 |
| Cadmium | 0.146 | 0.113 | 0.0566 |
| Calcium | 2010 | 22.6 | 11.3 |
| Chromium | 16.5 | 0.453 | 0.226 |
| Cobalt | 5.16 | 0.113 | 0.0566 |
| Copper | 5.85 | 0.453 | 0.226 |
| Iron | 19600 | 22.6 | 11.3 |
| Lead | 5.97 | 0.226 | 0.113 |
| Magnesium | 3830 | 11.3 | 5.66 |
| Manganese | 220 | 0.566 | 0.283 |
| Molybdenum | 0.930 | 0.113 | 0.0566 |
| Nickel | 10.2 | 0.453 | 0.226 |
| Potassium | 2230 | 67.9 | 34.0 |
| Selenium | 0.227J | 0.453 | 0.226 |
| Silver | 0.0947J | 0.113 | 0.0566 |
| Sodium | 87.8J | 113 | 56.6 |
| Strontium | 14.6 | 0.566 | 0.283 |
| Thallium | 0.249 | 0.113 | 0.0566 |
| Tin | ND | 11.3 | 5.66 |
| Titanium | 844 | 1.13 | 0.566 |
| Vanadium | 34.7 | 0.113 | 0.0566 |
| Zinc | 44.5 | 3.40 | 1.70 |
| Lithium | 29.7 | 2.26 | 1.13 |
| Phosphorus | 280 | 13.6 | 6.79 |
| Zirconium | ND | 5.66 | 2.83 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| SDG NO. : 12D166 | Date Extracted: 04/25/12 10:28 |
| Sample ID: SL-083-NBZ-SS-0.0-0.5 | Date Analyzed: 04/30/12 17:41 # 05/01/12 18:52 |
| Lab Samp ID: D166-07 #D166-07W | Dilution Factor: 1.00 |
| Lab File ID: 98D21064 #98E01048 | Matrix : SOIL |
| Ext Btch ID: IMD036S | % Moisture : 12.6 |
| Calib. Ref.: 98D21062 #98E01041 | Instrument ID : T-I98 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 11000 | 27.5 | 13.7 |
| | Antimony | 0.120J | 0.229 | 0.114 |
| | Arsenic | 16.4 | 0.458 | 0.229 |
| | Barium | 112 | 0.458 | 0.229 |
| | Beryllium | 0.505 | 0.114 | 0.0572 |
| | Boron | ND | 5.72 | 2.86 |
| | Cadmium | 0.296 | 0.114 | 0.0572 |
| | Calcium | 2540 | 22.9 | 11.4 |
| | Chromium | 15.2 | 0.458 | 0.229 |
| | Cobalt | 5.00 | 0.114 | 0.0572 |
| | Copper | 8.03 | 0.458 | 0.229 |
| | Iron | 18300 | 22.9 | 11.4 |
| | Lead | 6.24 | 0.229 | 0.114 |
| | Magnesium | 4190 | 11.4 | 5.72 |
| | Manganese | 279 | 0.572 | 0.286 |
| | Molybdenum | 0.453 | 0.114 | 0.0572 |
| | Nickel | 10.4 | 0.458 | 0.229 |
| | Potassium | 3930 | 68.6 | 34.3 |
| | Selenium | ND | 0.458 | 0.229 |
| | Silver | 0.0876J | 0.114 | 0.0572 |
| | Sodium | ND | 114 | 57.2 |
| # | Strontium | 15.2 | 0.572 | 0.286 |
| | Thallium | 0.242 | 0.114 | 0.0572 |
| | Tin | ND | 11.4 | 5.72 |
| | Titanium | 883 | 1.14 | 0.572 |
| | Vanadium | 30.7 | 0.114 | 0.0572 |
| | Zinc | 63.2 | 3.43 | 1.72 |
| | Lithium | 26.2 | 2.29 | 1.14 |
| | Phosphorus | 450 | 13.7 | 6.86 |
| | Zirconium | ND | 5.72 | 2.86 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| SDG NO. : 12D166 | Date Extracted: 04/25/12 10:28 |
| Sample ID: SL-146-NBZ-SS-0.0-0.5 | Date Analyzed: 04/30/12 17:45 # 05/01/12 18:56 |
| Lab Samp ID: D166-08 #D166-08W | Dilution Factor: 0.990 |
| Lab File ID: 98D21065 #98E01049 | Matrix : SOIL |
| Ext Btch ID: IMD036S | % Moisture : 13.0 |
| Calib. Ref.: 98D21062 #98E01041 | Instrument ID : T-I98 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 8140 | 27.3 | 13.7 |
| | Antimony | 0.116J | 0.228 | 0.114 |
| | Arsenic | 3.72 | 0.455 | 0.228 |
| | Barium | 76.1 | 0.455 | 0.228 |
| | Beryllium | 0.310 | 0.114 | 0.0569 |
| | Boron | ND | 5.69 | 2.84 |
| | Cadmium | 0.161 | 0.114 | 0.0569 |
| | Calcium | 2790 | 22.8 | 11.4 |
| | Chromium | 9.07 | 0.455 | 0.228 |
| | Cobalt | 3.61 | 0.114 | 0.0569 |
| | Copper | 4.54 | 0.455 | 0.228 |
| | Iron | 15100 | 22.8 | 11.4 |
| | Lead | 9.29 | 0.228 | 0.114 |
| | Magnesium | 3550 | 11.4 | 5.69 |
| | Manganese | 285 | 0.569 | 0.284 |
| | Molybdenum | 0.344 | 0.114 | 0.0569 |
| | Nickel | 6.15 | 0.455 | 0.228 |
| | Potassium | 2940 | 68.3 | 34.1 |
| | Selenium | ND | 0.455 | 0.228 |
| | Silver | ND | 0.114 | 0.0569 |
| | Sodium | ND | 114 | 56.9 |
| # | Strontium | 12.8 | 0.569 | 0.284 |
| | Thallium | 0.214 | 0.114 | 0.0569 |
| | Tin | ND | 11.4 | 5.69 |
| | Titanium | 742 | 1.14 | 0.569 |
| | Vanadium | 21.6 | 0.114 | 0.0569 |
| | Zinc | 49.9 | 3.41 | 1.71 |
| | Lithium | 22.2 | 2.28 | 1.14 |
| | Phosphorus | 300 | 13.7 | 6.83 |
| | Zirconium | ND | 5.69 | 2.84 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| SDG NO. : 12D166 | Date Extracted: 04/25/12 10:28 |
| Sample ID: SL-160-NBZ-SS-0.0-0.5 | Date Analyzed: 04/30/12 17:50 # 05/01/12 19:01 |
| Lab Samp ID: D166-09 #D166-09W | Dilution Factor: 0.976 |
| Lab File ID: 98D21066 #98E01050 | Matrix : SOIL |
| Ext Btch ID: IMD036S | % Moisture : 10.8 |
| Calib. Ref.: 98D21062 #98E01041 | Instrument ID : T-I98 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 9610 | 26.3 | 13.1 |
| | Antimony | 0.164J | 0.219 | 0.109 |
| | Arsenic | 4.70 | 0.438 | 0.219 |
| | Barium | 60.5 | 0.438 | 0.219 |
| | Beryllium | 0.494 | 0.109 | 0.0547 |
| | Boron | ND | 5.47 | 2.74 |
| | Cadmium | 0.205 | 0.109 | 0.0547 |
| | Calcium | 2290 | 21.9 | 10.9 |
| | Chromium | 11.2 | 0.438 | 0.219 |
| | Cobalt | 4.81 | 0.109 | 0.0547 |
| | Copper | 6.78 | 0.438 | 0.219 |
| | Iron | 20100 | 21.9 | 10.9 |
| | Lead | 9.49 | 0.219 | 0.109 |
| | Magnesium | 4160 | 10.9 | 5.47 |
| | Manganese | 260 | 0.547 | 0.274 |
| | Molybdenum | 0.359 | 0.109 | 0.0547 |
| | Nickel | 7.36 | 0.438 | 0.219 |
| | Potassium | 2720 | 65.7 | 32.8 |
| | Selenium | 0.887 | 0.438 | 0.219 |
| | Silver | ND | 0.109 | 0.0547 |
| | Sodium | ND | 109 | 54.7 |
| # | Strontium | 10.3 | 0.547 | 0.274 |
| | Thallium | 0.253 | 0.109 | 0.0547 |
| | Tin | ND | 10.9 | 5.47 |
| | Titanium | 785 | 1.09 | 0.547 |
| | Vanadium | 25.7 | 0.109 | 0.0547 |
| | Zinc | 59.1 | 3.28 | 1.64 |
| | Lithium | 28.6 | 2.19 | 1.09 |
| | Phosphorus | 395 | 13.1 | 6.57 |
| | Zirconium | ND | 5.47 | 2.74 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/18/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/18/12 |
| SDG NO. : 12D166 | Date Extracted: 04/25/12 10:28 |
| Sample ID: SL-189-NBZ-SS-0.0-0.5 | Date Analyzed: 04/30/12 17:54 # 05/01/12 19:05 |
| Lab Samp ID: D166-10 #D166-10W | Dilution Factor: 0.990 |
| Lab File ID: 98D21067 #98E01051 | Matrix : SOIL |
| Ext Btch ID: IMD036S | % Moisture : 12.7 |
| Calib. Ref.: 98D21062 #98E01041 | Instrument ID : T-I98 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 11200 | 27.2 | 13.6 |
| | Antimony | 0.129J | 0.227 | 0.113 |
| | Arsenic | 19.3 | 0.454 | 0.227 |
| | Barium | 98.8 | 0.454 | 0.227 |
| | Beryllium | 0.487 | 0.113 | 0.0567 |
| | Boron | ND | 5.67 | 2.84 |
| | Cadmium | 0.250 | 0.113 | 0.0567 |
| | Calcium | 2450 | 22.7 | 11.3 |
| | Chromium | 15.0 | 0.454 | 0.227 |
| | Cobalt | 4.99 | 0.113 | 0.0567 |
| | Copper | 7.14 | 0.454 | 0.227 |
| | Iron | 18100 | 22.7 | 11.3 |
| | Lead | 7.71 | 0.227 | 0.113 |
| | Magnesium | 4360 | 11.3 | 5.67 |
| | Manganese | 286 | 0.567 | 0.284 |
| | Molybdenum | 0.567 | 0.113 | 0.0567 |
| | Nickel | 9.87 | 0.454 | 0.227 |
| | Potassium | 3700 | 68.0 | 34.0 |
| | Selenium | ND | 0.454 | 0.227 |
| | Silver | ND | 0.113 | 0.0567 |
| | Sodium | ND | 113 | 56.7 |
| # | Strontium | 16.8 | 0.567 | 0.284 |
| | Thallium | 0.239 | 0.113 | 0.0567 |
| | Tin | ND | 11.3 | 5.67 |
| | Titanium | 903 | 1.13 | 0.567 |
| | Vanadium | 30.7 | 0.113 | 0.0567 |
| | Zinc | 53.8 | 3.40 | 1.70 |
| | Lithium | 25.7 | 2.27 | 1.13 |
| | Phosphorus | 405 | 13.6 | 6.80 |
| | Zirconium | ND | 5.67 | 2.84 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/25/12 |
| SDG NO. : 12D166 | Date Extracted: 04/25/12 10:28 |
| Sample ID: MBLK1S | Date Analyzed: 04/30/12 15:49 |
| Lab Samp ID: IMD036SB | Dilution Factor: 1 |
| Lab File ID: 98D21040 | Matrix : SOIL |
| Ext Btch ID: IMD036S | % Moisture : NA |
| Calib. Ref.: 98D21038 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D166
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: NA
DILTN FACTR: 1 1 1
SAMPLE ID: MBLK1S
CONTROL NO.: IMD036SB IMD036SL IMD036SC
LAB FILE ID: 98D21040 98D21041 98D21042
DATIME EXTRCTD: 04/25/1210:28 04/25/1210:28 04/25/1210:28 DATE COLLECTED: NA
DATIME ANALYZD: 04/30/1215:49 04/30/1215:54 04/30/1215:58 DATE RECEIVED: 04/25/12
PREP. BATCH: IMD036S IMD036S IMD036S
CALIB. REF: 98D21038 98D21038 98D21038

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2590 | 104 | 2500 | 2610 | 104 | 1 | 80-120 | 20 |
| Antimony | ND | 25.0 | 26.4 | 105 | 25.0 | 26.4 | 105 | 0 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 25.9 | 104 | 25.0 | 25.5 | 102 | 2 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.3 | 101 | 25.0 | 25.2 | 101 | 0 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 24.7 | 99 | 25.0 | 24.2 | 97 | 2 | 80-120 | 20 |
| Boron | ND | 25.0 | 25.1 | 101 | 25.0 | 24.6 | 98 | 2 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 25.1 | 101 | 25.0 | 24.9 | 99 | 1 | 80-120 | 20 |
| Calcium | ND | 2500 | 2620 | 105 | 2500 | 2650 | 106 | 1 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.8 | 99 | 25.0 | 24.7 | 99 | 0 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 24.6 | 98 | 25.0 | 24.2 | 97 | 1 | 80-120 | 20 |
| Copper | ND | 25.0 | 24.1 | 97 | 25.0 | 24.2 | 97 | 0 | 80-120 | 20 |
| Iron | ND | 2500 | 2570 | 103 | 2500 | 2560 | 103 | 0 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.1 | 100 | 25.0 | 24.5 | 98 | 2 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2570 | 103 | 2500 | 2600 | 104 | 1 | 80-120 | 20 |
| Manganese | ND | 25.0 | 24.9 | 100 | 25.0 | 24.7 | 99 | 1 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 25.8 | 103 | 25.0 | 25.7 | 103 | 0 | 80-120 | 20 |
| Nickel | ND | 25.0 | 24.2 | 97 | 25.0 | 24.0 | 96 | 1 | 80-120 | 20 |
| Potassium | ND | 2500 | 2690 | 108 | 2500 | 2700 | 108 | 0 | 80-120 | 20 |
| Selenium | ND | 25.0 | 25.9 | 104 | 25.0 | 25.6 | 102 | 1 | 80-120 | 20 |
| Silver | ND | 25.0 | 25.3 | 101 | 25.0 | 25.1 | 101 | 1 | 80-120 | 20 |
| Sodium | ND | 2500 | 2620 | 105 | 2500 | 2650 | 106 | 1 | 80-120 | 20 |
| Strontium | ND | 25.0 | 26.9 | 108 | 25.0 | 26.9 | 108 | 0 | 80-120 | 20 |
| Thallium | ND | 25.0 | 25.5 | 102 | 25.0 | 25.4 | 102 | 0 | 80-120 | 20 |
| Tin | ND | 25.0 | 28.5 | 114 | 25.0 | 28.2 | 113 | 1 | 80-120 | 20 |
| Titanium | ND | 25.0 | 26.2 | 105 | 25.0 | 25.7 | 103 | 2 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 25.4 | 102 | 25.0 | 25.3 | 101 | 0 | 80-120 | 20 |
| Zinc | ND | 50.0 | 50.5 | 101 | 50.0 | 50.9 | 102 | 1 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.3 | 101 | 25.0 | 24.9 | 100 | 2 | 80-120 | 20 |
| Phosphorus | ND | 250 | 251 | 101 | 250 | 251 | 101 | 0 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 25.3 | 101 | 25.0 | 25.8 | 103 | 2 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D166
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 13.9
DILTN FACTR: 1.00 1.00
SAMPLE ID: SL-514-SA5C-SB-0.0-0.5
CONTROL NO.: D155-07 D155-07A
LAB FILE ID: 98D21046 98D21045
DATIME EXTRCTD: 04/25/1210:28 04/25/1210:28 DATE COLLECTED: 04/17/12
DATIME ANALYZD: 04/30/1216:16 04/30/1216:11 DATE RECEIVED: 04/17/12
PREP. BATCH: IMD036S IMD036S
CALIB. REF: 98D21038 98D21038

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 11000 | 2900 | 14100 | 107 | 75-125 |
| Antimony | 0.229J | 29.0 | 30.2 | 103 | 75-125 |
| Arsenic | 3.35 | 29.0 | 31.3 | 96 | 75-125 |
| Barium | 100 | 29.0 | 132 | 110 | 75-125 |
| Beryllium | 0.487 | 29.0 | 27.5 | 93 | 75-125 |
| Boron | ND | 29.0 | 30.3 | 104 | 75-125 |
| Cadmium | 0.306 | 29.0 | 28.5 | 97 | 75-125 |
| Calcium | 2210 | 2900 | 5160 | 101 | 75-125 |
| Chromium | 15.4 | 29.0 | 41.7 | 90 | 75-125 |
| Cobalt | 5.76 | 29.0 | 31.4 | 88 | 75-125 |
| Copper | 9.87 | 29.0 | 34.9 | 86 | 75-125 |
| Iron | 14400 | 2900 | 17300 | 98 | 75-125 |
| Lead | 13.7 | 29.0 | 40.9 | 94 | 75-125 |
| Magnesium | 2770 | 2900 | 5740 | 102 | 75-125 |
| Manganese | 286 | 29.0 | 312 | 93 | 75-125 |
| Molybdenum | 0.667 | 29.0 | 30.1 | 101 | 75-125 |
| Nickel | 10.3 | 29.0 | 35.6 | 87 | 75-125 |
| Potassium | 2670 | 2900 | 5600 | 101 | 75-125 |
| Selenium | ND | 29.0 | 28.5 | 98 | 75-125 |
| Silver | 0.0660J | 29.0 | 28.3 | 97 | 75-125 |
| Sodium | 65.7J | 2900 | 2880 | 97 | 75-125 |
| Strontium | 22.7 | 29.0 | 52.2 | 101 | 75-125 |
| Thallium | 0.227 | 29.0 | 28.4 | 97 | 75-125 |
| Tin | ND | 29.0 | 32.7 | 113 | 75-125 |
| Titanium | 652 | 29.0 | 694 | 144* | 75-125 |
| Vanadium | 30.3 | 29.0 | 57.5 | 94 | 75-125 |
| Zinc | 42.4 | 58.1 | 98.0 | 96 | 75-125 |
| Lithium | 9.05 | 29.0 | 37.7 | 99 | 75-125 |
| Phosphorus | 196 | 290 | 512 | 109 | 75-125 |
| Zirconium | ND | 29.0 | 28.9 | 100 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 13.9
DILUTION FACTOR: 1.00 5.00
SAMPLE ID: SL-514-SA5C-SB SL-514-SA5C-SB
EMAX SAMP ID: D155-07 D155-07J
LAB FILE ID: 98D21046 98D21047
DATE EXTRACTED: 04/25/1210:28 04/25/1210:28 DATE COLLECTED: 04/17/12
DATE ANALYZED: 04/30/1216:16 04/30/1216:20 DATE RECEIVED: 04/17/12
PREP. BATCH: IMD036S IMD036S
CALIB. REF: 98D21038 98D21038

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 11000 | 11300 | 3 | 10 |
| Antimony | 0.229J | ND | NA | 10 |
| Arsenic | 3.35 | 3.38 | 1 | 10 |
| Barium | 100 | 94.6 | 5 | 10 |
| Beryllium | 0.487 | 0.464J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.306 | ND | NA | 10 |
| Calcium | 2210 | 2300 | 4 | 10 |
| Chromium | 15.4 | 15.8 | 2 | 10 |
| Cobalt | 5.76 | 6.05 | 5 | 10 |
| Copper | 9.87 | 10.4 | 6 | 10 |
| Iron | 14400 | 15000 | 4 | 10 |
| Lead | 13.7 | 13.8 | 1 | 10 |
| Magnesium | 2770 | 2850 | 3 | 10 |
| Manganese | 286 | 301 | 5 | 10 |
| Molybdenum | 0.667 | 0.662 | 1 | 10 |
| Nickel | 10.3 | 10.7 | 4 | 10 |
| Potassium | 2670 | 2670 | 0 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | 0.0660J | ND | NA | 10 |
| Sodium | 65.7J | ND | NA | 10 |
| Strontium | 22.7 | 22.3 | 2 | 10 |
| Thallium | 0.227 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 652 | 652 | 0 | 10 |
| Vanadium | 30.3 | 30.9 | 2 | 10 |
| Zinc | 42.4 | 43.3 | 2 | 10 |
| Lithium | 9.05 | 8.92J | NA | 10 |
| Phosphorus | 196 | 203 | 4 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD025SB | ND | 1 | NA | 0.100 | 0.0500 | 04/24/1217:56 | 04/24/1213:30 | M47D017035 | M47D017032 | HGD025S | NA | 04/24/12 |
| LCS1S | HGD025SL | 0.863 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:58 | 04/24/1213:30 | M47D017036 | M47D017032 | HGD025S | NA | 04/24/12 |
| LCD1S | HGD025SC | 0.853 | 1 | NA | 0.100 | 0.0500 | 04/24/1218:00 | 04/24/1213:30 | M47D017037 | M47D017032 | HGD025S | NA | 04/24/12 |
| SL-008-NBZ-SB-4.0-5.0AS | D166-02A | 0.911 | 0.993 | 5.3 | 0.105 | 0.0524 | 04/24/1218:03 | 04/24/1213:30 | M47D017038 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 0.993 | 5.3 | 0.105 | 0.0524 | 04/24/1218:05 | 04/24/1213:30 | M47D017039 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DL | D166-02J | ND | 4.97 | 5.3 | 0.525 | 0.262 | 04/24/1218:07 | 04/24/1213:30 | M47D017040 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M | 0.920 | 0.992 | 5.3 | 0.105 | 0.0524 | 04/24/1218:09 | 04/24/1213:30 | M47D017041 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MSD | D166-02S | 0.921 | 0.995 | 5.3 | 0.105 | 0.0525 | 04/24/1218:11 | 04/24/1213:30 | M47D017042 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 0.998 | 16.0 | 0.119 | 0.0594 | 04/24/1218:13 | 04/24/1213:30 | M47D017043 | M47D017032 | HGD025S | 04/18/12 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 0.233 | 0.985 | 12.8 | 0.113 | 0.0565 | 04/24/1218:20 | 04/24/1213:30 | M47D017046 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1.01 | 12.1 | 0.115 | 0.0575 | 04/24/1218:22 | 04/24/1213:30 | M47D017047 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 0.0992J | 0.995 | 12.6 | 0.114 | 0.0569 | 04/24/1218:24 | 04/24/1213:30 | M47D017048 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1.00 | 13.0 | 0.115 | 0.0575 | 04/24/1218:26 | 04/24/1213:30 | M47D017049 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 0.995 | 10.8 | 0.112 | 0.0558 | 04/24/1218:28 | 04/24/1213:30 | M47D017050 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 0.997 | 12.7 | 0.114 | 0.0571 | 04/24/1218:30 | 04/24/1213:30 | M47D017051 | M47D017044 | HGD025S | 04/18/12 | 04/18/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D166
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGD025SB | HGD025SL | HGD025SC | | |
| LAB FILE ID: | M47D017035 | M47D017036 | M47D017037 | | |
| DATIME EXTRCTD: | 04/24/1213:30 | 04/24/1213:30 | 04/24/1213:30 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/24/1217:56 | 04/24/1217:58 | 04/24/1218:00 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | HGD025S | HGD025S | HGD025S | | |
| CALIB. REF: | M47D017032 | M47D017032 | M47D017032 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .863 | 104 | .833 | .853 | 102 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D166
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 5.3

| | | | | | |
|---|---|---|---|---|---|
| DILTN FACTR: | 0.993 | 0.992 | 0.995 | | |
| SAMPLE ID: | SL-008-NBZ-SB-4.0-5.0 | | | | |
| CONTROL NO.: | D166-02 | D166-02M | D166-02S | | |
| LAB FILE ID: | M47D017039 | M47D017041 | M47D017042 | | |
| DATIME EXTRCTD: | 04/24/1213:30 | 04/24/1213:30 | 04/24/1213:30 | DATE COLLECTED: | 04/18/12 |
| DATIME ANALYZD: | 04/24/1218:05 | 04/24/1218:09 | 04/24/1218:11 | DATE RECEIVED: | 04/18/12 |
| PREP. BATCH: | HGD025S | HGD025S | HGD025S | | |
| CALIB. REF: | M47D017032 | M47D017032 | M47D017032 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .873 | .92 | 105 | .875 | .921 | 105 | 0 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D166
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 5.3
DILTN FACTR: 0.993 0.993
SAMPLE ID: SL-008-NBZ-SB-4.0-5.0
CONTROL NO.: D166-02 D166-02A
LAB FILE ID: M47D017039 M47D017038
DATIME EXTRCTD: 04/24/1213:30 04/24/1213:30 DATE COLLECTED: 04/18/12
DATIME ANALYZD: 04/24/1218:05 04/24/1218:03 DATE RECEIVED: 04/18/12
PREP. BATCH: HGD025S HGD025S
CALIB. REF: M47D017032 M47D017032

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .873 | .911 | 104 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 5.3 |
| DILUTION FACTOR: | 0.993 | 4.97 | | |
| SAMPLE ID: | SL-008-NBZ-SB-4.0-5 | SL-008-NBZ-SB-4.0-5 | | |
| EMAX SAMP ID: | D166-02 | D166-02J | | |
| LAB FILE ID: | M47D017039 | M47D017040 | | |
| DATE EXTRACTED: | 04/24/1213:30 | 04/24/1213:30 | DATE COLLECTED: | 04/18/12 |
| DATE ANALYZED: | 04/24/1218:05 | 04/24/1218:07 | DATE RECEIVED: | 04/18/12 |
| PREP. BATCH: | HGD025S | HGD025S | | |
| CALIB. REF: | M47D017032 | M47D017032 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD010SB | ND | 1 | NA | 1.50 | 0.750 | 04/24/1220:12 | 04/23/1211:11 | AD31-39 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCS1S | ICD010SL | 13.6 | 1 | NA | 1.50 | 0.750 | 04/24/1220:28 | 04/23/1211:11 | AD31-40 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCD1S | ICD010SC | 13.5 | 1 | NA | 1.50 | 0.750 | 04/24/1220:44 | 04/23/1211:11 | AD31-41 | AD31-37 | ICD010S | NA | 04/23/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | 1.79 | 1 | 5.3 | 1.58 | 0.792 | 04/24/1221:00 | 04/23/1211:11 | AD31-42 | AD31-37 | ICD010S | 04/18/1209:55 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 1.85 | 1 | 12.8 | 1.72 | 0.860 | 04/24/1221:33 | 04/23/1211:11 | AD31-44 | AD31-37 | ICD010S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | 1.09J | 1 | 12.1 | 1.71 | 0.853 | 04/24/1221:49 | 04/23/1211:11 | AD31-45 | AD31-37 | ICD010S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 4.04 | 1 | 12.6 | 1.72 | 0.858 | 04/24/1222:05 | 04/23/1211:11 | AD31-46 | AD31-37 | ICD010S | 04/18/1214:06 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | 71.8 | 5 | 16.0 | 8.93 | 4.46 | 04/25/1209:56 | 04/23/1211:11 | AD31-90 | AD31-83 | ICD010S | 04/18/1210:00 | 04/18/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD010SB | ICD010SL | ICD010SC | | |
| LAB FILE ID: | AD31-39 | AD31-40 | AD31-41 | | |
| DATE EXTRACTED: | 04/23/1211:11 | 04/23/1211:11 | 04/23/1211:11 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/24/1220:12 | 04/24/1220:28 | 04/24/1220:44 | DATE RECEIVED: | 04/23/12 |
| PREP. BATCH: | ICD010S | ICD010S | ICD010S | | |
| CALIB. REF: | AD31-37 | AD31-37 | AD31-37 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 13.3 | 13.6 | 102 | 13.3 | 13.5 | 102 | 1 | 90-110 | 20 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD010SB | ND | 1 | NA | 1.00 | 0.500 | 04/24/1220:12 | 04/23/1211:11 | AD31-39 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCS1S | ICD010SL | 6.34 | 1 | NA | 1.00 | 0.500 | 04/24/1220:28 | 04/23/1211:11 | AD31-40 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCD1S | ICD010SC | 6.31 | 1 | NA | 1.00 | 0.500 | 04/24/1220:44 | 04/23/1211:11 | AD31-41 | AD31-37 | ICD010S | NA | 04/23/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 1.06 | 0.528 | 04/24/1221:00 | 04/23/1211:11 | AD31-42 | AD31-37 | ICD010S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 1 | 16.0 | 1.19 | 0.595 | 04/24/1221:16 | 04/23/1211:11 | AD31-43 | AD31-37 | ICD010S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 0.831J | 1 | 12.8 | 1.15 | 0.573 | 04/24/1221:33 | 04/23/1211:11 | AD31-44 | AD31-37 | ICD010S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | 1.26 | 1 | 12.1 | 1.14 | 0.569 | 04/24/1221:49 | 04/23/1211:11 | AD31-45 | AD31-37 | ICD010S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 0.692J | 1 | 12.6 | 1.14 | 0.572 | 04/24/1222:05 | 04/23/1211:11 | AD31-46 | AD31-37 | ICD010S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 1.15 | 0.575 | 04/24/1222:21 | 04/23/1211:11 | AD31-47 | AD31-37 | ICD010S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 1.12 | 0.561 | 04/24/1223:26 | 04/23/1211:11 | AD31-51 | AD31-49 | ICD010S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 1.15 | 0.573 | 04/24/1223:42 | 04/23/1211:11 | AD31-52 | AD31-49 | ICD010S | 04/18/1211:20 | 04/18/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD010SB | ICD010SL | ICD010SC | | |
| LAB FILE ID: | AD31-39 | AD31-40 | AD31-41 | | |
| DATE EXTRACTED: | 04/23/1211:11 | 04/23/1211:11 | 04/23/1211:11 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/24/1220:12 | 04/24/1220:28 | 04/24/1220:44 | DATE RECEIVED: | 04/23/12 |
| PREP. BATCH: | ICD010S | ICD010S | ICD010S | | |
| CALIB. REF: | AD31-37 | AD31-37 | AD31-37 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 6.34 | 106 | 6.00 | 6.31 | 105 | 1 | 90-110 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD018SB | ND | 1 | NA | 20.0 | 10.0 | 04/23/1221:48 | 04/23/1211:30 | JD23031 | JD23030 | PCD018S | NA | 04/23/12 |
| LCS1S | PCD018SL | 241 | 1 | NA | 20.0 | 10.0 | 04/23/1222:30 | 04/23/1211:30 | JD23033 | JD23030 | PCD018S | NA | 04/23/12 |
| LCD1S | PCD018SC | 243 | 1 | NA | 20.0 | 10.0 | 04/23/1222:51 | 04/23/1211:30 | JD23034 | JD23030 | PCD018S | NA | 04/23/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 21.1 | 10.6 | 04/23/1223:12 | 04/23/1211:30 | JD23035 | JD23030 | PCD018S | 04/18/1209:55 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | ND | 1 | 12.8 | 22.9 | 11.5 | 04/23/1223:54 | 04/23/1211:30 | JD23037 | JD23030 | PCD018S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1 | 12.1 | 22.8 | 11.4 | 04/24/1200:15 | 04/23/1211:30 | JD23038 | JD23030 | PCD018S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | ND | 1 | 12.6 | 22.9 | 11.4 | 04/24/1200:36 | 04/23/1211:30 | JD23039 | JD23030 | PCD018S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 23.0 | 11.5 | 04/24/1201:39 | 04/23/1211:30 | JD23042 | JD23041 | PCD018S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 22.4 | 11.2 | 04/24/1202:00 | 04/23/1211:30 | JD23043 | JD23041 | PCD018S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 22.9 | 11.5 | 04/24/1202:21 | 04/23/1211:30 | JD23044 | JD23041 | PCD018S | 04/18/1211:20 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 5 | 16.0 | 119 | 59.5 | 04/24/1210:44 | 04/23/1211:30 | JD23064 | JD23062 | PCD018S | 04/18/1210:00 | 04/18/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD018SB | PCD018SL | PCD018SC | | |
| LAB FILE ID: | JD23031 | JD23033 | JD23034 | | |
| DATE EXTRACTED: | 04/23/1211:30 | 04/23/1211:30 | 04/23/1211:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/23/1221:48 | 04/23/1222:30 | 04/23/1222:51 | DATE RECEIVED: | 04/23/12 |
| PREP. BATCH: | PCD018S | PCD018S | PCD018S | | |
| CALIB. REF: | JD23030 | JD23030 | JD23030 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 241 | 96 | 250 | 243 | 97 | 1 | 85-115 | 15 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD012SB | ND | 1 | NA | 1.00 | 0.500 | 04/25/1215:02 | 04/24/1216:57 | ID25003 | ID25001 | HCD012S | NA | 04/24/12 |
| MBLK1S | HCD012SQ | ND | 1 | NA | 1.00 | 0.500 | 04/25/1215:13 | 04/24/1216:57 | ID25004 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS1S | CID012SL | 337 | 20 | NA | 20.0 | 10.0 | 04/25/1215:44 | 04/24/1216:57 | ID25007 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS1S | CID012SX | 341 | 20 | NA | 20.0 | 10.0 | 04/25/1215:55 | 04/24/1216:57 | ID25008 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS2S | CSD012SL | 8.77 | 1 | NA | 1.00 | 0.500 | 04/25/1219:18 | 04/24/1216:57 | ID25023 | ID25013 | HCD012S | NA | 04/24/12 |
| LCS2S | CSD012SX | 8.57 | 1 | NA | 1.00 | 0.500 | 04/25/1219:28 | 04/24/1216:57 | ID25024 | ID25013 | HCD012S | NA | 04/24/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M | 9.82 | 1 | 5.3 | 1.06 | 0.528 | 04/25/1216:33 | 04/24/1216:57 | ID25009 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M1 | 9.75 | 1 | 5.3 | 1.06 | 0.528 | 04/25/1216:44 | 04/24/1216:57 | ID25010 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02G | 470 | 20 | 5.3 | 21.1 | 10.6 | 04/25/1216:54 | 04/24/1216:57 | ID25011 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02G1 | 495 | 20 | 5.3 | 21.1 | 10.6 | 04/25/1217:05 | 04/24/1216:57 | ID25012 | ID25001 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1217:54 | 04/24/1216:57 | ID25015 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02R | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:04 | 04/24/1216:57 | ID25016 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DUP | D166-02D | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:14 | 04/24/1216:57 | ID25017 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DUP | D166-02Z | ND | 1 | 5.3 | 1.06 | 0.528 | 04/25/1218:25 | 04/24/1216:57 | ID25018 | ID25013 | HCD012S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | ND | 1 | 16.0 | 1.19 | 0.595 | 04/25/1220:30 | 04/24/1216:57 | ID25029 | ID25025 | HCD012S | 04/18/1210:00 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03R | ND | 1 | 16.0 | 1.19 | 0.595 | 04/25/1220:41 | 04/24/1216:57 | ID25030 | ID25025 | HCD012S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | ND | 1 | 12.8 | 1.15 | 0.573 | 04/25/1220:51 | 04/24/1216:57 | ID25031 | ID25025 | HCD012S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04R | ND | 1 | 12.8 | 1.15 | 0.573 | 04/25/1221:02 | 04/24/1216:57 | ID25032 | ID25025 | HCD012S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1 | 12.1 | 1.14 | 0.569 | 04/25/1221:12 | 04/24/1216:57 | ID25033 | ID25025 | HCD012S | 04/18/1210:57 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06R | ND | 1 | 12.1 | 1.14 | 0.569 | 04/25/1221:22 | 04/24/1216:57 | ID25034 | ID25025 | HCD012S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | ND | 1 | 12.6 | 1.14 | 0.572 | 04/25/1221:33 | 04/24/1216:57 | ID25035 | ID25025 | HCD012S | 04/18/1214:06 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07R | ND | 1 | 12.6 | 1.14 | 0.572 | 04/25/1221:43 | 04/24/1216:57 | ID25036 | ID25025 | HCD012S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | ND | 1 | 13.0 | 1.15 | 0.575 | 04/25/1222:25 | 04/24/1216:57 | ID25039 | ID25037 | HCD012S | 04/18/1215:40 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08R | ND | 1 | 13.0 | 1.15 | 0.575 | 04/25/1222:35 | 04/24/1216:57 | ID25040 | ID25037 | HCD012S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | ND | 1 | 10.8 | 1.12 | 0.561 | 04/25/1222:46 | 04/24/1216:57 | ID25041 | ID25037 | HCD012S | 04/18/1214:25 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09R | ND | 1 | 10.8 | 1.12 | 0.561 | 04/25/1222:56 | 04/24/1216:57 | ID25042 | ID25037 | HCD012S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | ND | 1 | 12.7 | 1.15 | 0.573 | 04/25/1223:06 | 04/24/1216:57 | ID25043 | ID25037 | HCD012S | 04/18/1211:20 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10R | ND | 1 | 12.7 | 1.15 | 0.573 | 04/25/1223:17 | 04/24/1216:57 | ID25044 | ID25037 | HCD012S | 04/18/1211:20 | 04/18/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD012SB | CSD012SL | | |
| LAB FILE ID: | ID25003 | ID25023 | | |
| DATE EXTRACTED: | 04/24/1216:57 | 04/24/1216:57 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1215:02 | 04/25/1219:18 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | HCD012S | HCD012S | | |
| CALIB. REF: | ID25001 | ID25013 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 8.77 | 88 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD012SQ CSD012SX
LAB FILE ID: ID25004 ID25024
DATE EXTRACTED: 04/24/1216:57 04/24/1216:57 DATE COLLECTED: NA
DATE ANALYZED: 04/25/1215:13 04/25/1219:28 DATE RECEIVED: 04/24/12
PREP. BATCH: HCD012S HCD012S
CALIB. REF: ID25001 ID25013

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 8.57 | 86 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 20 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD012SB | CID012SL | | |
| LAB FILE ID: | ID25003 | ID25007 | | |
| DATE EXTRACTED: | 04/24/1216:57 | 04/24/1216:57 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1215:02 | 04/25/1215:44 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | HCD012S | HCD012S | | |
| CALIB. REF: | ID25001 | ID25001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 375 | 337 | 90 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD012SQ CID012SX
LAB FILE ID: ID25004 ID25008
DATE EXTRACTED: 04/24/1216:57 04/24/1216:57 DATE COLLECTED: NA
DATE ANALYZED: 04/25/1215:13 04/25/1215:55 DATE RECEIVED: 04/24/12
PREP. BATCH: HCD012S HCD012S
CALIB. REF: ID25001 ID25001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 375 | 341 | 91 | 80-120 |

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: 7199

MATRIX: SOIL % MOISTURE: 5.3
DILUTION FACTOR: 1 1
SAMPLE ID: SL-008-NBZ-SB-4.0-5.0
LAB SAMP ID: D166-02 D166-02M
LAB FILE ID: ID25015 ID25009
DATE EXTRACTED: 04/24/1216:57 04/24/1216:57 DATE COLLECTED: 04/18/12 09:55
DATE ANALYZED: 04/25/1217:54 04/25/1216:33 DATE RECEIVED: 04/18/12
PREP. BATCH: HCD012S HCD012S
CALIB. REF: ID25013 ID25001

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.6 | 9.82 | 93 | 75-125 |

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: 7199

MATRIX: SOIL % MOISTURE: 5.3
DILUTION FACTOR: 1 1
SAMPLE ID: SL-008-NBZ-SB-4.0-5.0
LAB SAMP ID: D166-02R D166-02M1
LAB FILE ID: ID25016 ID25010
DATE EXTRACTED: 04/24/1216:57 04/24/1216:57 DATE COLLECTED: 04/18/12 09:55
DATE ANALYZED: 04/25/1218:04 04/25/1216:44 DATE RECEIVED: 04/18/12
PREP. BATCH: HCD012S HCD012S
CALIB. REF: ID25013 ID25001

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.6 | 9.75 | 92 | 75-125 |

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 5.3 |
| DILUTION FACTOR: | 1 | 20 | | |
| SAMPLE ID: | SL-008-NBZ-SB-4.0-5.0 | | | |
| LAB SAMP ID: | D166-02 | D166-02G | | |
| LAB FILE ID: | ID25015 | ID25011 | | |
| DATE EXTRACTED: | 04/24/1216:57 | 04/24/1216:57 | DATE COLLECTED: | 04/18/12 09:55 |
| DATE ANALYZED: | 04/25/1217:54 | 04/25/1216:54 | DATE RECEIVED: | 04/18/12 |
| PREP. BATCH: | HCD012S | HCD012S | | |
| CALIB. REF: | ID25013 | ID25001 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 546 | 470 | 86 | 75-125 |

✓

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: 7199

MATRIX: SOIL % MOISTURE: 5.3
DILUTION FACTOR: 1 20
SAMPLE ID: SL-008-NBZ-SB-4.0-5.0
LAB SAMP ID: D166-02R D166-02G1
LAB FILE ID: ID25016 ID25012
DATE EXTRACTED: 04/24/1216:57 04/24/1216:57 DATE COLLECTED: 04/18/12 09:55
DATE ANALYZED: 04/25/1218:04 04/25/1217:05 DATE RECEIVED: 04/18/12
PREP. BATCH: HCD012S HCD012S
CALIB. REF: ID25013 ID25001

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 546 | 495 | 91 | 75-125 |

EMAX QUALITY CONTROL DATA
DUPLICATE SAMPLE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: 7199

MATRIX: SOIL % MOISTURE: 5.3

| | | |
|---|---|---|
| DILUTION FACTOR: | 1 | 1 |
| SAMPLE ID: | SL-008-NBZ-SB-4.0-5.0 | |
| EMAX SAMP ID: | D166-02 | D166-02D |
| LAB FILE ID: | ID25015 | ID25017 |
| DATE EXTRACTED: | 04/24/1216:57 | 04/24/1216:57 |
| DATE ANALYZED: | 04/25/1217:54 | 04/25/1218:14 |
| PREP. BATCH: | HCD012S | HCD012S |
| CALIB. REF: | ID25013 | ID25013 |

DATE COLLECTED: 04/18/12 09:55
DATE RECEIVED: 04/18/12

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | DUPL RSLT (mg/kg) | RPD RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Hexavalent Chromium | ND | ND | 0 | 20 |

EMAX QUALITY CONTROL DATA
DUPLICATE SAMPLE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D166
METHOD: 7199

MATRIX: SOIL % MOISTURE: 5.3

| | | |
|---|---|---|
| DILUTION FACTOR: | 1 | 1 |
| SAMPLE ID: | SL-008-NBZ-SB-4.0-5.0 | |
| EMAX SAMP ID: | D166-02R | D166-02Z |
| LAB FILE ID: | ID25016 | ID25018 |
| DATE EXTRACTED: | 04/24/1216:57 | 04/24/1216:57 |
| DATE ANALYZED: | 04/25/1218:04 | 04/25/1218:25 |
| PREP. BATCH: | HCD012S | HCD012S |
| CALIB. REF: | ID25013 | ID25013 |

DATE COLLECTED: 04/18/12 09:55
DATE RECEIVED: 04/18/12

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | DUPL RSLT (mg/kg) | RPD RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Hexavalent Chromium | ND | ND | 0 | 20 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166
Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CND011SB | ND | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01110 | CND01108 | CND011S | NA | 04/26/12 |
| LCS1S | CND011SL | 2.32 | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01111 | CND01108 | CND011S | NA | 04/26/12 |
| LCD1S | CND011SC | 2.34 | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01112 | CND01108 | CND011S | NA | 04/26/12 |
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | ND | 1 | 5.3 | 0.528 | 0.264 | 04/26/1218:51 | 04/26/1211:30 | CND01116 | CND01108 | CND011S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0DUP | D166-02D | ND | 1 | 5.3 | 0.528 | 0.264 | 04/26/1218:51 | 04/26/1211:30 | CND01117 | CND01108 | CND011S | 04/18/1209:55 | 04/18/12 |
| SL-008-NBZ-SB-4.0-5.0MS | D166-02M | 2.25 | 1 | 5.3 | 0.528 | 0.264 | 04/26/1218:51 | 04/26/1211:30 | CND01118 | CND01108 | CND011S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | 0.335J | 1 | 16.0 | 0.595 | 0.298 | 04/26/1218:52 | 04/26/1211:30 | CND01119 | CND01108 | CND011S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | ND | 1 | 12.8 | 0.573 | 0.287 | 04/26/1218:52 | 04/26/1211:30 | CND01122 | CND01120 | CND011S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | ND | 1 | 12.1 | 0.569 | 0.284 | 04/26/1218:53 | 04/26/1211:30 | CND01123 | CND01120 | CND011S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | ND | 1 | 12.6 | 0.572 | 0.286 | 04/26/1218:53 | 04/26/1211:30 | CND01124 | CND01120 | CND011S | 04/18/1214:06 | 04/18/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D166
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CND011SL/C

DATE RECEIVED: 04/26/12
DATE EXTRACTED: 04/26/1211:30
DATE ANALYZED: 04/26/1218:49/18:49

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.32 | 93 | 2.50 | 2.34 | 94 | 1 | 85-125 | 20 |

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: 5.3

BATCH NO.: 12D166 DATE RECEIVED: 04/18/12
SAMPLE ID: SL-008-NBZ-SB-4.0-5.0MS DATE EXTRACTED: 04/26/1211:30
CONTROL NO.: D166-02M DATE ANALYZED: 04/26/1218:51

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Cyanide | ND | 2.60 | 2.25 | 87 | 75-125 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: 5.3

BATCH NO.: 12D166 DATE RECEIVED: 04/18/12
SAMPLE ID: SL-008-NBZ-SB-4.0-5.0DUP DATE EXTRACTED: 04/26/1211:30
CONTROL NO.: D166-02D DATE ANALYZED: 04/26/1218:51

ACCESSION:

| PARAMETER | SAMPLE (mg/kg) | DUP. SAMPLE (mg/kg) | RPD ( % ) | RPD LIMIT ( % ) |
|---|---|---|---|---|
| Cyanide | ND | ND | 0 | 20 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D166
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-008-NBZ-SB-4.0-5.0 | D166-02 | 6.55 | 1 | NA | NA | NA | 04/19/1217:45 | 04/19/1217:32 | 12PHD021S08 | PHD021S | PHD021S | 04/18/1209:55 | 04/18/12 |
| SL-081-NBZ-SS-0.0-0.5 | D166-03 | 6.50 | 1 | NA | NA | NA | 04/19/1217:46 | 04/19/1217:32 | 12PHD021S09 | PHD021S | PHD021S | 04/18/1210:00 | 04/18/12 |
| SL-082-NBZ-SS-0.0-0.5 | D166-04 | 6.52 | 1 | NA | NA | NA | 04/19/1217:47 | 04/19/1217:32 | 12PHD021S10 | PHD021S | PHD021S | 04/18/1210:53 | 04/18/12 |
| SL-082-NBZ-SB-2.5-3.5 | D166-06 | 6.72 | 1 | NA | NA | NA | 04/19/1217:52 | 04/19/1217:32 | 12PHD021S11 | PHD021S | PHD021S | 04/18/1210:57 | 04/18/12 |
| SL-083-NBZ-SS-0.0-0.5 | D166-07 | 6.95 | 1 | NA | NA | NA | 04/19/1217:54 | 04/19/1217:32 | 12PHD021S12 | PHD021S | PHD021S | 04/18/1214:06 | 04/18/12 |
| SL-146-NBZ-SS-0.0-0.5 | D166-08 | 7.19 | 1 | NA | NA | NA | 04/19/1217:55 | 04/19/1217:32 | 12PHD021S13 | PHD021S | PHD021S | 04/18/1215:40 | 04/18/12 |
| SL-160-NBZ-SS-0.0-0.5 | D166-09 | 6.25 | 1 | NA | NA | NA | 04/19/1217:57 | 04/19/1217:32 | 12PHD021S14 | PHD021S | PHD021S | 04/18/1214:25 | 04/18/12 |
| SL-189-NBZ-SS-0.0-0.5 | D166-10 | 6.71 | 1 | NA | NA | NA | 04/19/1217:59 | 04/19/1217:32 | 12PHD021S15 | PHD021S | PHD021S | 04/18/1211:20 | 04/18/12 |

# SAMPLE DELIVERY GROUP

# 12D176

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 11:58 |
| Sample ID: TB-041912 | Date Analyzed: 04/26/12 11:58 |
| Lab Samp ID: D176-14 | Dilution Factor: 1 |
| Lab File ID: RDV328 | Matrix : WATER |
| Ext Btch ID: VO01D15 | % Moisture : NA |
| Calib. Ref.: RBV366 | Instrument ID : T-O01 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,1-TRICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,2-TRICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROETHENE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| 1,2,3-TRICHLOROBENZENE | ND | 1.0 | 0.30 |
| 1,2,3-TRICHLOROPROPANE | ND | 2.0 | 0.50 |
| 1,2,4-TRICHLOROBENZENE | ND | 1.0 | 0.30 |
| 1,2,4-TRIMETHYLBENZENE | ND | 1.0 | 0.20 |
| 1,2-DIBROMO-3-CHLOROPROPANE | ND | 2.0 | 0.50 |
| 1,2-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 1,2-DICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,2-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 1,2-DIBROMOETHANE (EDB) | ND | 1.0 | 0.20 |
| 1,3,5-TRIMETHYLBENZENE | ND | 1.0 | 0.20 |
| 1,3-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 1,4-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 2,2-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 2-CHLOROTOLUENE | ND | 1.0 | 0.20 |
| 4-CHLOROTOLUENE | ND | 1.0 | 0.20 |
| BENZENE | ND | 1.0 | 0.20 |
| BROMOBENZENE | ND | 1.0 | 0.20 |
| BROMOCHLOROMETHANE | ND | 1.0 | 0.20 |
| BROMODICHLOROMETHANE | ND | 1.0 | 0.20 |
| BROMOFORM | ND | 1.0 | 0.30 |
| BROMOMETHANE | ND | 1.0 | 0.30 |
| CARBON TETRACHLORIDE | ND | 1.0 | 0.20 |
| CHLOROBENZENE | ND | 1.0 | 0.20 |
| CHLOROETHANE | ND | 1.0 | 0.30 |
| CHLOROFORM | ND | 1.0 | 0.20 |
| CHLOROMETHANE | ND | 1.0 | 0.30 |
| CIS-1,2-DICHLOROETHENE | ND | 1.0 | 0.20 |
| CIS-1,3-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| DIBROMOCHLOROMETHANE | ND | 1.0 | 0.20 |
| DIBROMOMETHANE | ND | 1.0 | 0.20 |
| DICHLORODIFLUOROMETHANE | ND | 1.0 | 0.30 |
| ETHYLBENZENE | ND | 1.0 | 0.20 |
| HEXACHLOROBUTADIENE | ND | 1.0 | 0.30 |
| ISOPROPYL BENZENE | ND | 1.0 | 0.20 |
| M,P-XYLENE | ND | 2.0 | 0.40 |
| METHYL TERT-BUTYL ETHER (MTBE) | ND | 1.0 | 0.20 |
| METHYLENE CHLORIDE | ND | 1.0 | 0.50 |
| N-BUTYLBENZENE | ND | 1.0 | 0.20 |
| N-PROPYLBENZENE | ND | 1.0 | 0.20 |
| O-XYLENE | ND | 1.0 | 0.20 |
| P-ISOPROPYLTOLUENE | ND | 1.0 | 0.20 |
| SEC-BUTYLBENZENE | ND | 1.0 | 0.20 |
| STYRENE | ND | 1.0 | 0.20 |
| TERT-BUTYLBENZENE | ND | 1.0 | 0.20 |
| TETRACHLOROETHENE | ND | 1.0 | 0.20 |
| TOLUENE | ND | 1.0 | 0.20 |
| TRANS-1,2-DICHLOROETHENE | ND | 1.0 | 0.20 |
| TRANS-1,3-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| TRICHLOROETHENE | ND | 1.0 | 0.20 |
| TRICHLOROFLUOROMETHANE | ND | 1.0 | 0.30 |
| VINYL CHLORIDE | ND | 1.0 | 0.20 |
| ACETONE | ND | 10 | 5.0 |
| 2-BUTANONE (MEK) | ND | 10 | 4.0 |
| 2-HEXANONE | ND | 10 | 4.0 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 10 | 4.0 |
| FREON113 | ND | 1.0 | 0.30 |
| 2-CHLOROETHYL VINYL ETHER | ND | 2.0 | 1.0 |
| 2-CHLORO-1,1,1-TRIFLUOROETHANE | ND | 1.0 | 0.20 |
| CHLOROTRIFLUOROETHYLENE | ND | 1.0 | 0.20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 10.5 | 10.00 | 105 | 80-120 |
| 4-BROMOFLUOROBENZENE | 10.2 | 10.00 | 102 | 86-115 |
| TOLUENE-D8 | 10.1 | 10.00 | 101 | 88-110 |
| DIBROMOFLUOROMETHANE | 9.94 | 10.00 | 99.4 | 86-118 |

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/26/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 10:58 |
| Sample ID: MBLK1W | Date Analyzed: 04/26/12 10:58 |
| Lab Samp ID: VO01D15B | Dilution Factor: 1 |
| Lab File ID: RDV326 | Matrix : WATER |
| Ext Btch ID: VO01D15 | % Moisture : NA |
| Calib. Ref.: RBV366 | Instrument ID : T-O01 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,1-TRICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1,2-TRICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROETHENE | ND | 1.0 | 0.20 |
| 1,1-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| 1,2,3-TRICHLOROBENZENE | ND | 1.0 | 0.30 |
| 1,2,3-TRICHLOROPROPANE | ND | 2.0 | 0.50 |
| 1,2,4-TRICHLOROBENZENE | ND | 1.0 | 0.30 |
| 1,2,4-TRIMETHYLBENZENE | ND | 1.0 | 0.20 |
| 1,2-DIBROMO-3-CHLOROPROPANE | ND | 2.0 | 0.50 |
| 1,2-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 1,2-DICHLOROETHANE | ND | 1.0 | 0.20 |
| 1,2-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 1,2-DIBROMOETHANE (EDB) | ND | 1.0 | 0.20 |
| 1,3,5-TRIMETHYLBENZENE | ND | 1.0 | 0.20 |
| 1,3-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 1,3-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 1,4-DICHLOROBENZENE | ND | 1.0 | 0.20 |
| 2,2-DICHLOROPROPANE | ND | 1.0 | 0.20 |
| 2-CHLOROTOLUENE | ND | 1.0 | 0.20 |
| 4-CHLOROTOLUENE | ND | 1.0 | 0.20 |
| BENZENE | ND | 1.0 | 0.20 |
| BROMOBENZENE | ND | 1.0 | 0.20 |
| BROMOCHLOROMETHANE | ND | 1.0 | 0.20 |
| BROMODICHLOROMETHANE | ND | 1.0 | 0.20 |
| BROMOFORM | ND | 1.0 | 0.30 |
| BROMOMETHANE | ND | 1.0 | 0.30 |
| CARBON TETRACHLORIDE | ND | 1.0 | 0.20 |
| CHLOROBENZENE | ND | 1.0 | 0.20 |
| CHLOROETHANE | ND | 1.0 | 0.30 |
| CHLOROFORM | ND | 1.0 | 0.20 |
| CHLOROMETHANE | ND | 1.0 | 0.30 |
| CIS-1,2-DICHLOROETHENE | ND | 1.0 | 0.20 |
| CIS-1,3-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| DIBROMOCHLOROMETHANE | ND | 1.0 | 0.20 |
| DIBROMOMETHANE | ND | 1.0 | 0.20 |
| DICHLORODIFLUOROMETHANE | ND | 1.0 | 0.30 |
| ETHYLBENZENE | ND | 1.0 | 0.20 |
| HEXACHLOROBUTADIENE | ND | 1.0 | 0.30 |
| ISOPROPYL BENZENE | ND | 1.0 | 0.20 |
| M,P-XYLENE | ND | 2.0 | 0.40 |
| METHYL TERT-BUTYL ETHER (MTBE) | ND | 1.0 | 0.20 |
| METHYLENE CHLORIDE | ND | 1.0 | 0.50 |
| N-BUTYLBENZENE | ND | 1.0 | 0.20 |
| N-PROPYLBENZENE | ND | 1.0 | 0.20 |
| O-XYLENE | ND | 1.0 | 0.20 |
| P-ISOPROPYLTOLUENE | ND | 1.0 | 0.20 |
| SEC-BUTYLBENZENE | ND | 1.0 | 0.20 |
| STYRENE | ND | 1.0 | 0.20 |
| TERT-BUTYLBENZENE | ND | 1.0 | 0.20 |
| TETRACHLOROETHENE | ND | 1.0 | 0.20 |
| TOLUENE | ND | 1.0 | 0.20 |
| TRANS-1,2-DICHLOROETHENE | ND | 1.0 | 0.20 |
| TRANS-1,3-DICHLOROPROPENE | ND | 1.0 | 0.20 |
| TRICHLOROETHENE | ND | 1.0 | 0.20 |
| TRICHLOROFLUOROMETHANE | ND | 1.0 | 0.30 |
| VINYL CHLORIDE | ND | 1.0 | 0.20 |
| ACETONE | ND | 10 | 5.0 |
| 2-BUTANONE (MEK) | ND | 10 | 4.0 |
| 2-HEXANONE | ND | 10 | 4.0 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 10 | 4.0 |
| FREON113 | ND | 1.0 | 0.30 |
| 2-CHLOROETHYL VINYL ETHER | ND | 2.0 | 1.0 |
| 2-CHLORO-1,1,1-TRIFLUOROETHANE | ND | 1.0 | 0.20 |
| CHLOROTRIFLUOROETHYLENE | ND | 1.0 | 0.20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 10.7 | 10.00 | 107 | 80-120 |
| 4-BROMOFLUOROBENZENE | 10.0 | 10.00 | 100 | 86-115 |
| TOLUENE-D8 | 9.86 | 10.00 | 98.6 | 88-110 |
| DIBROMOFLUOROMETHANE | 10.2 | 10.00 | 102 | 86-118 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VO01D15B | VO01D15L | VO01D15C | | |
| LAB FILE ID: | RDV326 | RDV323 | RDV324 | | |
| DATE EXTRACTED: | 04/26/1210:58 | 04/26/1209:34 | 04/26/1210:02 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/26/1210:58 | 04/26/1209:34 | 04/26/1210:02 | DATE RECEIVED: | 04/26/12 |
| PREP. BATCH: | VO01D15 | VO01D15 | VO01D15 | | |
| CALIB. REF: | RBV366 | RBV366 | RBV366 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 10.0 | 9.72 | 97 | 10.0 | 9.66 | 97 | 1 | 70-130 | 30 |
| 1,1,1-Trichloroethane | ND | 10.0 | 9.84 | 98 | 10.0 | 9.64 | 96 | 2 | 70-130 | 30 |
| 1,1,2,2-Tetrachloroethane | ND | 10.0 | 9.72 | 97 | 10.0 | 9.66 | 97 | 1 | 70-130 | 30 |
| 1,1,2-Trichloroethane | ND | 10.0 | 9.75 | 97 | 10.0 | 9.71 | 97 | 0 | 70-130 | 30 |
| 1,1-Dichloroethane | ND | 10.0 | 9.76 | 98 | 10.0 | 9.64 | 96 | 1 | 70-130 | 30 |
| 1,1-Dichloroethene | ND | 10.0 | 8.59 | 86 | 10.0 | 8.70 | 87 | 1 | 60-130 | 30 |
| 1,1-Dichloropropene | ND | 10.0 | 8.83 | 88 | 10.0 | 8.64 | 86 | 2 | 70-140 | 30 |
| 1,2,3-Trichlorobenzene | ND | 10.0 | 10.2 | 102 | 10.0 | 10.5 | 105 | 2 | 60-130 | 30 |
| 1,2,3-Trichloropropane | ND | 10.0 | 9.98 | 100 | 10.0 | 9.93 | 99 | 0 | 70-140 | 30 |
| 1,2,4-Trichlorobenzene | ND | 10.0 | 10.4 | 104 | 10.0 | 10.6 | 106 | 2 | 60-140 | 30 |
| 1,2,4-Trimethylbenzene | ND | 10.0 | 9.77 | 98 | 10.0 | 9.52 | 95 | 3 | 70-130 | 30 |
| 1,2-Dibromo-3-chloropropane | ND | 10.0 | 8.89 | 89 | 10.0 | 9.29 | 93 | 4 | 60-130 | 30 |
| 1,2-Dichlorobenzene | ND | 10.0 | 9.86 | 99 | 10.0 | 9.75 | 97 | 1 | 70-130 | 30 |
| 1,2-Dichloroethane | ND | 10.0 | 10.4 | 104 | 10.0 | 10.0 | 100 | 4 | 70-130 | 30 |
| 1,2-Dichloropropane | ND | 10.0 | 9.69 | 97 | 10.0 | 9.43 | 94 | 3 | 70-130 | 30 |
| 1,2-Dibromoethane (EDB) | ND | 10.0 | 9.11 | 91 | 10.0 | 9.15 | 91 | 0 | 70-140 | 30 |
| 1,3,5-Trimethylbenzene | ND | 10.0 | 9.66 | 97 | 10.0 | 9.41 | 94 | 3 | 70-130 | 30 |
| 1,3-Dichlorobenzene | ND | 10.0 | 9.35 | 94 | 10.0 | 9.35 | 93 | 0 | 70-130 | 30 |
| 1,3-Dichloropropane | ND | 10.0 | 9.12 | 91 | 10.0 | 9.00 | 90 | 1 | 70-130 | 30 |
| 1,4-Dichlorobenzene | ND | 10.0 | 9.43 | 94 | 10.0 | 9.36 | 94 | 1 | 70-130 | 30 |
| 2,2-Dichloropropane | ND | 10.0 | 9.68 | 97 | 10.0 | 9.39 | 94 | 3 | 50-140 | 30 |
| 2-Chlorotoluene | ND | 10.0 | 9.47 | 95 | 10.0 | 9.24 | 92 | 2 | 70-130 | 30 |
| 4-Chlorotoluene | ND | 10.0 | 9.67 | 97 | 10.0 | 9.51 | 95 | 2 | 70-130 | 30 |
| Benzene | ND | 10.0 | 8.81 | 88 | 10.0 | 8.51 | 85 | 3 | 70-130 | 30 |
| Bromobenzene | ND | 10.0 | 9.27 | 93 | 10.0 | 9.10 | 91 | 2 | 70-130 | 30 |
| Bromochloromethane | ND | 10.0 | 9.76 | 98 | 10.0 | 9.75 | 98 | 0 | 70-130 | 30 |
| Bromodichloromethane | ND | 10.0 | 9.28 | 93 | 10.0 | 9.14 | 91 | 2 | 70-130 | 30 |
| Bromoform | ND | 10.0 | 9.53 | 95 | 10.0 | 9.49 | 95 | 0 | 60-140 | 30 |
| Bromomethane | ND | 10.0 | 10.4 | 104 | 10.0 | 10.6 | 106 | 2 | 50-140 | 30 |
| Carbon Tetrachloride | ND | 10.0 | 9.76 | 98 | 10.0 | 9.48 | 95 | 3 | 70-130 | 30 |
| Chlorobenzene | ND | 10.0 | 9.65 | 96 | 10.0 | 9.63 | 96 | 0 | 70-120 | 30 |
| Chloroethane | ND | 10.0 | 11.0 | 110 | 10.0 | 11.0 | 110 | 0 | 70-140 | 30 |
| Chloroform | ND | 10.0 | 9.99 | 100 | 10.0 | 9.83 | 98 | 2 | 70-130 | 30 |
| Chloromethane | ND | 10.0 | 9.84 | 98 | 10.0 | 9.71 | 97 | 1 | 60-130 | 30 |
| cis-1,2-Dichloroethene | ND | 10.0 | 8.21 | 82 | 10.0 | 8.24 | 82 | 0 | 70-130 | 30 |
| cis-1,3-Dichloropropene | ND | 10.0 | 9.07 | 91 | 10.0 | 8.95 | 90 | 1 | 70-130 | 30 |
| Dibromochloromethane | ND | 10.0 | 9.40 | 94 | 10.0 | 9.44 | 94 | 0 | 70-130 | 30 |
| Dibromomethane | ND | 10.0 | 9.44 | 94 | 10.0 | 9.55 | 95 | 1 | 70-140 | 30 |
| Dichlorodifluoromethane | ND | 10.0 | 8.75 | 88 | 10.0 | 8.73 | 87 | 0 | 50-140 | 30 |
| Ethylbenzene | ND | 10.0 | 9.58 | 96 | 10.0 | 9.33 | 93 | 3 | 70-130 | 30 |
| Hexachlorobutadiene | ND | 10.0 | 11.3 | 113 | 10.0 | 11.3 | 113 | 0 | 60-140 | 30 |
| Isopropyl Benzene | ND | 10.0 | 10.6 | 106 | 10.0 | 10.3 | 103 | 4 | 70-150 | 30 |
| m,p-Xylene | ND | 20.0 | 18.7 | 94 | 20.0 | 18.2 | 91 | 3 | 70-130 | 30 |
| Methyl tert-butyl Ether (MTBE) | ND | 10.0 | 8.84 | 88 | 10.0 | 9.18 | 92 | 4 | 70-140 | 30 |
| Methylene Chloride | ND | 10.0 | 9.38 | 94 | 10.0 | 9.10 | 91 | 3 | 70-130 | 30 |
| n-Butylbenzene | ND | 10.0 | 10.3 | 103 | 10.0 | 10.0 | 100 | 3 | 60-130 | 30 |
| n-Propylbenzene | ND | 10.0 | 9.52 | 95 | 10.0 | 9.20 | 92 | 3 | 70-140 | 30 |
| o-Xylene | ND | 10.0 | 9.24 | 92 | 10.0 | 9.12 | 91 | 1 | 70-130 | 30 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | ND | 10.0 | 10.4 | 104 | 10.0 | 10.4 | 104 | 1 | 70-140 | 30 |
| Sec-Butylbenzene | ND | 10.0 | 10.0 | 100 | 10.0 | 9.64 | 96 | 4 | 70-130 | 30 |
| Styrene | ND | 10.0 | 9.81 | 98 | 10.0 | 9.73 | 97 | 1 | 70-130 | 30 |
| Tert-Butylbenzene | ND | 10.0 | 9.51 | 95 | 10.0 | 9.22 | 92 | 3 | 70-130 | 30 |
| Tetrachloroethene | ND | 10.0 | 8.59 | 86 | 10.0 | 8.32 | 83 | 3 | 70-130 | 30 |
| Toluene | ND | 10.0 | 8.96 | 90 | 10.0 | 8.80 | 88 | 2 | 70-130 | 30 |
| Trans-1,2-Dichloroethene | ND | 10.0 | 8.26 | 83 | 10.0 | 8.16 | 82 | 1 | 70-130 | 30 |
| Trans-1,3-Dichloropropene | ND | 10.0 | 9.17 | 92 | 10.0 | 9.07 | 91 | 1 | 70-140 | 30 |
| Trichloroethene | ND | 10.0 | 8.90 | 89 | 10.0 | 8.68 | 87 | 3 | 70-130 | 30 |
| Trichlorofluoromethane | ND | 10.0 | 11.0 | 110 | 10.0 | 11.0 | 110 | 0 | 70-140 | 30 |
| Vinyl Chloride | ND | 10.0 | 10.1 | 101 | 10.0 | 10.0 | 100 | 1 | 60-150 | 30 |
| Acetone | ND | 50.0 | 55.5 | 111 | 50.0 | 56.7 | 113 | 2 | 50-150 | 30 |
| 2-Butanone (MEK) | ND | 50.0 | 53.1 | 106 | 50.0 | 55.7 | 111 | 5 | 60-140 | 30 |
| 2-Hexanone | ND | 50.0 | 52.7 | 105 | 50.0 | 53.9 | 108 | 2 | 70-140 | 30 |
| 4-Methyl-2-Pentanone (MIBK) | ND | 50.0 | 52.8 | 106 | 50.0 | 52.7 | 105 | 0 | 60-140 | 30 |
| Freon113 | ND | 10.0 | 9.71 | 97 | 10.0 | 9.91 | 99 | 2 | 70-140 | 30 |
| 2-Chloroethyl Vinyl Ether | ND | 10.0 | 10.2 | 102 | 10.0 | 10.7 | 107 | 5 | 30-160 | 30 |
| 2-Chloro-1,1,1-trifluoroethane | ND | 10.0 | 11.8 | 118 | 10.0 | 12.1 | 121 | 3 | 50-150 | 30 |
| Chlorotrifluoroethylene | ND | 10.0 | 9.41 | 94 | 10.0 | 9.84 | 98 | 4 | 50-150 | 30 |

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| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 10.0 | 10.9 | 109 | 10.0 | 10.9 | 109 | 80-120 |
| 4-Bromofluorobenzene | 10.0 | 9.43 | 94 | 10.0 | 9.19 | 92 | 86-115 |
| Toluene-d8 | 10.0 | 9.74 | 97 | 10.0 | 9.71 | 97 | 88-110 |
| Dibromofluoromethane | 10.0 | 10.2 | 102 | 10.0 | 10.2 | 102 | 86-118 |

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 11:14 |
| Sample ID: SL-012-NBZ-SB-1.0 | Date Analyzed: 04/26/12 11:14 |
| Lab Samp ID: D176-02 | Dilution Factor: 0.82 |
| Lab File ID: RDB280 | Matrix : SOIL |
| Ext Btch ID: VO03D16 | % Moisture : 13.4 |
| Calib. Ref.: RBB256 | Instrument ID : T-O03 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | ND | 4.7 | 0.95 |
| 1,1,1-TRICHLOROETHANE | ND | 4.7 | 0.95 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 4.7 | 0.95 |
| 1,1,2-TRICHLOROETHANE | ND | 4.7 | 0.95 |
| 1,1-DICHLOROETHANE | ND | 4.7 | 0.95 |
| 1,1-DICHLOROETHENE | ND | 4.7 | 0.95 |
| 1,1-DICHLOROPROPENE | ND | 4.7 | 0.95 |
| 1,2,3-TRICHLOROBENZENE | ND | 4.7 | 1.9 |
| 1,2,3-TRICHLOROPROPANE | ND | 4.7 | 1.9 |
| 1,2,4-TRICHLOROBENZENE | ND | 4.7 | 1.9 |
| 1,2,4-TRIMETHYLBENZENE | ND | 4.7 | 0.95 |
| 1,2-DIBROMO-3-CHLOROPROPANE | ND | 4.7 | 1.9 |
| 1,2-DICHLOROBENZENE | ND | 4.7 | 0.95 |
| 1,2-DICHLOROETHANE | ND | 4.7 | 0.95 |
| 1,2-DICHLOROPROPANE | ND | 4.7 | 0.95 |
| 1,2-DIBROMOETHANE (EDB) | ND | 4.7 | 0.95 |
| 1,3,5-TRIMETHYLBENZENE | ND | 4.7 | 0.95 |
| 1,3-DICHLOROBENZENE | ND | 4.7 | 0.95 |
| 1,3-DICHLOROPROPANE | ND | 4.7 | 0.95 |
| 1,4-DICHLOROBENZENE | ND | 4.7 | 0.95 |
| 2,2-DICHLOROPROPANE | ND | 4.7 | 1.9 |
| 2-CHLOROTOLUENE | ND | 4.7 | 0.95 |
| 4-CHLOROTOLUENE | ND | 4.7 | 0.95 |
| BENZENE | ND | 4.7 | 0.95 |
| BROMOBENZENE | ND | 4.7 | 0.95 |
| BROMOCHLOROMETHANE | ND | 4.7 | 0.95 |
| BROMODICHLOROMETHANE | ND | 4.7 | 0.95 |
| BROMOFORM | ND | 4.7 | 1.9 |
| BROMOMETHANE | ND | 4.7 | 1.9 |
| CARBON TETRACHLORIDE | ND | 4.7 | 0.95 |
| CHLOROBENZENE | ND | 4.7 | 0.95 |
| CHLOROETHANE | ND | 4.7 | 1.9 |
| CHLOROFORM | ND | 4.7 | 0.95 |
| CHLOROMETHANE | ND | 4.7 | 1.9 |
| CIS-1,2-DICHLOROETHENE | ND | 4.7 | 0.95 |
| CIS-1,3-DICHLOROPROPENE | ND | 4.7 | 0.95 |
| DIBROMOCHLOROMETHANE | ND | 4.7 | 0.95 |
| DIBROMOMETHANE | ND | 4.7 | 0.95 |
| DICHLORODIFLUOROMETHANE | ND | 4.7 | 1.9 |
| ETHYLBENZENE | ND | 4.7 | 0.95 |
| HEXACHLOROBUTADIENE | ND | 4.7 | 1.9 |
| ISOPROPYL BENZENE | ND | 4.7 | 0.95 |
| M,P-XYLENE | ND | 4.7 | 1.9 |
| METHYL TERT-BUTYL ETHER (MTBE) | ND | 4.7 | 0.95 |
| METHYLENE CHLORIDE | ND | 4.7 | 1.9 |
| N-BUTYLBENZENE | ND | 4.7 | 0.95 |
| N-PROPYLBENZENE | ND | 4.7 | 0.95 |
| O-XYLENE | ND | 4.7 | 0.95 |
| P-ISOPROPYLTOLUENE | ND | 4.7 | 0.95 |
| SEC-BUTYLBENZENE | ND | 4.7 | 0.95 |
| STYRENE | ND | 4.7 | 0.95 |
| TERT-BUTYLBENZENE | ND | 4.7 | 0.95 |
| TETRACHLOROETHENE | ND | 4.7 | 0.95 |
| TOLUENE | ND | 4.7 | 0.95 |
| TRANS-1,2-DICHLOROETHENE | ND | 4.7 | 0.95 |
| TRANS-1,3-DICHLOROPROPENE | ND | 4.7 | 0.95 |
| TRICHLOROETHENE | ND | 4.7 | 0.95 |
| TRICHLOROFLUOROMETHANE | ND | 4.7 | 1.9 |
| VINYL CHLORIDE | ND | 4.7 | 1.9 |
| ACETONE | ND | 9.5 | 4.7 |
| 2-BUTANONE (MEK) | ND | 9.5 | 4.7 |
| 2-HEXANONE | ND | 9.5 | 4.7 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 9.5 | 4.7 |
| FREON113 | ND | 4.7 | 1.9 |
| 2-CHLOROETHYL VINYL ETHER | ND | 4.7 | 1.9 |
| 2-CHLORO-1,1,1-TRIFLUOROETHANE | ND | 4.7 | 1.9 |
| CHLOROTRIFLUOROETHYLENE | ND | 4.7 | 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 45.3 | 47.34 | 95.7 | 80-120 |
| 4-BROMOFLUOROBENZENE | 47.2 | 47.34 | 99.7 | 74-121 |
| TOLUENE-D8 | 44.5 | 47.34 | 94.0 | 81-117 |
| DIBROMOFLUOROMETHANE | 50.1 | 47.34 | 106 | 80-120 |

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 11:47 |
| Sample ID: SL-087-NBZ-SS-0.5 | Date Analyzed: 04/26/12 11:47 |
| Lab Samp ID: D176-06 | Dilution Factor: 0.92 |
| Lab File ID: RDB281 | Matrix : SOIL |
| Ext Btch ID: VO03D16 | % Moisture : 22.7 |
| Calib. Ref.: RBB256 | Instrument ID : T-O03 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | ND | 6.0 | 1.2 |
| 1,1,1-TRICHLOROETHANE | ND | 6.0 | 1.2 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 6.0 | 1.2 |
| 1,1,2-TRICHLOROETHANE | ND | 6.0 | 1.2 |
| 1,1-DICHLOROETHANE | ND | 6.0 | 1.2 |
| 1,1-DICHLOROETHENE | ND | 6.0 | 1.2 |
| 1,1-DICHLOROPROPENE | ND | 6.0 | 1.2 |
| 1,2,3-TRICHLOROBENZENE | ND | 6.0 | 2.4 |
| 1,2,3-TRICHLOROPROPANE | ND | 6.0 | 2.4 |
| 1,2,4-TRICHLOROBENZENE | ND | 6.0 | 2.4 |
| 1,2,4-TRIMETHYLBENZENE | ND | 6.0 | 1.2 |
| 1,2-DIBROMO-3-CHLOROPROPANE | ND | 6.0 | 2.4 |
| 1,2-DICHLOROBENZENE | ND | 6.0 | 1.2 |
| 1,2-DICHLOROETHANE | ND | 6.0 | 1.2 |
| 1,2-DICHLOROPROPANE | ND | 6.0 | 1.2 |
| 1,2-DIBROMOETHANE (EDB) | ND | 6.0 | 1.2 |
| 1,3,5-TRIMETHYLBENZENE | ND | 6.0 | 1.2 |
| 1,3-DICHLOROBENZENE | ND | 6.0 | 1.2 |
| 1,3-DICHLOROPROPANE | ND | 6.0 | 1.2 |
| 1,4-DICHLOROBENZENE | ND | 6.0 | 1.2 |
| 2,2-DICHLOROPROPANE | ND | 6.0 | 2.4 |
| 2-CHLOROTOLUENE | ND | 6.0 | 1.2 |
| 4-CHLOROTOLUENE | ND | 6.0 | 1.2 |
| BENZENE | ND | 6.0 | 1.2 |
| BROMOBENZENE | ND | 6.0 | 1.2 |
| BROMOCHLOROMETHANE | ND | 6.0 | 1.2 |
| BROMODICHLOROMETHANE | ND | 6.0 | 1.2 |
| BROMOFORM | ND | 6.0 | 2.4 |
| BROMOMETHANE | ND | 6.0 | 2.4 |
| CARBON TETRACHLORIDE | ND | 6.0 | 1.2 |
| CHLOROBENZENE | ND | 6.0 | 1.2 |
| CHLOROETHANE | ND | 6.0 | 2.4 |
| CHLOROFORM | ND | 6.0 | 1.2 |
| CHLOROMETHANE | ND | 6.0 | 2.4 |
| CIS-1,2-DICHLOROETHENE | ND | 6.0 | 1.2 |
| CIS-1,3-DICHLOROPROPENE | ND | 6.0 | 1.2 |
| DIBROMOCHLOROMETHANE | ND | 6.0 | 1.2 |
| DIBROMOMETHANE | ND | 6.0 | 1.2 |
| DICHLORODIFLUOROMETHANE | ND | 6.0 | 2.4 |
| ETHYLBENZENE | ND | 6.0 | 1.2 |
| HEXACHLOROBUTADIENE | ND | 6.0 | 2.4 |
| ISOPROPYL BENZENE | ND | 6.0 | 1.2 |
| M,P-XYLENE | ND | 6.0 | 2.4 |
| METHYL TERT-BUTYL ETHER (MTBE) | ND | 6.0 | 1.2 |
| METHYLENE CHLORIDE | ND | 6.0 | 2.4 |
| N-BUTYLBENZENE | ND | 6.0 | 1.2 |
| N-PROPYLBENZENE | ND | 6.0 | 1.2 |
| O-XYLENE | ND | 6.0 | 1.2 |
| P-ISOPROPYLTOLUENE | ND | 6.0 | 1.2 |
| SEC-BUTYLBENZENE | ND | 6.0 | 1.2 |
| STYRENE | ND | 6.0 | 1.2 |
| TERT-BUTYLBENZENE | ND | 6.0 | 1.2 |
| TETRACHLOROETHENE | ND | 6.0 | 1.2 |
| TOLUENE | ND | 6.0 | 1.2 |
| TRANS-1,2-DICHLOROETHENE | ND | 6.0 | 1.2 |
| TRANS-1,3-DICHLOROPROPENE | ND | 6.0 | 1.2 |
| TRICHLOROETHENE | ND | 6.0 | 1.2 |
| TRICHLOROFLUOROMETHANE | ND | 6.0 | 2.4 |
| VINYL CHLORIDE | ND | 6.0 | 2.4 |
| ACETONE | ND | 12 | 6.0 |
| 2-BUTANONE (MEK) | ND | 12 | 6.0 |
| 2-HEXANONE | ND | 12 | 6.0 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 12 | 6.0 |
| FREON113 | ND | 6.0 | 2.4 |
| 2-CHLOROETHYL VINYL ETHER | ND | 6.0 | 2.4 |
| 2-CHLORO-1,1,1-TRIFLUOROETHANE | ND | 6.0 | 2.4 |
| CHLOROTRIFLUOROETHYLENE | ND | 6.0 | 2.4 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 59.1 | 59.51 | 99.3 | 80-120 |
| 4-BROMOFLUOROBENZENE | 69.1 | 59.51 | 116 | 74-121 |
| TOLUENE-D8 | 62.2 | 59.51 | 105 | 81-117 |
| DIBROMOFLUOROMETHANE | 64.1 | 59.51 | 108 | 80-120 |

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/26/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 10:08 |
| Sample ID: MBLK1S | Date Analyzed: 04/26/12 10:08 |
| Lab Samp ID: VO03D16B | Dilution Factor: 1 |
| Lab File ID: RDB278 | Matrix : SOIL |
| Ext Btch ID: VO03D16 | % Moisture : NA |
| Calib. Ref.: RBB256 | Instrument ID : T-O03 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1,1-TRICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1,2-TRICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1-DICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1-DICHLOROETHENE | ND | 5.0 | 1.0 |
| 1,1-DICHLOROPROPENE | ND | 5.0 | 1.0 |
| 1,2,3-TRICHLOROBENZENE | ND | 5.0 | 2.0 |
| 1,2,3-TRICHLOROPROPANE | ND | 5.0 | 2.0 |
| 1,2,4-TRICHLOROBENZENE | ND | 5.0 | 2.0 |
| 1,2,4-TRIMETHYLBENZENE | ND | 5.0 | 1.0 |
| 1,2-DIBROMO-3-CHLOROPROPANE | ND | 5.0 | 2.0 |
| 1,2-DICHLOROBENZENE | ND | 5.0 | 1.0 |
| 1,2-DICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,2-DICHLOROPROPANE | ND | 5.0 | 1.0 |
| 1,2-DIBROMOETHANE (EDB) | ND | 5.0 | 1.0 |
| 1,3,5-TRIMETHYLBENZENE | ND | 5.0 | 1.0 |
| 1,3-DICHLOROBENZENE | ND | 5.0 | 1.0 |
| 1,3-DICHLOROPROPANE | ND | 5.0 | 1.0 |
| 1,4-DICHLOROBENZENE | ND | 5.0 | 1.0 |
| 2,2-DICHLOROPROPANE | ND | 5.0 | 2.0 |
| 2-CHLOROTOLUENE | ND | 5.0 | 1.0 |
| 4-CHLOROTOLUENE | ND | 5.0 | 1.0 |
| BENZENE | ND | 5.0 | 1.0 |
| BROMOBENZENE | ND | 5.0 | 1.0 |
| BROMOCHLOROMETHANE | ND | 5.0 | 1.0 |
| BROMODICHLOROMETHANE | ND | 5.0 | 1.0 |
| BROMOFORM | ND | 5.0 | 2.0 |
| BROMOMETHANE | ND | 5.0 | 2.0 |
| CARBON TETRACHLORIDE | ND | 5.0 | 1.0 |
| CHLOROBENZENE | ND | 5.0 | 1.0 |
| CHLOROETHANE | ND | 5.0 | 2.0 |
| CHLOROFORM | ND | 5.0 | 1.0 |
| CHLOROMETHANE | ND | 5.0 | 2.0 |
| CIS-1,2-DICHLOROETHENE | ND | 5.0 | 1.0 |
| CIS-1,3-DICHLOROPROPENE | ND | 5.0 | 1.0 |
| DIBROMOCHLOROMETHANE | ND | 5.0 | 1.0 |
| DIBROMOMETHANE | ND | 5.0 | 1.0 |
| DICHLORODIFLUOROMETHANE | ND | 5.0 | 2.0 |
| ETHYLBENZENE | ND | 5.0 | 1.0 |
| HEXACHLOROBUTADIENE | ND | 5.0 | 2.0 |
| ISOPROPYL BENZENE | ND | 5.0 | 1.0 |
| M,P-XYLENE | ND | 5.0 | 2.0 |
| METHYL TERT-BUTYL ETHER (MTBE) | ND | 5.0 | 1.0 |
| METHYLENE CHLORIDE | ND | 5.0 | 2.0 |
| N-BUTYLBENZENE | ND | 5.0 | 1.0 |
| N-PROPYLBENZENE | ND | 5.0 | 1.0 |
| O-XYLENE | ND | 5.0 | 1.0 |
| P-ISOPROPYLTOLUENE | ND | 5.0 | 1.0 |
| SEC-BUTYLBENZENE | ND | 5.0 | 1.0 |
| STYRENE | ND | 5.0 | 1.0 |
| TERT-BUTYLBENZENE | ND | 5.0 | 1.0 |
| TETRACHLOROETHENE | ND | 5.0 | 1.0 |
| TOLUENE | ND | 5.0 | 1.0 |
| TRANS-1,2-DICHLOROETHENE | ND | 5.0 | 1.0 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.0 | 1.0 |
| TRICHLOROETHENE | ND | 5.0 | 1.0 |
| TRICHLOROFLUOROMETHANE | ND | 5.0 | 2.0 |
| VINYL CHLORIDE | ND | 5.0 | 2.0 |
| ACETONE | ND | 10 | 5.0 |
| 2-BUTANONE (MEK) | ND | 10 | 5.0 |
| 2-HEXANONE | ND | 10 | 5.0 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 10 | 5.0 |
| FREON113 | ND | 5.0 | 2.0 |
| 2-CHLOROETHYL VINYL ETHER | ND | 5.0 | 2.0 |
| 2-CHLORO-1,1,1-TRIFLUOROETHANE | ND | 5.0 | 2.0 |
| CHLOROTRIFLUOROETHYLENE | ND | 5.0 | 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 46.0 | 50.00 | 92.1 | 80-120 |
| 4-BROMOFLUOROBENZENE | 48.4 | 50.00 | 96.8 | 74-121 |
| TOLUENE-D8 | 45.7 | 50.00 | 91.5 | 81-117 |
| DIBROMOFLUOROMETHANE | 51.8 | 50.00 | 104 | 80-120 |

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/26/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 10:40 |
| Sample ID: MBLK2S | Date Analyzed: 04/26/12 10:40 |
| Lab Samp ID: VPD020SB | Dilution Factor: 1 |
| Lab File ID: RDB279 | Matrix : SOIL |
| Ext Btch ID: VO03D16 | % Moisture : NA |
| Calib. Ref.: RBB256 | Instrument ID : T-003 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1,1-TRICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1,2-TRICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1-DICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,1-DICHLOROETHENE | ND | 5.0 | 1.0 |
| 1,1-DICHLOROPROPENE | ND | 5.0 | 1.0 |
| 1,2,3-TRICHLOROBENZENE | ND | 5.0 | 2.0 |
| 1,2,3-TRICHLOROPROPANE | ND | 5.0 | 2.0 |
| 1,2,4-TRICHLOROBENZENE | ND | 5.0 | 2.0 |
| 1,2,4-TRIMETHYLBENZENE | ND | 5.0 | 1.0 |
| 1,2-DIBROMO-3-CHLOROPROPANE | ND | 5.0 | 2.0 |
| 1,2-DICHLOROBENZENE | ND | 5.0 | 1.0 |
| 1,2-DICHLOROETHANE | ND | 5.0 | 1.0 |
| 1,2-DICHLOROPROPANE | ND | 5.0 | 1.0 |
| 1,2-DIBROMOETHANE (EDB) | ND | 5.0 | 1.0 |
| 1,3,5-TRIMETHYLBENZENE | ND | 5.0 | 1.0 |
| 1,3-DICHLOROBENZENE | ND | 5.0 | 1.0 |
| 1,3-DICHLOROPROPANE | ND | 5.0 | 1.0 |
| 1,4-DICHLOROBENZENE | ND | 5.0 | 1.0 |
| 2,2-DICHLOROPROPANE | ND | 5.0 | 2.0 |
| 2-CHLOROTOLUENE | ND | 5.0 | 1.0 |
| 4-CHLOROTOLUENE | ND | 5.0 | 1.0 |
| BENZENE | ND | 5.0 | 1.0 |
| BROMOBENZENE | ND | 5.0 | 1.0 |
| BROMOCHLOROMETHANE | ND | 5.0 | 1.0 |
| BROMODICHLOROMETHANE | ND | 5.0 | 1.0 |
| BROMOFORM | ND | 5.0 | 2.0 |
| BROMOMETHANE | ND | 5.0 | 2.0 |
| CARBON TETRACHLORIDE | ND | 5.0 | 1.0 |
| CHLOROBENZENE | ND | 5.0 | 1.0 |
| CHLOROETHANE | ND | 5.0 | 2.0 |
| CHLOROFORM | ND | 5.0 | 1.0 |
| CHLOROMETHANE | ND | 5.0 | 2.0 |
| CIS-1,2-DICHLOROETHENE | ND | 5.0 | 1.0 |
| CIS-1,3-DICHLOROPROPENE | ND | 5.0 | 1.0 |
| DIBROMOCHLOROMETHANE | ND | 5.0 | 1.0 |
| DIBROMOMETHANE | ND | 5.0 | 1.0 |
| DICHLORODIFLUOROMETHANE | ND | 5.0 | 2.0 |
| ETHYLBENZENE | ND | 5.0 | 1.0 |
| HEXACHLOROBUTADIENE | ND | 5.0 | 2.0 |
| ISOPROPYL BENZENE | ND | 5.0 | 1.0 |
| M,P-XYLENE | ND | 5.0 | 2.0 |
| METHYL TERT-BUTYL ETHER (MTBE) | ND | 5.0 | 1.0 |
| METHYLENE CHLORIDE | ND | 5.0 | 2.0 |
| N-BUTYLBENZENE | ND | 5.0 | 1.0 |
| N-PROPYLBENZENE | ND | 5.0 | 1.0 |
| O-XYLENE | ND | 5.0 | 1.0 |
| P-ISOPROPYLTOLUENE | ND | 5.0 | 1.0 |
| SEC-BUTYLBENZENE | ND | 5.0 | 1.0 |
| STYRENE | ND | 5.0 | 1.0 |
| TERT-BUTYLBENZENE | ND | 5.0 | 1.0 |
| TETRACHLOROETHENE | ND | 5.0 | 1.0 |
| TOLUENE | ND | 5.0 | 1.0 |
| TRANS-1,2-DICHLOROETHENE | ND | 5.0 | 1.0 |
| TRANS-1,3-DICHLOROPROPENE | ND | 5.0 | 1.0 |
| TRICHLOROETHENE | ND | 5.0 | 1.0 |
| TRICHLOROFLUOROMETHANE | ND | 5.0 | 2.0 |
| VINYL CHLORIDE | ND | 5.0 | 2.0 |
| ACETONE | ND | 10 | 5.0 |
| 2-BUTANONE (MEK) | ND | 10 | 5.0 |
| 2-HEXANONE | ND | 10 | 5.0 |
| 4-METHYL-2-PENTANONE (MIBK) | ND | 10 | 5.0 |
| FREON113 | ND | 5.0 | 2.0 |
| 2-CHLOROETHYL VINYL ETHER | ND | 5.0 | 2.0 |
| 2-CHLORO-1,1,1-TRIFLUOROETHANE | ND | 5.0 | 2.0 |
| CHLOROTRIFLUOROETHYLENE | ND | 5.0 | 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 48.8 | 50.00 | 97.7 | 80-120 |
| 4-BROMOFLUOROBENZENE | 47.5 | 50.00 | 95.1 | 74-121 |
| TOLUENE-D8 | 47.0 | 50.00 | 94.1 | 81-117 |
| DIBROMOFLUOROMETHANE | 53.3 | 50.00 | 107 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 5035/8260B

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: VO03D16B VO03D16L VO03D16C
LAB FILE ID: RDB278 RDB275 RDB276
DATE EXTRACTED: 04/26/1210:08 04/26/1208:31 04/26/1209:04 DATE COLLECTED: NA
DATE ANALYZED: 04/26/1210:08 04/26/1208:31 04/26/1209:04 DATE RECEIVED: 04/26/12
PREP. BATCH: VO03D16 VO03D16 VO03D16
CALIB. REF: RBB256 RBB256 RBB256

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 50.0 | 47.4 | 95 | 50.0 | 46.8 | 94 | 1 | 70-130 | 50 |
| 1,1,1-Trichloroethane | ND | 50.0 | 46.1 | 92 | 50.0 | 47.1 | 94 | 2 | 60-130 | 50 |
| 1,1,2,2-Tetrachloroethane | ND | 50.0 | 52.8 | 106 | 50.0 | 50.9 | 102 | 4 | 70-150 | 50 |
| 1,1,2-Trichloroethane | ND | 50.0 | 50.1 | 100 | 50.0 | 49.2 | 98 | 2 | 70-140 | 50 |
| 1,1-Dichloroethane | ND | 50.0 | 53.5 | 107 | 50.0 | 53.4 | 107 | 0 | 70-140 | 50 |
| 1,1-Dichloroethene | ND | 50.0 | 51.0 | 102 | 50.0 | 50.4 | 101 | 1 | 60-130 | 50 |
| 1,1-Dichloropropene | ND | 50.0 | 48.1 | 96 | 50.0 | 50.2 | 100 | 4 | 70-130 | 50 |
| 1,2,3-Trichlorobenzene | ND | 50.0 | 39.0 | 78 | 50.0 | 38.1 | 76 | 2 | 60-150 | 50 |
| 1,2,3-Trichloropropane | ND | 50.0 | 50.8 | 102 | 50.0 | 50.1 | 100 | 2 | 60-150 | 50 |
| 1,2,4-Trichlorobenzene | ND | 50.0 | 43.7 | 87 | 50.0 | 43.2 | 86 | 1 | 60-140 | 50 |
| 1,2,4-Trimethylbenzene | ND | 50.0 | 41.6 | 83 | 50.0 | 42.1 | 84 | 1 | 70-130 | 50 |
| 1,2-Dibromo-3-chloropropane | ND | 50.0 | 46.0 | 92 | 50.0 | 43.4 | 87 | 6 | 50-150 | 50 |
| 1,2-Dichlorobenzene | ND | 50.0 | 49.9 | 100 | 50.0 | 49.9 | 100 | 0 | 70-130 | 50 |
| 1,2-Dichloroethane | ND | 50.0 | 43.3 | 87 | 50.0 | 43.1 | 86 | 0 | 60-140 | 50 |
| 1,2-Dichloropropane | ND | 50.0 | 50.3 | 101 | 50.0 | 49.5 | 99 | 2 | 70-130 | 50 |
| 1,2-Dibromoethane (EDB) | ND | 50.0 | 46.7 | 93 | 50.0 | 45.6 | 91 | 2 | 50-150 | 50 |
| 1,3,5-Trimethylbenzene | ND | 50.0 | 41.6 | 83 | 50.0 | 43.0 | 86 | 3 | 70-130 | 50 |
| 1,3-Dichlorobenzene | ND | 50.0 | 51.4 | 103 | 50.0 | 51.7 | 103 | 0 | 70-130 | 50 |
| 1,3-Dichloropropane | ND | 50.0 | 52.9 | 106 | 50.0 | 51.3 | 103 | 3 | 70-140 | 50 |
| 1,4-Dichlorobenzene | ND | 50.0 | 50.6 | 101 | 50.0 | 52.3 | 105 | 3 | 70-130 | 50 |
| 2,2-Dichloropropane | ND | 50.0 | 45.6 | 91 | 50.0 | 48.9 | 98 | 7 | 40-140 | 50 |
| 2-Chlorotoluene | ND | 50.0 | 42.7 | 85 | 50.0 | 43.0 | 86 | 1 | 70-130 | 50 |
| 4-Chlorotoluene | ND | 50.0 | 42.9 | 86 | 50.0 | 44.2 | 88 | 3 | 70-130 | 50 |
| Benzene | ND | 50.0 | 48.5 | 97 | 50.0 | 49.4 | 99 | 2 | 70-130 | 50 |
| Bromobenzene | ND | 50.0 | 47.4 | 95 | 50.0 | 48.4 | 97 | 2 | 70-130 | 50 |
| Bromochloromethane | ND | 50.0 | 54.3 | 109 | 50.0 | 54.2 | 108 | 0 | 60-150 | 50 |
| Bromodichloromethane | ND | 50.0 | 47.4 | 95 | 50.0 | 47.0 | 94 | 1 | 60-130 | 50 |
| Bromoform | ND | 50.0 | 53.7 | 107 | 50.0 | 53.0 | 106 | 1 | 60-130 | 50 |
| Bromomethane | ND | 50.0 | 40.4 | 81 | 50.0 | 52.7 | 105 | 26 | 40-160 | 50 |
| Carbon Tetrachloride | ND | 50.0 | 41.4 | 83 | 50.0 | 42.0 | 84 | 1 | 50-130 | 50 |
| Chlorobenzene | ND | 50.0 | 47.3 | 95 | 50.0 | 47.5 | 95 | 0 | 70-130 | 50 |
| Chloroethane | ND | 50.0 | 43.2 | 86 | 50.0 | 53.5 | 107 | 21 | 60-150 | 50 |
| Chloroform | ND | 50.0 | 52.0 | 104 | 50.0 | 51.8 | 104 | 0 | 70-130 | 50 |
| Chloromethane | ND | 50.0 | 46.5 | 93 | 50.0 | 54.7 | 109 | 16 | 50-150 | 50 |
| cis-1,2-Dichloroethene | ND | 50.0 | 55.7 | 111 | 50.0 | 56.5 | 113 | 1 | 70-130 | 50 |
| cis-1,3-Dichloropropene | ND | 50.0 | 50.5 | 101 | 50.0 | 50.4 | 101 | 0 | 60-130 | 50 |
| Dibromochloromethane | ND | 50.0 | 51.6 | 103 | 50.0 | 50.4 | 101 | 2 | 70-130 | 50 |
| Dibromomethane | ND | 50.0 | 49.2 | 98 | 50.0 | 48.3 | 97 | 2 | 70-130 | 50 |
| Dichlorodifluoromethane | ND | 50.0 | 38.2 | 76 | 50.0 | 42.9 | 86 | 12 | 50-130 | 50 |
| Ethylbenzene | ND | 50.0 | 46.5 | 93 | 50.0 | 46.2 | 92 | 1 | 70-130 | 50 |
| Hexachlorobutadiene | ND | 50.0 | 38.3 | 77 | 50.0 | 39.5 | 79 | 3 | 50-140 | 50 |
| Isopropyl Benzene | ND | 50.0 | 42.6 | 85 | 50.0 | 44.1 | 88 | 4 | 70-140 | 50 |
| m,p-Xylene | ND | 100 | 90.2 | 90 | 100 | 90.1 | 90 | 0 | 70-140 | 50 |
| Methyl tert-butyl Ether (MTBE) | ND | 50.0 | 54.5 | 109 | 50.0 | 54.8 | 110 | 1 | 60-150 | 50 |
| Methylene Chloride | ND | 50.0 | 52.4 | 105 | 50.0 | 52.9 | 106 | 1 | 70-130 | 50 |
| n-Butylbenzene | ND | 50.0 | 45.5 | 91 | 50.0 | 46.6 | 93 | 2 | 50-150 | 50 |
| n-Propylbenzene | ND | 50.0 | 47.5 | 95 | 50.0 | 48.6 | 97 | 2 | 70-130 | 50 |
| o-Xylene | ND | 50.0 | 45.6 | 91 | 50.0 | 45.4 | 91 | 0 | 70-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | ND | 50.0 | 43.1 | 86 | 50.0 | 44.2 | 88 | 3 | 60-140 | 50 |
| Sec-Butylbenzene | ND | 50.0 | 43.7 | 87 | 50.0 | 44.6 | 89 | 2 | 70-130 | 50 |
| Styrene | ND | 50.0 | 47.9 | 96 | 50.0 | 47.9 | 96 | 0 | 60-140 | 50 |
| Tert-Butylbenzene | ND | 50.0 | 48.3 | 97 | 50.0 | 49.7 | 99 | 3 | 70-130 | 50 |
| Tetrachloroethene | ND | 50.0 | 48.5 | 97 | 50.0 | 48.8 | 98 | 1 | 70-130 | 50 |
| Toluene | ND | 50.0 | 46.0 | 92 | 50.0 | 46.2 | 92 | 1 | 70-130 | 50 |
| Trans-1,2-Dichloroethene | ND | 50.0 | 49.2 | 98 | 50.0 | 48.7 | 97 | 1 | 70-130 | 50 |
| Trans-1,3-Dichloropropene | ND | 50.0 | 50.4 | 101 | 50.0 | 49.8 | 100 | 1 | 60-140 | 50 |
| Trichloroethene | ND | 50.0 | 49.3 | 99 | 50.0 | 48.7 | 97 | 1 | 70-130 | 50 |
| Trichlorofluoromethane | ND | 50.0 | 36.6 | 73 | 50.0 | 43.1 | 86 | 16 | 70-140 | 50 |
| Vinyl Chloride | ND | 50.0 | 54.7 | 109 | 50.0 | 61.3 | 123 | 11 | 60-150 | 50 |
| Acetone | ND | 250 | 261 | 104 | 250 | 242 | 97 | 7 | 40-160 | 50 |
| 2-Butanone (MEK) | ND | 250 | 272 | 109 | 250 | 253 | 101 | 7 | 50-160 | 50 |
| 2-Hexanone | ND | 250 | 243 | 97 | 250 | 218 | 87 | 11 | 60-160 | 50 |
| 4-Methyl-2-Pentanone (MIBK) | ND | 250 | 239 | 96 | 250 | 218 | 87 | 10 | 70-160 | 50 |
| Freon113 | ND | 50.0 | 54.5 | 109 | 50.0 | 56.3 | 113 | 3 | 50-140 | 50 |
| 2-Chloroethyl Vinyl Ether | ND | 50.0 | 40.2 | 80 | 50.0 | 38.2 | 76 | 5 | 50-150 | 50 |
| 2-Chloro-1,1,1-trifluoroethane | ND | 50.0 | 54.2 | 108 | 50.0 | 60.5 | 121 | 11 | 50-150 | 50 |
| Chlorotrifluoroethylene | ND | 50.0 | 45.6 | 91 | 50.0 | 55.1 | 110 | 19 | 50-150 | 50 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 50.0 | 45.5 | 91 | 50.0 | 44.5 | 89 | 80-120 |
| 4-Bromofluorobenzene | 50.0 | 49.0 | 98 | 50.0 | 49.3 | 99 | 74-121 |
| Toluene-d8 | 50.0 | 46.2 | 92 | 50.0 | 45.9 | 92 | 81-117 |
| Dibromofluoromethane | 50.0 | 52.4 | 105 | 50.0 | 51.6 | 103 | 80-120 |

METHOD 5030B/8260B SIM
VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/25/12 18:45 |
| Sample ID: TB-041912 | Date Analyzed: 04/25/12 18:45 |
| Lab Samp ID: D176-14 | Dilution Factor: 1 |
| Lab File ID: RDY050 | Matrix : WATER |
| Ext Btch ID: VOF5D04 | % Moisture : NA |
| Calib. Ref.: RKY092 | Instrument ID : TOF5 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,4-DIOXANE | ND | 4.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 4.10 | 5.000 | 81.9 | 50-150 |

METHOD 5030B/8260B SIM
VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/25/12 |
| Batch No. : 12D176 | Date Extracted: 04/25/12 18:15 |
| Sample ID: MBLK1W | Date Analyzed: 04/25/12 18:15 |
| Lab Samp ID: VOF5D04B | Dilution Factor: 1 |
| Lab File ID: RDY049 | Matrix : WATER |
| Ext Btch ID: VOF5D04 | % Moisture : NA |
| Calib. Ref.: RKY092 | Instrument ID : TOF5 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,4-DIOXANE | ND | 4.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 3.95 | 5.000 | 79.1 | 50-150 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: 5030B/8260B SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VOF5D04B | VOF5D04L | VOF5D04C | | |
| LAB FILE ID: | RDY049 | RDY046 | RDY047 | | |
| DATE EXTRACTED: | 04/25/1218:15 | 04/25/1216:44 | 04/25/1217:14 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1218:15 | 04/25/1216:44 | 04/25/1217:14 | DATE RECEIVED: | 04/25/12 |
| PREP. BATCH: | VOF5D04 | VOF5D04 | VOF5D04 | | |
| CALIB. REF: | RKY092 | RKY092 | RKY092 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ND | 50.0 | 46.3 | 93 | 50.0 | 44.5 | 89 | 4 | 50-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 5.00 | 4.24 | 85 | 5.00 | 4.17 | 83 | 50-150 |

METHOD 5035/8260B SIM
VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/25/12 14:23 |
| Sample ID: SL-012-NBZ-SB-1.0 | Date Analyzed: 04/25/12 14:23 |
| Lab Samp ID: D176-02 | Dilution Factor: 0.81 |
| Lab File ID: RDY042 | Matrix : SOIL |
| Ext Btch ID: VOF5D03 | % Moisture : 13.4 |
| Calib. Ref.: RJY282 | Instrument ID : TOF5 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,4-DIOXANE | ND | 9.4 | 4.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 15.4 | 18.71 | 82.5 | 50-150 |

METHOD 5035/8260B SIM
VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/25/12 14:54 |
| Sample ID: SL-087-NBZ-SS-0.5 | Date Analyzed: 04/25/12 14:54 |
| Lab Samp ID: D176-06 | Dilution Factor: 0.97 |
| Lab File ID: RDY043 | Matrix : SOIL |
| Ext Btch ID: VOF5D03 | % Moisture : 22.7 |
| Calib. Ref.: RJY282 | Instrument ID : TOF5 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,4-DIOXANE | ND | 13 | 6.3 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 21.3 | 25.10 | 84.8 | 50-150 |

METHOD 5035/8260B SIM
VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/25/12 |
| Batch No. : 12D176 | Date Extracted: 04/25/12 13:22 |
| Sample ID: MBLK1S | Date Analyzed: 04/25/12 13:22 |
| Lab Samp ID: VOF5D03B | Dilution Factor: 1 |
| Lab File ID: RDY040 | Matrix : SOIL |
| Ext Btch ID: VOF5D03 | % Moisture : NA |
| Calib. Ref.: RJY282 | Instrument ID : TOF5 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,4-DIOXANE | ND | 10 | 5.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 15.8 | 20.00 | 79.2 | 50-150 |

METHOD 5035/8260B SIM
VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/25/12 |
| Batch No. : 12D176 | Date Extracted: 04/25/12 13:53 |
| Sample ID: MBLK2S | Date Analyzed: 04/25/12 13:53 |
| Lab Samp ID: VPD018SB | Dilution Factor: 1 |
| Lab File ID: RDY041 | Matrix : SOIL |
| Ext Btch ID: VOF5D03 | % Moisture : NA |
| Calib. Ref.: RJY282 | Instrument ID : TOF5 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,4-DIOXANE | ND | 10 | 5.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DICHLOROETHANE-D4 | 15.7 | 20.00 | 78.7 | 50-150 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: 5035/8260B SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | VOF5D03B | VOF5D03L | VOF5D03C | | |
| LAB FILE ID: | RDY040 | RDY037 | RDY038 | | |
| DATE EXTRACTED: | 04/25/1213:22 | 04/25/1211:52 | 04/25/1212:22 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1213:22 | 04/25/1211:52 | 04/25/1212:22 | DATE RECEIVED: | 04/25/12 |
| PREP. BATCH: | VOF5D03 | VOF5D03 | VOF5D03 | | |
| CALIB. REF: | RJY282 | RJY282 | RJY282 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | ND | 200 | 199 | 100 | 200 | 207 | 103 | 4 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 20.0 | 15.9 | 79 | 20.0 | 15.1 | 76 | 50-150 |

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-012-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 19:59 |
| Lab Samp ID: D176-01 | Dilution Factor: 1 |
| Lab File ID: REJ020 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 14.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 98 |
| 1,2-DICHLOROBENZENE | ND | 190 | 98 |
| 1,3-DICHLOROBENZENE | ND | 190 | 98 |
| 1,4-DICHLOROBENZENE | ND | 190 | 98 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 98 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 98 |
| 2,4-DICHLOROPHENOL | ND | 190 | 98 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 98 |
| 2,4-DINITROPHENOL | ND | 390 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 98 |
| 2,6-DINITROTOLUENE | ND | 190 | 98 |
| 2-CHLORONAPHTHALENE | ND | 190 | 98 |
| 2-CHLOROPHENOL | ND | 190 | 98 |
| 2-METHYLNAPHTHALENE | ND | 190 | 98 |
| 2-METHYLPHENOL | ND | 190 | 98 |
| 2-NITROANILINE | ND | 190 | 98 |
| 2-NITROPHENOL | ND | 190 | 98 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 98 |
| 3-NITROANILINE | ND | 190 | 98 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 98 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 98 |
| 4-CHLOROANILINE | ND | 190 | 98 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 98 |
| 4-METHYLPHENOL (1) | ND | 190 | 98 |
| 4-NITROANILINE | ND | 190 | 98 |
| 4-NITROPHENOL | ND | 390 | 190 |
| ACENAPHTHENE | ND | 190 | 98 |
| ACENAPHTHYLENE | ND | 190 | 98 |
| ANTHRACENE | ND | 190 | 98 |
| BENZO(A)ANTHRACENE | ND | 190 | 98 |
| BENZO(A)PYRENE | ND | 190 | 98 |
| BENZO(B)FLUORANTHENE | ND | 190 | 98 |
| BENZO(K)FLUORANTHENE | ND | 190 | 98 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 98 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 98 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 98 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 98 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 98 |
| CHRYSENE | ND | 190 | 98 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 98 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 98 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 98 |
| DIBENZOFURAN | ND | 190 | 98 |
| DIETHYLPHTHALATE | ND | 190 | 98 |
| DIMETHYLPHTHALATE | ND | 190 | 98 |
| FLUORANTHENE | ND | 190 | 98 |
| FLUORENE | ND | 190 | 98 |
| HEXACHLOROBENZENE | ND | 190 | 98 |
| HEXACHLOROBUTADIENE | ND | 190 | 98 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 98 |
| HEXACHLOROETHANE | ND | 190 | 98 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 98 |
| ISOPHORONE | ND | 190 | 98 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 98 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 98 |
| NAPHTHALENE | ND | 190 | 98 |
| NITROBENZENE | ND | 190 | 98 |
| PENTACHLOROPHENOL | ND | 390 | 190 |
| PHENANTHRENE | ND | 190 | 98 |
| PHENOL | ND | 190 | 98 |
| PYRENE | ND | 190 | 98 |
| BENZYL ALCOHOL | ND | 190 | 98 |
| 1-METHYLNAPHTHALENE | ND | 190 | 98 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 98 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 98 |
| ANILINE | ND | 390 | 190 |
| BENZIDINE | ND | 970 | 490 |
| BENZOIC ACID | ND | 780 | 390 |
| CARBAZOLE | ND | 190 | 98 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 98 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 743 | 1167 | 63.7 | 35-130 |
| 2-FLUOROBIPHENYL | 214 | 388.9 | 55.1 | 45-130 |
| 2-FLUOROPHENOL | 616 | 1167 | 52.8 | 25-130 |
| NITROBENZENE-D5 | 228 | 388.9 | 58.5 | 40-130 |
| PHENOL-D5 | 662 | 1167 | 56.7 | 25-120 |
| TERPHENYL-D14 | 264 | 388.9 | 68.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-012-NBZ-SB-0.5-1.5 | Date Analyzed: 05/02/12 20:18 |
| Lab Samp ID: D176-03 | Dilution Factor: 1 |
| Lab File ID: REJ021 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 16.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 400 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 400 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 400 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 400 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 400 | 200 |
| BENZIDINE | ND | 990 | 500 |
| BENZOIC ACID | ND | 800 | 400 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 684 | 1196 | 57.2 | 35-130 |
| 2-FLUOROBIPHENYL | 151 | 398.7 | 37.9* | 45-130 |
| 2-FLUOROPHENOL | 501 | 1196 | 41.9 | 25-130 |
| NITROBENZENE-D5 | 179 | 398.7 | 44.8 | 40-130 |
| PHENOL-D5 | 525 | 1196 | 43.9 | 25-120 |
| TERPHENYL-D14 | 291 | 398.7 | 73.0 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-017-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 20:37 |
| Lab Samp ID: D176-04 | Dilution Factor: 1 |
| Lab File ID: REJ022 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 29.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 240 | 120 |
| 1,2-DICHLOROBENZENE | ND | 240 | 120 |
| 1,3-DICHLOROBENZENE | ND | 240 | 120 |
| 1,4-DICHLOROBENZENE | ND | 240 | 120 |
| 2,4,5-TRICHLOROPHENOL | ND | 240 | 120 |
| 2,4,6-TRICHLOROPHENOL | ND | 240 | 120 |
| 2,4-DICHLOROPHENOL | ND | 240 | 120 |
| 2,4-DIMETHYLPHENOL | ND | 240 | 120 |
| 2,4-DINITROPHENOL | ND | 470 | 240 |
| 2,4-DINITROTOLUENE | ND | 240 | 120 |
| 2,6-DINITROTOLUENE | ND | 240 | 120 |
| 2-CHLORONAPHTHALENE | ND | 240 | 120 |
| 2-CHLOROPHENOL | ND | 240 | 120 |
| 2-METHYLNAPHTHALENE | ND | 240 | 120 |
| 2-METHYLPHENOL | ND | 240 | 120 |
| 2-NITROANILINE | ND | 240 | 120 |
| 2-NITROPHENOL | ND | 240 | 120 |
| 3,3'-DICHLOROBENZIDINE | ND | 240 | 120 |
| 3-NITROANILINE | ND | 240 | 120 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 470 | 240 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 240 | 120 |
| 4-CHLORO-3-METHYLPHENOL | ND | 240 | 120 |
| 4-CHLOROANILINE | ND | 240 | 120 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 240 | 120 |
| 4-METHYLPHENOL (1) | ND | 240 | 120 |
| 4-NITROANILINE | ND | 240 | 120 |
| 4-NITROPHENOL | ND | 470 | 240 |
| ACENAPHTHENE | ND | 240 | 120 |
| ACENAPHTHYLENE | ND | 240 | 120 |
| ANTHRACENE | ND | 240 | 120 |
| BENZO(A)ANTHRACENE | ND | 240 | 120 |
| BENZO(A)PYRENE | ND | 240 | 120 |
| BENZO(B)FLUORANTHENE | ND | 240 | 120 |
| BENZO(K)FLUORANTHENE | ND | 240 | 120 |
| BENZO(G,H,I)PERYLENE | ND | 240 | 120 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 240 | 120 |
| BIS(2-CHLOROETHYL)ETHER | ND | 240 | 120 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 240 | 120 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 240 | 120 |
| BUTYLBENZYLPHTHALATE | ND | 240 | 120 |
| CHRYSENE | ND | 240 | 120 |
| DI-N-BUTYLPHTHALATE | ND | 240 | 120 |
| DI-N-OCTYLPHTHALATE | ND | 240 | 120 |
| DIBENZO(A,H)ANTHRACENE | ND | 240 | 120 |
| DIBENZOFURAN | ND | 240 | 120 |
| DIETHYLPHTHALATE | ND | 240 | 120 |
| DIMETHYLPHTHALATE | ND | 240 | 120 |
| FLUORANTHENE | ND | 240 | 120 |
| FLUORENE | ND | 240 | 120 |
| HEXACHLOROBENZENE | ND | 240 | 120 |
| HEXACHLOROBUTADIENE | ND | 240 | 120 |
| HEXACHLOROCYCLOPENTADIENE | ND | 240 | 120 |
| HEXACHLOROETHANE | ND | 240 | 120 |
| INDENO(1,2,3-CD)PYRENE | ND | 240 | 120 |
| ISOPHORONE | ND | 240 | 120 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 240 | 120 |
| N-NITROSODIPHENYLAMINE (2) | ND | 240 | 120 |
| NAPHTHALENE | ND | 240 | 120 |
| NITROBENZENE | ND | 240 | 120 |
| PENTACHLOROPHENOL | ND | 470 | 240 |
| PHENANTHRENE | ND | 240 | 120 |
| PHENOL | ND | 240 | 120 |
| PYRENE | ND | 240 | 120 |
| BENZYL ALCOHOL | ND | 240 | 120 |
| 1-METHYLNAPHTHALENE | ND | 240 | 120 |
| 1,2-DIPHENYLHYDRAZINE | ND | 240 | 120 |
| 3,5-DIMETHYLPHENOL | ND | 240 | 120 |
| ANILINE | ND | 470 | 240 |
| BENZIDINE | ND | 1200 | 600 |
| BENZOIC ACID | ND | 950 | 480 |
| CARBAZOLE | ND | 240 | 120 |
| N-NITROSODIMETHYLAMINE | ND | 240 | 120 |
| TETRALIN | ND | 240 | 240 |
| 2-BUTOXYETHANOL | ND | 240 | 240 |
| 2-PHENOXYETHANOL | ND | 240 | 240 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1100 | 1422 | 77.4 | 35-130 |
| 2-FLUOROBIPHENYL | 286 | 474.1 | 60.4 | 45-130 |
| 2-FLUOROPHENOL | 846 | 1422 | 59.5 | 25-130 |
| NITROBENZENE-D5 | 305 | 474.1 | 64.4 | 40-130 |
| PHENOL-D5 | 930 | 1422 | 65.4 | 25-120 |
| TERPHENYL-D14 | 383 | 474.1 | 80.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-086-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 20:56 |
| Lab Samp ID: D176-05 | Dilution Factor: 1 |
| Lab File ID: REJ023 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 22.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 220 | 110 |
| 1,2-DICHLOROBENZENE | ND | 220 | 110 |
| 1,3-DICHLOROBENZENE | ND | 220 | 110 |
| 1,4-DICHLOROBENZENE | ND | 220 | 110 |
| 2,4,5-TRICHLOROPHENOL | ND | 220 | 110 |
| 2,4,6-TRICHLOROPHENOL | ND | 220 | 110 |
| 2,4-DICHLOROPHENOL | ND | 220 | 110 |
| 2,4-DIMETHYLPHENOL | ND | 220 | 110 |
| 2,4-DINITROPHENOL | ND | 430 | 220 |
| 2,4-DINITROTOLUENE | ND | 220 | 110 |
| 2,6-DINITROTOLUENE | ND | 220 | 110 |
| 2-CHLORONAPHTHALENE | ND | 220 | 110 |
| 2-CHLOROPHENOL | ND | 220 | 110 |
| 2-METHYLNAPHTHALENE | ND | 220 | 110 |
| 2-METHYLPHENOL | ND | 220 | 110 |
| 2-NITROANILINE | ND | 220 | 110 |
| 2-NITROPHENOL | ND | 220 | 110 |
| 3,3'-DICHLOROBENZIDINE | ND | 220 | 110 |
| 3-NITROANILINE | ND | 220 | 110 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 430 | 220 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 220 | 110 |
| 4-CHLORO-3-METHYLPHENOL | ND | 220 | 110 |
| 4-CHLOROANILINE | ND | 220 | 110 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 220 | 110 |
| 4-METHYLPHENOL (1) | ND | 220 | 110 |
| 4-NITROANILINE | ND | 220 | 110 |
| 4-NITROPHENOL | ND | 430 | 220 |
| ACENAPHTHENE | ND | 220 | 110 |
| ACENAPHTHYLENE | ND | 220 | 110 |
| ANTHRACENE | ND | 220 | 110 |
| BENZO(A)ANTHRACENE | ND | 220 | 110 |
| BENZO(A)PYRENE | ND | 220 | 110 |
| BENZO(B)FLUORANTHENE | ND | 220 | 110 |
| BENZO(K)FLUORANTHENE | ND | 220 | 110 |
| BENZO(G,H,I)PERYLENE | ND | 220 | 110 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 220 | 110 |
| BIS(2-CHLOROETHYL)ETHER | ND | 220 | 110 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 220 | 110 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 220 | 110 |
| BUTYLBENZYLPHTHALATE | ND | 220 | 110 |
| CHRYSENE | ND | 220 | 110 |
| DI-N-BUTYLPHTHALATE | ND | 220 | 110 |
| DI-N-OCTYLPHTHALATE | ND | 220 | 110 |
| DIBENZO(A,H)ANTHRACENE | ND | 220 | 110 |
| DIBENZOFURAN | ND | 220 | 110 |
| DIETHYLPHTHALATE | ND | 220 | 110 |
| DIMETHYLPHTHALATE | ND | 220 | 110 |
| FLUORANTHENE | ND | 220 | 110 |
| FLUORENE | ND | 220 | 110 |
| HEXACHLOROBENZENE | ND | 220 | 110 |
| HEXACHLOROBUTADIENE | ND | 220 | 110 |
| HEXACHLOROCYCLOPENTADIENE | ND | 220 | 110 |
| HEXACHLOROETHANE | ND | 220 | 110 |
| INDENO(1,2,3-CD)PYRENE | ND | 220 | 110 |
| ISOPHORONE | ND | 220 | 110 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 220 | 110 |
| N-NITROSODIPHENYLAMINE (2) | ND | 220 | 110 |
| NAPHTHALENE | ND | 220 | 110 |
| NITROBENZENE | ND | 220 | 110 |
| PENTACHLOROPHENOL | ND | 430 | 220 |
| PHENANTHRENE | ND | 220 | 110 |
| PHENOL | ND | 220 | 110 |
| PYRENE | ND | 220 | 110 |
| BENZYL ALCOHOL | ND | 220 | 110 |
| 1-METHYLNAPHTHALENE | ND | 220 | 110 |
| 1,2-DIPHENYLHYDRAZINE | ND | 220 | 110 |
| 3,5-DIMETHYLPHENOL | ND | 220 | 110 |
| ANILINE | ND | 430 | 220 |
| BENZIDINE | ND | 1100 | 540 |
| BENZOIC ACID | ND | 860 | 430 |
| CARBAZOLE | ND | 220 | 110 |
| N-NITROSODIMETHYLAMINE | ND | 220 | 110 |
| TETRALIN | ND | 220 | 220 |
| 2-BUTOXYETHANOL | ND | 220 | 220 |
| 2-PHENOXYETHANOL | ND | 220 | 220 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 934 | 1292 | 72.3 | 35-130 |
| 2-FLUOROBIPHENYL | 238 | 430.6 | 55.4 | 45-130 |
| 2-FLUOROPHENOL | 749 | 1292 | 58.0 | 25-130 |
| NITROBENZENE-D5 | 271 | 430.6 | 62.9 | 40-130 |
| PHENOL-D5 | 804 | 1292 | 62.2 | 25-120 |
| TERPHENYL-D14 | 311 | 430.6 | 72.3 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-087-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 21:15 |
| Lab Samp ID: D176-07 | Dilution Factor: 1 |
| Lab File ID: REJ024 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 20.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 210 | 110 |
| 1,2-DICHLOROBENZENE | ND | 210 | 110 |
| 1,3-DICHLOROBENZENE | ND | 210 | 110 |
| 1,4-DICHLOROBENZENE | ND | 210 | 110 |
| 2,4,5-TRICHLOROPHENOL | ND | 210 | 110 |
| 2,4,6-TRICHLOROPHENOL | ND | 210 | 110 |
| 2,4-DICHLOROPHENOL | ND | 210 | 110 |
| 2,4-DIMETHYLPHENOL | ND | 210 | 110 |
| 2,4-DINITROPHENOL | ND | 420 | 210 |
| 2,4-DINITROTOLUENE | ND | 210 | 110 |
| 2,6-DINITROTOLUENE | ND | 210 | 110 |
| 2-CHLORONAPHTHALENE | ND | 210 | 110 |
| 2-CHLOROPHENOL | ND | 210 | 110 |
| 2-METHYLNAPHTHALENE | ND | 210 | 110 |
| 2-METHYLPHENOL | ND | 210 | 110 |
| 2-NITROANILINE | ND | 210 | 110 |
| 2-NITROPHENOL | ND | 210 | 110 |
| 3,3'-DICHLOROBENZIDINE | ND | 210 | 110 |
| 3-NITROANILINE | ND | 210 | 110 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 420 | 210 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 210 | 110 |
| 4-CHLORO-3-METHYLPHENOL | ND | 210 | 110 |
| 4-CHLOROANILINE | ND | 210 | 110 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 210 | 110 |
| 4-METHYLPHENOL (1) | ND | 210 | 110 |
| 4-NITROANILINE | ND | 210 | 110 |
| 4-NITROPHENOL | ND | 420 | 210 |
| ACENAPHTHENE | ND | 210 | 110 |
| ACENAPHTHYLENE | ND | 210 | 110 |
| ANTHRACENE | ND | 210 | 110 |
| BENZO(A)ANTHRACENE | ND | 210 | 110 |
| BENZO(A)PYRENE | ND | 210 | 110 |
| BENZO(B)FLUORANTHENE | ND | 210 | 110 |
| BENZO(K)FLUORANTHENE | ND | 210 | 110 |
| BENZO(G,H,I)PERYLENE | ND | 210 | 110 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 210 | 110 |
| BIS(2-CHLOROETHYL)ETHER | ND | 210 | 110 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 210 | 110 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 210 | 110 |
| BUTYLBENZYLPHTHALATE | ND | 210 | 110 |
| CHRYSENE | ND | 210 | 110 |
| DI-N-BUTYLPHTHALATE | ND | 210 | 110 |
| DI-N-OCTYLPHTHALATE | ND | 210 | 110 |
| DIBENZO(A,H)ANTHRACENE | ND | 210 | 110 |
| DIBENZOFURAN | ND | 210 | 110 |
| DIETHYLPHTHALATE | ND | 210 | 110 |
| DIMETHYLPHTHALATE | ND | 210 | 110 |
| FLUORANTHENE | ND | 210 | 110 |
| FLUORENE | ND | 210 | 110 |
| HEXACHLOROBENZENE | ND | 210 | 110 |
| HEXACHLOROBUTADIENE | ND | 210 | 110 |
| HEXACHLOROCYCLOPENTADIENE | ND | 210 | 110 |
| HEXACHLOROETHANE | ND | 210 | 110 |
| INDENO(1,2,3-CD)PYRENE | ND | 210 | 110 |
| ISOPHORONE | ND | 210 | 110 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 210 | 110 |
| N-NITROSODIPHENYLAMINE (2) | ND | 210 | 110 |
| NAPHTHALENE | ND | 210 | 110 |
| NITROBENZENE | ND | 210 | 110 |
| PENTACHLOROPHENOL | ND | 420 | 210 |
| PHENANTHRENE | ND | 210 | 110 |
| PHENOL | ND | 210 | 110 |
| PYRENE | ND | 210 | 110 |
| BENZYL ALCOHOL | ND | 210 | 110 |
| 1-METHYLNAPHTHALENE | ND | 210 | 110 |
| 1,2-DIPHENYLHYDRAZINE | ND | 210 | 110 |
| 3,5-DIMETHYLPHENOL | ND | 210 | 110 |
| ANILINE | ND | 420 | 210 |
| BENZIDINE | ND | 1000 | 530 |
| BENZOIC ACID | ND | 840 | 420 |
| CARBAZOLE | ND | 210 | 110 |
| N-NITROSODIMETHYLAMINE | ND | 210 | 110 |
| TETRALIN | ND | 210 | 210 |
| 2-BUTOXYETHANOL | ND | 210 | 210 |
| 2-PHENOXYETHANOL | ND | 210 | 210 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 910 | 1263 | 72.1 | 35-130 |
| 2-FLUOROBIPHENYL | 198 | 420.8 | 47.1 | 45-130 |
| 2-FLUOROPHENOL | 648 | 1263 | 51.3 | 25-130 |
| NITROBENZENE-D5 | 230 | 420.8 | 54.6 | 40-130 |
| PHENOL-D5 | 716 | 1263 | 56.7 | 25-120 |
| TERPHENYL-D14 | 297 | 420.8 | 70.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-150-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 21:34 |
| Lab Samp ID: D176-08 | Dilution Factor: 1 |
| Lab File ID: REJ025 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 11.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 95 |
| 1,2-DICHLOROBENZENE | ND | 190 | 95 |
| 1,3-DICHLOROBENZENE | ND | 190 | 95 |
| 1,4-DICHLOROBENZENE | ND | 190 | 95 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 95 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 95 |
| 2,6-DINITROTOLUENE | ND | 190 | 95 |
| 2-CHLORONAPHTHALENE | ND | 190 | 95 |
| 2-CHLOROPHENOL | ND | 190 | 95 |
| 2-METHYLNAPHTHALENE | ND | 190 | 95 |
| 2-METHYLPHENOL | ND | 190 | 95 |
| 2-NITROANILINE | ND | 190 | 95 |
| 2-NITROPHENOL | ND | 190 | 95 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 95 |
| 3-NITROANILINE | ND | 190 | 95 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 95 |
| 4-CHLOROANILINE | ND | 190 | 95 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-METHYLPHENOL (1) | ND | 190 | 95 |
| 4-NITROANILINE | ND | 190 | 95 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 95 |
| ACENAPHTHYLENE | ND | 190 | 95 |
| ANTHRACENE | ND | 190 | 95 |
| BENZO(A)ANTHRACENE | ND | 190 | 95 |
| BENZO(A)PYRENE | ND | 190 | 95 |
| BENZO(B)FLUORANTHENE | ND | 190 | 95 |
| BENZO(K)FLUORANTHENE | ND | 190 | 95 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 95 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 95 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 95 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 95 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 95 |
| CHRYSENE | ND | 190 | 95 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 95 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 95 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 95 |
| DIBENZOFURAN | ND | 190 | 95 |
| DIETHYLPHTHALATE | ND | 190 | 95 |
| DIMETHYLPHTHALATE | ND | 190 | 95 |
| FLUORANTHENE | ND | 190 | 95 |
| FLUORENE | ND | 190 | 95 |
| HEXACHLOROBENZENE | ND | 190 | 95 |
| HEXACHLOROBUTADIENE | ND | 190 | 95 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 95 |
| HEXACHLOROETHANE | ND | 190 | 95 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 95 |
| ISOPHORONE | ND | 190 | 95 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 95 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 95 |
| NAPHTHALENE | ND | 190 | 95 |
| NITROBENZENE | ND | 190 | 95 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 95 |
| PHENOL | ND | 190 | 95 |
| PYRENE | ND | 190 | 95 |
| BENZYL ALCOHOL | ND | 190 | 95 |
| 1-METHYLNAPHTHALENE | ND | 190 | 95 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 95 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 95 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 750 | 380 |
| CARBAZOLE | ND | 190 | 95 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 95 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 874 | 1126 | 77.6 | 35-130 |
| 2-FLUOROBIPHENYL | 216 | 375.3 | 57.4 | 45-130 |
| 2-FLUOROPHENOL | 619 | 1126 | 54.9 | 25-130 |
| NITROBENZENE-D5 | 222 | 375.3 | 59.2 | 40-130 |
| PHENOL-D5 | 668 | 1126 | 59.3 | 25-120 |
| TERPHENYL-D14 | 287 | 375.3 | 76.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-178-NBZ-SS-0.0-0.5 | Date Analyzed: 05/14/12 16:18 |
| Lab Samp ID: D176-09W | Dilution Factor: 1 |
| Lab File ID: REJ331 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 10.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 750 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 823 | 1120 | 73.5 | 35-130 |
| 2-FLUOROBIPHENYL | 230 | 373.2 | 61.7 | 45-130 |
| 2-FLUOROPHENOL | 730 | 1120 | 65.2 | 25-130 |
| NITROBENZENE-D5 | 246 | 373.2 | 66.0 | 40-130 |
| PHENOL-D5 | 823 | 1120 | 73.5 | 25-120 |
| TERPHENYL-D14 | 296 | 373.2 | 79.3 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-179-NBZ-SS-0.0-0.5 | Date Analyzed: 05/14/12 16:36 |
| Lab Samp ID: D176-10W | Dilution Factor: 1 |
| Lab File ID: REJ332 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 11.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 750 | 380 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 777 | 1124 | 69.1 | 35-130 |
| 2-FLUOROBIPHENYL | 211 | 374.5 | 56.2 | 45-130 |
| 2-FLUOROPHENOL | 760 | 1124 | 67.7 | 25-130 |
| NITROBENZENE-D5 | 233 | 374.5 | 62.1 | 40-130 |
| PHENOL-D5 | 759 | 1124 | 67.6 | 25-120 |
| TERPHENYL-D14 | 292 | 374.5 | 77.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-184-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 22:30 |
| Lab Samp ID: D176-11 | Dilution Factor: 1 |
| Lab File ID: REJ028 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 11.9 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 95 |
| 1,2-DICHLOROBENZENE | ND | 190 | 95 |
| 1,3-DICHLOROBENZENE | ND | 190 | 95 |
| 1,4-DICHLOROBENZENE | ND | 190 | 95 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 95 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 95 |
| 2,6-DINITROTOLUENE | ND | 190 | 95 |
| 2-CHLORONAPHTHALENE | ND | 190 | 95 |
| 2-CHLOROPHENOL | ND | 190 | 95 |
| 2-METHYLNAPHTHALENE | ND | 190 | 95 |
| 2-METHYLPHENOL | ND | 190 | 95 |
| 2-NITROANILINE | ND | 190 | 95 |
| 2-NITROPHENOL | ND | 190 | 95 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 95 |
| 3-NITROANILINE | ND | 190 | 95 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 95 |
| 4-CHLOROANILINE | ND | 190 | 95 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-METHYLPHENOL (1) | ND | 190 | 95 |
| 4-NITROANILINE | ND | 190 | 95 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 95 |
| ACENAPHTHYLENE | ND | 190 | 95 |
| ANTHRACENE | ND | 190 | 95 |
| BENZO(A)ANTHRACENE | ND | 190 | 95 |
| BENZO(A)PYRENE | ND | 190 | 95 |
| BENZO(B)FLUORANTHENE | ND | 190 | 95 |
| BENZO(K)FLUORANTHENE | ND | 190 | 95 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 95 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 95 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 95 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 95 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 95 |
| CHRYSENE | ND | 190 | 95 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 95 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 95 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 95 |
| DIBENZOFURAN | ND | 190 | 95 |
| DIETHYLPHTHALATE | ND | 190 | 95 |
| DIMETHYLPHTHALATE | ND | 190 | 95 |
| FLUORANTHENE | ND | 190 | 95 |
| FLUORENE | ND | 190 | 95 |
| HEXACHLOROBENZENE | ND | 190 | 95 |
| HEXACHLOROBUTADIENE | ND | 190 | 95 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 95 |
| HEXACHLOROETHANE | ND | 190 | 95 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 95 |
| ISOPHORONE | ND | 190 | 95 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 95 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 95 |
| NAPHTHALENE | ND | 190 | 95 |
| NITROBENZENE | ND | 190 | 95 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 95 |
| PHENOL | ND | 190 | 95 |
| PYRENE | ND | 190 | 95 |
| BENZYL ALCOHOL | ND | 190 | 95 |
| 1-METHYLNAPHTHALENE | ND | 190 | 95 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 95 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 95 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 940 | 480 |
| BENZOIC ACID | ND | 760 | 380 |
| CARBAZOLE | ND | 190 | 95 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 95 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 806 | 1135 | 71.0 | 35-130 |
| 2-FLUOROBIPHENYL | 207 | 378.3 | 54.7 | 45-130 |
| 2-FLUOROPHENOL | 644 | 1135 | 56.7 | 25-130 |
| NITROBENZENE-D5 | 235 | 378.3 | 62.0 | 40-130 |
| PHENOL-D5 | 696 | 1135 | 61.3 | 25-120 |
| TERPHENYL-D14 | 279 | 378.3 | 73.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-193-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 22:49 |
| Lab Samp ID: D176-12 | Dilution Factor: 1 |
| Lab File ID: REJ029 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 11.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 750 | 380 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 934 | 1124 | 83.1 | 35-130 |
| 2-FLUOROBIPHENYL | 262 | 374.5 | 70.0 | 45-130 |
| 2-FLUOROPHENOL | 688 | 1124 | 61.2 | 25-130 |
| NITROBENZENE-D5 | 268 | 374.5 | 71.5 | 40-130 |
| PHENOL-D5 | 753 | 1124 | 67.0 | 25-120 |
| TERPHENYL-D14 | 309 | 374.5 | 82.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: DUP-09-NBZ-QC-041912 | Date Analyzed: 05/02/12 23:08 |
| Lab Samp ID: D176-13 | Dilution Factor: 1 |
| Lab File ID: REJ030 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 10.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 94 |
| 1,2-DICHLOROBENZENE | ND | 190 | 94 |
| 1,3-DICHLOROBENZENE | ND | 190 | 94 |
| 1,4-DICHLOROBENZENE | ND | 190 | 94 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DICHLOROPHENOL | ND | 190 | 94 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 94 |
| 2,4-DINITROPHENOL | ND | 370 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 94 |
| 2,6-DINITROTOLUENE | ND | 190 | 94 |
| 2-CHLORONAPHTHALENE | ND | 190 | 94 |
| 2-CHLOROPHENOL | ND | 190 | 94 |
| 2-METHYLNAPHTHALENE | ND | 190 | 94 |
| 2-METHYLPHENOL | ND | 190 | 94 |
| 2-NITROANILINE | ND | 190 | 94 |
| 2-NITROPHENOL | ND | 190 | 94 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 94 |
| 3-NITROANILINE | ND | 190 | 94 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 94 |
| 4-CHLOROANILINE | ND | 190 | 94 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 94 |
| 4-METHYLPHENOL (1) | ND | 190 | 94 |
| 4-NITROANILINE | ND | 190 | 94 |
| 4-NITROPHENOL | ND | 370 | 190 |
| ACENAPHTHENE | ND | 190 | 94 |
| ACENAPHTHYLENE | ND | 190 | 94 |
| ANTHRACENE | ND | 190 | 94 |
| BENZO(A)ANTHRACENE | ND | 190 | 94 |
| BENZO(A)PYRENE | ND | 190 | 94 |
| BENZO(B)FLUORANTHENE | ND | 190 | 94 |
| BENZO(K)FLUORANTHENE | ND | 190 | 94 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 94 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 94 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 94 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 94 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 94 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 94 |
| CHRYSENE | ND | 190 | 94 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 94 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 94 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 94 |
| DIBENZOFURAN | ND | 190 | 94 |
| DIETHYLPHTHALATE | ND | 190 | 94 |
| DIMETHYLPHTHALATE | ND | 190 | 94 |
| FLUORANTHENE | ND | 190 | 94 |
| FLUORENE | ND | 190 | 94 |
| HEXACHLOROBENZENE | ND | 190 | 94 |
| HEXACHLOROBUTADIENE | ND | 190 | 94 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 94 |
| HEXACHLOROETHANE | ND | 190 | 94 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 94 |
| ISOPHORONE | ND | 190 | 94 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 94 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 94 |
| NAPHTHALENE | ND | 190 | 94 |
| NITROBENZENE | ND | 190 | 94 |
| PENTACHLOROPHENOL | ND | 370 | 190 |
| PHENANTHRENE | ND | 190 | 94 |
| PHENOL | ND | 190 | 94 |
| PYRENE | ND | 190 | 94 |
| BENZYL ALCOHOL | ND | 190 | 94 |
| 1-METHYLNAPHTHALENE | ND | 190 | 94 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 94 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 94 |
| ANILINE | ND | 370 | 190 |
| BENZIDINE | ND | 930 | 470 |
| BENZOIC ACID | ND | 750 | 370 |
| CARBAZOLE | ND | 190 | 94 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 94 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 855 | 1117 | 76.5 | 35-130 |
| 2-FLUOROBIPHENYL | 212 | 372.4 | 56.9 | 45-130 |
| 2-FLUOROPHENOL | 623 | 1117 | 55.7 | 25-130 |
| NITROBENZENE-D5 | 239 | 372.4 | 64.1 | 40-130 |
| PHENOL-D5 | 673 | 1117 | 60.3 | 25-120 |
| TERPHENYL-D14 | 300 | 372.4 | 80.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/27/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: MBLK1S | Date Analyzed: 05/02/12 17:10 |
| Lab Samp ID: SVD050SB | Dilution Factor: 1 |
| Lab File ID: REJ011 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 689 | 1000 | 68.9 | 35-130 |
| 2-FLUOROBIPHENYL | 240 | 333.3 | 72.0 | 45-130 |
| 2-FLUOROPHENOL | 723 | 1000 | 72.3 | 25-130 |
| NITROBENZENE-D5 | 235 | 333.3 | 70.5 | 40-130 |
| PHENOL-D5 | 735 | 1000 | 73.5 | 25-120 |
| TERPHENYL-D14 | 284 | 333.3 | 85.2 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVD050SB SVD050SL SVD050SC
LAB FILE ID: REJ011 REJ012 REJ013
DATE EXTRACTED: 04/27/1212:09 04/27/1212:09 04/27/1212:09 DATE COLLECTED: NA
DATE ANALYZED: 05/02/1217:10 05/02/1217:29 05/02/1217:48 DATE RECEIVED: 04/27/12
PREP. BATCH: SVD050S SVD050S SVD050S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 366 | 55 | 667 | 458 | 69 | 22 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 351 | 53 | 667 | 418 | 63 | 17 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 353 | 53 | 667 | 414 | 62 | 16 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 347 | 52 | 667 | 409 | 61 | 16 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 408 | 61 | 667 | 485 | 73 | 17 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 435 | 65 | 667 | 523 | 78 | 18 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 416 | 62 | 667 | 511 | 77 | 21 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 419 | 63 | 667 | 501 | 75 | 18 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 421 | 63 | 667 | 441 | 66 | 5 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 525 | 79 | 667 | 586 | 88 | 11 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 460 | 69 | 667 | 548 | 82 | 18 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 426 | 64 | 667 | 469 | 70 | 10 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 387 | 58 | 667 | 510 | 77 | 28 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 461 | 69 | 667 | 552 | 83 | 18 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 365 | 55 | 667 | 439 | 66 | 19 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 454 | 68 | 667 | 541 | 81 | 18 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 396 | 59 | 667 | 487 | 73 | 21 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 454 | 68 | 667 | 484 | 73 | 7 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 423 | 63 | 667 | 476 | 71 | 12 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 483 | 72 | 667 | 530 | 79 | 9 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 440 | 66 | 667 | 499 | 75 | 13 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 423 | 64 | 667 | 508 | 76 | 18 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 379 | 57 | 667 | 466 | 70 | 20 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 478 | 72 | 667 | 567 | 85 | 17 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 371 | 56 | 667 | 442 | 66 | 17 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 450 | 68 | 667 | 509 | 76 | 12 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 495 | 74 | 667 | 554 | 83 | 11 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 443 | 66 | 667 | 534 | 80 | 19 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 512 | 77 | 667 | 617 | 93 | 19 | 30-130 | 50 |
| Anthracene | ND | 667 | 493 | 74 | 667 | 538 | 81 | 9 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 551 | 83 | 667 | 587 | 88 | 6 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 536 | 80 | 667 | 570 | 85 | 6 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 575 | 86 | 667 | 581 | 87 | 1 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 575 | 86 | 667 | 643 | 96 | 11 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 581 | 87 | 667 | 602 | 90 | 4 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 481 | 72 | 667 | 581 | 87 | 19 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 458 | 69 | 667 | 557 | 83 | 20 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 477 | 72 | 667 | 595 | 89 | 22 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 549 | 82 | 667 | 584 | 88 | 6 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 541 | 81 | 667 | 584 | 88 | 8 | 40-150 | 50 |
| Chrysene | ND | 667 | 571 | 86 | 667 | 599 | 90 | 5 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 512 | 77 | 667 | 544 | 82 | 6 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 549 | 82 | 667 | 589 | 88 | 7 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 573 | 86 | 667 | 604 | 91 | 5 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 425 | 64 | 667 | 510 | 76 | 18 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 498 | 75 | 667 | 554 | 83 | 11 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 461 | 69 | 667 | 526 | 79 | 13 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 549 | 82 | 667 | 596 | 89 | 8 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 490 | 73 | 667 | 576 | 86 | 16 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 454 | 68 | 667 | 500 | 75 | 10 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 393 | 59 | 667 | 480 | 72 | 20 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 287 | 43 | 667 | 366 | 55 | 24 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 352 | 53 | 667 | 427 | 64 | 19 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 570 | 85 | 667 | 598 | 90 | 5 | 30-140 | 50 |
| Isophorone | ND | 667 | 526 | 79 | 667 | 632 | 95 | 18 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 376 | 56 | 667 | 455 | 68 | 19 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 355 | 53 | 667 | 399 | 60 | 12 | 30-140 | 50 |
| Naphthalene | ND | 667 | 433 | 65 | 667 | 528 | 79 | 20 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 460 | 69 | 667 | 559 | 84 | 19 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 429 | 64 | 667 | 483 | 72 | 12 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 512 | 77 | 667 | 560 | 84 | 9 | 30-130 | 50 |
| Phenol | ND | 667 | 411 | 62 | 667 | 495 | 74 | 18 | 30-130 | 50 |
| Pyrene | ND | 667 | 555 | 83 | 667 | 591 | 89 | 6 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 392 | 59 | 667 | 481 | 72 | 20 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 458 | 69 | 667 | 545 | 82 | 17 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 453 | 68 | 667 | 516 | 77 | 13 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 403 | 60 | 667 | 492 | 74 | 20 | 20-150 | 50 |
| Aniline | ND | 667 | 329J | 49 | 667 | 403 | 61 | 20 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1256 | 47 | 2670 | 966 | 36 | 27 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 787 | 30 | 2670 | 596J | 22 | 28 | 10-130 | 50 |
| Carbazole | ND | 667 | 489 | 73 | 667 | 525 | 79 | 7 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 499 | 75 | 667 | 575 | 86 | 14 | 30-150 | 50 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 673 | 67 | 1000 | 714 | 71 | 35-130 |
| 2-Fluorobiphenyl | 333 | 171 | 51 | 333 | 202 | 61 | 45-130 |
| 2-Fluorophenol | 1000 | 535 | 54 | 1000 | 610 | 61 | 25-130 |
| Nitrobenzene-d5 | 333 | 185 | 56 | 333 | 221 | 66 | 40-130 |
| Phenol-d5 | 1000 | 555 | 56 | 1000 | 638 | 64 | 25-120 |
| Terphenyl-d14 | 333 | 261 | 78 | 333 | 272 | 81 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: 11.0

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-193-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D176-12 | D176-12M | D176-12S | | |
| LAB FILE ID: | REJ029 | REJ016 | REJ017 | | |
| DATE EXTRACTED: | 04/27/1212:09 | 04/27/1212:09 | 04/27/1212:09 | DATE COLLECTED: | 04/19/12 |
| DATE ANALYZED: | 05/02/1222:49 | 05/02/1218:44 | 05/02/1219:03 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | SVD050S | SVD050S | SVD050S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 749 | 523 | 70 | 749 | 353 | 47 | 39 | 10-130 | 50 |
| 1,2-Dichlorobenzene | ND | 749 | 434 | 58 | 749 | 283 | 38 | 42 | 30-130 | 50 |
| 1,3-Dichlorobenzene | ND | 749 | 403 | 54 | 749 | 259 | 35 | 44 | 30-130 | 50 |
| 1,4-Dichlorobenzene | ND | 749 | 412 | 55 | 749 | 265 | 35 | 43 | 10-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 749 | 636 | 85 | 749 | 618 | 82 | 3 | 30-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 749 | 702 | 94 | 749 | 637 | 85 | 10 | 30-130 | 50 |
| 2,4-Dichlorophenol | ND | 749 | 636 | 85 | 749 | 511 | 68 | 22 | 30-130 | 50 |
| 2,4-Dimethylphenol | ND | 749 | 622 | 83 | 749 | 480 | 64 | 26 | 30-130 | 50 |
| 2,4-Dinitrophenol | ND | 749 | 625 | 83 | 749 | 604 | 81 | 3 | 10-130 | 50 |
| 2,4-Dinitrotoluene | ND | 749 | 734 | 98 | 749 | 690 | 92 | 6 | 20-130 | 50 |
| 2,6-Dinitrotoluene | ND | 749 | 701 | 94 | 749 | 661 | 88 | 6 | 30-130 | 50 |
| 2-Chloronaphthalene | ND | 749 | 607 | 81 | 749 | 476 | 63 | 24 | 30-130 | 50 |
| 2-Chlorophenol | ND | 749 | 560 | 75 | 749 | 397 | 53 | 34 | 20-130 | 50 |
| 2-Methylnaphthalene | ND | 749 | 676 | 90 | 749 | 491 | 66 | 32 | 30-130 | 50 |
| 2-Methylphenol | ND | 749 | 527 | 70 | 749 | 386 | 52 | 31 | 30-130 | 50 |
| 2-Nitroaniline | ND | 749 | 750 | 100 | 749 | 663 | 89 | 12 | 30-130 | 50 |
| 2-Nitrophenol | ND | 749 | 619 | 83 | 749 | 420 | 56 | 38 | 30-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 749 | 288 | 38 | 749 | 397 | 53 | 32 | 30-130 | 50 |
| 3-Nitroaniline | ND | 749 | 549 | 73 | 749 | 543 | 72 | 1 | 30-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 749 | 669 | 89 | 749 | 666 | 89 | 0 | 30-130 | 50 |
| 4-Bromophenyl-phenylether | ND | 749 | 624 | 83 | 749 | 614 | 82 | 2 | 30-130 | 50 |
| 4-Chloro-3-Methylphenol | ND | 749 | 714 | 95 | 749 | 621 | 83 | 14 | 20-130 | 50 |
| 4-Chloroaniline | ND | 749 | 430 | 57 | 749 | 405 | 54 | 6 | 30-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 749 | 698 | 93 | 749 | 664 | 89 | 5 | 30-130 | 50 |
| 4-Methylphenol | ND | 749 | 551 | 74 | 749 | 425 | 57 | 26 | 20-130 | 50 |
| 4-Nitroaniline | ND | 749 | 607 | 81 | 749 | 663 | 88 | 9 | 40-130 | 50 |
| 4-Nitrophenol | ND | 749 | 691 | 92 | 749 | 627 | 84 | 10 | 10-130 | 50 |
| Acenaphthene | ND | 749 | 688 | 92 | 749 | 594 | 79 | 15 | 20-130 | 50 |
| Acenaphthylene | ND | 749 | 800 | 107 | 749 | 625 | 83 | 25 | 20-130 | 50 |
| Anthracene | ND | 749 | 677 | 90 | 749 | 658 | 88 | 3 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 749 | 700 | 93 | 749 | 704 | 94 | 1 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 749 | 704 | 94 | 749 | 683 | 91 | 3 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 749 | 728 | 97 | 749 | 727 | 97 | 0 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 749 | 745 | 99 | 749 | 759 | 101 | 2 | 30-130 | 50 |
| Benzo(g,h,i)perylene | ND | 749 | 719 | 96 | 749 | 724 | 97 | 1 | 30-130 | 50 |
| bis(2-Chloroethoxy)methane | ND | 749 | 730 | 97 | 749 | 493 | 66 | 39 | 30-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 749 | 661 | 88 | 749 | 442 | 59 | 40 | 30-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 749 | 677 | 90 | 749 | 432 | 58 | 44 | 20-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 749 | 758 | 101 | 749 | 746 | 100 | 2 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 749 | 793 | 106 | 749 | 773 | 103 | 3 | 30-130 | 50 |
| Chrysene | ND | 749 | 742 | 99 | 749 | 728 | 97 | 2 | 30-130 | 50 |
| Di-n-butylphthalate | ND | 749 | 701 | 94 | 749 | 676 | 90 | 4 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 749 | 782 | 104 | 749 | 781 | 104 | 0 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 749 | 732 | 98 | 749 | 742 | 99 | 1 | 30-130 | 50 |
| Dibenzofuran | ND | 749 | 650 | 87 | 749 | 577 | 77 | 12 | 30-130 | 50 |
| Diethylphthalate | ND | 749 | 686 | 92 | 749 | 650 | 87 | 5 | 30-130 | 50 |
| Dimethylphthalate | ND | 749 | 674 | 90 | 749 | 628 | 84 | 7 | 30-130 | 50 |
| Fluoranthene | ND | 749 | 736 | 98 | 749 | 717 | 96 | 3 | 30-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 749 | 729 | 97 | 749 | 677 | 90 | 7 | 20-130 | 50 |
| Hexachlorobenzene | ND | 749 | 621 | 83 | 749 | 625 | 83 | 1 | 10-160 | 50 |
| Hexachlorobutadiene | ND | 749 | 548 | 73 | 749 | 367 | 49 | 40 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 749 | 439 | 59 | 749 | 216 | 29 | 68* | 10-130 | 50 |
| Hexachloroethane | ND | 749 | 398 | 53 | 749 | 239 | 32 | 50 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 749 | 713 | 95 | 749 | 725 | 97 | 2 | 20-130 | 50 |
| Isophorone | ND | 749 | 814 | 109 | 749 | 587 | 78 | 32 | 30-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 749 | 560 | 75 | 749 | 386 | 52 | 37 | 20-130 | 50 |
| n-Nitrosodiphenylamine | ND | 749 | 495 | 66 | 749 | 476 | 64 | 4 | 20-140 | 50 |
| Naphthalene | ND | 749 | 640 | 85 | 749 | 434 | 58 | 38 | 30-130 | 50 |
| Nitrobenzene | ND | 749 | 696 | 93 | 749 | 465 | 62 | 40 | 30-130 | 50 |
| Pentachlorophenol | ND | 749 | 665 | 89 | 749 | 644 | 86 | 3 | 10-130 | 50 |
| Phenanthrene | ND | 749 | 713 | 95 | 749 | 692 | 92 | 3 | 20-130 | 50 |
| Phenol | ND | 749 | 601 | 80 | 749 | 430 | 57 | 33 | 20-130 | 50 |
| Pyrene | ND | 749 | 727 | 97 | 749 | 714 | 95 | 2 | 10-160 | 50 |
| Benzyl Alcohol | ND | 749 | 597 | 80 | 749 | 420 | 56 | 35 | 30-130 | 50 |
| 1-Methylnaphthalene | ND | 749 | 673 | 90 | 749 | 499 | 67 | 30 | 20-130 | 50 |
| 1,2-Diphenylhydrazine | ND | 749 | 679 | 91 | 749 | 626 | 84 | 8 | 20-150 | 50 |
| 3,5-Dimethylphenol | ND | 749 | 606 | 81 | 749 | 516 | 69 | 16 | 20-130 | 50 |
| Aniline | ND | 749 | 297J | 40 | 749 | 253J | 34 | 16 | 10-150 | 50 |
| Benzidine | ND | 3000 | ND | 0* | 3000 | ND | 0* | 0 | 10-150 | 50 |
| Benzoic Acid | ND | 3000 | 1910 | 64 | 3000 | 1820 | 61 | 5 | 10-130 | 50 |
| Carbazole | ND | 749 | 666 | 89 | 749 | 654 | 87 | 2 | 30-130 | 50 |
| N-Nitrosodimethylamine | ND | 749 | 725 | 97 | 749 | 500 | 67 | 37 | 20-130 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1120 | 938 | 83 | 1120 | 901 | 80 | 35-130 |
| 2-Fluorobiphenyl | 374 | 264 | 71 | 374 | 194 | 52 | 45-130 |
| 2-Fluorophenol | 1120 | 763 | 68 | 1120 | 521 | 46 | 25-130 |
| Nitrobenzene-d5 | 374 | 282 | 75 | 374 | 183 | 49 | 40-130 |
| Phenol-d5 | 1120 | 799 | 71 | 1120 | 553 | 49 | 25-120 |
| Terphenyl-d14 | 374 | 324 | 86 | 374 | 311 | 83 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-012-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 19:59 |
| Lab Samp ID: D176-01 | Dilution Factor: 1 |
| Lab File ID: REJ020 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 14.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 0.99 |
| ACENAPHTHYLENE | ND | 2.0 | 0.99 |
| ANTHRACENE | ND | 2.0 | 0.99 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 0.99 |
| BENZO(A)PYRENE | 1.2J | 2.0 | 0.99 |
| BENZO(B)FLUORANTHENE | 1.3J | 2.0 | 0.99 |
| BENZO(K)FLUORANTHENE | 1.1J | 2.0 | 0.99 |
| BENZO(G,H,I)PERYLENE | 1.1J | 2.0 | 0.99 |
| CHRYSENE | 1.0J | 2.0 | 0.99 |
| DIBENZO(A,H)ANTHRACENE | 1.1J | 2.0 | 0.99 |
| FLUORANTHENE | ND | 2.0 | 0.99 |
| FLUORENE | ND | 2.0 | 0.99 |
| INDENO(1,2,3-CD)PYRENE | 1.3J | 2.0 | 0.99 |
| NAPHTHALENE | ND | 2.0 | 0.99 |
| PHENANTHRENE | ND | 2.0 | 0.99 |
| PYRENE | ND | 2.0 | 0.99 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 20 | 19 | 9.8 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.8 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.8 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.8 |
| DIETHYLPHTHALATE | ND | 19 | 9.8 |
| DIMETHYLPHTHALATE | ND | 19 | 9.8 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 0.99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 229 | 388.9 | 59.0 | 40-130 |
| 2-FLUOROBIPHENYL | 201 | 388.9 | 51.7 | 45-130 |
| TERPHENYL-D14 | 265 | 388.9 | 68.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-012-NBZ-SB-0.5-1.5 | Date Analyzed: 05/02/12 20:18 |
| Lab Samp ID: D176-03 | Dilution Factor: 1 |
| Lab File ID: REJ021 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 16.4 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 1.0 |
| ACENAPHTHYLENE | ND | 2.0 | 1.0 |
| ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | ND | 2.0 | 1.0 |
| BENZO(A)PYRENE | ND | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | ND | 2.0 | 1.0 |
| CHRYSENE | ND | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 1.0 |
| FLUORANTHENE | ND | 2.0 | 1.0 |
| FLUORENE | ND | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.0 | 1.0 |
| NAPHTHALENE | ND | 2.0 | 1.0 |
| PHENANTHRENE | ND | 2.0 | 1.0 |
| PYRENE | ND | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 22 | 20 | 10 |
| BUTYLBENZYLPHTHALATE | ND | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 175 | 398.7 | 44.0 | 40-130 |
| 2-FLUOROBIPHENYL | 149 | 398.7 | 37.3* | 45-130 |
| TERPHENYL-D14 | 292 | 398.7 | 73.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-017-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 20:37 |
| Lab Samp ID: D176-04 | Dilution Factor: 1 |
| Lab File ID: REJ022 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 29.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.4 | 1.2 |
| ACENAPHTHYLENE | ND | 2.4 | 1.2 |
| ANTHRACENE | ND | 2.4 | 1.2 |
| BENZO(A)ANTHRACENE | ND | 2.4 | 1.2 |
| BENZO(A)PYRENE | 1.4J | 2.4 | 1.2 |
| BENZO(B)FLUORANTHENE | 2.3J | 2.4 | 1.2 |
| BENZO(K)FLUORANTHENE | ND | 2.4 | 1.2 |
| BENZO(G,H,I)PERYLENE | 1.5J | 2.4 | 1.2 |
| CHRYSENE | 1.4J | 2.4 | 1.2 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.4 | 1.2 |
| FLUORANTHENE | 2.3J | 2.4 | 1.2 |
| FLUORENE | 2.7 | 2.4 | 1.2 |
| INDENO(1,2,3-CD)PYRENE | 1.6J | 2.4 | 1.2 |
| NAPHTHALENE | ND | 2.4 | 1.2 |
| PHENANTHRENE | 1.4J | 2.4 | 1.2 |
| PYRENE | 2.3J | 2.4 | 1.2 |
| 2-METHYLNAPHTHALENE | ND | 2.4 | 1.2 |
| 1-METHYLNAPHTHALENE | ND | 2.4 | 1.2 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 29 | 24 | 12 |
| BUTYLBENZYLPHTHALATE | ND | 24 | 12 |
| DI-N-BUTYLPHTHALATE | ND | 24 | 12 |
| DI-N-OCTYLPHTHALATE | ND | 24 | 12 |
| DIETHYLPHTHALATE | ND | 24 | 12 |
| DIMETHYLPHTHALATE | ND | 24 | 12 |
| N-NITROSODIMETHYLAMINE | ND | 2.4 | 1.2 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 313 | 474.1 | 66.1 | 40-130 |
| 2-FLUOROBIPHENYL | 287 | 474.1 | 60.5 | 45-130 |
| TERPHENYL-D14 | 362 | 474.1 | 76.4 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-086-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 20:56 |
| Lab Samp ID: D176-05 | Dilution Factor: 1 |
| Lab File ID: REJ023 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 22.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.2 | 1.1 |
| ACENAPHTHYLENE | ND | 2.2 | 1.1 |
| ANTHRACENE | ND | 2.2 | 1.1 |
| BENZO(A)ANTHRACENE | 3.9 | 2.2 | 1.1 |
| BENZO(A)PYRENE | 2.0J | 2.2 | 1.1 |
| BENZO(B)FLUORANTHENE | 2.4 | 2.2 | 1.1 |
| BENZO(K)FLUORANTHENE | ND | 2.2 | 1.1 |
| BENZO(G,H,I)PERYLENE | ND | 2.2 | 1.1 |
| CHRYSENE | ND | 2.2 | 1.1 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.2 | 1.1 |
| FLUORANTHENE | 2.1J | 2.2 | 1.1 |
| FLUORENE | 1.6J | 2.2 | 1.1 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.2 | 1.1 |
| NAPHTHALENE | ND | 2.2 | 1.1 |
| PHENANTHRENE | 1.6J | 2.2 | 1.1 |
| PYRENE | 2.3 | 2.2 | 1.1 |
| 2-METHYLNAPHTHALENE | ND | 2.2 | 1.1 |
| 1-METHYLNAPHTHALENE | ND | 2.2 | 1.1 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 26 | 22 | 11 |
| BUTYLBENZYLPHTHALATE | 41 | 22 | 11 |
| DI-N-BUTYLPHTHALATE | ND | 22 | 11 |
| DI-N-OCTYLPHTHALATE | ND | 22 | 11 |
| DIETHYLPHTHALATE | ND | 22 | 11 |
| DIMETHYLPHTHALATE | ND | 22 | 11 |
| N-NITROSODIMETHYLAMINE | ND | 2.2 | 1.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 269 | 430.6 | 62.4 | 40-130 |
| 2-FLUOROBIPHENYL | 243 | 430.6 | 56.5 | 45-130 |
| TERPHENYL-D14 | 304 | 430.6 | 70.5 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-087-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 21:15 |
| Lab Samp ID: D176-07 | Dilution Factor: 1 |
| Lab File ID: REJ024 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 20.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.1 | 1.1 |
| ACENAPHTHYLENE | 1.1J | 2.1 | 1.1 |
| ANTHRACENE | ND | 2.1 | 1.1 |
| BENZO(A)ANTHRACENE | ND | 2.1 | 1.1 |
| BENZO(A)PYRENE | ND | 2.1 | 1.1 |
| BENZO(B)FLUORANTHENE | ND | 2.1 | 1.1 |
| BENZO(K)FLUORANTHENE | ND | 2.1 | 1.1 |
| BENZO(G,H,I)PERYLENE | ND | 2.1 | 1.1 |
| CHRYSENE | ND | 2.1 | 1.1 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.1 | 1.1 |
| FLUORANTHENE | ND | 2.1 | 1.1 |
| FLUORENE | ND | 2.1 | 1.1 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.1 | 1.1 |
| NAPHTHALENE | 1.6J | 2.1 | 1.1 |
| PHENANTHRENE | ND | 2.1 | 1.1 |
| PYRENE | ND | 2.1 | 1.1 |
| 2-METHYLNAPHTHALENE | 1.4J | 2.1 | 1.1 |
| 1-METHYLNAPHTHALENE | 1.3J | 2.1 | 1.1 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 17J | 21 | 11 |
| BUTYLBENZYLPHTHALATE | ND | 21 | 11 |
| DI-N-BUTYLPHTHALATE | ND | 21 | 11 |
| DI-N-OCTYLPHTHALATE | ND | 21 | 11 |
| DIETHYLPHTHALATE | ND | 21 | 11 |
| DIMETHYLPHTHALATE | ND | 21 | 11 |
| N-NITROSODIMETHYLAMINE | ND | 2.1 | 1.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 232 | 420.8 | 55.0 | 40-130 |
| 2-FLUOROBIPHENYL | 206 | 420.8 | 48.9 | 45-130 |
| TERPHENYL-D14 | 298 | 420.8 | 70.7 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-150-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 21:34 |
| Lab Samp ID: D176-08 | Dilution Factor: 1 |
| Lab File ID: REJ025 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 11.2 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.96 |
| ACENAPHTHYLENE | ND | 1.9 | 0.96 |
| ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)PYRENE | 1.4J | 1.9 | 0.96 |
| BENZO(B)FLUORANTHENE | 2.5 | 1.9 | 0.96 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(G,H,I)PERYLENE | 1.8J | 1.9 | 0.96 |
| CHRYSENE | 1.7J | 1.9 | 0.96 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.96 |
| FLUORANTHENE | 2.3 | 1.9 | 0.96 |
| FLUORENE | ND | 1.9 | 0.96 |
| INDENO(1,2,3-CD)PYRENE | 1.6J | 1.9 | 0.96 |
| NAPHTHALENE | ND | 1.9 | 0.96 |
| PHENANTHRENE | 1.2J | 1.9 | 0.96 |
| PYRENE | 2.2 | 1.9 | 0.96 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 16J | 19 | 9.5 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.5 |
| DIETHYLPHTHALATE | ND | 19 | 9.5 |
| DIMETHYLPHTHALATE | ND | 19 | 9.5 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.96 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 229 | 375.3 | 61.0 | 40-130 |
| 2-FLUOROBIPHENYL | 219 | 375.3 | 58.3 | 45-130 |
| TERPHENYL-D14 | 270 | 375.3 | 71.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-178-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 21:53 |
| Lab Samp ID: D176-09 | Dilution Factor: 1 |
| Lab File ID: REJ026 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 10.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)PYRENE | 1.4J | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | 2.4 | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | 1.8J | 1.9 | 0.95 |
| CHRYSENE | 2.0 | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | 2.4 | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | 1.3J | 1.9 | 0.95 |
| NAPHTHALENE | ND | 1.9 | 0.95 |
| PHENANTHRENE | 1.3J | 1.9 | 0.95 |
| PYRENE | 2.3 | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 28 | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | 12J | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 230 | 373.2 | 61.5 | 40-130 |
| 2-FLUOROBIPHENYL | 220 | 373.2 | 59.0 | 45-130 |
| TERPHENYL-D14 | 271 | 373.2 | 72.7 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-179-NBZ-SS-0.0-0.5 | Date Analyzed: 05/14/12 16:36 |
| Lab Samp ID: D176-10W | Dilution Factor: 1 |
| Lab File ID: REJ332 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 11.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.96 |
| ACENAPHTHYLENE | ND | 1.9 | 0.96 |
| ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)PYRENE | ND | 1.9 | 0.96 |
| BENZO(B)FLUORANTHENE | 1.6J | 1.9 | 0.96 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(G,H,I)PERYLENE | 1.2J | 1.9 | 0.96 |
| CHRYSENE | ND | 1.9 | 0.96 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.96 |
| FLUORANTHENE | 1.2J | 1.9 | 0.96 |
| FLUORENE | ND | 1.9 | 0.96 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.96 |
| NAPHTHALENE | ND | 1.9 | 0.96 |
| PHENANTHRENE | ND | 1.9 | 0.96 |
| PYRENE | 1.2J | 1.9 | 0.96 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 18J | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.96 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 250 | 374.5 | 66.7 | 40-130 |
| 2-FLUOROBIPHENYL | 250 | 374.5 | 66.7 | 45-130 |
| TERPHENYL-D14 | 284 | 374.5 | 75.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-184-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 22:30 |
| Lab Samp ID: D176-11 | Dilution Factor: 1 |
| Lab File ID: REJ028 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 11.9 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.96 |
| ACENAPHTHYLENE | ND | 1.9 | 0.96 |
| ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)PYRENE | ND | 1.9 | 0.96 |
| BENZO(B)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.96 |
| CHRYSENE | ND | 1.9 | 0.96 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.96 |
| FLUORANTHENE | ND | 1.9 | 0.96 |
| FLUORENE | ND | 1.9 | 0.96 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.96 |
| NAPHTHALENE | 1.1J | 1.9 | 0.96 |
| PHENANTHRENE | ND | 1.9 | 0.96 |
| PYRENE | ND | 1.9 | 0.96 |
| 2-METHYLNAPHTHALENE | 1.0J | 1.9 | 0.96 |
| 1-METHYLNAPHTHALENE | 1.1J | 1.9 | 0.96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 27 | 19 | 9.5 |
| BUTYLBENZYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.5 |
| DIETHYLPHTHALATE | ND | 19 | 9.5 |
| DIMETHYLPHTHALATE | ND | 19 | 9.5 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.96 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 243 | 378.3 | 64.2 | 40-130 |
| 2-FLUOROBIPHENYL | 208 | 378.3 | 54.9 | 45-130 |
| TERPHENYL-D14 | 273 | 378.3 | 72.1 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-193-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 22:49 |
| Lab Samp ID: D176-12 | Dilution Factor: 1 |
| Lab File ID: REJ029 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 11.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.96 |
| ACENAPHTHYLENE | ND | 1.9 | 0.96 |
| ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)PYRENE | 1.2J | 1.9 | 0.96 |
| BENZO(B)FLUORANTHENE | 2.1 | 1.9 | 0.96 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(G,H,I)PERYLENE | 1.5J | 1.9 | 0.96 |
| CHRYSENE | 1.4J | 1.9 | 0.96 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.96 |
| FLUORANTHENE | 1.7J | 1.9 | 0.96 |
| FLUORENE | ND | 1.9 | 0.96 |
| INDENO(1,2,3-CD)PYRENE | 1.2J | 1.9 | 0.96 |
| NAPHTHALENE | 1.1J | 1.9 | 0.96 |
| PHENANTHRENE | 1.1J | 1.9 | 0.96 |
| PYRENE | 1.7J | 1.9 | 0.96 |
| 2-METHYLNAPHTHALENE | 1.2J | 1.9 | 0.96 |
| 1-METHYLNAPHTHALENE | 0.98J | 1.9 | 0.96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 22 | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | 13J | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.96 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 271 | 374.5 | 72.4 | 40-130 |
| 2-FLUOROBIPHENYL | 237 | 374.5 | 63.4 | 45-130 |
| TERPHENYL-D14 | 295 | 374.5 | 78.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: DUP-09-NBZ-QC-041912 | Date Analyzed: 05/02/12 23:08 |
| Lab Samp ID: D176-13 | Dilution Factor: 1 |
| Lab File ID: REJ030 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 10.5 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.95 |
| ACENAPHTHYLENE | ND | 1.9 | 0.95 |
| ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.95 |
| BENZO(A)PYRENE | ND | 1.9 | 0.95 |
| BENZO(B)FLUORANTHENE | 1.3J | 1.9 | 0.95 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.95 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.95 |
| CHRYSENE | 1.3J | 1.9 | 0.95 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.95 |
| FLUORANTHENE | 1.3J | 1.9 | 0.95 |
| FLUORENE | ND | 1.9 | 0.95 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.95 |
| NAPHTHALENE | ND | 1.9 | 0.95 |
| PHENANTHRENE | ND | 1.9 | 0.95 |
| PYRENE | 1.6J | 1.9 | 0.95 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 19 | 19 | 9.4 |
| BUTYLBENZYLPHTHALATE | 21 | 19 | 9.4 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.4 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.4 |
| DIETHYLPHTHALATE | ND | 19 | 9.4 |
| DIMETHYLPHTHALATE | ND | 19 | 9.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.95 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 236 | 372.4 | 63.4 | 40-130 |
| 2-FLUOROBIPHENYL | 205 | 372.4 | 55.2 | 45-130 |
| TERPHENYL-D14 | 293 | 372.4 | 78.7 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/27/12 |
| Batch No. : 12D176 | Date Extracted: 04/27/1212:09 |
| Sample ID: MBLK1S | Date Analyzed: 05/02/12 17:10 |
| Lab Samp ID: SVD050SB | Dilution Factor: 1 |
| Lab File ID: REJ011 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 246 | 333.3 | 73.9 | 40-130 |
| 2-FLUOROBIPHENYL | 231 | 333.3 | 69.4 | 45-130 |
| TERPHENYL-D14 | 268 | 333.3 | 80.5 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVD050SB | SVD050SX | SVD050SY | | |
| LAB FILE ID: | REJ011 | REJ014 | REJ015 | | |
| DATE EXTRACTED: | 04/27/1212:09 | 04/27/1212:09 | 04/27/1212:09 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/02/1217:10 | 05/02/1218:06 | 05/02/1218:25 | DATE RECEIVED: | 04/27/12 |
| PREP. BATCH: | SVD050S | SVD050S | SVD050S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 271 | 81 | 333 | 279 | 84 | 3 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 308 | 92 | 333 | 319 | 96 | 3 | 20-130 | 50 |
| Anthracene | ND | 333 | 265 | 80 | 333 | 279 | 84 | 5 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 292 | 88 | 333 | 327 | 98 | 11 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 307 | 92 | 333 | 319 | 96 | 4 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 310 | 93 | 333 | 326 | 98 | 5 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 345 | 104 | 333 | 352 | 106 | 2 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 329 | 99 | 333 | 337 | 101 | 2 | 30-140 | 50 |
| Chrysene | ND | 333 | 281 | 84 | 333 | 314 | 94 | 11 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 331 | 99 | 333 | 341 | 102 | 3 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 296 | 89 | 333 | 330 | 99 | 11 | 30-130 | 50 |
| Fluorene | ND | 333 | 301 | 90 | 333 | 307 | 92 | 2 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 331 | 99 | 333 | 342 | 102 | 3 | 20-160 | 50 |
| Naphthalene | ND | 333 | 253 | 76 | 333 | 260 | 78 | 3 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 262 | 79 | 333 | 276 | 83 | 5 | 20-130 | 50 |
| Pyrene | ND | 333 | 283 | 85 | 333 | 318 | 95 | 12 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 276 | 83 | 333 | 285 | 86 | 3 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 274 | 82 | 333 | 284 | 85 | 3 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 268 | 80 | 333 | 295 | 88 | 9 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 247 | 74 | 333 | 275 | 83 | 11 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 260 | 78 | 333 | 280 | 84 | 7 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 262 | 79 | 333 | 270 | 81 | 3 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 286 | 86 | 333 | 289 | 87 | 1 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 276 | 83 | 333 | 282 | 85 | 2 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 278 | 83 | 333 | 282 | 85 | 1 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 236 | 71 | 333 | 224 | 67 | 40-130 |
| 2-Fluorobiphenyl | 333 | 221 | 66 | 333 | 220 | 66 | 45-130 |
| Terphenyl-d14 | 333 | 259 | 78 | 333 | 276 | 83 | 45-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: 11.0

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-193-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D176-12 | D176-12M | D176-12S | | |
| LAB FILE ID: | REJ029 | REJ018 | REJ019 | | |
| DATE EXTRACTED: | 04/27/1212:09 | 04/27/1212:09 | 04/27/1212:09 | DATE COLLECTED: | 04/19/12 |
| DATE ANALYZED: | 05/02/1222:49 | 05/02/1219:22 | 05/02/1219:41 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | SVD050S | SVD050S | SVD050S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 374 | 184 | 49 | 374 | 230 | 61 | 22 | 10-130 | 50 |
| Acenaphthylene | ND | 374 | 207 | 55 | 374 | 258 | 69 | 22 | 20-130 | 50 |
| Anthracene | ND | 374 | 294 | 79 | 374 | 307 | 82 | 4 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 374 | 358 | 96 | 374 | 372 | 99 | 4 | 30-130 | 50 |
| Benzo(a)pyrene | 1.19J | 374 | 372 | 99 | 374 | 375 | 100 | 1 | 30-130 | 50 |
| Benzo(b)fluoranthene | 2.07 | 374 | 396 | 105 | 374 | 388 | 103 | 2 | 30-130 | 50 |
| Benzo(k)fluoranthene | ND | 374 | 389 | 104 | 374 | 401 | 107 | 3 | 30-130 | 50 |
| Benzo(g,h,i)perylene | 1.48J | 374 | 389 | 104 | 374 | 398 | 106 | 2 | 30-140 | 50 |
| Chrysene | 1.39J | 374 | 345 | 92 | 374 | 352 | 93 | 2 | 20-130 | 50 |
| Dibenzo(a,h)anthracene | ND | 374 | 405 | 108 | 374 | 412 | 110 | 2 | 30-130 | 50 |
| Fluoranthene | 1.70J | 374 | 373 | 99 | 374 | 378 | 100 | 1 | 30-130 | 50 |
| Fluorene | ND | 374 | 239 | 64 | 374 | 296 | 79 | 21 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | 1.17J | 374 | 401 | 107 | 374 | 409 | 109 | 2 | 20-160 | 50 |
| Naphthalene | 1.12J | 374 | 134 | 35 | 374 | 139 | 37 | 4 | 10-130 | 50 |
| Phenanthrene | 1.10J | 374 | 293 | 78 | 374 | 309 | 82 | 5 | 20-130 | 50 |
| Pyrene | 1.68J | 374 | 355 | 94 | 374 | 361 | 96 | 2 | 10-160 | 50 |
| 2-Methylnaphthalene | 1.15J | 374 | 162 | 43 | 374 | 181 | 48 | 11 | 30-150 | 50 |
| 1-Methylnaphthalene | 0.981J | 374 | 164 | 44 | 374 | 187 | 50 | 13 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | 22.3 | 374 | 375 | 94 | 374 | 369 | 93 | 2 | 20-150 | 50 |
| Butylbenzylphthalate | 12.8J | 374 | 365 | 94 | 374 | 361 | 93 | 1 | 20-150 | 50 |
| Di-n-butylphthalate | ND | 374 | 335 | 89 | 374 | 333 | 89 | 1 | 20-150 | 50 |
| Di-n-octylphthalate | ND | 374 | 370 | 99 | 374 | 356 | 95 | 4 | 10-150 | 50 |
| Diethylphthalate | ND | 374 | 279 | 75 | 374 | 308 | 82 | 10 | 20-150 | 50 |
| Dimethylphthalate | ND | 374 | 224 | 60 | 374 | 272 | 73 | 19 | 20-150 | 50 |
| N-Nitrosodimethylamine | ND | 374 | 175 | 47 | 374 | 166 | 44 | 5 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 374 | 150 | 40 | 374 | 150 | 40 | 40-130 |
| 2-Fluorobiphenyl | 374 | 135 | 36* | 374 | 167 | 45 | 45-130 |
| Terphenyl-d14 | 374 | 318 | 85 | 374 | 330 | 88 | 45-135 |

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/24/12 07:27 |
| Sample ID: SL-012-NBZ-SB-1.0 | Date Analyzed: 04/24/12 07:27 |
| Lab Samp ID: D176-02 | Dilution Factor: 0.93 |
| Lab File ID: ED23030A | Matrix : SOIL |
| Ext Btch ID: GMD019S | % Moisture : 13.4 |
| Calib. Ref.: ED23021A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.1 | 0.54 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.70 | 2.148 | 79.0 | 60-130 |

RL : Reporting Limit

Methanol Extraction: 04/23/12 14:22

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/24/12 08:09 |
| Sample ID: SL-087-NBZ-SS-0.5 | Date Analyzed: 04/24/12 08:09 |
| Lab Samp ID: D176-06 | Dilution Factor: 0.98 |
| Lab File ID: ED23031A | Matrix : SOIL |
| Ext Btch ID: GMD019S | % Moisture : 22.7 |
| Calib. Ref.: ED23021A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.3 | 0.63 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.78 | 2.536 | 70.4 | 60-130 |

RL : Reporting Limit

Methanol Extraction: 04/23/12 14:22

METHOD 5035/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/24/12 |
| Batch No. : 12D176 | Date Extracted: 04/24/12 06:46 |
| Sample ID: MBLK1S | Date Analyzed: 04/24/12 06:46 |
| Lab Samp ID: GMD019SB | Dilution Factor: 1 |
| Lab File ID: ED23029A | Matrix : SOIL |
| Ext Btch ID: GMD019S | % Moisture : NA |
| Calib. Ref.: ED23021A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 1.73 | 2.000 | 86.5 | 60-130 |

RL : Reporting Limit

Methanol Extraction: 04/23/12 14:22

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 5035/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | GMD019SB | GMD019SL | GMD019SC | | |
| LAB FILE ID: | ED23029A | ED23027A | ED23028A | | |
| DATE EXTRACTED: | 04/24/1206:46 | 04/24/1205:22 | 04/24/1206:04 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/24/1206:46 | 04/24/1205:22 | 04/24/1206:04 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | GMD019S | GMD019S | GMD019S | | |
| CALIB. REF: | ED23021A | ED23021A | ED23021A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 25.0 | 21.8 | 87 | 25.0 | 21.0 | 84 | 4 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 2.00 | 2.06 | 103 | 2.00 | 1.92 | 96 | 60-130 |

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/23/12 20:58 |
| Sample ID: TB-041912 | Date Analyzed: 04/23/12 20:58 |
| Lab Samp ID: D176-14 | Dilution Factor: 1 |
| Lab File ID: ED23015A | Matrix : WATER |
| Ext Btch ID: VA39D17 | % Moisture : NA |
| Calib. Ref.: ED23010A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 14J | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 34.3 | 40.00 | 85.7 | 60-130 |

RL : Reporting Limit

METHOD 5030B/8015B GRO
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D176 | Date Extracted: 04/23/12 12:36 |
| Sample ID: MBLK1W | Date Analyzed: 04/23/12 12:36 |
| Lab Samp ID: VA39D17B | Dilution Factor: 1 |
| Lab File ID: ED23003A | Matrix : WATER |
| Ext Btch ID: VA39D17 | % Moisture : NA |
| Calib. Ref.: ED23002A | Instrument ID : GCT039 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 50 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 4-BROMOFLUOROBENZENE | 31.9 | 40.00 | 79.6 | 60-130 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 5030B/8015B GRO

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | VA39D17B | VA39D17L | VA39D17C | | |
| LAB FILE ID: | ED23003A | ED23004A | ED23005A | | |
| DATE EXTRACTED: | 04/23/1212:36 | 04/23/1213:18 | 04/23/1214:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/23/1212:36 | 04/23/1213:18 | 04/23/1214:00 | DATE RECEIVED: | 04/23/12 |
| PREP. BATCH: | VA39D17 | VA39D17 | VA39D17 | | |
| CALIB. REF: | ED23002A | ED23002A | ED23002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | ND | 500 | 423 | 85 | 500 | 407 | 81 | 4 | 60-130 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 40.0 | 34.9 | 87 | 40.0 | 34.6 | 87 | 60-130 |

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/20/12 09:00 |
| Sample ID: SL-012-NBZ-SB-0.5-1.5 | Date Analyzed: 04/20/12 12:13 |
| Lab Samp ID: D176-03 | Dilution Factor: 1 |
| Lab File ID: BD20008A | Matrix : SOIL |
| Ext Btch ID: MED003S | % Moisture : 16.4 |
| Calib. Ref.: BD20002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 600 | 300 |
| ISOPROPANOL | ND | 600 | 300 |
| METHANOL | ND | 600 | 300 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/20/12 09:00 |
| Sample ID: SL-087-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 12:55 |
| Lab Samp ID: D176-07 | Dilution Factor: 1 |
| Lab File ID: BD20009A | Matrix : SOIL |
| Ext Btch ID: MED003S | % Moisture : 20.8 |
| Calib. Ref.: BD20002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 630 | 320 |
| ISOPROPANOL | ND | 630 | 320 |
| METHANOL | ND | 630 | 320 |

RL : Reporting Limit

METHOD 8015B
ALCOHOLS BY GC

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D176 | Date Extracted: 04/20/12 09:00 |
| Sample ID: MBLK1S | Date Analyzed: 04/20/12 10:09 |
| Lab Samp ID: MED003SB | Dilution Factor: 1 |
| Lab File ID: BD20003A | Matrix : SOIL |
| Ext Btch ID: MED003S | % Moisture : NA |
| Calib. Ref.: BD20002A | Instrument ID : GCT072 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ETHANOL | ND | 500 | 250 |
| ISOPROPANOL | ND | 500 | 250 |
| METHANOL | ND | 500 | 250 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 8015B

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | MED003SB | MED003SX | MED003SC | | |
| LAB FILE ID: | BD20003A | BD20006A | BD20005A | | |
| DATE EXTRACTED: | 04/20/1209:00 | 04/20/1209:00 | 04/20/1209:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/20/1210:09 | 04/20/1211:32 | 04/20/1211:14 | DATE RECEIVED: | 04/20/12 |
| PREP. BATCH: | MED003S | MED003S | MED003S | | |
| CALIB. REF: | BD20002A | BD20002A | BD20002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethanol | ND | 10000 | 10400 | 104 | 10000 | 9310 | 93 | 11 | 50-150 | 50 |
| Isopropanol | ND | 10000 | 9270 | 93 | 10000 | 9240 | 92 | 0 | 50-150 | 50 |
| Methanol | ND | 10000 | 9410 | 94 | 10000 | 8490 | 85 | 10 | 50-150 | 50 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/20/12 09:00 |
| Sample ID: SL-012-NBZ-SB-0.5-1.5 | Date Analyzed: 04/20/12 13:02 |
| Lab Samp ID: D176-03 | Dilution Factor: 1 |
| Lab File ID: TD20013A | Matrix : SOIL |
| Ext Btch ID: PED003S | % Moisture : 16.4 |
| Calib. Ref.: TD20004A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 18 | 9.0 |
| ETHYLENE GLYCOL | ND | 12 | 6.0 |
| PROPYLENE GLYCOL | ND | 12 | 6.0 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/20/12 09:00 |
| Sample ID: SL-087-NBZ-SS-0.0-0.5 | Date Analyzed: 04/20/12 13:15 |
| Lab Samp ID: D176-07 | Dilution Factor: 1 |
| Lab File ID: TD20014A | Matrix : SOIL |
| Ext Btch ID: PED003S | % Moisture : 20.8 |
| Calib. Ref.: TD20004A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 19 | 9.5 |
| ETHYLENE GLYCOL | ND | 13 | 6.3 |
| PROPYLENE GLYCOL | ND | 13 | 6.3 |

METHOD 8015M
GLYCOLS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D176 | Date Extracted: 04/20/12 09:00 |
| Sample ID: MBLK1S | Date Analyzed: 04/20/12 10:13 |
| Lab Samp ID: PED003SB | Dilution Factor: 1 |
| Lab File ID: TD20005A | Matrix : SOIL |
| Ext Btch ID: PED003S | % Moisture : NA |
| Calib. Ref.: TD20004A | Instrument ID : GCT050 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| DIETHYLENE GLYCOL | ND | 15 | 7.5 |
| ETHYLENE GLYCOL | ND | 10 | 5.0 |
| PROPYLENE GLYCOL | ND | 10 | 5.0 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 8015M

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PED003SB | PED003SX | PED003SC | | |
| LAB FILE ID: | TD20005A | TD20008A | TD20007A | | |
| DATE EXTRACTED: | 04/20/1209:00 | 04/20/1209:00 | 04/20/1209:00 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/20/1210:13 | 04/20/1211:01 | 04/20/1210:45 | DATE RECEIVED: | 04/20/12 |
| PREP. BATCH: | PED003S | PED003S | PED003S | | |
| CALIB. REF: | TD20004A | TD20004A | TD20004A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethylene Glycol | ND | 50.0 | 51.5 | 103 | 50.0 | 46.4 | 93 | 10 | 50-150 | 50 |
| Ethylene Glycol | ND | 50.0 | 47.6 | 95 | 50.0 | 44.0 | 88 | 8 | 50-150 | 50 |
| Propylene Glycol | ND | 25.0 | 23.5 | 94 | 25.0 | 21.6 | 86 | 8 | 50-150 | 50 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 15:15 |
| Sample ID: SL-012-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 12:28 |
| Lab Samp ID: D176-01R | Dilution Factor: 1 |
| Lab File ID: LD26079A | Matrix : SOIL |
| Ext Btch ID: DSD044S | % Moisture : 14.3 |
| Calib. Ref.: LD26074A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.2 | 0.58 |
| EFH(C12-C14) | ND | 1.2 | 0.58 |
| EFH(C15-C20) | 0.69J | 1.2 | 0.58 |
| EFH(C21-C30) | 5.6 | 1.2 | 0.58 |
| EFH(C30-C40) | 12 | 1.2 | 0.58 |
| TOTAL EFH(C8-C40) | 18 | 1.2 | 0.58 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.52 | 11.67 | 64.4 | 50-150 |
| HEXACOSANE | 2.43 | 2.917 | 83.3 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/24/12 14:55 |
| Sample ID: SL-012-NBZ-SB-0.5-1.5 | Date Analyzed: 04/25/12 09:37 |
| Lab Samp ID: D176-03 | Dilution Factor: 1 |
| Lab File ID: LD24065A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : 16.4 |
| Calib. Ref.: LD24062A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.2 | 0.60 |
| EFH(C12-C14) | ND | 1.2 | 0.60 |
| EFH(C15-C20) | ND | 1.2 | 0.60 |
| EFH(C21-C30) | 1.4 | 1.2 | 0.60 |
| EFH(C30-C40) | 2.7 | 1.2 | 0.60 |
| TOTAL EFH(C8-C40) | 4.1 | 1.2 | 0.60 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.41 | 11.96 | 53.6 | 50-150 |
| HEXACOSANE | 2.49 | 2.990 | 83.4 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/24/12 14:55 |
| Sample ID: SL-017-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 11:53 |
| Lab Samp ID: D176-04 | Dilution Factor: 1 |
| Lab File ID: LD24073A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : 29.7 |
| Calib. Ref.: LD24062A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 3.8 | 1.4 | 0.71 |
| EFH(C12-C14) | 1.9 | 1.4 | 0.71 |
| EFH(C15-C20) | 13 | 1.4 | 0.71 |
| EFH(C21-C30) | 68 | 1.4 | 0.71 |
| EFH(C30-C40) | 100 | 1.4 | 0.71 |
| TOTAL EFH(C8-C40) | 190 | 1.4 | 0.71 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.18 | 14.22 | 50.4 | 50-150 |
| HEXACOSANE | 3.25 | 3.556 | 91.4 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/24/12 14:55 |
| Sample ID: SL-086-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 10:45 |
| Lab Samp ID: D176-05 | Dilution Factor: 1 |
| Lab File ID: LD24069A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : 22.6 |
| Calib. Ref.: LD24062A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 2.2 | 1.3 | 0.65 |
| EFH(C12-C14) | ND | 1.3 | 0.65 |
| EFH(C15-C20) | 2.7 | 1.3 | 0.65 |
| EFH(C21-C30) | 25 | 1.3 | 0.65 |
| EFH(C30-C40) | 40 | 1.3 | 0.65 |
| TOTAL EFH(C8-C40) | 70 | 1.3 | 0.65 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.66 | 12.92 | 51.5 | 50-150 |
| HEXACOSANE | 3.03 | 3.230 | 93.8 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 15:15 |
| Sample ID: SL-087-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 12:45 |
| Lab Samp ID: D176-07R | Dilution Factor: 1 |
| Lab File ID: LD26080A | Matrix : SOIL |
| Ext Btch ID: DSD044S | % Moisture : 20.8 |
| Calib. Ref.: LD26074A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.69J | 1.3 | 0.63 |
| EFH(C12-C14) | ND | 1.3 | 0.63 |
| EFH(C15-C20) | 1.1J | 1.3 | 0.63 |
| EFH(C21-C30) | 9.0 | 1.3 | 0.63 |
| EFH(C30-C40) | 18 | 1.3 | 0.63 |
| TOTAL EFH(C8-C40) | 29 | 1.3 | 0.63 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.90 | 12.63 | 62.5 | 50-150 |
| HEXACOSANE | 2.85 | 3.157 | 90.3 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/24/12 |
| Batch No. : 12D176 | Date Extracted: 04/24/12 14:55 |
| Sample ID: MBLK1S | Date Analyzed: 04/25/12 07:21 |
| Lab Samp ID: DSD040SB | Dilution Factor: 1 |
| Lab File ID: LD24057A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : NA |
| Calib. Ref.: LD24050A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.92 | 10.00 | 69.2 | 50-150 |
| HEXACOSANE | 1.96 | 2.500 | 78.5 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/26/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 15:15 |
| Sample ID: MBLK2S | Date Analyzed: 04/27/12 11:37 |
| Lab Samp ID: DSD044SB | Dilution Factor: 1 |
| Lab File ID: LD26076A | Matrix : SOIL |
| Ext Btch ID: DSD044S | % Moisture : NA |
| Calib. Ref.: LD26074A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.10 | 10.00 | 71.0 | 50-150 |
| HEXACOSANE | 2.03 | 2.500 | 81.3 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSD040SB | DSD040SL | DSD040SC | | |
| LAB FILE ID: | LD24057A | LD24055A | LD24056A | | |
| DATE EXTRACTED: | 04/24/1214:55 | 04/24/1214:55 | 04/24/1214:55 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1207:21 | 04/25/1206:47 | 04/25/1207:04 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | DSD040S | DSD040S | DSD040S | | |
| CALIB. REF: | LD24050A | LD24050A | LD24050A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 45.1 | 90 | 50.0 | 40.7 | 81 | 10 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 7.75 | 78 | 10.0 | 6.77 | 68 | 50-150 |
| Hexacosane | 2.50 | 2.16 | 86 | 2.50 | 2.05 | 82 | 50-150 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK2S | | | | |
| LAB SAMP ID: | DSD044SB | DSD044SL | DSD044SC | | |
| LAB FILE ID: | LD26076A | LD26077A | LD26078A | | |
| DATE EXTRACTED: | 04/26/1215:15 | 04/26/1215:15 | 04/26/1215:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/27/1211:37 | 04/27/1211:54 | 04/27/1212:11 | DATE RECEIVED: | 04/26/12 |
| PREP. BATCH: | DSD044S | DSD044S | DSD044S | | |
| CALIB. REF: | LD26074A | LD26074A | LD26074A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 42.0 | 84 | 50.0 | 40.0 | 80 | 5 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 7.15 | 71 | 10.0 | 7.20 | 72 | 50-150 |
| Hexacosane | 2.50 | 2.08 | 83 | 2.50 | 1.98 | 79 | 50-150 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 14:50 |
| Sample ID: SL-012-NBZ-SS-0.0-0.5 | Date Analyzed: 05/01/12 19:39 |
| Lab Samp ID: D176-01 | Dilution Factor: 1 |
| Lab File ID: LE01012A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 14.3 |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.44 | 0.20 | 0.099 \| 0.099 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.18J | 0.20 | 0.099 \| 0.099 |
| BETA-BHC | (ND) \| 0.49 | 0.20 | 0.099 \| 0.099 |
| HEPTACHLOR | 0.54 \| (ND) | 0.20 | 0.099 \| 0.099 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| ALDRIN | 0.22 \| (ND) | 0.20 | 0.099 \| 0.099 |
| HEPTACHLOR EPOXIDE | 0.12J \| (ND) | 0.20 | 0.099 \| 0.099 |
| ENDOSULFAN I | (ND) \| ND | 0.20 | 0.099 \| 0.099 |
| 4,4'-DDE | 0.57 \| (0.31J) | 0.40 | 0.20 \| 0.20 |
| DIELDRIN | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDRIN | 0.47 \| (ND) | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN II | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDT | (0.27J) \| 0.44 | 0.40 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| ENDRIN KETONE | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| ND | 2.0 | 0.99 \| 0.99 |
| MIREX | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.7 | 3.9 \| 3.9 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.0 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.208 \| (5.776) | 6.223 | 83.7 \| (92.8) | 50-130 |
| DECACHLOROBIPHENYL | (4.569) \| 4.472 | 6.223 | (73.4) \| 71.9 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 14:50 |
| Sample ID: SL-017-NBZ-SS-0.0-0.5 | Date Analyzed: 05/01/12 20:00 |
| Lab Samp ID: D176-04 | Dilution Factor: 1 |
| Lab File ID: LE01013A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 29.7 |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 1.1 \| (ND) | 0.24 | 0.12 \| 0.12 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.24 | 0.12 \| 0.12 |
| BETA-BHC | (ND) \| ND | 0.24 | 0.12 \| 0.12 |
| HEPTACHLOR | (ND) \| 0.55 | 0.24 | 0.12 \| 0.12 |
| DELTA-BHC | (ND) \| ND | 0.24 | 0.12 \| 0.12 |
| ALDRIN | 0.54 \| (ND) | 0.24 | 0.12 \| 0.12 |
| HEPTACHLOR EPOXIDE | 1.0 \| (ND) | 0.24 | 0.12 \| 0.12 |
| ENDOSULFAN I | (ND) \| 0.23J | 0.24 | 0.12 \| 0.12 |
| 4,4'-DDE | (4.3) \| 3.9 | 0.48 | 0.24 \| 0.24 |
| DIELDRIN | 1.4 \| (ND) | 0.48 | 0.24 \| 0.24 |
| ENDRIN | (ND) \| ND | 0.48 | 0.24 \| 0.24 |
| 4,4'-DDD | (ND) \| ND | 0.48 | 0.24 \| 0.24 |
| ENDOSULFAN II | 0.31J \| (ND) | 0.48 | 0.24 \| 0.24 |
| 4,4'-DDT | 4.1 \| (4.4) | 0.48 | 0.24 \| 0.24 |
| ENDRIN ALDEHYDE | 2.1 \| (ND) | 0.48 | 0.24 \| 0.24 |
| ENDOSULFAN SULFATE | 3.3 \| (ND) | 0.48 | 0.24 \| 0.24 |
| ENDRIN KETONE | (ND) \| 0.40J | 0.48 | 0.24 \| 0.24 |
| METHOXYCHLOR | 7.6 \| (ND) | 2.4 | 1.2 \| 1.2 |
| MIREX | (ND) \| 0.79 | 0.48 | 0.24 \| 0.24 |
| TOXAPHENE | (ND) \| ND | 9.4 | 4.7 \| 4.7 |
| CHLORDANE (TECHNICAL) | (ND) \| 3.6J | 4.8 | 2.4 \| 2.4 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.938 \| (6.643) | 7.586 | 78.3 \| (87.6) | 50-130 |
| DECACHLOROBIPHENYL | (4.399) \| 3.944 | 7.586 | (58.0) \| 52.0 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

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|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 14:50 |
| Sample ID: SL-086-NBZ-SS-0.0-0.5 | Date Analyzed: 05/01/12 20:22 |
| Lab Samp ID: D176-05 | Dilution Factor: 1 |
| Lab File ID: LE01014A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 22.6 |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 1.1 | 0.22 | 0.11 \| 0.11 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.22 | 0.11 \| 0.11 |
| BETA-BHC | (ND) \| ND | 0.22 | 0.11 \| 0.11 |
| HEPTACHLOR | 0.33 \| (ND) | 0.22 | 0.11 \| 0.11 |
| DELTA-BHC | (ND) \| ND | 0.22 | 0.11 \| 0.11 |
| ALDRIN | (ND) \| ND | 0.22 | 0.11 \| 0.11 |
| HEPTACHLOR EPOXIDE | (ND) \| 0.26 | 0.22 | 0.11 \| 0.11 |
| ENDOSULFAN I | (ND) \| ND | 0.22 | 0.11 \| 0.11 |
| 4,4'-DDE | (1.4) \| 0.53 | 0.44 | 0.22 \| 0.22 |
| DIELDRIN | 0.85 \| (ND) | 0.44 | 0.22 \| 0.22 |
| ENDRIN | 0.55 \| (ND) | 0.44 | 0.22 \| 0.22 |
| 4,4'-DDD | (ND) \| ND | 0.44 | 0.22 \| 0.22 |
| ENDOSULFAN II | 0.34J \| (ND) | 0.44 | 0.22 \| 0.22 |
| 4,4'-DDT | 1.7 \| (3.0) | 0.44 | 0.22 \| 0.22 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.44 | 0.22 \| 0.22 |
| ENDOSULFAN SULFATE | 1.0 \| (ND) | 0.44 | 0.22 \| 0.22 |
| ENDRIN KETONE | (ND) \| ND | 0.44 | 0.22 \| 0.22 |
| METHOXYCHLOR | (ND) \| ND | 2.2 | 1.1 \| 1.1 |
| MIREX | (ND) \| 1.3 | 0.44 | 0.22 \| 0.22 |
| TOXAPHENE | (ND) \| ND | 8.5 | 4.3 \| 4.3 |
| CHLORDANE (TECHNICAL) | (ND) \| 8.6 | 4.4 | 2.2 \| 2.2 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.499 \| (6.317) | 6.890 | 79.8 \| (91.7) | 50-130 |
| DECACHLOROBIPHENYL | 4.062 \| (4.787) | 6.890 | 59.0 \| (69.5) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

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|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 14:50 |
| Sample ID: SL-087-NBZ-SS-0.0-0.5 | Date Analyzed: 05/01/12 20:43 |
| Lab Samp ID: D176-07 | Dilution Factor: 1 |
| Lab File ID: LE01015A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 20.8 |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.25 | 0.21 | 0.11 \| 0.11 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.21 | 0.11 \| 0.11 |
| BETA-BHC | 1.6 \| (ND) | 0.21 | 0.11 \| 0.11 |
| HEPTACHLOR | 0.29 \| (ND) | 0.21 | 0.11 \| 0.11 |
| DELTA-BHC | (ND) \| ND | 0.21 | 0.11 \| 0.11 |
| ALDRIN | 0.25 \| (ND) | 0.21 | 0.11 \| 0.11 |
| HEPTACHLOR EPOXIDE | 0.14J \| (ND) | 0.21 | 0.11 \| 0.11 |
| ENDOSULFAN I | (ND) \| ND | 0.21 | 0.11 \| 0.11 |
| 4,4'-DDE | 0.70 \| (0.43J) | 0.43 | 0.21 \| 0.21 |
| DIELDRIN | 0.34J \| (ND) | 0.43 | 0.21 \| 0.21 |
| ENDRIN | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| 4,4'-DDD | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| ENDOSULFAN II | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| 4,4'-DDT | 0.95 \| (1.1) | 0.43 | 0.21 \| 0.21 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| ENDRIN KETONE | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| METHOXYCHLOR | 4.3 \| (ND) | 2.1 | 1.1 \| 1.1 |
| MIREX | 0.49 \| (ND) | 0.43 | 0.21 \| 0.21 |
| TOXAPHENE | (ND) \| ND | 8.3 | 4.2 \| 4.2 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.3 | 2.1 \| 2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.477 \| (5.777) | 6.734 | 81.3 \| (85.8) | 50-130 |
| DECACHLOROBIPHENYL | 4.140 \| (5.460) | 6.734 | 61.5 \| (81.1) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

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|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 14:50 |
| Sample ID: SL-150-NBZ-SS-0.0-0.5 | Date Analyzed: 05/01/12 21:04 |
| Lab Samp ID: D176-08 | Dilution Factor: 1 |
| Lab File ID: LE01016A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 11.2 |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.17J | 0.19 | 0.096\|0.096 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.19 | 0.096\|0.096 |
| BETA-BHC | (ND)\|ND | 0.19 | 0.096\|0.096 |
| HEPTACHLOR | 0.43\|(ND) | 0.19 | 0.096\|0.096 |
| DELTA-BHC | (ND)\|ND | 0.19 | 0.096\|0.096 |
| ALDRIN | (ND)\|ND | 0.19 | 0.096\|0.096 |
| HEPTACHLOR EPOXIDE | 0.91\|(ND) | 0.19 | 0.096\|0.096 |
| ENDOSULFAN I | (ND)\|0.13J | 0.19 | 0.096\|0.096 |
| 4,4'-DDE | 1.3\|(1.6) | 0.38 | 0.19\|0.19 |
| DIELDRIN | 0.45\|(ND) | 0.38 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.38 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDOSULFAN II | (ND)\|ND | 0.38 | 0.19\|0.19 |
| 4,4'-DDT | 2.6\|(2.9) | 0.38 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | (ND)\|0.54 | 0.38 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | 0.29J\|(ND) | 0.38 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| METHOXYCHLOR | 1.4J\|(ND) | 1.9 | 0.96\|0.96 |
| MIREX | (ND)\|ND | 0.38 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.4 | 3.7\|3.7 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.113\|(6.254) | 6.006 | 85.1\|(104) | 50-130 |
| DECACHLOROBIPHENYL | 4.455\|(5.079) | 6.006 | 74.2\|(84.6) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

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|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 14:50 |
| Sample ID: SL-178-NBZ-SS-0.0-0.5 | Date Analyzed: 05/01/12 21:25 |
| Lab Samp ID: D176-09 | Dilution Factor: 1 |
| Lab File ID: LE01017A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 10.7 |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 1.6 \| (ND) | 0.19 | 0.095 \| 0.095 |
| GAMMA-BHC (LINDANE) | 0.41 \| (ND) | 0.19 | 0.095 \| 0.095 |
| BETA-BHC | (ND) \| 0.28 | 0.19 | 0.095 \| 0.095 |
| HEPTACHLOR | 0.49 \| (ND) | 0.19 | 0.095 \| 0.095 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| ALDRIN | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| HEPTACHLOR EPOXIDE | 0.18J \| (ND) | 0.19 | 0.095 \| 0.095 |
| ENDOSULFAN I | 2.9 \| (ND) | 0.19 | 0.095 \| 0.095 |
| 4,4'-DDE | (1.0) \| 1.0 | 0.38 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN II | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDT | (0.98) \| 0.65 | 0.38 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| 0.29J | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| ND | 1.9 | 0.95 \| 0.95 |
| MIREX | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.4 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.8 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.588 \| (5.918) | 5.972 | 76.8 \| (99.1) | 50-130 |
| DECACHLOROBIPHENYL | 3.770 \| (4.129) | 5.972 | 63.1 \| (69.1) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

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|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 14:50 |
| Sample ID: SL-179-NBZ-SS-0.0-0.5 | Date Analyzed: 05/01/12 21:47 |
| Lab Samp ID: D176-10 | Dilution Factor: 1 |
| Lab File ID: LE01018A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 11.0 |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.62\|(ND) | 0.19 | 0.096\|0.096 |
| GAMMA-BHC (LINDANE) | (ND)\|0.17J | 0.19 | 0.096\|0.096 |
| BETA-BHC | (ND)\|0.20 | 0.19 | 0.096\|0.096 |
| HEPTACHLOR | 0.58\|(ND) | 0.19 | 0.096\|0.096 |
| DELTA-BHC | (ND)\|ND | 0.19 | 0.096\|0.096 |
| ALDRIN | (ND)\|0.14J | 0.19 | 0.096\|0.096 |
| HEPTACHLOR EPOXIDE | 0.11J\|(ND) | 0.19 | 0.096\|0.096 |
| ENDOSULFAN I | (ND)\|ND | 0.19 | 0.096\|0.096 |
| 4,4'-DDE | (0.37J)\|0.22J | 0.38 | 0.19\|0.19 |
| DIELDRIN | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.38 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDOSULFAN II | (ND)\|ND | 0.38 | 0.19\|0.19 |
| 4,4'-DDT | 1.1\|(ND) | 0.38 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDRIN KETONE | 0.67\|(ND) | 0.38 | 0.19\|0.19 |
| METHOXYCHLOR | (ND)\|ND | 1.9 | 0.96\|0.96 |
| MIREX | (ND)\|ND | 0.38 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.4 | 3.7\|3.7 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.419\|(5.717) | 5.992 | 73.8\|(95.4) | 50-130 |
| DECACHLOROBIPHENYL | 3.994\|(4.603) | 5.992 | 66.7\|(76.8) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

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|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 14:50 |
| Sample ID: SL-184-NBZ-SS-0.0-0.5 | Date Analyzed: 05/01/12 22:08 |
| Lab Samp ID: D176-11 | Dilution Factor: 1 |
| Lab File ID: LE01019A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 11.9 |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| HEPTACHLOR | 0.47 \| (ND) | 0.19 | 0.096 \| 0.096 |
| DELTA-BHC | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| ALDRIN | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| HEPTACHLOR EPOXIDE | 0.66 \| (ND) | 0.19 | 0.096 \| 0.096 |
| ENDOSULFAN I | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| 4,4'-DDE | (0.69) \| 0.47 | 0.39 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDD | 0.23J \| (ND) | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.21J \| (ND) | 0.39 | 0.19 \| 0.19 |
| 4,4'-DDT | (0.86) \| 0.64 | 0.39 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| 0.21J | 0.39 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| 1.3J | 1.9 | 0.96 \| 0.96 |
| MIREX | (ND) \| ND | 0.39 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.5 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.9 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.922 \| (6.104) | 6.053 | 81.3 \| (101) | 50-130 |
| DECACHLOROBIPHENYL | 4.176 \| (4.490) | 6.053 | 69.0 \| (74.2) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

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|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 14:50 |
| Sample ID: SL-193-NBZ-SS-0.0-0.5 | Date Analyzed: 05/01/12 22:29 |
| Lab Samp ID: D176-12 | Dilution Factor: 1 |
| Lab File ID: LE01020A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 11.0 |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.87\|(ND) | 0.19 | 0.096\|0.096 |
| GAMMA-BHC (LINDANE) | (ND)\|0.30 | 0.19 | 0.096\|0.096 |
| BETA-BHC | (ND)\|0.28 | 0.19 | 0.096\|0.096 |
| HEPTACHLOR | 0.40\|(ND) | 0.19 | 0.096\|0.096 |
| DELTA-BHC | (ND)\|1.9 | 0.19 | 0.096\|0.096 |
| ALDRIN | (ND)\|0.18J | 0.19 | 0.096\|0.096 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.19 | 0.096\|0.096 |
| ENDOSULFAN I | (ND)\|0.19J | 0.19 | 0.096\|0.096 |
| 4,4'-DDE | (1.7)\|1.4 | 0.38 | 0.19\|0.19 |
| DIELDRIN | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.38 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDOSULFAN II | 0.48\|(ND) | 0.38 | 0.19\|0.19 |
| 4,4'-DDT | (1.8)\|0.94 | 0.38 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.38 | 0.19\|0.19 |
| METHOXYCHLOR | (ND)\|ND | 1.9 | 0.96\|0.96 |
| MIREX | (ND)\|ND | 0.38 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.4 | 3.7\|3.7 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.8 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.812\|(6.553) | 5.992 | 80.3\|(109) | 50-130 |
| DECACHLOROBIPHENYL | (3.901)\|3.830 | 5.992 | (65.1)\|63.9 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 14:50 |
| Sample ID: DUP-09-NBZ-QC-041912 | Date Analyzed: 05/01/12 23:34 |
| Lab Samp ID: D176-13 | Dilution Factor: 1 |
| Lab File ID: LE01023A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 10.5 |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.88 \| (ND) | 0.19 | 0.095 \| 0.095 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.28 | 0.19 | 0.095 \| 0.095 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.095 \| 0.095 |
| HEPTACHLOR | (ND) \| 0.14J | 0.19 | 0.095 \| 0.095 |
| DELTA-BHC | (ND) \| 1.8 | 0.19 | 0.095 \| 0.095 |
| ALDRIN | (ND) \| 0.29 | 0.19 | 0.095 \| 0.095 |
| HEPTACHLOR EPOXIDE | 0.43 \| (ND) | 0.19 | 0.095 \| 0.095 |
| ENDOSULFAN I | 0.25 \| (ND) | 0.19 | 0.095 \| 0.095 |
| 4,4'-DDE | 0.20J \| (0.21J) | 0.38 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.32J \| (ND) | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDT | 0.87 \| (ND) | 0.38 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| 1.6 | 0.38 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| METHOXYCHLOR | (ND) \| 1.9 | 1.9 | 0.95 \| 0.95 |
| MIREX | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.4 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.8 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.262 \| (6.791) | 5.959 | 88.3 \| (114) | 50-130 |
| DECACHLOROBIPHENYL | 3.949 \| (4.121) | 5.959 | 66.3 \| (69.2) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/26/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 14:50 |
| Sample ID: MBLK1S | Date Analyzed: 05/01/12 18:35 |
| Lab Samp ID: CPD062SB | Dilution Factor: 1 |
| Lab File ID: LE01009A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : NA |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| BETA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| HEPTACHLOR | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| DELTA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| ALDRIN | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| ENDOSULFAN I | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| 4,4'-DDE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| DIELDRIN | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| 4,4'-DDD | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDOSULFAN II | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| 4,4'-DDT | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN KETONE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| METHOXYCHLOR | (ND) \| 5.1 | 1.7 | 0.85 \| 0.85 |
| MIREX | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| TOXAPHENE | (ND) \| ND | 6.6 | 3.3 \| 3.3 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.4 | 1.7 \| 1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (4.309) \| 4.270 | 5.333 | (80.8) \| 80.1 | 50-130 |
| DECACHLOROBIPHENYL | (4.633) \| 4.523 | 5.333 | (86.9) \| 84.8 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPD062SB CPD062SL CPD062SC
LAB FILE ID: LE01009A LE01010A LE01011A
DATE EXTRACTED: 04/26/1214:50 04/26/1214:50 04/26/1214:50 DATE COLLECTED: NA
DATE ANALYZED: 05/01/1218:35 05/01/1218:57 05/01/1219:18 DATE RECEIVED: 04/26/12
PREP. BATCH: CPD062S CPD062S CPD062S
CALIB. REF: LE01005A LE01005A LE01005A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 2.67 | 2.25\|(2.29) | 84\|(86) | 2.67 | 2.37\|(2.41) | 89\|(90) | 5\|(5) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|ND | 2.67 | (2.28)\|2.27 | (85)\|85 | 2.67 | (2.39)\|2.37 | (90)\|89 | (5)\|4 | 40-130 | 50 |
| beta-BHC | (ND)\|ND | 2.67 | (2.65)\|2.30 | (99)\|86 | 2.67 | (2.72)\|2.41 | (102)\|90 | (3)\|5 | 50-140 | 50 |
| Heptachlor | (ND)\|ND | 2.67 | (2.37)\|2.23 | (89)\|84 | 2.67 | (2.43)\|2.34 | (91)\|88 | (3)\|5 | 30-130 | 50 |
| delta-BHC | (ND)\|ND | 2.67 | (2.70)\|2.50 | (101)\|94 | 2.67 | (2.81)\|2.60 | (105)\|97 | (4)\|4 | 30-150 | 50 |
| Aldrin | (ND)\|ND | 2.67 | (2.38)\|2.23 | (89)\|84 | 2.67 | (2.37)\|2.32 | (89)\|87 | (0)\|4 | 30-130 | 50 |
| Heptachlor Epoxide | (ND)\|ND | 2.67 | 2.21\|(2.42) | 83\|(91) | 2.67 | 2.28\|(2.54) | 85\|(95) | 3\|(5) | 60-140 | 50 |
| Endosulfan I | (ND)\|ND | 2.67 | 1.96\|(2.10) | 73\|(79) | 2.67 | 1.93\|(2.15) | 72\|(81) | 2\|(2) | 50-150 | 50 |
| 4,4'-DDE | (ND)\|ND | 2.67 | (2.42)\|2.22 | (91)\|83 | 2.67 | (2.46)\|2.30 | (92)\|86 | (2)\|4 | 50-150 | 50 |
| Dieldrin | (ND)\|ND | 2.67 | (2.44)\|2.11 | (91)\|79 | 2.67 | (2.51)\|2.19 | (94)\|82 | (3)\|4 | 60-130 | 50 |
| Endrin | (ND)\|ND | 2.67 | (2.36)\|2.26 | (88)\|85 | 2.67 | (2.43)\|2.28 | (91)\|85 | (3)\|1 | 50-140 | 50 |
| 4,4'-DDD | (ND)\|ND | 2.67 | (2.32)\|2.08 | (87)\|78 | 2.67 | (2.40)\|2.10 | (90)\|79 | (3)\|1 | 50-160 | 50 |
| Endosulfan II | (ND)\|ND | 2.67 | (2.47)\|2.33 | (93)\|87 | 2.67 | (2.51)\|2.36 | (94)\|88 | (2)\|1 | 60-150 | 50 |
| 4,4'-DDT | (ND)\|ND | 2.67 | (2.75)\|2.24 | (103)\|84 | 2.67 | (2.82)\|2.34 | (106)\|88 | (3)\|4 | 60-140 | 50 |
| Endrin aldehyde | (ND)\|ND | 2.67 | (2.38)\|2.22 | (89)\|83 | 2.67 | (2.35)\|2.21 | (88)\|83 | (1)\|0 | 50-160 | 50 |
| Endosulfan Sulfate | (ND)\|ND | 2.67 | (2.52)\|2.40 | (94)\|90 | 2.67 | (2.52)\|2.44 | (94)\|91 | (0)\|2 | 70-140 | 50 |
| Endrin Ketone | (ND)\|ND | 2.67 | (2.42)\|2.24 | (91)\|84 | 2.67 | (2.45)\|2.30 | (92)\|86 | (1)\|3 | 70-160 | 50 |
| Methoxychlor | (ND)\|5.1 | 26.7 | (23.3)\|21.2 | (87)\|79 | 26.7 | (23.6)\|21.6 | (88)\|81 | (1)\|2 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | (4.235)\|4.211 | (79.4)\|79.0 | 5.333 | (4.565)\|4.537 | (85.6)\|85.1 | 50-130 |
| Decachlorobiphenyl | 5.333 | (4.590)\|4.455 | (86.1)\|83.5 | 5.333 | (4.663)\|4.608 | (87.4)\|86.4 | 20-120 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: 11.0

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-193-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D176-12 | D176-12M | D176-12S | | |
| LAB FILE ID: | LE01020A | LE01021A | LE01022A | | |
| DATE EXTRACTED: | 04/26/1214:50 | 04/26/1214:50 | 04/26/1214:50 | DATE COLLECTED: | 04/19/12 |
| DATE ANALYZED: | 05/01/1222:29 | 05/01/1222:51 | 05/01/1223:12 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | CPD062S | CPD062S | CPD062S | | |
| CALIB. REF: | LE01005A | LE01005A | LE01005A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 0.87\|(ND) | 3.00 | 3.04\|(3.01) | 72\|(100) | 3.00 | 2.89\|(2.74) | 67\|(91) | 5\|(9) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|0.30 | 3.00 | (2.90)\|3.66 | (97)\|112 | 3.00 | (2.70)\|2.86 | (90)\|85 | (7)\|25 | 20-150 | 50 |
| beta-BHC | (ND)\|0.28 | 3.00 | (3.70)\|3.25 | (123)\|99 | 3.00 | (3.54)\|2.97 | (118)\|90 | (4)\|9 | 50-140 | 50 |
| Heptachlor | 0.40\|(ND) | 3.00 | 3.20\|(2.90) | 93\|(97) | 3.00 | 3.00\|(2.69) | 87\|(90) | 6\|(8) | 20-140 | 50 |
| delta-BHC | (ND)\|1.9 | 3.00 | (4.09)\|7.63 | (136)\|191* | 3.00 | (3.18)\|3.98 | (106)\|69 | (25)\|63* | 30-150 | 50 |
| Aldrin | (ND)\|0.18J | 3.00 | (3.01)\|2.87 | (100)\|90 | 3.00 | (2.63)\|2.53 | (88)\|78 | (13)\|13 | 20-160 | 50 |
| Heptachlor Epoxide | (ND)\|ND | 3.00 | (3.21)\|2.78 | (107)\|93 | 3.00 | (3.46)\|2.37 | (115)\|79 | (7)\|16 | 40-140 | 50 |
| Endosulfan I | (ND)\|0.19J | 3.00 | (2.77)\|2.56 | (92)\|79 | 3.00 | 2.16\|(2.23) | 72\|(68) | 25\|(14) | 50-160 | 50 |
| 4,4'-DDE | (1.7)\|1.4 | 3.00 | (5.07)\|3.88 | (112)\|83 | 3.00 | (4.30)\|3.67 | (87)\|76 | (16)\|6 | 50-150 | 50 |
| Dieldrin | (ND)\|ND | 3.00 | (2.94)\|2.49 | (98)\|83 | 3.00 | (2.54)\|2.35 | (85)\|78 | (15)\|6 | 10-160 | 50 |
| Endrin | (ND)\|ND | 3.00 | (2.63)\|2.25 | (88)\|75 | 3.00 | 2.20\|(2.27) | 73\|(76) | 18\|(1) | 20-160 | 50 |
| 4,4'-DDD | (ND)\|ND | 3.00 | (2.65)\|2.64 | (88)\|88 | 3.00 | 2.37\|(2.75) | 79\|(92) | 11\|(4) | 50-160 | 50 |
| Endosulfan II | 0.48\|(ND) | 3.00 | (2.87)\|2.62 | (80)\|87 | 3.00 | (2.64)\|2.57 | (72)\|86 | (8)\|2 | 40-160 | 50 |
| 4,4'-DDT | (1.8)\|0.94 | 3.00 | (4.22)\|3.64 | (81)\|90 | 3.00 | (4.05)\|3.48 | (75)\|85 | (4)\|4 | 30-160 | 50 |
| Endrin aldehyde | (ND)\|ND | 3.00 | (2.95)\|2.40 | (98)\|80 | 3.00 | 2.15\|(2.56) | 72\|(85) | 31\|(6) | 50-140 | 50 |
| Endosulfan Sulfate | (ND)\|ND | 3.00 | 5.40\|(2.89) | 180*\|(96) | 3.00 | 6.17\|(3.26) | 206*\|(107) | 13\|(12) | 40-160 | 50 |
| Endrin Ketone | (ND)\|ND | 3.00 | (3.59)\|2.15 | (120)\|72 | 3.00 | (3.35)\|2.08 | (112)\|69 | (7)\|3 | 50-160 | 50 |
| Methoxychlor | (ND)\|ND | 30.0 | (29.3)\|25.3 | (98)\|84 | 30.0 | (28.7)\|23.8 | (96)\|79 | (2)\|6 | 60-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.992 | 5.643\|(7.374) | 94.2\|(123) | 5.992 | 5.667\|(6.819) | 94.6\|(114) | 50-130 |
| Decachlorobiphenyl | 5.992 | (4.599)\|4.516 | (76.8)\|75.4 | 5.992 | 4.180\|(4.431) | 69.8\|(73.9) | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 17:43 |
| Sample ID: SL-012-NBZ-SS-0.0-0.5 | Date Analyzed: 05/12/12 22:30 |
| Lab Samp ID: D176-01 | Dilution Factor: 1 |
| Lab File ID: KE11044A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 14.3 |
| Calib. Ref.: KE11041A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 5432 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.256)\|4.235 | 6.223 | (101)\|68.1 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.188)\|4.089 | 6.223 | (116)\|65.7 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 17:43 |
| Sample ID: SL-012-NBZ-SB-0.5-1.5 | Date Analyzed: 05/12/12 23:23 |
| Lab Samp ID: D176-03 | Dilution Factor: 1 |
| Lab File ID: KE11045A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 16.4 |
| Calib. Ref.: KE11041A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5460 | (ND)\|ND | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.790)\|4.779 | 6.379 | (106)\|74.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.308)\|3.990 | 6.379 | (98.9)\|62.5 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 17:43 |
| Sample ID: SL-017-NBZ-SS-0.0-0.5 | Date Analyzed: 05/13/12 00:17 |
| Lab Samp ID: D176-04 | Dilution Factor: 1 |
| Lab File ID: KE11046A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 29.7 |
| Calib. Ref.: KE11041A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.4 | 1.2\|1.2 |
| AROCLOR 1221 | (ND)\|ND | 2.4 | 1.2\|1.2 |
| AROCLOR 1232 | (ND)\|ND | 2.4 | 1.2\|1.2 |
| AROCLOR 1242 | (ND)\|ND | 2.4 | 1.2\|1.2 |
| AROCLOR 1248 | (ND)\|ND | 2.4 | 1.2\|1.2 |
| AROCLOR 1254 | (ND)\|ND | 2.4 | 1.2\|1.2 |
| AROCLOR 1260 | (ND)\|ND | 2.4 | 1.2\|1.2 |
| AROCLOR 1262 | (ND)\|ND | 2.4 | 1.2\|1.2 |
| AROCLOR 1268 | (ND)\|ND | 2.4 | 1.2\|1.2 |
| AROCLOR 5432 | (ND)\|ND | 4.7 | 2.4\|2.4 |
| AROCLOR 5442 | (ND)\|ND | 4.7 | 2.4\|2.4 |
| AROCLOR 5460 | (ND)\|ND | 4.7 | 2.4\|2.4 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.324)\|5.191 | 7.586 | (96.5)\|68.4 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.731)\|5.015 | 7.586 | (102)\|66.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/19/12 |
| Batch No. | : 12D176 | Date Extracted | : 04/26/12 17:43 |
| Sample ID | : SL-086-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/13/12 01:10 |
| Lab Samp ID | : D176-05 | Dilution Factor | : 1 |
| Lab File ID | : KE11047A | Matrix | : SOIL |
| Ext Btch ID | : CPD063S | % Moisture | : 22.6 |
| Calib. Ref. | : KE11041A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1221 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1232 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1242 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1248 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1254 | 13\|(7.2) | 2.2 | 1.1\|1.1 |
| AROCLOR 1260 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1262 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 1268 | (ND)\|ND | 2.2 | 1.1\|1.1 |
| AROCLOR 5432 | (ND)\|ND | 4.3 | 2.2\|2.2 |
| AROCLOR 5442 | (ND)\|ND | 4.3 | 2.2\|2.2 |
| AROCLOR 5460 | (ND)\|ND | 4.3 | 2.2\|2.2 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.180)\|4.524 | 6.890 | (89.7)\|65.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.075)\|4.072 | 6.890 | (88.2)\|59.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 17:43 |
| Sample ID: SL-087-NBZ-SS-0.0-0.5 | Date Analyzed: 05/13/12 02:03 |
| Lab Samp ID: D176-07 | Dilution Factor: 1 |
| Lab File ID: KE11048A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 20.8 |
| Calib. Ref.: KE11041A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1221 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1232 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1242 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1248 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1254 | 12\|(6.4) | 2.1 | 1.1\|1.1 |
| AROCLOR 1260 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1262 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1268 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 5432 | (ND)\|ND | 4.2 | 2.1\|2.1 |
| AROCLOR 5442 | (ND)\|ND | 4.2 | 2.1\|2.1 |
| AROCLOR 5460 | (ND)\|ND | 4.2 | 2.1\|2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.970)\|4.836 | 6.734 | (104)\|71.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.282)\|4.573 | 6.734 | (93.3)\|67.9 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/19/12 |
| Batch No. | : 12D176 | Date Extracted | : 04/26/12 17:43 |
| Sample ID | : SL-150-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/13/12 02:56 |
| Lab Samp ID | : D176-08 | Dilution Factor | : 1 |
| Lab File ID | : KE11049A | Matrix | : SOIL |
| Ext Btch ID | : CPD063S | % Moisture | : 11.2 |
| Calib. Ref. | : KE11041A | Instrument ID | : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (2.6J)\|3.0J | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.358\|(5.011) | 6.006 | 123*\|(83.4) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.130)\|4.746 | 6.006 | (119)\|79.0 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 17:43 |
| Sample ID: SL-178-NBZ-SS-0.0-0.5 | Date Analyzed: 05/13/12 03:49 |
| Lab Samp ID: D176-09 | Dilution Factor: 1 |
| Lab File ID: KE11050A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 10.7 |
| Calib. Ref.: KE11041A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (4.8)\|5.1 | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (7.163)\|4.751 | 5.972 | (120)\|79.5 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.934)\|4.137 | 5.972 | (116)\|69.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 17:43 |
| Sample ID: SL-179-NBZ-SS-0.0-0.5 | Date Analyzed: 05/13/12 04:42 |
| Lab Samp ID: D176-10 | Dilution Factor: 1 |
| Lab File ID: KE11051A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 11.0 |
| Calib. Ref.: KE11041A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.599)\|4.682 | 5.992 | (110)\|78.1 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.101)\|4.454 | 5.992 | (102)\|74.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 17:43 |
| Sample ID: SL-184-NBZ-SS-0.0-0.5 | Date Analyzed: 05/12/12 14:32 |
| Lab Samp ID: D176-11 | Dilution Factor: 1 |
| Lab File ID: KE11035A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 11.9 |
| Calib. Ref.: KE11028A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.493\|(5.328) | 6.053 | 124*\|(88.0) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.041)\|5.082 | 6.053 | (116)\|83.9 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 17:43 |
| Sample ID: SL-193-NBZ-SS-0.0-0.5 | Date Analyzed: 05/12/12 15:26 |
| Lab Samp ID: D176-12 | Dilution Factor: 1 |
| Lab File ID: KE11036A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 11.0 |
| Calib. Ref.: KE11028A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.854)\|5.084 | 5.992 | (114)\|84.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.288)\|4.338 | 5.992 | (122)\|72.4 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 17:43 |
| Sample ID: DUP-09-NBZ-QC-041912 | Date Analyzed: 05/12/12 18:05 |
| Lab Samp ID: D176-13 | Dilution Factor: 1 |
| Lab File ID: KE11039A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : 10.5 |
| Calib. Ref.: KE11028A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.95\|0.95 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.680)\|4.936 | 5.959 | (112)\|82.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (7.078)\|3.895 | 5.959 | (119)\|65.4 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/26/12 |
| Batch No. : 12D176 | Date Extracted: 04/26/12 17:43 |
| Sample ID: MBLK1S | Date Analyzed: 05/12/12 11:53 |
| Lab Samp ID: 60D063SB | Dilution Factor: 1 |
| Lab File ID: KE11032A | Matrix : SOIL |
| Ext Btch ID: CPD063S | % Moisture : NA |
| Calib. Ref.: KE11028A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 6.755\|(5.215) | 5.333 | 127*\|(97.8) | 45-120 |
| TETRACHLORO-M-XYLENE | (5.360)\|4.335 | 5.333 | (101)\|81.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60D063SB | 60D063SL | 60D063SC | | |
| LAB FILE ID: | KE11032A | KE11033A | KE11034A | | |
| DATE EXTRACTED: | 04/26/1217:43 | 04/26/1217:43 | 04/26/1217:43 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/12/1211:53 | 05/12/1212:46 | 05/12/1213:39 | DATE RECEIVED: | 04/26/12 |
| PREP. BATCH: | CPD063S | CPD063S | CPD063S | | |
| CALIB. REF: | KE11028A | KE11028A | KE11028A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (61.3)\|46.8 | (92)\|70 | 66.7 | (57.7)\|43.1 | (87)\|65 | (6)\|8 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | 83.5\|(55.3) | 125\|(83) | 66.7 | 78.8\|(52.4) | 118\|(79) | 6\|(5) | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 33.3 | (41.0)\|42.1 | (123)\|126 | 33.3 | 41.4\|(41.1) | (124)\|123 | (1)\|2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | 6.496\|(4.938) | 122*\|(92.6) | 5.333 | (6.194)\|4.579 | (116)\|85.9 | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (5.704)\|4.426 | (107)\|83.0 | 5.333 | (5.249)\|4.045 | (98.4)\|75.8 | 10-160 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 11.0
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-193-NBZ-SS-0.0-0.5
LAB SAMP ID: D176-12 D176-12M D176-12S
LAB FILE ID: KE11036A KE11037A KE11038A
DATE EXTRACTED: 04/26/1217:43 04/26/1217:43 04/26/1217:43 DATE COLLECTED: 04/19/12
DATE ANALYZED: 05/12/1215:26 05/12/1216:19 05/12/1217:12 DATE RECEIVED: 04/19/12
PREP. BATCH: CPD063S CPD063S CPD063S
CALIB. REF: KE11028A KE11028A KE11028A

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 74.9 | (74.5)\|53.8 | (99)\|72 | 74.9 | (71.8)\|51.4 | (96)\|69 | (4)\|5 | 20-160 | 50 |
| Aroclor 1260 | (ND)\|ND | 74.9 | 101\|(67.9) | 135\|(91) | 74.9 | 100\|(66.3) | 133\|(89) | 1\|(2) | 20-160 | 50 |
| Aroclor 5460 | (ND)\|ND | 37.5 | (52.6)\|51.9 | (140)\|138 | 37.5 | (53.7)\|52.7 | (143)\|141 | (2)\|2 | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.992 | 7.239\|(5.187) | 121*\|(86.6) | 5.992 | 7.480\|(5.374) | 125*\|(89.7) | 45-120 |
| Tetrachloro-m-xylene | 5.992 | (7.210)\|4.827 | (120)\|80.6 | 5.992 | (7.322)\|4.737 | (122)\|79.1 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/25/12 16:57 |
| Sample ID: SL-012-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 14:25 |
| Lab Samp ID: D176-01 | Dilution Factor: 1 |
| Lab File ID: WD26006A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : 14.3 |
| Calib. Ref.: WD26002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 0.99\|0.99 |
| 2,4,5-T | 1.4\|(ND) | 0.20 | 0.099\|0.099 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.099\|0.099 |
| DALAPON | (ND)\|ND | 11 | 5.3\|5.3 |
| DICAMBA | (ND)\|ND | 1.4 | 0.70\|0.70 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 0.99\|0.99 |
| MCPA | (ND)\|ND | 290 | 150\|150 |
| MCPP | (ND)\|ND | 290 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (223.0)\|201.8 | 175.0 | (127)\|115 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/25/12 16:57 |
| Sample ID: SL-017-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 14:47 |
| Lab Samp ID: D176-04 | Dilution Factor: 1 |
| Lab File ID: WD26007A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : 29.7 |
| Calib. Ref.: WD26002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 5.1 | 2.6\|2.6 |
| 2,4-DB | (ND)\|ND | 2.4 | 1.2\|1.2 |
| 2,4,5-T | 1.9\|(ND) | 0.24 | 0.12\|0.12 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.24 | 0.12\|0.12 |
| DALAPON | (ND)\|ND | 13 | 6.4\|6.4 |
| DICAMBA | (ND)\|ND | 1.7 | 0.85\|0.85 |
| DICHLOROPROP | (ND)\|ND | 3.4 | 1.7\|1.7 |
| DINOSEB | (ND)\|ND | 2.4 | 1.2\|1.2 |
| MCPA | (ND)\|ND | 360 | 180\|180 |
| MCPP | (ND)\|ND | 360 | 180\|180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | 188.3\|(210.2) | 213.4 | 88.2\|(98.5) | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/25/12 16:57 |
| Sample ID: SL-086-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 15:10 |
| Lab Samp ID: D176-05 | Dilution Factor: 1 |
| Lab File ID: WD26008A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : 22.6 |
| Calib. Ref.: WD26002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.7 | 2.3\|2.3 |
| 2,4-DB | (ND)\|ND | 2.2 | 1.1\|1.1 |
| 2,4,5-T | 0.72\|(ND) | 0.22 | 0.11\|0.11 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.22 | 0.11\|0.11 |
| DALAPON | (ND)\|ND | 12 | 5.8\|5.8 |
| DICAMBA | (ND)\|ND | 1.6 | 0.78\|0.78 |
| DICHLOROPROP | (ND)\|ND | 3.1 | 1.6\|1.6 |
| DINOSEB | (ND)\|ND | 2.2 | 1.1\|1.1 |
| MCPA | (ND)\|ND | 320 | 160\|160 |
| MCPP | (ND)\|ND | 320 | 160\|160 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (243.5)\|204.0 | 193.8 | (126)\|105 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/25/12 16:57 |
| Sample ID: SL-087-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 15:32 |
| Lab Samp ID: D176-07 | Dilution Factor: 1 |
| Lab File ID: WD26009A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : 20.8 |
| Calib. Ref.: WD26002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.5 | 2.3\|2.3 |
| 2,4-DB | (ND)\|ND | 2.1 | 1.1\|1.1 |
| 2,4,5-T | 0.56\|(ND) | 0.21 | 0.11\|0.11 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.21 | 0.11\|0.11 |
| DALAPON | (ND)\|ND | 11 | 5.7\|5.7 |
| DICAMBA | (ND)\|ND | 1.5 | 0.76\|0.76 |
| DICHLOROPROP | (ND)\|ND | 3.0 | 1.5\|1.5 |
| DINOSEB | (ND)\|ND | 2.1 | 1.1\|1.1 |
| MCPA | (ND)\|ND | 320 | 160\|160 |
| MCPP | (ND)\|ND | 320 | 160\|160 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (230.4)\|199.4 | 189.4 | (122)\|105 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/25/12 16:57 |
| Sample ID: SL-150-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 15:54 |
| Lab Samp ID: D176-08 | Dilution Factor: 1 |
| Lab File ID: WD26010A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : 11.2 |
| Calib. Ref.: WD26002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| 2,4,5-T | 0.73\|(ND) | 0.19 | 0.096\|0.096 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.096\|0.096 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.68\|0.68 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| MCPA | 200J\|(ND) | 280 | 140\|140 |
| MCPP | 210J\|(ND) | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (196.8)\|162.6 | 168.9 | (117)\|96.3 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/25/12 16:57 |
| Sample ID: SL-178-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 16:17 |
| Lab Samp ID: D176-09 | Dilution Factor: 1 |
| Lab File ID: WD26011A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : 10.7 |
| Calib. Ref.: WD26002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.95\|0.95 |
| 2,4,5-T | 1.3\|(ND) | 0.19 | 0.095\|0.095 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.095\|0.095 |
| DALAPON | (ND)\|ND | 10 | 5.0\|5.0 |
| DICAMBA | (ND)\|ND | 1.3 | 0.67\|0.67 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.95\|0.95 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (225.4)\|178.7 | 168.0 | (134)\|106 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/25/12 16:57 |
| Sample ID: SL-179-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 16:39 |
| Lab Samp ID: D176-10 | Dilution Factor: 1 |
| Lab File ID: WD26012A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : 11.0 |
| Calib. Ref.: WD26002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| 2,4,5-T | (ND)\|ND | 0.19 | 0.096\|0.096 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.096\|0.096 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.3 | 0.67\|0.67 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (204.4)\|154.4 | 168.5 | (121)\|91.6 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/25/12 16:57 |
| Sample ID: SL-184-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 17:01 |
| Lab Samp ID: D176-11 | Dilution Factor: 1 |
| Lab File ID: WD26013A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : 11.9 |
| Calib. Ref.: WD26002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| 2,4,5-T | 1.1\|(ND) | 0.19 | 0.096\|0.096 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.096\|0.096 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.68\|0.68 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (235.5)\|208.0 | 170.3 | (138)\|122 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/25/12 16:57 |
| Sample ID: SL-193-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 17:23 |
| Lab Samp ID: D176-12 | Dilution Factor: 1 |
| Lab File ID: WD26014A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : 11.0 |
| Calib. Ref.: WD26002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| 2,4,5-T | 0.27\|(ND) | 0.19 | 0.096\|0.096 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.096\|0.096 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.3 | 0.67\|0.67 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (224.6)\|172.8 | 168.5 | (133)\|103 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/25/12 16:57 |
| Sample ID: DUP-09-NBZ-QC-041912 | Date Analyzed: 04/26/12 18:31 |
| Lab Samp ID: D176-13 | Dilution Factor: 1 |
| Lab File ID: WD26017A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : 10.5 |
| Calib. Ref.: WD26002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.0 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.95\|0.95 |
| 2,4,5-T | 0.14J\|(ND) | 0.19 | 0.095\|0.095 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.095\|0.095 |
| DALAPON | (ND)\|ND | 10 | 5.0\|5.0 |
| DICAMBA | (ND)\|ND | 1.3 | 0.67\|0.67 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.95\|0.95 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (235.6)\|179.2 | 167.6 | (141)\|107 | 10-150 |

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Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/25/12 |
| Batch No. : 12D176 | Date Extracted: 04/25/12 16:57 |
| Sample ID: MBLK1S | Date Analyzed: 04/26/12 13:18 |
| Lab Samp ID: HED014SB | Dilution Factor: 1 |
| Lab File ID: WD26003A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : NA |
| Calib. Ref.: WD26002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (179.0)\|149.5 | 150.0 | (119)\|99.7 | 10-150 |

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Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HED014SB | HED014SL | HED014SC | | |
| LAB FILE ID: | WD26003A | WD26004A | WD26005A | | |
| DATE EXTRACTED: | 04/25/1216:57 | 04/25/1216:57 | 04/25/1216:57 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/26/1213:18 | 04/26/1213:40 | 04/26/1214:03 | DATE RECEIVED: | 04/25/12 |
| PREP. BATCH: | HED014S | HED014S | HED014S | | |
| CALIB. REF: | WD26002A | WD26002A | WD26002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | 11.7\|(11.8) | 78\|(79) | 15.0 | (13.4)\|13.2 | (89)\|88 | (14)\|11 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 10.3\|(15.9) | 69\|(106) | 15.0 | 11.3\|(18.7) | 75\|(125) | 9\|(16) | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | (11.9)\|10.8 | (79)\|72 | 15.0 | (13.5)\|12.5 | (90)\|83 | (13)\|15 | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 15.0 | 10.8\|(11.1) | 72\|(74) | 15.0 | 12.6\|(12.9) | 84\|(86) | 15\|(15) | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | 6.84J\|(8.27J) | 46\|(55) | 15.0 | 6.68J\|(8.22J) | 45\|(55) | 2\|(1) | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (12.7)\|10.9 | (85)\|73 | 15.0 | (13.9)\|12.0 | (93)\|80 | (9)\|10 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | 13.3\|(13.9) | 89\|(93) | 15.0 | 14.8\|(15.3) | 99\|(102) | 11\|(10) | 60-160 | 50 |
| Dinoseb | (ND)\|ND | 15.0 | (9.51)\|8.68 | (63)\|58 | 15.0 | (10.0)\|8.59 | (67)\|57 | (5)\|1 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (700)\|636 | (93)\|85 | 750 | (754)\|694 | (101)\|93 | (7)\|9 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | (724)\|514 | (97)\|69 | 750 | (721)\|569 | (96)\|76 | (0)\|10 | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 (147.1)\|127.7 | (98.1)\|85.1 | 150.0 | (154.4)\|137.5 | (103)\|91.6 | 10-150 | |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: 11.0

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-193-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D176-12 | D176-12M | D176-12S | | |
| LAB FILE ID: | WD26014A | WD26015A | WD26016A | | |
| DATE EXTRACTED: | 04/25/1216:57 | 04/25/1216:57 | 04/25/1216:57 | DATE COLLECTED: | 04/19/12 |
| DATE ANALYZED: | 04/26/1217:23 | 04/26/1217:46 | 04/26/1218:08 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | HED014S | HED014S | HED014S | | |
| CALIB. REF: | WD26002A | WD26002A | WD26002A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 16.9 | 14.8\|(14.9) | 88\|(88) | 16.9 | 17.9\|(20.3) | 106\|(120) | 19\|(31) | 30-140 | 50 |
| 2,4-DB | (ND)\|ND | 16.9 | (14.5)\|10.7 | (86)\|63 | 16.9 | (20.9)\|18.5 | (124)\|110 | (36)\|53* | 30-160 | 50 |
| 2,4,5-T | 0.27\|(ND) | 16.9 | 13.7\|(13.5) | 80\|(80) | 16.9 | 18.5\|(20.4) | 108\|(121) | 30\|(41) | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 16.9 | 13.8\|(15.7) | 82\|(93) | 16.9 | 19.2\|(22.1) | 114\|(131) | 33\|(34) | 30-150 | 50 |
| Dalapon | (ND)\|ND | 16.9 | 6.84J\|(10.5) | 40\|(62) | 16.9 | 7.35J\|(15.5) | 44\|(92) | 7\|(38) | 10-160 | 50 |
| Dicamba | (ND)\|ND | 16.9 | (14.4)\|13.9 | (85)\|82 | 16.9 | (18.6)\|17.9 | (110)\|106 | (25)\|25 | 50-130 | 50 |
| Dichloroprop | (ND)\|ND | 16.9 | (16.6)\|13.7 | (98)\|81 | 16.9 | 16.7\|(17.4) | 99\|(103) | 1\|(24) | 60-150 | 50 |
| Dinoseb | (ND)\|ND | 16.9 | 10.1\|(11.7) | 60\|(69) | 16.9 | 13.1\|(16.4) | 78\|(97) | 26\|(33) | 10-130 | 50 |
| MCPA | (ND)\|ND | 843 | (953)\|885 | (113)\|105 | 843 | (909)\|763 | (108)\|91 | (5)\|15 | 10-160 | 50 |
| MCPP | (ND)\|ND | 843 | 591\|(730) | 70\|(87) | 843 | (982)\|490 | (117)\|58 | (50)\|39 | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 168.5 | (182.7)\|155.7 | (108)\|92.4 | 168.5 | (239.8)\|206.0 | (142)\|122 | 10-150 |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-012-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 01:17 |
| Lab Samp ID: D176-01 | Dilution Factor: 1 |
| Lab File ID: XD25022A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25012A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1890 | 2000 | 94.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-012-NBZ-SB-0.5-1.5 | Date Analyzed: 04/26/12 02:26 |
| Lab Samp ID: D176-03 | Dilution Factor: 1 |
| Lab File ID: XD25024A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25023A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1890 | 2000 | 94.3 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-017-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 04:08 |
| Lab Samp ID: D176-04 | Dilution Factor: 1 |
| Lab File ID: XD25027A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25023A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1900 | 2000 | 95.0 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-086-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 04:42 |
| Lab Samp ID: D176-05 | Dilution Factor: 1 |
| Lab File ID: XD25028A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25023A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1920 | 2000 | 95.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-087-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 05:16 |
| Lab Samp ID: D176-07 | Dilution Factor: .99 |
| Lab File ID: XD25029A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25023A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1900 | 1980 | 96.1 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/24/12 |
| Batch No. : 12D176 | Date Extracted: 04/24/12 18:47 |
| Sample ID: MBLK1S | Date Analyzed: 04/25/12 17:55 |
| Lab Samp ID: EXD018SB | Dilution Factor: 1 |
| Lab File ID: XD25009A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25003A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1950 | 2000 | 97.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD018SB | EXD018SL | EXD018SC | | |
| LAB FILE ID: | XD25009A | XD25010A | XD25011A | | |
| DATE EXTRACTED: | 04/24/1218:47 | 04/24/1218:47 | 04/24/1218:47 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1217:55 | 04/25/1218:29 | 04/25/1219:03 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | EXD018S | EXD018S | EXD018S | | |
| CALIB. REF: | XD25003A | XD25003A | XD25003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 2010 | 100 | 2000 | 1960 | 98 | 3 | 70-130 | 50 |
| RDX | ND | 2000 | 2050 | 102 | 2000 | 2100 | 105 | 2 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2260 | 113 | 2000 | 2250 | 112 | 1 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2140 | 107 | 2000 | 2190 | 109 | 2 | 70-130 | 50 |
| Tetryl | ND | 2000 | 1790 | 90 | 2000 | 1880 | 94 | 5 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 2140 | 107 | 2000 | 2270 | 114 | 6 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 1830 | 91 | 2000 | 1770 | 89 | 3 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 2030 | 102 | 2000 | 1940 | 97 | 5 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 1960 | 98 | 2000 | 1920 | 96 | 2 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2000 | 100 | 2000 | 2130 | 106 | 6 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2130 | 106 | 2000 | 2220 | 111 | 4 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 2220 | 111 | 2000 | 2190 | 109 | 1 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1920 | 96 | 2000 | 1960 | 98 | 2 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 2010 | 101 | 2000 | 1810 | 90 | 11 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1890 | 95 | 2000 | 1980 | 99 | 5 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2070 | 104 | 2000 | 2140 | 107 | 4 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1930 | 96 | 2000 | 1960 | 98 | 65-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 .99 .99
SAMPLE ID: SL-012-NBZ-SB-0.5-1.5
LAB SAMP ID: D176-03 D176-03M D176-03S
LAB FILE ID: XD25024A XD25025A XD25026A
DATE EXTRACTED: 04/24/1218:47 04/24/1218:47 04/24/1218:47 DATE COLLECTED: 04/19/12
DATE ANALYZED: 04/26/1202:26 04/26/1203:00 04/26/1203:34 DATE RECEIVED: 04/19/12
PREP. BATCH: EXD018S EXD018S EXD018S
CALIB. REF: XD25023A XD25023A XD25023A

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 1980 | 1830 | 92 | 1980 | 1930 | 97 | 5 | 70-130 | 50 |
| RDX | ND | 1980 | 1990 | 101 | 1980 | 1980 | 100 | 1 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 1980 | 2200 | 111 | 1980 | 2210 | 111 | 1 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 1980 | 2180 | 110 | 1980 | 2120 | 107 | 3 | 70-130 | 50 |
| Tetryl | ND | 1980 | 1790 | 91 | 1980 | 1740 | 88 | 3 | 60-130 | 50 |
| Nitrobenzene | ND | 1980 | 2220 | 112 | 1980 | 2230 | 113 | 1 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 1980 | 1700 | 86 | 1980 | 1680 | 85 | 1 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 1980 | 1920 | 97 | 1980 | 1850 | 93 | 3 | 70-140 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 1980 | 1910 | 96 | 1980 | 1910 | 96 | 0 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 1980 | 2080 | 105 | 1980 | 2090 | 106 | 1 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 1980 | 2160 | 109 | 1980 | 2200 | 111 | 2 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 1980 | 2170 | 110 | 1980 | 2240 | 113 | 3 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 1980 | 1800 | 91 | 1980 | 1880 | 95 | 4 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 1980 | 1780 | 90 | 1980 | 1870 | 94 | 5 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 1980 | 1620 | 82 | 1980 | 1620 | 82 | 0 | 20-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 1980 | 1960 | 99 | 1980 | 1900 | 96 | 3 | 20-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 1980 | 1920 | 97 | 1980 | 1940 | 98 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/19/12 |
| Batch No. | : 12D176 | Date Extracted | : 04/24/12 18:47 |
| Sample ID | : SL-012-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/25/12 20:52 |
| Lab Samp ID | : D176-01 | Dilution Factor | : 1 |
| Lab File ID | : PD25027A | Matrix | : SOIL |
| Ext Btch ID | : EXD018S | % Moisture | : NA |
| Calib. Ref. | : PD25017A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2520 | 2000 | 126 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-012-NBZ-SB-0.5-1.5 | Date Analyzed: 04/26/12 09:59 |
| Lab Samp ID: D176-03 | Dilution Factor: 1 |
| Lab File ID: PD25032A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: PD25031A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2450 | 2000 | 123 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/19/12 |
| Batch No. | : 12D176 | Date Extracted | : 04/24/12 18:47 |
| Sample ID | : SL-017-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/26/12 10:41 |
| Lab Samp ID | : D176-04 | Dilution Factor | : 1 |
| Lab File ID | : PD25035A | Matrix | : SOIL |
| Ext Btch ID | : EXD018S | % Moisture | : NA |
| Calib. Ref. | : PD25031A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2530 | 2000 | 126 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| Batch No. : 12D176 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-086-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 10:55 |
| Lab Samp ID: D176-05 | Dilution Factor: 1 |
| Lab File ID: PD25036A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: PD25031A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2480 | 2000 | 124 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/19/12 |
| Batch No. | : 12D176 | Date Extracted | : 04/24/12 18:47 |
| Sample ID | : SL-087-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/26/12 11:08 |
| Lab Samp ID | : D176-07 | Dilution Factor | : .99 |
| Lab File ID | : PD25037A | Matrix | : SOIL |
| Ext Btch ID | : EXD018S | % Moisture | : NA |
| Calib. Ref. | : PD25031A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2490 | 1980 | 126 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : NA |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/24/12 |
| Batch No. | : 12D176 | Date Extracted | : 04/24/12 18:47 |
| Sample ID | : MBLK1S | Date Analyzed | : 04/25/12 17:44 |
| Lab Samp ID | : EXD018SB | Dilution Factor | : 1 |
| Lab File ID | : PD25014A | Matrix | : SOIL |
| Ext Btch ID | : EXD018S | % Moisture | : NA |
| Calib. Ref. | : PD25005A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2490 | 2000 | 125 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD018SB | EXD018SX | EXD018SY | | |
| LAB FILE ID: | PD25014A | PD25015A | PD25016A | | |
| DATE EXTRACTED: | 04/24/1218:47 | 04/24/1218:47 | 04/24/1218:47 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1217:44 | 04/25/1217:58 | 04/25/1218:12 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | EXD018S | EXD018S | EXD018S | | |
| CALIB. REF: | PD25005A | PD25005A | PD25005A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7920 | 106 | 7500 | 7970 | 106 | 1 | 50-150 | 50 |
| PETN | ND | 7500 | 7670 | 102 | 7500 | 7500 | 100 | 2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2380 | 119 | 2000 | 2400 | 120 | 65-135 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: Method 8332

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | .99 | | |
| SAMPLE ID: | SL-012-NBZ-SB-0.5-1.5 | | | | |
| LAB SAMP ID: | D176-03 | D176-03M | D176-03S | | |
| LAB FILE ID: | PD25032A | PD25033A | PD25034A | | |
| DATE EXTRACTED: | 04/24/1218:47 | 04/24/1218:47 | 04/24/1218:47 | DATE COLLECTED: | 04/19/12 |
| DATE ANALYZED: | 04/26/1209:59 | 04/26/1210:13 | 04/26/1210:27 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | EXD018S | EXD018S | EXD018S | | |
| CALIB. REF: | PD25031A | PD25031A | PD25031A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7760 | 104 | 7420 | 7480 | 101 | 3 | 50-150 | 50 |
| PETN | ND | 7500 | 7730 | 103 | 7420 | 7720 | 104 | 1 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2450 | 123 | 1980 | 2390 | 121 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/19/12 |
| SDG NO. | : 12D176 | Date Extracted | : 04/27/12 10:38 |
| Sample ID | : SL-012-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/03/12 17:08 |
| Lab Samp ID | : D176-01 | Dilution Factor | : 0.957 |
| Lab File ID | : 98E03077 | Matrix | : SOIL |
| Ext Btch ID | : IMD041S | % Moisture | : 14.3 |
| Calib. Ref. | : 98E03070 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 17200 | 26.8 | 13.4 |
| Antimony | 0.267 | 0.223 | 0.112 |
| Arsenic | 7.31 | 0.447 | 0.223 |
| Barium | 150 | 0.447 | 0.223 |
| Beryllium | 0.647 | 0.112 | 0.0558 |
| Boron | 3.33J | 5.58 | 2.79 |
| Cadmium | 0.378 | 0.112 | 0.0558 |
| Calcium | 4270 | 22.3 | 11.2 |
| Chromium | 19.9 | 0.447 | 0.223 |
| Cobalt | 10.1 | 0.112 | 0.0558 |
| Copper | 9.99 | 0.447 | 0.223 |
| Iron | 29100 | 22.3 | 11.2 |
| Lead | 17.3 | 0.223 | 0.112 |
| Magnesium | 6700 | 11.2 | 5.58 |
| Manganese | 582 | 0.558 | 0.279 |
| Molybdenum | 0.743 | 0.112 | 0.0558 |
| Nickel | 13.1 | 0.447 | 0.223 |
| Potassium | 5850 | 67.0 | 33.5 |
| Selenium | 0.263J | 0.447 | 0.223 |
| Silver | ND | 0.112 | 0.0558 |
| Sodium | 123 | 112 | 55.8 |
| Strontium | 29.3 | 0.558 | 0.279 |
| Thallium | 0.374 | 0.112 | 0.0558 |
| Tin | ND | 11.2 | 5.58 |
| Titanium | 1460 | 1.12 | 0.558 |
| Vanadium | 43.6 | 0.112 | 0.0558 |
| Zinc | 92.7 | 3.35 | 1.68 |
| Lithium | 39.9 | 2.23 | 1.12 |
| Phosphorus | 669 | 13.4 | 6.70 |
| Zirconium | ND | 5.58 | 2.79 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/19/12 |
| SDG NO. | : 12D176 | Date Extracted | : 04/27/12 10:38 |
| Sample ID | : SL-012-NBZ-SB-0.5-1.5 | Date Analyzed | : 05/03/12 17:13 |
| Lab Samp ID | : D176-03 | Dilution Factor | : 0.952 |
| Lab File ID | : 98E03078 | Matrix | : SOIL |
| Ext Btch ID | : IMD041S | % Moisture | : 16.4 |
| Calib. Ref. | : 98E03070 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12300 | 27.3 | 13.7 |
| Antimony | ND | 0.228 | 0.114 |
| Arsenic | 4.21 | 0.456 | 0.228 |
| Barium | 72.5 | 0.456 | 0.228 |
| Beryllium | 0.436 | 0.114 | 0.0569 |
| Boron | ND | 5.69 | 2.85 |
| Cadmium | 0.128 | 0.114 | 0.0569 |
| Calcium | 2090 | 22.8 | 11.4 |
| Chromium | 14.9 | 0.456 | 0.228 |
| Cobalt | 3.71 | 0.114 | 0.0569 |
| Copper | 5.14 | 0.456 | 0.228 |
| Iron | 19100 | 22.8 | 11.4 |
| Lead | 5.23 | 0.228 | 0.114 |
| Magnesium | 4420 | 11.4 | 5.69 |
| Manganese | 168 | 0.569 | 0.285 |
| Molybdenum | 0.370 | 0.114 | 0.0569 |
| Nickel | 7.72 | 0.456 | 0.228 |
| Potassium | 2740 | 68.3 | 34.2 |
| Selenium | ND | 0.456 | 0.228 |
| Silver | ND | 0.114 | 0.0569 |
| Sodium | 92.2J | 114 | 56.9 |
| Strontium | 16.3 | 0.569 | 0.285 |
| Thallium | 0.254 | 0.114 | 0.0569 |
| Tin | ND | 11.4 | 5.69 |
| Titanium | 923 | 1.14 | 0.569 |
| Vanadium | 29.2 | 0.114 | 0.0569 |
| Zinc | 48.1 | 3.42 | 1.71 |
| Lithium | 22.7 | 2.28 | 1.14 |
| Phosphorus | 348 | 13.7 | 6.83 |
| Zirconium | ND | 5.69 | 2.85 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/19/12 |
| SDG NO. | : 12D176 | Date Extracted | : 04/27/12 10:38 |
| Sample ID | : SL-017-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/03/12 17:17 |
| Lab Samp ID | : D176-04 | Dilution Factor | : 0.966 |
| Lab File ID | : 98E03079 | Matrix | : SOIL |
| Ext Btch ID | : IMD041S | % Moisture | : 29.7 |
| Calib. Ref. | : 98E03070 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9990 | 33.0 | 16.5 |
| Antimony | 0.330 | 0.275 | 0.137 |
| Arsenic | 3.46 | 0.550 | 0.275 |
| Barium | 106 | 0.550 | 0.275 |
| Beryllium | 0.427 | 0.137 | 0.0687 |
| Boron | 22.8 | 6.87 | 3.44 |
| Cadmium | 0.284 | 0.137 | 0.0687 |
| Calcium | 13400 | 27.5 | 13.7 |
| Chromium | 15.8 | 0.550 | 0.275 |
| Cobalt | 5.40 | 0.137 | 0.0687 |
| Copper | 10.6 | 0.550 | 0.275 |
| Iron | 18300 | 27.5 | 13.7 |
| Lead | 16.8 | 0.275 | 0.137 |
| Magnesium | 6510 | 13.7 | 6.87 |
| Manganese | 370 | 0.687 | 0.344 |
| Molybdenum | 0.717 | 0.137 | 0.0687 |
| Nickel | 11.9 | 0.550 | 0.275 |
| Potassium | 3540 | 82.4 | 41.2 |
| Selenium | 0.288J | 0.550 | 0.275 |
| Silver | 0.0954J | 0.137 | 0.0687 |
| Sodium | 124J | 137 | 68.7 |
| Strontium | 41.2 | 0.687 | 0.344 |
| Thallium | 0.222 | 0.137 | 0.0687 |
| Tin | ND | 13.7 | 6.87 |
| Titanium | 905 | 1.37 | 0.687 |
| Vanadium | 34.5 | 0.137 | 0.0687 |
| Zinc | 68.8 | 4.12 | 2.06 |
| Lithium | 24.1 | 2.75 | 1.37 |
| Phosphorus | 532 | 16.5 | 8.24 |
| Zirconium | ND | 6.87 | 3.44 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/19/12 |
| SDG NO. | : 12D176 | Date Extracted | : 04/27/12 10:38 |
| Sample ID | : SL-086-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/03/12 17:22 |
| Lab Samp ID | : D176-05 | Dilution Factor | : 0.990 |
| Lab File ID | : 98E03080 | Matrix | : SOIL |
| Ext Btch ID | : IMD041S | % Moisture | : 22.6 |
| Calib. Ref. | : 98E03070 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 11500 | 30.7 | 15.3 |
| Antimony | 0.229J | 0.256 | 0.128 |
| Arsenic | 21.6 | 0.512 | 0.256 |
| Barium | 88.7 | 0.512 | 0.256 |
| Beryllium | 0.447 | 0.128 | 0.0640 |
| Boron | ND | 6.40 | 3.20 |
| Cadmium | 0.252 | 0.128 | 0.0640 |
| Calcium | 3220 | 25.6 | 12.8 |
| Chromium | 16.7 | 0.512 | 0.256 |
| Cobalt | 5.27 | 0.128 | 0.0640 |
| Copper | 8.31 | 0.512 | 0.256 |
| Iron | 19400 | 25.6 | 12.8 |
| Lead | 15.3 | 0.256 | 0.128 |
| Magnesium | 4890 | 12.8 | 6.40 |
| Manganese | 262 | 0.640 | 0.320 |
| Molybdenum | 0.432 | 0.128 | 0.0640 |
| Nickel | 10.5 | 0.512 | 0.256 |
| Potassium | 4280 | 76.7 | 38.4 |
| Selenium | ND | 0.512 | 0.256 |
| Silver | 0.0736J | 0.128 | 0.0640 |
| Sodium | 90.1J | 128 | 64.0 |
| Strontium | 17.4 | 0.640 | 0.320 |
| Thallium | 0.264 | 0.128 | 0.0640 |
| Tin | ND | 12.8 | 6.40 |
| Titanium | 991 | 1.28 | 0.640 |
| Vanadium | 32.3 | 0.128 | 0.0640 |
| Zinc | 62.5 | 3.84 | 1.92 |
| Lithium | 26.2 | 2.56 | 1.28 |
| Phosphorus | 440 | 15.3 | 7.67 |
| Zirconium | ND | 6.40 | 3.20 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/19/12 |
| SDG NO. | : 12D176 | Date Extracted | : 04/27/12 10:38 |
| Sample ID | : SL-087-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/03/12 17:40 |
| Lab Samp ID | : D176-07 | Dilution Factor | : 0.976 |
| Lab File ID | : 98E03084 | Matrix | : SOIL |
| Ext Btch ID | : IMD041S | % Moisture | : 20.8 |
| Calib. Ref. | : 98E03082 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 9220 | 29.6 | 14.8 |
| Antimony | 0.133J | 0.246 | 0.123 |
| Arsenic | 18.2 | 0.493 | 0.246 |
| Barium | 68.7 | 0.493 | 0.246 |
| Beryllium | 0.368 | 0.123 | 0.0616 |
| Boron | ND | 6.16 | 3.08 |
| Cadmium | 0.167 | 0.123 | 0.0616 |
| Calcium | 2600 | 24.6 | 12.3 |
| Chromium | 11.9 | 0.493 | 0.246 |
| Cobalt | 4.44 | 0.123 | 0.0616 |
| Copper | 5.74 | 0.493 | 0.246 |
| Iron | 16500 | 24.6 | 12.3 |
| Lead | 9.62 | 0.246 | 0.123 |
| Magnesium | 3910 | 12.3 | 6.16 |
| Manganese | 231 | 0.616 | 0.308 |
| Molybdenum | 0.256 | 0.123 | 0.0616 |
| Nickel | 7.64 | 0.493 | 0.246 |
| Potassium | 3350 | 73.9 | 37.0 |
| Selenium | ND | 0.493 | 0.246 |
| Silver | ND | 0.123 | 0.0616 |
| Sodium | 70.7J | 123 | 61.6 |
| Strontium | 12.5 | 0.616 | 0.308 |
| Thallium | 0.237 | 0.123 | 0.0616 |
| Tin | ND | 12.3 | 6.16 |
| Titanium | 814 | 1.23 | 0.616 |
| Vanadium | 25.6 | 0.123 | 0.0616 |
| Zinc | 49.9 | 3.70 | 1.85 |
| Lithium | 20.2 | 2.46 | 1.23 |
| Phosphorus | 333 | 14.8 | 7.39 |
| Zirconium | ND | 6.16 | 3.08 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/19/12 |
| SDG NO. | : 12D176 | Date Extracted | : 04/27/12 10:38 |
| Sample ID | : SL-150-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/03/12 17:45 |
| Lab Samp ID | : D176-08 | Dilution Factor | : 0.995 |
| Lab File ID | : 98E03085 | Matrix | : SOIL |
| Ext Btch ID | : IMD041S | % Moisture | : 11.2 |
| Calib. Ref. | : 98E03082 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10600 | 26.9 | 13.4 |
| Antimony | 0.202J | 0.224 | 0.112 |
| Arsenic | 4.45 | 0.448 | 0.224 |
| Barium | 72.1 | 0.448 | 0.224 |
| Beryllium | 0.390 | 0.112 | 0.0560 |
| Boron | ND | 5.60 | 2.80 |
| Cadmium | 0.233 | 0.112 | 0.0560 |
| Calcium | 2330 | 22.4 | 11.2 |
| Chromium | 11.3 | 0.448 | 0.224 |
| Cobalt | 4.52 | 0.112 | 0.0560 |
| Copper | 6.45 | 0.448 | 0.224 |
| Iron | 17900 | 22.4 | 11.2 |
| Lead | 16.4 | 0.224 | 0.112 |
| Magnesium | 4010 | 11.2 | 5.60 |
| Manganese | 287 | 0.560 | 0.280 |
| Molybdenum | 0.522 | 0.112 | 0.0560 |
| Nickel | 7.88 | 0.448 | 0.224 |
| Potassium | 3120 | 67.2 | 33.6 |
| Selenium | ND | 0.448 | 0.224 |
| Silver | ND | 0.112 | 0.0560 |
| Sodium | 83.9J | 112 | 56.0 |
| Strontium | 14.3 | 0.560 | 0.280 |
| Thallium | 0.227 | 0.112 | 0.0560 |
| Tin | ND | 11.2 | 5.60 |
| Titanium | 864 | 1.12 | 0.560 |
| Vanadium | 26.1 | 0.112 | 0.0560 |
| Zinc | 55.8 | 3.36 | 1.68 |
| Lithium | 24.9 | 2.24 | 1.12 |
| Phosphorus | 421 | 13.4 | 6.72 |
| Zirconium | ND | 5.60 | 2.80 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| SDG NO. : 12D176 | Date Extracted: 04/27/12 10:38 |
| Sample ID: SL-178-NBZ-SS-0.0-0.5 | Date Analyzed: 05/03/12 17:49 |
| Lab Samp ID: D176-09 | Dilution Factor: 0.995 |
| Lab File ID: 98E03086 | Matrix : SOIL |
| Ext Btch ID: IMD041S | % Moisture : 10.7 |
| Calib. Ref.: 98E03082 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 12400 | 26.7 | 13.4 |
| Antimony | 0.142J | 0.223 | 0.111 |
| Arsenic | 11.0 | 0.446 | 0.223 |
| Barium | 68.8 | 0.446 | 0.223 |
| Beryllium | 0.509 | 0.111 | 0.0557 |
| Boron | ND | 5.57 | 2.79 |
| Cadmium | 0.134 | 0.111 | 0.0557 |
| Calcium | 1480 | 22.3 | 11.1 |
| Chromium | 14.1 | 0.446 | 0.223 |
| Cobalt | 5.85 | 0.111 | 0.0557 |
| Copper | 6.58 | 0.446 | 0.223 |
| Iron | 19500 | 22.3 | 11.1 |
| Lead | 9.86 | 0.223 | 0.111 |
| Magnesium | 4500 | 11.1 | 5.57 |
| Manganese | 244 | 0.557 | 0.279 |
| Molybdenum | 0.501 | 0.111 | 0.0557 |
| Nickel | 9.35 | 0.446 | 0.223 |
| Potassium | 3330 | 66.9 | 33.4 |
| Selenium | 0.274J | 0.446 | 0.223 |
| Silver | ND | 0.111 | 0.0557 |
| Sodium | 62.0J | 111 | 55.7 |
| Strontium | 9.93 | 0.557 | 0.279 |
| Thallium | 0.270 | 0.111 | 0.0557 |
| Tin | ND | 11.1 | 5.57 |
| Titanium | 942 | 1.11 | 0.557 |
| Vanadium | 31.1 | 0.111 | 0.0557 |
| Zinc | 51.9 | 3.34 | 1.67 |
| Lithium | 26.5 | 2.23 | 1.11 |
| Phosphorus | 210 | 13.4 | 6.69 |
| Zirconium | ND | 5.57 | 2.79 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| SDG NO. : 12D176 | Date Extracted: 04/27/12 10:38 |
| Sample ID: SL-179-NBZ-SS-0.0-0.5 | Date Analyzed: 05/03/12 17:54 |
| Lab Samp ID: D176-10 | Dilution Factor: 1.00 |
| Lab File ID: 98E03087 | Matrix : SOIL |
| Ext Btch ID: IMD041S | % Moisture : 11.0 |
| Calib. Ref.: 98E03082 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10700 | 27.0 | 13.5 |
| Antimony | 0.138J | 0.225 | 0.112 |
| Arsenic | 4.25 | 0.449 | 0.225 |
| Barium | 81.1 | 0.449 | 0.225 |
| Beryllium | 0.433 | 0.112 | 0.0562 |
| Boron | ND | 5.62 | 2.81 |
| Cadmium | 0.236 | 0.112 | 0.0562 |
| Calcium | 2370 | 22.5 | 11.2 |
| Chromium | 11.4 | 0.449 | 0.225 |
| Cobalt | 4.57 | 0.112 | 0.0562 |
| Copper | 5.87 | 0.449 | 0.225 |
| Iron | 17500 | 22.5 | 11.2 |
| Lead | 9.35 | 0.225 | 0.112 |
| Magnesium | 3760 | 11.2 | 5.62 |
| Manganese | 327 | 0.562 | 0.281 |
| Molybdenum | 0.431 | 0.112 | 0.0562 |
| Nickel | 8.43 | 0.449 | 0.225 |
| Potassium | 3540 | 67.4 | 33.7 |
| Selenium | ND | 0.449 | 0.225 |
| Silver | ND | 0.112 | 0.0562 |
| Sodium | ND | 112 | 56.2 |
| Strontium | 20.6 | 0.562 | 0.281 |
| Thallium | 0.234 | 0.112 | 0.0562 |
| Tin | ND | 11.2 | 5.62 |
| Titanium | 787 | 1.12 | 0.562 |
| Vanadium | 24.8 | 0.112 | 0.0562 |
| Zinc | 52.0 | 3.37 | 1.69 |
| Lithium | 24.7 | 2.25 | 1.12 |
| Phosphorus | 315 | 13.5 | 6.74 |
| Zirconium | ND | 5.62 | 2.81 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/19/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/19/12 |
| SDG NO. : 12D176 | Date Extracted: 04/27/12 10:38 |
| Sample ID: SL-184-NBZ-SS-0.0-0.5 | Date Analyzed: 05/03/12 17:58 |
| Lab Samp ID: D176-11 | Dilution Factor: 0.990 |
| Lab File ID: 98E03088 | Matrix : SOIL |
| Ext Btch ID: IMD041S | % Moisture : 11.9 |
| Calib. Ref.: 98E03082 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10800 | 27.0 | 13.5 |
| Antimony | 0.146J | 0.225 | 0.112 |
| Arsenic | 18.4 | 0.449 | 0.225 |
| Barium | 90.3 | 0.449 | 0.225 |
| Beryllium | 0.411 | 0.112 | 0.0562 |
| Boron | ND | 5.62 | 2.81 |
| Cadmium | 0.199 | 0.112 | 0.0562 |
| Calcium | 2930 | 22.5 | 11.2 |
| Chromium | 14.4 | 0.449 | 0.225 |
| Cobalt | 4.79 | 0.112 | 0.0562 |
| Copper | 6.50 | 0.449 | 0.225 |
| Iron | 17700 | 22.5 | 11.2 |
| Lead | 8.41 | 0.225 | 0.112 |
| Magnesium | 4330 | 11.2 | 5.62 |
| Manganese | 294 | 0.562 | 0.281 |
| Molybdenum | 0.508 | 0.112 | 0.0562 |
| Nickel | 9.58 | 0.449 | 0.225 |
| Potassium | 3960 | 67.4 | 33.7 |
| Selenium | ND | 0.449 | 0.225 |
| Silver | ND | 0.112 | 0.0562 |
| Sodium | ND | 112 | 56.2 |
| Strontium | 18.0 | 0.562 | 0.281 |
| Thallium | 0.239 | 0.112 | 0.0562 |
| Tin | ND | 11.2 | 5.62 |
| Titanium | 843 | 1.12 | 0.562 |
| Vanadium | 28.0 | 0.112 | 0.0562 |
| Zinc | 48.1 | 3.37 | 1.69 |
| Lithium | 25.7 | 2.25 | 1.12 |
| Phosphorus | 302 | 13.5 | 6.74 |
| Zirconium | ND | 5.62 | 2.81 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/19/12 |
| SDG NO. | : 12D176 | Date Extracted | : 04/27/12 10:38 |
| Sample ID | : SL-193-NBZ-SS-0.0-0.5 | Date Analyzed | : 05/03/12 16:09 |
| Lab Samp ID | : D176-12 | Dilution Factor | : 0.995 |
| Lab File ID | : 98E03064 | Matrix | : SOIL |
| Ext Btch ID | : IMD041S | % Moisture | : 11.0 |
| Calib. Ref. | : 98E03058 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10100 | 26.8 | 13.4 |
| Antimony | 0.147J | 0.224 | 0.112 |
| Arsenic | 5.99 | 0.447 | 0.224 |
| Barium | 77.5 | 0.447 | 0.224 |
| Beryllium | 0.400 | 0.112 | 0.0559 |
| Boron | ND | 5.59 | 2.79 |
| Cadmium | 0.212 | 0.112 | 0.0559 |
| Calcium | 2420 | 22.4 | 11.2 |
| Chromium | 10.7 | 0.447 | 0.224 |
| Cobalt | 4.31 | 0.112 | 0.0559 |
| Copper | 5.49 | 0.447 | 0.224 |
| Iron | 16800 | 22.4 | 11.2 |
| Lead | 6.82 | 0.224 | 0.112 |
| Magnesium | 4010 | 11.2 | 5.59 |
| Manganese | 260 | 0.559 | 0.279 |
| Molybdenum | 0.368 | 0.112 | 0.0559 |
| Nickel | 7.65 | 0.447 | 0.224 |
| Potassium | 3440 | 67.1 | 33.5 |
| Selenium | ND | 0.447 | 0.224 |
| Silver | ND | 0.112 | 0.0559 |
| Sodium | ND | 112 | 55.9 |
| Strontium | 16.6 | 0.559 | 0.279 |
| Thallium | 0.223 | 0.112 | 0.0559 |
| Tin | ND | 11.2 | 5.59 |
| Titanium | 807 | 1.12 | 0.559 |
| Vanadium | 25.1 | 0.112 | 0.0559 |
| Zinc | 48.2 | 3.35 | 1.68 |
| Lithium | 26.4 | 2.24 | 1.12 |
| Phosphorus | 311 | 13.4 | 6.71 |
| Zirconium | ND | 5.59 | 2.79 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/19/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/19/12 |
| SDG NO. | : 12D176 | Date Extracted | : 04/27/12 10:38 |
| Sample ID | : DUP-09-NBZ-QC-041912 | Date Analyzed | : 05/03/12 18:03 |
| Lab Samp ID | : D176-13 | Dilution Factor | : 0.995 |
| Lab File ID | : 98E03089 | Matrix | : SOIL |
| Ext Btch ID | : IMD041S | % Moisture | : 10.5 |
| Calib. Ref. | : 98E03082 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | 10700 | 26.7 | 13.3 |
| Antimony | ND | 0.222 | 0.111 |
| Arsenic | 5.75 | 0.445 | 0.222 |
| Barium | 74.7 | 0.445 | 0.222 |
| Beryllium | 0.394 | 0.111 | 0.0556 |
| Boron | ND | 5.56 | 2.78 |
| Cadmium | 0.202 | 0.111 | 0.0556 |
| Calcium | 2120 | 22.2 | 11.1 |
| Chromium | 11.3 | 0.445 | 0.222 |
| Cobalt | 4.26 | 0.111 | 0.0556 |
| Copper | 5.18 | 0.445 | 0.222 |
| Iron | 17400 | 22.2 | 11.1 |
| Lead | 4.20 | 0.222 | 0.111 |
| Magnesium | 4130 | 11.1 | 5.56 |
| Manganese | 256 | 0.556 | 0.278 |
| Molybdenum | 0.353 | 0.111 | 0.0556 |
| Nickel | 7.42 | 0.445 | 0.222 |
| Potassium | 3600 | 66.7 | 33.4 |
| Selenium | ND | 0.445 | 0.222 |
| Silver | ND | 0.111 | 0.0556 |
| Sodium | 57.6J | 111 | 55.6 |
| Strontium | 14.3 | 0.556 | 0.278 |
| Thallium | 0.237 | 0.111 | 0.0556 |
| Tin | ND | 11.1 | 5.56 |
| Titanium | 868 | 1.11 | 0.556 |
| Vanadium | 25.7 | 0.111 | 0.0556 |
| Zinc | 47.2 | 3.34 | 1.67 |
| Lithium | 27.2 | 2.22 | 1.11 |
| Phosphorus | 299 | 13.3 | 6.67 |
| Zirconium | ND | 5.56 | 2.78 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/27/12 |
| SDG NO. : 12D176 | Date Extracted: 04/27/12 10:38 |
| Sample ID: MBLK1S | Date Analyzed: 05/03/12 18:35 |
| Lab Samp ID: IMD041SQ | Dilution Factor: 1 |
| Lab File ID: 98E03096 | Matrix : SOIL |
| Ext Btch ID: IMD041S | % Moisture : NA |
| Calib. Ref.: 98E03094 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D176
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IMD041SQ | IMD041SL | IMD041SC | | |
| LAB FILE ID: | 98E03096 | 98E03061 | 98E03062 | | |
| DATIME EXTRCTD: | 04/27/1210:38 | 04/27/1210:38 | 04/27/1210:38 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 05/03/1218:35 | 05/03/1215:56 | 05/03/1216:00 | DATE RECEIVED: | 04/27/12 |
| PREP. BATCH: | NA | NA | NA | | |
| CALIB. REF: | 98E03094 | 98E03058 | 98E03058 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2610 | 105 | 2500 | 2710 | 108 | 4 | 80-120 | 20 |
| Antimony | ND | 25.0 | 25.8 | 103 | 25.0 | 26.0 | 104 | 1 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 25.0 | 100 | 25.0 | 25.4 | 102 | 1 | 80-120 | 20 |
| Barium | ND | 25.0 | 26.3 | 105 | 25.0 | 26.5 | 106 | 1 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 25.0 | 100 | 25.0 | 25.5 | 102 | 2 | 80-120 | 20 |
| Boron | ND | 25.0 | 25.4 | 102 | 25.0 | 26.3 | 105 | 3 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 25.1 | 100 | 25.0 | 25.2 | 101 | 0 | 80-120 | 20 |
| Calcium | ND | 2500 | 2710 | 108 | 2500 | 2780 | 111 | 3 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.5 | 98 | 25.0 | 24.9 | 100 | 2 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 25.4 | 102 | 25.0 | 26.4 | 106 | 4 | 80-120 | 20 |
| Copper | ND | 25.0 | 23.9 | 96 | 25.0 | 24.2 | 97 | 1 | 80-120 | 20 |
| Iron | ND | 2500 | 2610 | 104 | 2500 | 2680 | 107 | 2 | 80-120 | 20 |
| Lead | ND | 25.0 | 25.6 | 103 | 25.0 | 25.9 | 104 | 1 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2630 | 105 | 2500 | 2740 | 109 | 4 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.9 | 104 | 25.0 | 26.7 | 107 | 3 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 25.3 | 101 | 25.0 | 25.5 | 102 | 1 | 80-120 | 20 |
| Nickel | ND | 25.0 | 23.8 | 95 | 25.0 | 24.1 | 97 | 1 | 80-120 | 20 |
| Potassium | ND | 2500 | 2780 | 111 | 2500 | 2850 | 114 | 2 | 80-120 | 20 |
| Selenium | ND | 25.0 | 24.6 | 98 | 25.0 | 25.1 | 100 | 2 | 80-120 | 20 |
| Silver | ND | 25.0 | 25.7 | 103 | 25.0 | 25.8 | 103 | 1 | 80-120 | 20 |
| Sodium | ND | 2500 | 2590 | 104 | 2500 | 2650 | 106 | 2 | 80-120 | 20 |
| Strontium | ND | 25.0 | 26.4 | 105 | 25.0 | 26.6 | 106 | 1 | 80-120 | 20 |
| Thallium | ND | 25.0 | 25.7 | 103 | 25.0 | 26.1 | 104 | 1 | 80-120 | 20 |
| Tin | ND | 25.0 | 28.1 | 112 | 25.0 | 28.4 | 114 | 1 | 80-120 | 20 |
| Titanium | ND | 25.0 | 25.7 | 103 | 25.0 | 26.7 | 107 | 4 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 24.8 | 99 | 25.0 | 25.1 | 100 | 1 | 80-120 | 20 |
| Zinc | ND | 50.0 | 49.6 | 99 | 50.0 | 50.2 | 100 | 1 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.9 | 103 | 25.0 | 26.0 | 104 | 1 | 80-120 | 20 |
| Phosphorus | ND | 250 | 251 | 100 | 250 | 256 | 102 | 2 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 25.3 | 101 | 25.0 | 25.9 | 103 | 2 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D176
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 11.0

| | | | | | |
|---|---|---|---|---|---|
| DILTN FACTR: | 0.995 | 0.957 | 0.995 | | |
| SAMPLE ID: | SL-193-NBZ-SS-0.0-0.5 | | | | |
| CONTROL NO.: | D176-12 | D176-12M | D176-12S | | |
| LAB FILE ID: | 98E03064 | 98E03075 | 98E03076 | | |
| DATIME EXTRCTD: | 04/27/1210:38 | 04/27/1210:38 | 04/27/1210:38 | DATE COLLECTED: | 04/19/12 |
| DATIME ANALYZD: | 05/03/1216:09 | 05/03/1216:59 | 05/03/1217:04 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | NA | NA | NA | | |
| CALIB. REF: | 98E03058 | 98E03070 | 98E03070 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 10100 | 2690 | 12200 | 78 | 2790 | 13600 | 123 | 10 | 75-125 | 20 |
| Antimony | 0.147J | 26.9 | 19.7 | 73* | 27.9 | 21.4 | 76 | 8 | 75-125 | 20 |
| Arsenic | 5.99 | 26.9 | 30.5 | 91 | 27.9 | 32.0 | 93 | 5 | 75-125 | 20 |
| Barium | 77.5 | 26.9 | 102 | 91 | 27.9 | 107 | 104 | 4 | 75-125 | 20 |
| Beryllium | 0.400 | 26.9 | 26.6 | 97 | 27.9 | 27.5 | 97 | 3 | 75-125 | 20 |
| Boron | ND | 26.9 | 27.2 | 101 | 27.9 | 28.9 | 103 | 6 | 75-125 | 20 |
| Cadmium | 0.212 | 26.9 | 26.4 | 97 | 27.9 | 27.6 | 98 | 5 | 75-125 | 20 |
| Calcium | 2420 | 2690 | 4980 | 95 | 2790 | 5210 | 100 | 5 | 75-125 | 20 |
| Chromium | 10.7 | 26.9 | 34.9 | 90 | 27.9 | 36.9 | 94 | 6 | 75-125 | 20 |
| Cobalt | 4.31 | 26.9 | 28.9 | 92 | 27.9 | 30.4 | 93 | 5 | 75-125 | 20 |
| Copper | 5.49 | 26.9 | 28.5 | 86 | 27.9 | 29.9 | 87 | 5 | 75-125 | 20 |
| Iron | 16800 | 2690 | 18400 | 58* | 2790 | 19700 | 104 | 7 | 75-125 | 20 |
| Lead | 6.82 | 26.9 | 32.6 | 96 | 27.9 | 34.1 | 98 | 5 | 75-125 | 20 |
| Magnesium | 4010 | 2690 | 6290 | 85 | 2790 | 6810 | 100 | 8 | 75-125 | 20 |
| Manganese | 260 | 26.9 | 262 | 7* | 27.9 | 288 | 101 | 10 | 75-125 | 20 |
| Molybdenum | 0.368 | 26.9 | 26.7 | 98 | 27.9 | 28.1 | 99 | 5 | 75-125 | 20 |
| Nickel | 7.65 | 26.9 | 30.7 | 86 | 27.9 | 32.2 | 88 | 5 | 75-125 | 20 |
| Potassium | 3440 | 2690 | 6060 | 97 | 2790 | 6510 | 110 | 7 | 75-125 | 20 |
| Selenium | ND | 26.9 | 25.6 | 95 | 27.9 | 26.9 | 96 | 5 | 75-125 | 20 |
| Silver | ND | 26.9 | 26.6 | 99 | 27.9 | 28.1 | 101 | 5 | 75-125 | 20 |
| Sodium | ND | 2690 | 2590 | 96 | 2790 | 2760 | 99 | 7 | 75-125 | 20 |
| Strontium | 16.6 | 26.9 | 42.0 | 94 | 27.9 | 44.0 | 98 | 5 | 75-125 | 20 |
| Thallium | 0.223 | 26.9 | 26.7 | 98 | 27.9 | 28.0 | 100 | 5 | 75-125 | 20 |
| Tin | ND | 26.9 | 30.8 | 114 | 27.9 | 31.8 | 114 | 3 | 75-125 | 20 |
| Titanium | 807 | 26.9 | 812 | 19* | 27.9 | 905 | 350* | 11 | 75-125 | 20 |
| Vanadium | 25.1 | 26.9 | 49.0 | 89 | 27.9 | 52.2 | 97 | 6 | 75-125 | 20 |
| Zinc | 48.2 | 53.8 | 94.6 | 86 | 55.9 | 100 | 93 | 6 | 75-125 | 20 |
| Lithium | 26.4 | 26.9 | 52.3 | 97 | 27.9 | 56.1 | 106 | 7 | 75-125 | 20 |
| Phosphorus | 311 | 269 | 554 | 90 | 279 | 613 | 108 | 10 | 75-125 | 20 |
| Zirconium | ND | 26.9 | 11.5 | 43* | 27.9 | 13.1 | 47* | 13 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D176
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 11.0
DILTN FACTR: 0.995 0.995
SAMPLE ID: SL-193-NBZ-SS-0.0-0.5
CONTROL NO.: D176-12 D176-12A
LAB FILE ID: 98E03064 98E03063
DATIME EXTRCTD: 04/27/1210:38 04/27/1210:38 DATE COLLECTED: 04/19/12
DATIME ANALYZD: 05/03/1216:09 05/03/1216:05 DATE RECEIVED: 04/19/12
PREP. BATCH: NA NA
CALIB. REF: 98E03058 98E03058

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 10100 | 2790 | 13100 | 106 | 75-125 |
| Antimony | 0.147J | 27.9 | 28.3 | 101 | 75-125 |
| Arsenic | 5.99 | 27.9 | 32.2 | 94 | 75-125 |
| Barium | 77.5 | 27.9 | 111 | 118 | 75-125 |
| Beryllium | 0.400 | 27.9 | 27.9 | 98 | 75-125 |
| Boron | ND | 27.9 | 29.8 | 107 | 75-125 |
| Cadmium | 0.212 | 27.9 | 27.6 | 98 | 75-125 |
| Calcium | 2420 | 2790 | 5480 | 109 | 75-125 |
| Chromium | 10.7 | 27.9 | 36.1 | 91 | 75-125 |
| Cobalt | 4.31 | 27.9 | 30.6 | 94 | 75-125 |
| Copper | 5.49 | 27.9 | 29.8 | 87 | 75-125 |
| Iron | 16800 | 2790 | 19900 | 111 | 75-125 |
| Lead | 6.82 | 27.9 | 34.5 | 99 | 75-125 |
| Magnesium | 4010 | 2790 | 6800 | 100 | 75-125 |
| Manganese | 260 | 27.9 | 291 | 114 | 75-125 |
| Molybdenum | 0.368 | 27.9 | 28.2 | 99 | 75-125 |
| Nickel | 7.65 | 27.9 | 31.9 | 87 | 75-125 |
| Potassium | 3440 | 2790 | 6450 | 108 | 75-125 |
| Selenium | ND | 27.9 | 26.9 | 96 | 75-125 |
| Silver | ND | 27.9 | 27.6 | 99 | 75-125 |
| Sodium | ND | 2790 | 2830 | 101 | 75-125 |
| Strontium | 16.6 | 27.9 | 44.8 | 101 | 75-125 |
| Thallium | 0.223 | 27.9 | 28.1 | 100 | 75-125 |
| Tin | ND | 27.9 | 31.2 | 112 | 75-125 |
| Titanium | 807 | 27.9 | 855 | 170* | 75-125 |
| Vanadium | 25.1 | 27.9 | 51.1 | 93 | 75-125 |
| Zinc | 48.2 | 55.9 | 99.3 | 91 | 75-125 |
| Lithium | 26.4 | 27.9 | 55.9 | 106 | 75-125 |
| Phosphorus | 311 | 279 | 623 | 112 | 75-125 |
| Zirconium | ND | 27.9 | 26.9 | 96 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 11.0
DILUTION FACTOR: 0.995 4.98
SAMPLE ID: SL-193-NBZ-SS- SL-193-NBZ-SS-
EMAX SAMP ID: D176-12 D176-12J
LAB FILE ID: 98E03064 98E03065
DATE EXTRACTED: 04/27/1210:38 04/27/1210:38 DATE COLLECTED: 04/19/12
DATE ANALYZED: 05/03/1216:09 05/03/1216:14 DATE RECEIVED: 04/19/12
PREP. BATCH: IMD041S IMD041S
CALIB. REF: 98E03058 98E03058

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 10100 | 10300 | 2 | 10 |
| Antimony | 0.147J | ND | NA | 10 |
| Arsenic | 5.99 | 6.07 | 1 | 10 |
| Barium | 77.5 | 76.5 | 1 | 10 |
| Beryllium | 0.400 | 0.354J | NA | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.212 | ND | NA | 10 |
| Calcium | 2420 | 2530 | 4 | 10 |
| Chromium | 10.7 | 10.8 | 1 | 10 |
| Cobalt | 4.31 | 4.49 | 4 | 10 |
| Copper | 5.49 | 5.87 | 7 | 10 |
| Iron | 16800 | 17400 | 3 | 10 |
| Lead | 6.82 | 6.80 | 0 | 10 |
| Magnesium | 4010 | 4070 | 2 | 10 |
| Manganese | 260 | 271 | 5 | 10 |
| Molybdenum | 0.368 | 0.382J | NA | 10 |
| Nickel | 7.65 | 7.91 | 3 | 10 |
| Potassium | 3440 | 3410 | 1 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | ND | ND | 0 | 10 |
| Sodium | ND | ND | 0 | 10 |
| Strontium | 16.6 | 16.4 | 1 | 10 |
| Thallium | 0.223 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 807 | 793 | 2 | 10 |
| Vanadium | 25.1 | 25.4 | 1 | 10 |
| Zinc | 48.2 | 51.5 | 7 | 10 |
| Lithium | 26.4 | 23.5 | 11* | 10 |
| Phosphorus | 311 | 317 | 2 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D176
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGE001SB | ND | 1 | NA | 0.100 | 0.0500 | 05/01/1217:50 | 05/01/1215:50 | M47E002010 | M47E002008 | HGE001S | NA | 05/01/12 |
| LCS1S | HGE001SL | 0.870 | 1 | NA | 0.100 | 0.0500 | 05/01/1217:53 | 05/01/1215:50 | M47E002011 | M47E002008 | HGE001S | NA | 05/01/12 |
| LCD1S | HGE001SC | 0.863 | 1 | NA | 0.100 | 0.0500 | 05/01/1217:55 | 05/01/1215:50 | M47E002012 | M47E002008 | HGE001S | NA | 05/01/12 |
| SL-193-NBZ-SS-0.0-0.5AS | D176-12A | 0.976 | 1.00 | 11.0 | 0.112 | 0.0562 | 05/01/1217:57 | 05/01/1215:50 | M47E002013 | M47E002008 | HGE001S | 04/19/12 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5 | D176-12 | ND | 1.00 | 11.0 | 0.112 | 0.0562 | 05/01/1217:59 | 05/01/1215:50 | M47E002014 | M47E002008 | HGE001S | 04/19/12 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5DL | D176-12J | ND | 5.02 | 11.0 | 0.564 | 0.282 | 05/01/1218:01 | 05/01/1215:50 | M47E002015 | M47E002008 | HGE001S | 04/19/12 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5MS | D176-12M | 0.980 | 0.993 | 11.0 | 0.112 | 0.0558 | 05/01/1218:03 | 05/01/1215:50 | M47E002016 | M47E002008 | HGE001S | 04/19/12 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5MSD | D176-12S | 0.993 | 1.01 | 11.0 | 0.113 | 0.0567 | 05/01/1218:05 | 05/01/1215:50 | M47E002017 | M47E002008 | HGE001S | 04/19/12 | 04/19/12 |
| SL-012-NBZ-SS-0.0-0.5 | D176-01 | ND | 0.992 | 14.3 | 0.116 | 0.0579 | 05/01/1218:08 | 05/01/1215:50 | M47E002018 | M47E002008 | HGE001S | 04/19/12 | 04/19/12 |
| SL-012-NBZ-SB-0.5-1.5 | D176-03 | ND | 1.00 | 16.4 | 0.120 | 0.0598 | 05/01/1218:10 | 05/01/1215:50 | M47E002019 | M47E002008 | HGE001S | 04/19/12 | 04/19/12 |
| SL-017-NBZ-SS-0.0-0.5 | D176-04 | 0.0803J | 0.990 | 29.7 | 0.141 | 0.0704 | 05/01/1218:17 | 05/01/1215:50 | M47E002022 | M47E002020 | HGE001S | 04/19/12 | 04/19/12 |
| SL-086-NBZ-SS-0.0-0.5 | D176-05 | 0.228 | 0.990 | 22.6 | 0.128 | 0.0640 | 05/01/1218:19 | 05/01/1215:50 | M47E002023 | M47E002020 | HGE001S | 04/19/12 | 04/19/12 |
| SL-087-NBZ-SS-0.0-0.5 | D176-07 | ND | 0.997 | 20.8 | 0.126 | 0.0629 | 05/01/1218:21 | 05/01/1215:50 | M47E002024 | M47E002020 | HGE001S | 04/19/12 | 04/19/12 |
| SL-150-NBZ-SS-0.0-0.5 | D176-08 | ND | 0.997 | 11.2 | 0.112 | 0.0561 | 05/01/1218:24 | 05/01/1215:50 | M47E002025 | M47E002020 | HGE001S | 04/19/12 | 04/19/12 |
| SL-178-NBZ-SS-0.0-0.5 | D176-09 | ND | 0.993 | 10.7 | 0.111 | 0.0556 | 05/01/1218:26 | 05/01/1215:50 | M47E002026 | M47E002020 | HGE001S | 04/19/12 | 04/19/12 |
| SL-179-NBZ-SS-0.0-0.5 | D176-10 | ND | 1.00 | 11.0 | 0.112 | 0.0562 | 05/01/1218:28 | 05/01/1215:50 | M47E002027 | M47E002020 | HGE001S | 04/19/12 | 04/19/12 |
| SL-184-NBZ-SS-0.0-0.5 | D176-11 | ND | 0.993 | 11.9 | 0.113 | 0.0564 | 05/01/1218:30 | 05/01/1215:50 | M47E002028 | M47E002020 | HGE001S | 04/19/12 | 04/19/12 |
| DUP-09-NBZ-QC-041912 | D176-13 | ND | 1.01 | 10.5 | 0.113 | 0.0564 | 05/01/1218:32 | 05/01/1215:50 | M47E002029 | M47E002020 | HGE001S | 04/19/12 | 04/19/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D176
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGE001SB | HGE001SL | HGE001SC | | |
| LAB FILE ID: | M47E002010 | M47E002011 | M47E002012 | | |
| DATIME EXTRCTD: | 05/01/1215:50 | 05/01/1215:50 | 05/01/1215:50 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 05/01/1217:50 | 05/01/1217:53 | 05/01/1217:55 | DATE RECEIVED: | 05/01/12 |
| PREP. BATCH: | HGE001S | HGE001S | HGE001S | | |
| CALIB. REF: | M47E002008 | M47E002008 | M47E002008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .87 | 104 | .833 | .863 | 104 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D176
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 11.0

| | | | | | |
|---|---|---|---|---|---|
| DILTN FACTR: | 1.00 | 0.993 | 1.01 | | |
| SAMPLE ID: | SL-193-NBZ-SS-0.0-0.5 | | | | |
| CONTROL NO.: | D176-12 | D176-12M | D176-12S | | |
| LAB FILE ID: | M47E002014 | M47E002016 | M47E002017 | | |
| DATIME EXTRCTD: | 05/01/1215:50 | 05/01/1215:50 | 05/01/1215:50 | DATE COLLECTED: | 04/19/12 |
| DATIME ANALYZD: | 05/01/1217:59 | 05/01/1218:03 | 05/01/1218:05 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | HGE001S | HGE001S | HGE001S | | |
| CALIB. REF: | M47E002008 | M47E002008 | M47E002008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .929 | .98 | 105 | .945 | .993 | 105 | 0 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D176
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 11.0 |
| DILTN FACTR: | 1.00 | 1.00 | | |
| SAMPLE ID: | SL-193-NBZ-SS-0.0-0.5 | | | |
| CONTROL NO.: | D176-12 | D176-12A | | |
| LAB FILE ID: | M47E002014 | M47E002013 | | |
| DATIME EXTRCTD: | 05/01/1215:50 | 05/01/1215:50 | DATE COLLECTED: | 04/19/12 |
| DATIME ANALYZD: | 05/01/1217:59 | 05/01/1217:57 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | HGE001S | HGE001S | | |
| CALIB. REF: | M47E002008 | M47E002008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .936 | .976 | 104 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 11.0

| | | |
|---|---|---|
| DILUTION FACTOR: | 1.00 | 5.02 |
| SAMPLE ID: | SL-193-NBZ-SS-0.0-0 | SL-193-NBZ-SS-0.0-0 |
| EMAX SAMP ID: | D176-12 | D176-12J |
| LAB FILE ID: | M47E002014 | M47E002015 |
| DATE EXTRACTED: | 05/01/1215:50 | 05/01/1215:50 |
| DATE ANALYZED: | 05/01/1217:59 | 05/01/1218:01 |
| PREP. BATCH: | HGE001S | HGE001S |
| CALIB. REF: | M47E002008 | M47E002008 |

DATE COLLECTED: 04/19/12
DATE RECEIVED: 04/19/12

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D176
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD010SB | ND | 1 | NA | 1.00 | 0.500 | 04/24/1220:12 | 04/23/1211:11 | AD31-39 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCS1S | ICD010SL | 6.34 | 1 | NA | 1.00 | 0.500 | 04/24/1220:28 | 04/23/1211:11 | AD31-40 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCD1S | ICD010SC | 6.31 | 1 | NA | 1.00 | 0.500 | 04/24/1220:44 | 04/23/1211:11 | AD31-41 | AD31-37 | ICD010S | NA | 04/23/12 |
| SL-012-NBZ-SS-0.0-0.5 | D176-01 | ND | 1 | 14.3 | 1.17 | 0.583 | 04/24/1223:58 | 04/23/1211:11 | AD31-53 | AD31-49 | ICD010S | 04/19/1208:46 | 04/19/12 |
| SL-012-NBZ-SB-0.5-1.5 | D176-03 | 1.00J | 1 | 16.4 | 1.20 | 0.598 | 04/25/1200:14 | 04/23/1211:11 | AD31-54 | AD31-49 | ICD010S | 04/19/1209:25 | 04/19/12 |
| SL-017-NBZ-SS-0.0-0.5 | D176-04 | 1.24J | 1 | 29.7 | 1.42 | 0.711 | 04/25/1200:30 | 04/23/1211:11 | AD31-55 | AD31-49 | ICD010S | 04/19/1210:09 | 04/19/12 |
| SL-086-NBZ-SS-0.0-0.5 | D176-05 | 1.03J | 1 | 22.6 | 1.29 | 0.646 | 04/25/1200:46 | 04/23/1211:11 | AD31-56 | AD31-49 | ICD010S | 04/19/1211:40 | 04/19/12 |
| SL-087-NBZ-SS-0.0-0.5 | D176-07 | ND | 1 | 20.8 | 1.26 | 0.631 | 04/25/1201:03 | 04/23/1211:11 | AD31-57 | AD31-49 | ICD010S | 04/19/1210:09 | 04/19/12 |
| SL-150-NBZ-SS-0.0-0.5 | D176-08 | ND | 1 | 11.2 | 1.13 | 0.563 | 04/25/1201:19 | 04/23/1211:11 | AD31-58 | AD31-49 | ICD010S | 04/19/1215:35 | 04/19/12 |
| SL-178-NBZ-SS-0.0-0.5 | D176-09 | ND | 1 | 10.7 | 1.12 | 0.560 | 04/25/1201:35 | 04/23/1211:11 | AD31-59 | AD31-49 | ICD010S | 04/19/1215:00 | 04/19/12 |
| SL-179-NBZ-SS-0.0-0.5 | D176-10 | ND | 1 | 11.0 | 1.12 | 0.562 | 04/25/1201:51 | 04/23/1211:11 | AD31-60 | AD31-49 | ICD010S | 04/19/1211:10 | 04/19/12 |
| SL-184-NBZ-SS-0.0-0.5 | D176-11 | ND | 1 | 11.9 | 1.14 | 0.568 | 04/25/1202:40 | 04/23/1211:11 | AD31-63 | AD31-61 | ICD010S | 04/19/1210:05 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5 | D176-12 | ND | 1 | 11.0 | 1.12 | 0.562 | 04/25/1202:56 | 04/23/1211:11 | AD31-64 | AD31-61 | ICD010S | 04/19/1211:45 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5MS | D176-12M | 7.62 | 1 | 11.0 | 1.12 | 0.562 | 04/25/1203:12 | 04/23/1211:11 | AD31-65 | AD31-61 | ICD010S | 04/19/1211:45 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5MSD | D176-12S | 7.62 | 1 | 11.0 | 1.12 | 0.562 | 04/25/1203:28 | 04/23/1211:11 | AD31-66 | AD31-61 | ICD010S | 04/19/1211:45 | 04/19/12 |
| DUP-09-NBZ-QC-041912 | D176-13 | ND | 1 | 10.5 | 1.12 | 0.559 | 04/25/1203:44 | 04/23/1211:11 | AD31-67 | AD31-61 | ICD010S | 04/19/1211:50 | 04/19/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD010SB | ICD010SL | ICD010SC | | |
| LAB FILE ID: | AD31-39 | AD31-40 | AD31-41 | | |
| DATE EXTRACTED: | 04/23/1211:11 | 04/23/1211:11 | 04/23/1211:11 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/24/1220:12 | 04/24/1220:28 | 04/24/1220:44 | DATE RECEIVED: | 04/23/12 |
| PREP. BATCH: | ICD010S | ICD010S | ICD010S | | |
| CALIB. REF: | AD31-37 | AD31-37 | AD31-37 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 6.34 | 106 | 6.00 | 6.31 | 105 | 1 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: 300.0

MATRIX: SOIL % MOISTURE: 11.0

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-193-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D176-12 | D176-12M | D176-12S | | |
| LAB FILE ID: | AD31-64 | AD31-65 | AD31-66 | | |
| DATE EXTRACTED: | 04/23/1211:11 | 04/23/1211:11 | 04/23/1211:11 | DATE COLLECTED: | 04/19/12 11:45 |
| DATE ANALYZED: | 04/25/1202:56 | 04/25/1203:12 | 04/25/1203:28 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | ICD010S | ICD010S | ICD010S | | |
| CALIB. REF: | AD31-61 | AD31-61 | AD31-61 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.74 | 7.62 | 113 | 6.74 | 7.62 | 113 | 0 | 80-120 | 20 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D176
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD010SB | ND | 1 | NA | 1.50 | 0.750 | 04/24/1220:12 | 04/23/1211:11 | AD31-39 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCS1S | ICD010SL | 13.6 | 1 | NA | 1.50 | 0.750 | 04/24/1220:28 | 04/23/1211:11 | AD31-40 | AD31-37 | ICD010S | NA | 04/23/12 |
| LCD1S | ICD010SC | 13.5 | 1 | NA | 1.50 | 0.750 | 04/24/1220:44 | 04/23/1211:11 | AD31-41 | AD31-37 | ICD010S | NA | 04/23/12 |
| SL-012-NBZ-SS-0.0-0.5 | D176-01 | 12.7 | 1 | 14.3 | 1.75 | 0.875 | 04/24/1223:58 | 04/23/1211:11 | AD31-53 | AD31-49 | ICD010S | 04/19/1208:46 | 04/19/12 |
| SL-012-NBZ-SB-0.5-1.5 | D176-03 | 3.39 | 1 | 16.4 | 1.79 | 0.897 | 04/25/1200:14 | 04/23/1211:11 | AD31-54 | AD31-49 | ICD010S | 04/19/1209:25 | 04/19/12 |
| SL-017-NBZ-SS-0.0-0.5 | D176-04 | 14.3 | 1 | 29.7 | 2.13 | 1.07 | 04/25/1200:30 | 04/23/1211:11 | AD31-55 | AD31-49 | ICD010S | 04/19/1210:09 | 04/19/12 |
| SL-086-NBZ-SS-0.0-0.5 | D176-05 | 9.65 | 1 | 22.6 | 1.94 | 0.969 | 04/25/1200:46 | 04/23/1211:11 | AD31-56 | AD31-49 | ICD010S | 04/19/1211:40 | 04/19/12 |
| SL-087-NBZ-SS-0.0-0.5 | D176-07 | 5.15 | 1 | 20.8 | 1.89 | 0.947 | 04/25/1201:03 | 04/23/1211:11 | AD31-57 | AD31-49 | ICD010S | 04/19/1210:09 | 04/19/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD010SB | ICD010SL | ICD010SC | | |
| LAB FILE ID: | AD31-39 | AD31-40 | AD31-41 | | |
| DATE EXTRACTED: | 04/23/1211:11 | 04/23/1211:11 | 04/23/1211:11 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/24/1220:12 | 04/24/1220:28 | 04/24/1220:44 | DATE RECEIVED: | 04/23/12 |
| PREP. BATCH: | ICD010S | ICD010S | ICD010S | | |
| CALIB. REF: | AD31-37 | AD31-37 | AD31-37 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 13.3 | 13.6 | 102 | 13.3 | 13.5 | 102 | 1 | 90-110 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D176
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD018SB | ND | 1 | NA | 20.0 | 10.0 | 04/23/1221:48 | 04/23/1211:30 | JD23031 | JD23030 | PCD018S | NA | 04/23/12 |
| LCS1S | PCD018SL | 241 | 1 | NA | 20.0 | 10.0 | 04/23/1222:30 | 04/23/1211:30 | JD23033 | JD23030 | PCD018S | NA | 04/23/12 |
| LCD1S | PCD018SC | 243 | 1 | NA | 20.0 | 10.0 | 04/23/1222:51 | 04/23/1211:30 | JD23034 | JD23030 | PCD018S | NA | 04/23/12 |
| SL-012-NBZ-SS-0.0-0.5 | D176-01 | ND | 1 | 14.3 | 23.3 | 11.7 | 04/24/1202:42 | 04/23/1211:30 | JD23045 | JD23041 | PCD018S | 04/19/1208:46 | 04/19/12 |
| SL-012-NBZ-SB-0.5-1.5 | D176-03 | ND | 1 | 16.4 | 23.9 | 12.0 | 04/24/1203:03 | 04/23/1211:30 | JD23046 | JD23041 | PCD018S | 04/19/1209:25 | 04/19/12 |
| SL-017-NBZ-SS-0.0-0.5 | D176-04 | ND | 1 | 29.7 | 28.4 | 14.2 | 04/24/1203:24 | 04/23/1211:30 | JD23047 | JD23041 | PCD018S | 04/19/1210:09 | 04/19/12 |
| SL-086-NBZ-SS-0.0-0.5 | D176-05 | ND | 1 | 22.6 | 25.8 | 12.9 | 04/24/1203:45 | 04/23/1211:30 | JD23048 | JD23041 | PCD018S | 04/19/1211:40 | 04/19/12 |
| SL-087-NBZ-SS-0.0-0.5 | D176-07 | ND | 1 | 20.8 | 25.3 | 12.6 | 04/24/1204:06 | 04/23/1211:30 | JD23049 | JD23041 | PCD018S | 04/19/1210:09 | 04/19/12 |
| SL-150-NBZ-SS-0.0-0.5 | D176-08 | ND | 1 | 11.2 | 22.5 | 11.3 | 04/24/1204:27 | 04/23/1211:30 | JD23050 | JD23041 | PCD018S | 04/19/1215:35 | 04/19/12 |
| SL-178-NBZ-SS-0.0-0.5 | D176-09 | ND | 1 | 10.7 | 22.4 | 11.2 | 04/24/1205:30 | 04/23/1211:30 | JD23053 | JD23052 | PCD018S | 04/19/1215:00 | 04/19/12 |
| SL-179-NBZ-SS-0.0-0.5 | D176-10 | ND | 1 | 11.0 | 22.5 | 11.2 | 04/24/1205:52 | 04/23/1211:30 | JD23054 | JD23052 | PCD018S | 04/19/1211:10 | 04/19/12 |
| SL-184-NBZ-SS-0.0-0.5 | D176-11 | ND | 1 | 11.9 | 22.7 | 11.4 | 04/24/1206:13 | 04/23/1211:30 | JD23055 | JD23052 | PCD018S | 04/19/1210:05 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5 | D176-12 | ND | 1 | 11.0 | 22.5 | 11.2 | 04/24/1206:34 | 04/23/1211:30 | JD23056 | JD23052 | PCD018S | 04/19/1211:45 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5MS | D176-12M | 279 | 1 | 11.0 | 22.5 | 11.2 | 04/24/1206:55 | 04/23/1211:30 | JD23057 | JD23052 | PCD018S | 04/19/1211:45 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5MSD | D176-12S | 278 | 1 | 11.0 | 22.5 | 11.2 | 04/24/1207:16 | 04/23/1211:30 | JD23058 | JD23052 | PCD018S | 04/19/1211:45 | 04/19/12 |
| DUP-09-NBZ-QC-041912 | D176-13 | ND | 1 | 10.5 | 22.3 | 11.2 | 04/24/1207:37 | 04/23/1211:30 | JD23059 | JD23052 | PCD018S | 04/19/1211:50 | 04/19/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD018SB | PCD018SL | PCD018SC | | |
| LAB FILE ID: | JD23031 | JD23033 | JD23034 | | |
| DATE EXTRACTED: | 04/23/1211:30 | 04/23/1211:30 | 04/23/1211:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/23/1221:48 | 04/23/1222:30 | 04/23/1222:51 | DATE RECEIVED: | 04/23/12 |
| PREP. BATCH: | PCD018S | PCD018S | PCD018S | | |
| CALIB. REF: | JD23030 | JD23030 | JD23030 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 241 | 96 | 250 | 243 | 97 | 1 | 85-115 | 15 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 11.0 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-193-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D176-12 | D176-12M | D176-12S | | |
| LAB FILE ID: | JD23056 | JD23057 | JD23058 | | |
| DATE EXTRACTED: | 04/23/1211:30 | 04/23/1211:30 | 04/23/1211:30 | DATE COLLECTED: | 04/19/12 11:45 |
| DATE ANALYZED: | 04/24/1206:34 | 04/24/1206:55 | 04/24/1207:16 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | PCD018S | PCD018S | PCD018S | | |
| CALIB. REF: | JD23052 | JD23052 | JD23052 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 281 | 279 | 99 | 281 | 278 | 99 | 0 | 80-120 | 20 |

METHOD 6850
PERCHLORATE BY LC/MS

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D176
Matrix : SOIL
Instrument ID : G0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PLD005SB | ND | 1 | NA | 5.00 | 2.50 | 04/27/1209:35 | 04/25/1213:30 | ND27004 | ND27003 | PLD005S | NA | 04/25/12 |
| LCS1S | PLD005SL | 25.1 | 1 | NA | 5.00 | 2.50 | 04/27/1209:50 | 04/25/1213:30 | ND27005 | ND27003 | PLD005S | NA | 04/25/12 |
| LCD1S | PLD005SC | 24.4 | 1 | NA | 5.00 | 2.50 | 04/27/1210:04 | 04/25/1213:30 | ND27006 | ND27003 | PLD005S | NA | 04/25/12 |
| SL-012-NBZ-SS-0.0-0.5 | D176-01 | ND | 1 | 14.3 | 5.83 | 2.92 | 04/27/1210:21 | 04/25/1213:30 | ND27007 | ND27003 | PLD005S | 04/19/1208:46 | 04/19/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: METHOD 6850

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PLD005SB | PLD005SL | PLD005SC | | |
| LAB FILE ID: | ND27004 | ND27005 | ND27006 | | |
| DATE EXTRACTED: | 04/25/1213:30 | 04/25/1213:30 | 04/25/1213:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/27/1209:35 | 04/27/1209:50 | 04/27/1210:04 | DATE RECEIVED: | 04/25/12 |
| PREP. BATCH: | PLD005S | PLD005S | PLD005S | | |
| CALIB. REF: | ND27003 | ND27003 | ND27003 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 25.0 | 25.1 | 100 | 25.0 | 24.4 | 98 | 3 | 85-115 | 15 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D176

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD013SB | ND | 1 | NA | 1.00 | 0.500 | 04/26/1221:13 | 04/25/1214:21 | ID27013 | ID27011 | HCD013S | NA | 04/25/12 |
| MBLK1S | HCD013SQ | ND | 1 | NA | 1.00 | 0.500 | 04/26/1221:23 | 04/25/1214:21 | ID27014 | ID27011 | HCD013S | NA | 04/25/12 |
| LCS1S | CSD013SL | 8.83 | 1 | NA | 1.00 | 0.500 | 04/26/1221:34 | 04/25/1214:21 | ID27015 | ID27011 | HCD013S | NA | 04/25/12 |
| LCS1S | CSD013SX | 9.01 | 1 | NA | 1.00 | 0.500 | 04/26/1221:44 | 04/25/1214:21 | ID27016 | ID27011 | HCD013S | NA | 04/25/12 |
| LCS2S | CID013SL | 407 | 20 | NA | 20.0 | 10.0 | 04/26/1221:55 | 04/25/1214:21 | ID27017 | ID27011 | HCD013S | NA | 04/25/12 |
| LCS2S | CID013SX | 389 | 20 | NA | 20.0 | 10.0 | 04/26/1222:05 | 04/25/1214:21 | ID27018 | ID27011 | HCD013S | NA | 04/25/12 |
| SL-193-NBZ-SS-0.0-0.5MS | D176-12M | 10.4 | 1 | 11.0 | 1.12 | 0.562 | 04/26/1222:15 | 04/25/1214:21 | ID27019 | ID27011 | HCD013S | 04/19/1211:45 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5MS | D176-12M1 | 10.1 | 1 | 11.0 | 1.12 | 0.562 | 04/26/1222:26 | 04/25/1214:21 | ID27020 | ID27011 | HCD013S | 04/19/1211:45 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5MSD | D176-12S | 10.4 | 1 | 11.0 | 1.12 | 0.562 | 04/26/1222:36 | 04/25/1214:21 | ID27021 | ID27011 | HCD013S | 04/19/1211:45 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5MSD | D176-12S1 | 9.10 | 1 | 11.0 | 1.12 | 0.562 | 04/26/1222:47 | 04/25/1214:21 | ID27022 | ID27011 | HCD013S | 04/19/1211:45 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5MS | D176-12G | 202 | 20 | 11.0 | 22.5 | 11.2 | 04/26/1223:28 | 04/25/1214:21 | ID27025 | ID27023 | HCD013S | 04/19/1211:45 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5MS | D176-12G1 | 213 | 20 | 11.0 | 22.5 | 11.2 | 04/26/1223:39 | 04/25/1214:21 | ID27026 | ID27023 | HCD013S | 04/19/1211:45 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5MSD | D176-12H | 212 | 20 | 11.0 | 22.5 | 11.2 | 04/26/1223:49 | 04/25/1214:21 | ID27027 | ID27023 | HCD013S | 04/19/1211:45 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5MSD | D176-12H1 | 206 | 20 | 11.0 | 22.5 | 11.2 | 04/26/1223:59 | 04/25/1214:21 | ID27028 | ID27023 | HCD013S | 04/19/1211:45 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5 | D176-12 | ND | 1 | 11.0 | 1.12 | 0.562 | 04/27/1200:10 | 04/25/1214:21 | ID27029 | ID27023 | HCD013S | 04/19/1211:45 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5 | D176-12R | ND | 1 | 11.0 | 1.12 | 0.562 | 04/27/1200:20 | 04/25/1214:21 | ID27030 | ID27023 | HCD013S | 04/19/1211:45 | 04/19/12 |
| SL-012-NBZ-SS-0.0-0.5 | D176-01 | ND | 1 | 14.3 | 1.17 | 0.583 | 04/27/1200:31 | 04/25/1214:21 | ID27031 | ID27023 | HCD013S | 04/19/1208:46 | 04/19/12 |
| SL-012-NBZ-SS-0.0-0.5 | D176-01R | ND | 1 | 14.3 | 1.17 | 0.583 | 04/27/1200:41 | 04/25/1214:21 | ID27032 | ID27023 | HCD013S | 04/19/1208:46 | 04/19/12 |
| SL-012-NBZ-SB-0.5-1.5 | D176-03 | ND | 1 | 16.4 | 1.20 | 0.598 | 04/27/1200:51 | 04/25/1214:21 | ID27033 | ID27023 | HCD013S | 04/19/1209:25 | 04/19/12 |
| SL-012-NBZ-SB-0.5-1.5 | D176-03R | ND | 1 | 16.4 | 1.20 | 0.598 | 04/27/1201:02 | 04/25/1214:21 | ID27034 | ID27023 | HCD013S | 04/19/1209:25 | 04/19/12 |
| SL-017-NBZ-SS-0.0-0.5 | D176-04 | ND | 1 | 29.7 | 1.42 | 0.711 | 04/27/1216:32 | 04/25/1214:21 | ID27085 | ID27083 | HCD013S | 04/19/1210:09 | 04/19/12 |
| SL-017-NBZ-SS-0.0-0.5 | D176-04R | ND | 1 | 29.7 | 1.42 | 0.711 | 04/27/1216:42 | 04/25/1214:21 | ID27086 | ID27083 | HCD013S | 04/19/1210:09 | 04/19/12 |
| SL-086-NBZ-SS-0.0-0.5 | D176-05 | ND | 1 | 22.6 | 1.29 | 0.646 | 04/27/1216:53 | 04/25/1214:21 | ID27087 | ID27083 | HCD013S | 04/19/1211:40 | 04/19/12 |
| SL-086-NBZ-SS-0.0-0.5 | D176-05R | ND | 1 | 22.6 | 1.29 | 0.646 | 04/27/1217:03 | 04/25/1214:21 | ID27088 | ID27083 | HCD013S | 04/19/1211:40 | 04/19/12 |
| SL-087-NBZ-SS-0.0-0.5 | D176-07 | ND | 1 | 20.8 | 1.26 | 0.631 | 04/27/1217:14 | 04/25/1214:21 | ID27089 | ID27083 | HCD013S | 04/19/1210:09 | 04/19/12 |
| SL-087-NBZ-SS-0.0-0.5 | D176-07R | ND | 1 | 20.8 | 1.26 | 0.631 | 04/27/1217:24 | 04/25/1214:21 | ID27090 | ID27083 | HCD013S | 04/19/1210:09 | 04/19/12 |
| SL-150-NBZ-SS-0.0-0.5 | D176-08 | ND | 1 | 11.2 | 1.13 | 0.563 | 04/27/1217:34 | 04/25/1214:21 | ID27091 | ID27083 | HCD013S | 04/19/1215:35 | 04/19/12 |
| SL-150-NBZ-SS-0.0-0.5 | D176-08R | ND | 1 | 11.2 | 1.13 | 0.563 | 04/27/1217:45 | 04/25/1214:21 | ID27092 | ID27083 | HCD013S | 04/19/1215:35 | 04/19/12 |
| SL-178-NBZ-SS-0.0-0.5 | D176-09 | ND | 1 | 10.7 | 1.12 | 0.560 | 04/27/1217:55 | 04/25/1214:21 | ID27093 | ID27083 | HCD013S | 04/19/1215:00 | 04/19/12 |
| SL-178-NBZ-SS-0.0-0.5 | D176-09R | ND | 1 | 10.7 | 1.12 | 0.560 | 04/27/1218:06 | 04/25/1214:21 | ID27094 | ID27083 | HCD013S | 04/19/1215:00 | 04/19/12 |
| SL-179-NBZ-SS-0.0-0.5 | D176-10 | ND | 1 | 11.0 | 1.12 | 0.562 | 04/27/1218:47 | 04/25/1214:21 | ID27097 | ID27095 | HCD013S | 04/19/1211:10 | 04/19/12 |
| SL-179-NBZ-SS-0.0-0.5 | D176-10R | ND | 1 | 11.0 | 1.12 | 0.562 | 04/27/1218:58 | 04/25/1214:21 | ID27098 | ID27095 | HCD013S | 04/19/1211:10 | 04/19/12 |
| SL-184-NBZ-SS-0.0-0.5 | D176-11 | ND | 1 | 11.9 | 1.14 | 0.568 | 04/27/1219:08 | 04/25/1214:21 | ID27099 | ID27095 | HCD013S | 04/19/1210:05 | 04/19/12 |
| SL-184-NBZ-SS-0.0-0.5 | D176-11R | ND | 1 | 11.9 | 1.14 | 0.568 | 04/27/1219:18 | 04/25/1214:21 | ID27100 | ID27095 | HCD013S | 04/19/1210:05 | 04/19/12 |
| DUP-09-NBZ-QC-041912 | D176-13 | ND | 1 | 10.5 | 1.12 | 0.559 | 04/27/1219:29 | 04/25/1214:21 | ID27101 | ID27095 | HCD013S | 04/19/1211:50 | 04/19/12 |
| DUP-09-NBZ-QC-041912 | D176-13R | ND | 1 | 10.5 | 1.12 | 0.559 | 04/27/1219:39 | 04/25/1214:21 | ID27102 | ID27095 | HCD013S | 04/19/1211:50 | 04/19/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD013SB | CSD013SL | | |
| LAB FILE ID: | ID27013 | ID27015 | | |
| DATE EXTRACTED: | 04/25/1214:21 | 04/25/1214:21 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/26/1221:13 | 04/26/1221:34 | DATE RECEIVED: | 04/25/12 |
| PREP. BATCH: | HCD013S | HCD013S | | |
| CALIB. REF: | ID27011 | ID27011 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 8.83 | 88 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD013SQ | CSD013SX | | |
| LAB FILE ID: | ID27014 | ID27016 | | |
| DATE EXTRACTED: | 04/25/1214:21 | 04/25/1214:21 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/26/1221:23 | 04/26/1221:44 | DATE RECEIVED: | 04/25/12 |
| PREP. BATCH: | HCD013S | HCD013S | | |
| CALIB. REF: | ID27011 | ID27011 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 9.01 | 90 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD013SB CID013SL
LAB FILE ID: ID27013 ID27017
DATE EXTRACTED: 04/25/1214:21 04/25/1214:21 DATE COLLECTED: NA
DATE ANALYZED: 04/26/1221:13 04/26/1221:55 DATE RECEIVED: 04/25/12
PREP. BATCH: HCD013S HCD013S
CALIB. REF: ID27011 ID27011

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 480 | 407 | 85 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 20 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD013SQ | CID013SX | | |
| LAB FILE ID: | ID27014 | ID27018 | | |
| DATE EXTRACTED: | 04/25/1214:21 | 04/25/1214:21 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/26/1221:23 | 04/26/1222:05 | DATE RECEIVED: | 04/25/12 |
| PREP. BATCH: | HCD013S | HCD013S | | |
| CALIB. REF: | ID27011 | ID27011 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 480 | 389 | 81 | 80-120 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: 7199

MATRIX: SOIL % MOISTURE: 11.0
DILUTION FACTOR: 1 1 1
SAMPLE ID: SL-193-NBZ-SS-0.0-0.5
LAB SAMP ID: D176-12 D176-12M D176-12S
LAB FILE ID: ID27029 ID27019 ID27021
DATE EXTRACTED: 04/25/1214:21 04/25/1214:21 04/25/1214:21 DATE COLLECTED: 04/19/12 11:45
DATE ANALYZED: 04/27/1200:10 04/26/1222:15 04/26/1222:36 DATE RECEIVED: 04/19/12
PREP. BATCH: HCD013S HCD013S HCD013S
CALIB. REF: ID27023 ID27011 ID27011

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 11.2 | 10.4 | 92 | 11.2 | 10.4 | 92 | 0 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: 7199

MATRIX: SOIL % MOISTURE: 11.0

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-193-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D176-12R | D176-12M1 | D176-12S1 | | |
| LAB FILE ID: | ID27030 | ID27020 | ID27022 | | |
| DATE EXTRACTED: | 04/25/1214:21 | 04/25/1214:21 | 04/25/1214:21 | DATE COLLECTED: | 04/19/12 11:45 |
| DATE ANALYZED: | 04/27/1200:20 | 04/26/1222:26 | 04/26/1222:47 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | HCD013S | HCD013S | HCD013S | | |
| CALIB. REF: | ID27023 | ID27011 | ID27011 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 11.2 | 10.1 | 90 | 11.2 | 9.10 | 81 | 11 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: 7199

MATRIX: SOIL % MOISTURE: 11.0

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 20 | 20 | | |
| SAMPLE ID: | SL-193-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D176-12 | D176-12G | D176-12H | | |
| LAB FILE ID: | ID27029 | ID27025 | ID27027 | | |
| DATE EXTRACTED: | 04/25/1214:21 | 04/25/1214:21 | 04/25/1214:21 | DATE COLLECTED: | 04/19/12 11:45 |
| DATE ANALYZED: | 04/27/1200:10 | 04/26/1223:28 | 04/26/1223:49 | DATE RECEIVED: | 04/19/12 |
| PREP. BATCH: | HCD013S | HCD013S | HCD013S | | |
| CALIB. REF: | ID27023 | ID27023 | ID27023 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 237 | 202 | 85 | 254 | 212 | 83 | 5 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D176
METHOD: 7199

MATRIX: SOIL % MOISTURE: 11.0
DILUTION FACTOR: 1 20 20
SAMPLE ID: SL-193-NBZ-SS-0.0-0.5
LAB SAMP ID: D176-12R D176-12G1 D176-12H1
LAB FILE ID: ID27030 ID27026 ID27028
DATE EXTRACTED: 04/25/1214:21 04/25/1214:21 04/25/1214:21 DATE COLLECTED: 04/19/12 11:45
DATE ANALYZED: 04/27/1200:20 04/26/1223:39 04/26/1223:59 DATE RECEIVED: 04/19/12
PREP. BATCH: HCD013S HCD013S HCD013S
CALIB. REF: ID27023 ID27023 ID27023

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 237 | 213 | 90 | 254 | 206 | 81 | 4 | 75-125 | 20 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D176
Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CND011SB | ND | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01110 | CND01108 | CND011S | NA | 04/26/12 |
| LCS1S | CND011SL | 2.32 | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01111 | CND01108 | CND011S | NA | 04/26/12 |
| LCD1S | CND011SC | 2.34 | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01112 | CND01108 | CND011S | NA | 04/26/12 |
| SL-012-NBZ-SS-0.0-0.5 | D176-01 | ND | 1 | 14.3 | 0.583 | 0.292 | 04/26/1218:55 | 04/26/1211:30 | CND01129 | CND01120 | CND011S | 04/19/1208:46 | 04/19/12 |
| SL-012-NBZ-SB-0.5-1.5 | D176-03 | ND | 1 | 16.4 | 0.598 | 0.299 | 04/26/1218:55 | 04/26/1211:30 | CND01130 | CND01120 | CND011S | 04/19/1209:25 | 04/19/12 |
| SL-017-NBZ-SS-0.0-0.5 | D176-04 | 0.711 | 1 | 29.7 | 0.711 | 0.356 | 04/26/1218:55 | 04/26/1211:30 | CND01131 | CND01120 | CND011S | 04/19/1210:09 | 04/19/12 |
| SL-086-NBZ-SS-0.0-0.5 | D176-05 | 0.327J | 1 | 22.6 | 0.646 | 0.323 | 04/26/1218:56 | 04/26/1211:30 | CND01134 | CND01132 | CND011S | 04/19/1211:40 | 04/19/12 |
| SL-087-NBZ-SS-0.0-0.5 | D176-07 | ND | 1 | 20.8 | 0.631 | 0.316 | 04/26/1218:56 | 04/26/1211:30 | CND01135 | CND01132 | CND011S | 04/19/1210:09 | 04/19/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D176
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CND011SL/C

DATE RECEIVED: 04/26/12
DATE EXTRACTED: 04/26/1211:30
DATE ANALYZED: 04/26/1218:49/18:49

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.32 | 93 | 2.50 | 2.34 | 94 | 1 | 85-125 | 20 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D176
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-012-NBZ-SS-0.0-0.5 | D176-01 | 6.64 | 1 | NA | NA | NA | 04/20/1217:31 | 04/20/1217:14 | 12PHD023S09 | PHD023S | PHD023S | 04/19/1208:46 | 04/19/12 |
| SL-012-NBZ-SB-0.5-1.5 | D176-03 | 6.29 | 1 | NA | NA | NA | 04/20/1217:33 | 04/20/1217:14 | 12PHD023S10 | PHD023S | PHD023S | 04/19/1209:25 | 04/19/12 |
| SL-017-NBZ-SS-0.0-0.5 | D176-04 | 7.36 | 1 | NA | NA | NA | 04/20/1217:35 | 04/20/1217:14 | 12PHD023S11 | PHD023S | PHD023S | 04/19/1210:09 | 04/19/12 |
| SL-086-NBZ-SS-0.0-0.5 | D176-05 | 6.67 | 1 | NA | NA | NA | 04/20/1217:37 | 04/20/1217:14 | 12PHD023S12 | PHD023S | PHD023S | 04/19/1211:40 | 04/19/12 |
| SL-087-NBZ-SS-0.0-0.5 | D176-07 | 7.24 | 1 | NA | NA | NA | 04/20/1217:39 | 04/20/1217:14 | 12PHD023S13 | PHD023S | PHD023S | 04/19/1210:09 | 04/19/12 |
| SL-150-NBZ-SS-0.0-0.5 | D176-08 | 5.87 | 1 | NA | NA | NA | 04/20/1217:40 | 04/20/1217:14 | 12PHD023S14 | PHD023S | PHD023S | 04/19/1215:35 | 04/19/12 |
| SL-178-NBZ-SS-0.0-0.5 | D176-09 | 5.10 | 1 | NA | NA | NA | 04/20/1217:42 | 04/20/1217:14 | 12PHD023S15 | PHD023S | PHD023S | 04/19/1215:00 | 04/19/12 |
| SL-179-NBZ-SS-0.0-0.5 | D176-10 | 7.00 | 1 | NA | NA | NA | 04/20/1217:44 | 04/20/1217:14 | 12PHD023S16 | PHD023S | PHD023S | 04/19/1211:10 | 04/19/12 |
| SL-184-NBZ-SS-0.0-0.5 | D176-11 | 6.60 | 1 | NA | NA | NA | 04/20/1217:46 | 04/20/1217:14 | 12PHD023S17 | PHD023S | PHD023S | 04/19/1210:05 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5 | D176-12 | 6.24 | 1 | NA | NA | NA | 04/20/1217:47 | 04/20/1217:14 | 12PHD023S18 | PHD023S | PHD023S | 04/19/1211:45 | 04/19/12 |
| SL-193-NBZ-SS-0.0-0.5DUP | D176-12D | 6.26 | 1 | NA | NA | NA | 04/20/1217:48 | 04/20/1217:14 | 12PHD023S19 | PHD023S | PHD023S | 04/19/1211:45 | 04/19/12 |
| DUP-09-NBZ-QC-041912 | D176-13 | 6.42 | 1 | NA | NA | NA | 04/20/1217:49 | 04/20/1217:14 | 12PHD023S20 | PHD023S | PHD023S | 04/19/1211:50 | 04/19/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D176 DATE RECEIVED: 04/19/12
SAMPLE ID: SL-193-NBZ-SS-0.0-0.5DUP DATE EXTRACTED: 04/20/1217:14
CONTROL NO.: D176-12D DATE ANALYZED: 04/20/1217:48

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 6.24 | 6.26 | -0.02 | 0.10 |

# SAMPLE DELIVERY GROUP

# 12D192

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-016-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 23:27 |
| Lab Samp ID: D192-01 | Dilution Factor: 1 |
| Lab File ID: REJ031 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 20.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 210 | 110 |
| 1,2-DICHLOROBENZENE | ND | 210 | 110 |
| 1,3-DICHLOROBENZENE | ND | 210 | 110 |
| 1,4-DICHLOROBENZENE | ND | 210 | 110 |
| 2,4,5-TRICHLOROPHENOL | ND | 210 | 110 |
| 2,4,6-TRICHLOROPHENOL | ND | 210 | 110 |
| 2,4-DICHLOROPHENOL | ND | 210 | 110 |
| 2,4-DIMETHYLPHENOL | ND | 210 | 110 |
| 2,4-DINITROPHENOL | ND | 420 | 210 |
| 2,4-DINITROTOLUENE | ND | 210 | 110 |
| 2,6-DINITROTOLUENE | ND | 210 | 110 |
| 2-CHLORONAPHTHALENE | ND | 210 | 110 |
| 2-CHLOROPHENOL | ND | 210 | 110 |
| 2-METHYLNAPHTHALENE | ND | 210 | 110 |
| 2-METHYLPHENOL | ND | 210 | 110 |
| 2-NITROANILINE | ND | 210 | 110 |
| 2-NITROPHENOL | ND | 210 | 110 |
| 3,3'-DICHLOROBENZIDINE | ND | 210 | 110 |
| 3-NITROANILINE | ND | 210 | 110 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 420 | 210 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 210 | 110 |
| 4-CHLORO-3-METHYLPHENOL | ND | 210 | 110 |
| 4-CHLOROANILINE | ND | 210 | 110 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 210 | 110 |
| 4-METHYLPHENOL (1) | ND | 210 | 110 |
| 4-NITROANILINE | ND | 210 | 110 |
| 4-NITROPHENOL | ND | 420 | 210 |
| ACENAPHTHENE | ND | 210 | 110 |
| ACENAPHTHYLENE | ND | 210 | 110 |
| ANTHRACENE | ND | 210 | 110 |
| BENZO(A)ANTHRACENE | ND | 210 | 110 |
| BENZO(A)PYRENE | ND | 210 | 110 |
| BENZO(B)FLUORANTHENE | ND | 210 | 110 |
| BENZO(K)FLUORANTHENE | ND | 210 | 110 |
| BENZO(G,H,I)PERYLENE | ND | 210 | 110 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 210 | 110 |
| BIS(2-CHLOROETHYL)ETHER | ND | 210 | 110 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 210 | 110 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 210 | 110 |
| BUTYLBENZYLPHTHALATE | ND | 210 | 110 |
| CHRYSENE | ND | 210 | 110 |
| DI-N-BUTYLPHTHALATE | ND | 210 | 110 |
| DI-N-OCTYLPHTHALATE | ND | 210 | 110 |
| DIBENZO(A,H)ANTHRACENE | ND | 210 | 110 |
| DIBENZOFURAN | ND | 210 | 110 |
| DIETHYLPHTHALATE | ND | 210 | 110 |
| DIMETHYLPHTHALATE | ND | 210 | 110 |
| FLUORANTHENE | ND | 210 | 110 |
| FLUORENE | ND | 210 | 110 |
| HEXACHLOROBENZENE | ND | 210 | 110 |
| HEXACHLOROBUTADIENE | ND | 210 | 110 |
| HEXACHLOROCYCLOPENTADIENE | ND | 210 | 110 |
| HEXACHLOROETHANE | ND | 210 | 110 |
| INDENO(1,2,3-CD)PYRENE | ND | 210 | 110 |
| ISOPHORONE | ND | 210 | 110 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 210 | 110 |
| N-NITROSODIPHENYLAMINE (2) | ND | 210 | 110 |
| NAPHTHALENE | ND | 210 | 110 |
| NITROBENZENE | ND | 210 | 110 |
| PENTACHLOROPHENOL | ND | 420 | 210 |
| PHENANTHRENE | ND | 210 | 110 |
| PHENOL | ND | 210 | 110 |
| PYRENE | ND | 210 | 110 |
| BENZYL ALCOHOL | ND | 210 | 110 |
| 1-METHYLNAPHTHALENE | ND | 210 | 110 |
| 1,2-DIPHENYLHYDRAZINE | ND | 210 | 110 |
| 3,5-DIMETHYLPHENOL | ND | 210 | 110 |
| ANILINE | ND | 420 | 210 |
| BENZIDINE | ND | 1000 | 530 |
| BENZOIC ACID | ND | 840 | 420 |
| CARBAZOLE | ND | 210 | 110 |
| N-NITROSODIMETHYLAMINE | ND | 210 | 110 |
| TETRALIN | ND | 210 | 210 |
| 2-BUTOXYETHANOL | ND | 210 | 210 |
| 2-PHENOXYETHANOL | ND | 210 | 210 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1010 | 1261 | 80.5 | 35-130 |
| 2-FLUOROBIPHENYL | 220 | 420.3 | 52.2 | 45-130 |
| 2-FLUOROPHENOL | 641 | 1261 | 50.8 | 25-130 |
| NITROBENZENE-D5 | 244 | 420.3 | 58.0 | 40-130 |
| PHENOL-D5 | 722 | 1261 | 57.3 | 25-120 |
| TERPHENYL-D14 | 308 | 420.3 | 73.3 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-018-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 23:46 |
| Lab Samp ID: D192-02 | Dilution Factor: 1 |
| Lab File ID: REJ032 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 17.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 100 |
| 1,2-DICHLOROBENZENE | ND | 200 | 100 |
| 1,3-DICHLOROBENZENE | ND | 200 | 100 |
| 1,4-DICHLOROBENZENE | ND | 200 | 100 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DICHLOROPHENOL | ND | 200 | 100 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 100 |
| 2,4-DINITROPHENOL | ND | 400 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 100 |
| 2,6-DINITROTOLUENE | ND | 200 | 100 |
| 2-CHLORONAPHTHALENE | ND | 200 | 100 |
| 2-CHLOROPHENOL | ND | 200 | 100 |
| 2-METHYLNAPHTHALENE | ND | 200 | 100 |
| 2-METHYLPHENOL | ND | 200 | 100 |
| 2-NITROANILINE | ND | 200 | 100 |
| 2-NITROPHENOL | ND | 200 | 100 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 100 |
| 3-NITROANILINE | ND | 200 | 100 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 400 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 100 |
| 4-CHLOROANILINE | ND | 200 | 100 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 100 |
| 4-METHYLPHENOL (1) | ND | 200 | 100 |
| 4-NITROANILINE | ND | 200 | 100 |
| 4-NITROPHENOL | ND | 400 | 200 |
| ACENAPHTHENE | ND | 200 | 100 |
| ACENAPHTHYLENE | ND | 200 | 100 |
| ANTHRACENE | ND | 200 | 100 |
| BENZO(A)ANTHRACENE | ND | 200 | 100 |
| BENZO(A)PYRENE | ND | 200 | 100 |
| BENZO(B)FLUORANTHENE | ND | 200 | 100 |
| BENZO(K)FLUORANTHENE | ND | 200 | 100 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 100 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 100 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 100 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 100 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 100 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 100 |
| CHRYSENE | ND | 200 | 100 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 100 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 100 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 100 |
| DIBENZOFURAN | ND | 200 | 100 |
| DIETHYLPHTHALATE | ND | 200 | 100 |
| DIMETHYLPHTHALATE | ND | 200 | 100 |
| FLUORANTHENE | ND | 200 | 100 |
| FLUORENE | ND | 200 | 100 |
| HEXACHLOROBENZENE | ND | 200 | 100 |
| HEXACHLOROBUTADIENE | ND | 200 | 100 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 100 |
| HEXACHLOROETHANE | ND | 200 | 100 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 100 |
| ISOPHORONE | ND | 200 | 100 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 100 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 100 |
| NAPHTHALENE | ND | 200 | 100 |
| NITROBENZENE | ND | 200 | 100 |
| PENTACHLOROPHENOL | ND | 400 | 200 |
| PHENANTHRENE | ND | 200 | 100 |
| PHENOL | ND | 200 | 100 |
| PYRENE | ND | 200 | 100 |
| BENZYL ALCOHOL | ND | 200 | 100 |
| 1-METHYLNAPHTHALENE | ND | 200 | 100 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 100 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 100 |
| ANILINE | ND | 400 | 200 |
| BENZIDINE | ND | 1000 | 510 |
| BENZOIC ACID | ND | 810 | 410 |
| CARBAZOLE | ND | 200 | 100 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 100 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 1040 | 1214 | 85.3 | 35-130 |
| 2-FLUOROBIPHENYL | 256 | 404.5 | 63.2 | 45-130 |
| 2-FLUOROPHENOL | 711 | 1214 | 58.6 | 25-130 |
| NITROBENZENE-D5 | 264 | 404.5 | 65.2 | 40-130 |
| PHENOL-D5 | 763 | 1214 | 62.9 | 25-120 |
| TERPHENYL-D14 | 327 | 404.5 | 80.9 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-080-NBZ-SS-0.0-0.5 | Date Analyzed: 05/03/12 00:05 |
| Lab Samp ID: D192-03 | Dilution Factor: 1 |
| Lab File ID: REJ033 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 14.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 98 |
| 1,2-DICHLOROBENZENE | ND | 190 | 98 |
| 1,3-DICHLOROBENZENE | ND | 190 | 98 |
| 1,4-DICHLOROBENZENE | ND | 190 | 98 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 98 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 98 |
| 2,4-DICHLOROPHENOL | ND | 190 | 98 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 98 |
| 2,4-DINITROPHENOL | ND | 390 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 98 |
| 2,6-DINITROTOLUENE | ND | 190 | 98 |
| 2-CHLORONAPHTHALENE | ND | 190 | 98 |
| 2-CHLOROPHENOL | ND | 190 | 98 |
| 2-METHYLNAPHTHALENE | ND | 190 | 98 |
| 2-METHYLPHENOL | ND | 190 | 98 |
| 2-NITROANILINE | ND | 190 | 98 |
| 2-NITROPHENOL | ND | 190 | 98 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 98 |
| 3-NITROANILINE | ND | 190 | 98 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 98 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 98 |
| 4-CHLOROANILINE | ND | 190 | 98 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 98 |
| 4-METHYLPHENOL (1) | ND | 190 | 98 |
| 4-NITROANILINE | ND | 190 | 98 |
| 4-NITROPHENOL | ND | 390 | 190 |
| ACENAPHTHENE | ND | 190 | 98 |
| ACENAPHTHYLENE | ND | 190 | 98 |
| ANTHRACENE | ND | 190 | 98 |
| BENZO(A)ANTHRACENE | ND | 190 | 98 |
| BENZO(A)PYRENE | ND | 190 | 98 |
| BENZO(B)FLUORANTHENE | ND | 190 | 98 |
| BENZO(K)FLUORANTHENE | ND | 190 | 98 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 98 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 98 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 98 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 98 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 98 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 98 |
| CHRYSENE | ND | 190 | 98 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 98 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 98 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 98 |
| DIBENZOFURAN | ND | 190 | 98 |
| DIETHYLPHTHALATE | ND | 190 | 98 |
| DIMETHYLPHTHALATE | ND | 190 | 98 |
| FLUORANTHENE | ND | 190 | 98 |
| FLUORENE | ND | 190 | 98 |
| HEXACHLOROBENZENE | ND | 190 | 98 |
| HEXACHLOROBUTADIENE | ND | 190 | 98 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 98 |
| HEXACHLOROETHANE | ND | 190 | 98 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 98 |
| ISOPHORONE | ND | 190 | 98 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 98 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 98 |
| NAPHTHALENE | ND | 190 | 98 |
| NITROBENZENE | ND | 190 | 98 |
| PENTACHLOROPHENOL | ND | 390 | 190 |
| PHENANTHRENE | ND | 190 | 98 |
| PHENOL | ND | 190 | 98 |
| PYRENE | ND | 190 | 98 |
| BENZYL ALCOHOL | ND | 190 | 98 |
| 1-METHYLNAPHTHALENE | ND | 190 | 98 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 98 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 98 |
| ANILINE | ND | 390 | 190 |
| BENZIDINE | ND | 970 | 490 |
| BENZOIC ACID | ND | 780 | 390 |
| CARBAZOLE | ND | 190 | 98 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 98 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 995 | 1163 | 85.6 | 35-130 |
| 2-FLUOROBIPHENYL | 255 | 387.6 | 65.8 | 45-130 |
| 2-FLUOROPHENOL | 617 | 1163 | 53.0 | 25-130 |
| NITROBENZENE-D5 | 241 | 387.6 | 62.1 | 40-130 |
| PHENOL-D5 | 686 | 1163 | 59.0 | 25-120 |
| TERPHENYL-D14 | 314 | 387.6 | 81.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-089-NBZ-SS-0.0-0.5 | Date Analyzed: 05/03/12 00:23 |
| Lab Samp ID: D192-04 | Dilution Factor: 1 |
| Lab File ID: REJ034 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 11.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 190 | 95 |
| 1,2-DICHLOROBENZENE | ND | 190 | 95 |
| 1,3-DICHLOROBENZENE | ND | 190 | 95 |
| 1,4-DICHLOROBENZENE | ND | 190 | 95 |
| 2,4,5-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4,6-TRICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DICHLOROPHENOL | ND | 190 | 95 |
| 2,4-DIMETHYLPHENOL | ND | 190 | 95 |
| 2,4-DINITROPHENOL | ND | 380 | 190 |
| 2,4-DINITROTOLUENE | ND | 190 | 95 |
| 2,6-DINITROTOLUENE | ND | 190 | 95 |
| 2-CHLORONAPHTHALENE | ND | 190 | 95 |
| 2-CHLOROPHENOL | ND | 190 | 95 |
| 2-METHYLNAPHTHALENE | ND | 190 | 95 |
| 2-METHYLPHENOL | ND | 190 | 95 |
| 2-NITROANILINE | ND | 190 | 95 |
| 2-NITROPHENOL | ND | 190 | 95 |
| 3,3'-DICHLOROBENZIDINE | ND | 190 | 95 |
| 3-NITROANILINE | ND | 190 | 95 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 380 | 190 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-CHLORO-3-METHYLPHENOL | ND | 190 | 95 |
| 4-CHLOROANILINE | ND | 190 | 95 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 190 | 95 |
| 4-METHYLPHENOL (1) | ND | 190 | 95 |
| 4-NITROANILINE | ND | 190 | 95 |
| 4-NITROPHENOL | ND | 380 | 190 |
| ACENAPHTHENE | ND | 190 | 95 |
| ACENAPHTHYLENE | ND | 190 | 95 |
| ANTHRACENE | ND | 190 | 95 |
| BENZO(A)ANTHRACENE | ND | 190 | 95 |
| BENZO(A)PYRENE | ND | 190 | 95 |
| BENZO(B)FLUORANTHENE | ND | 190 | 95 |
| BENZO(K)FLUORANTHENE | ND | 190 | 95 |
| BENZO(G,H,I)PERYLENE | ND | 190 | 95 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 190 | 95 |
| BIS(2-CHLOROETHYL)ETHER | ND | 190 | 95 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 190 | 95 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 190 | 95 |
| BUTYLBENZYLPHTHALATE | ND | 190 | 95 |
| CHRYSENE | ND | 190 | 95 |
| DI-N-BUTYLPHTHALATE | ND | 190 | 95 |
| DI-N-OCTYLPHTHALATE | ND | 190 | 95 |
| DIBENZO(A,H)ANTHRACENE | ND | 190 | 95 |
| DIBENZOFURAN | ND | 190 | 95 |
| DIETHYLPHTHALATE | ND | 190 | 95 |
| DIMETHYLPHTHALATE | ND | 190 | 95 |
| FLUORANTHENE | ND | 190 | 95 |
| FLUORENE | ND | 190 | 95 |
| HEXACHLOROBENZENE | ND | 190 | 95 |
| HEXACHLOROBUTADIENE | ND | 190 | 95 |
| HEXACHLOROCYCLOPENTADIENE | ND | 190 | 95 |
| HEXACHLOROETHANE | ND | 190 | 95 |
| INDENO(1,2,3-CD)PYRENE | ND | 190 | 95 |
| ISOPHORONE | ND | 190 | 95 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 190 | 95 |
| N-NITROSODIPHENYLAMINE (2) | ND | 190 | 95 |
| NAPHTHALENE | ND | 190 | 95 |
| NITROBENZENE | ND | 190 | 95 |
| PENTACHLOROPHENOL | ND | 380 | 190 |
| PHENANTHRENE | ND | 190 | 95 |
| PHENOL | ND | 190 | 95 |
| PYRENE | ND | 190 | 95 |
| BENZYL ALCOHOL | ND | 190 | 95 |
| 1-METHYLNAPHTHALENE | ND | 190 | 95 |
| 1,2-DIPHENYLHYDRAZINE | ND | 190 | 95 |
| 3,5-DIMETHYLPHENOL | ND | 190 | 95 |
| ANILINE | ND | 380 | 190 |
| BENZIDINE | ND | 940 | 480 |
| BENZOIC ACID | ND | 750 | 380 |
| CARBAZOLE | ND | 190 | 95 |
| N-NITROSODIMETHYLAMINE | ND | 190 | 95 |
| TETRALIN | ND | 190 | 190 |
| 2-BUTOXYETHANOL | ND | 190 | 190 |
| 2-PHENOXYETHANOL | ND | 190 | 190 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 949 | 1131 | 83.9 | 35-130 |
| 2-FLUOROBIPHENYL | 216 | 377.0 | 57.2 | 45-130 |
| 2-FLUOROPHENOL | 606 | 1131 | 53.5 | 25-130 |
| NITROBENZENE-D5 | 218 | 377.0 | 57.8 | 40-130 |
| PHENOL-D5 | 640 | 1131 | 56.5 | 25-120 |
| TERPHENYL-D14 | 292 | 377.0 | 77.5 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-170-NBZ-SS-0.0-0.5 | Date Analyzed: 05/03/12 00:42 |
| Lab Samp ID: D192-05 | Dilution Factor: 1 |
| Lab File ID: REJ035 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 8.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 370 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 370 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 370 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 370 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 370 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 370 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 981 | 1096 | 89.5 | 35-130 |
| 2-FLUOROBIPHENYL | 218 | 365.5 | 59.6 | 45-130 |
| 2-FLUOROPHENOL | 574 | 1096 | 52.4 | 25-130 |
| NITROBENZENE-D5 | 214 | 365.5 | 58.6 | 40-130 |
| PHENOL-D5 | 628 | 1096 | 57.2 | 25-120 |
| TERPHENYL-D14 | 312 | 365.5 | 85.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-171-NBZ-SS-0.0-0.5 | Date Analyzed: 05/03/12 01:01 |
| Lab Samp ID: D192-06 | Dilution Factor: 1 |
| Lab File ID: REJ036 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 8.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 360 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 943 | 1091 | 86.5 | 35-130 |
| 2-FLUOROBIPHENYL | 203 | 363.5 | 55.8 | 45-130 |
| 2-FLUOROPHENOL | 544 | 1091 | 49.9 | 25-130 |
| NITROBENZENE-D5 | 202 | 363.5 | 55.6 | 40-130 |
| PHENOL-D5 | 590 | 1091 | 54.1 | 25-120 |
| TERPHENYL-D14 | 296 | 363.5 | 81.4 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-202-NBZ-SS-0.0-0.5 | Date Analyzed: 05/03/12 01:20 |
| Lab Samp ID: D192-07 | Dilution Factor: 1 |
| Lab File ID: REJ037 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 7.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 90 |
| 1,2-DICHLOROBENZENE | ND | 180 | 90 |
| 1,3-DICHLOROBENZENE | ND | 180 | 90 |
| 1,4-DICHLOROBENZENE | ND | 180 | 90 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 90 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 90 |
| 2,4-DICHLOROPHENOL | ND | 180 | 90 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 90 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 90 |
| 2,6-DINITROTOLUENE | ND | 180 | 90 |
| 2-CHLORONAPHTHALENE | ND | 180 | 90 |
| 2-CHLOROPHENOL | ND | 180 | 90 |
| 2-METHYLNAPHTHALENE | ND | 180 | 90 |
| 2-METHYLPHENOL | ND | 180 | 90 |
| 2-NITROANILINE | ND | 180 | 90 |
| 2-NITROPHENOL | ND | 180 | 90 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 90 |
| 3-NITROANILINE | ND | 180 | 90 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 90 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 90 |
| 4-CHLOROANILINE | ND | 180 | 90 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 90 |
| 4-METHYLPHENOL (1) | ND | 180 | 90 |
| 4-NITROANILINE | ND | 180 | 90 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 90 |
| ACENAPHTHYLENE | ND | 180 | 90 |
| ANTHRACENE | ND | 180 | 90 |
| BENZO(A)ANTHRACENE | ND | 180 | 90 |
| BENZO(A)PYRENE | ND | 180 | 90 |
| BENZO(B)FLUORANTHENE | ND | 180 | 90 |
| BENZO(K)FLUORANTHENE | ND | 180 | 90 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 90 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 90 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 90 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 90 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 90 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 90 |
| CHRYSENE | ND | 180 | 90 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 90 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 90 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 90 |
| DIBENZOFURAN | ND | 180 | 90 |
| DIETHYLPHTHALATE | ND | 180 | 90 |
| DIMETHYLPHTHALATE | ND | 180 | 90 |
| FLUORANTHENE | ND | 180 | 90 |
| FLUORENE | ND | 180 | 90 |
| HEXACHLOROBENZENE | ND | 180 | 90 |
| HEXACHLOROBUTADIENE | ND | 180 | 90 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 90 |
| HEXACHLOROETHANE | ND | 180 | 90 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 90 |
| ISOPHORONE | ND | 180 | 90 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 90 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 90 |
| NAPHTHALENE | ND | 180 | 90 |
| NITROBENZENE | ND | 180 | 90 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 90 |
| PHENOL | ND | 180 | 90 |
| PYRENE | ND | 180 | 90 |
| BENZYL ALCOHOL | ND | 180 | 90 |
| 1-METHYLNAPHTHALENE | ND | 180 | 90 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 90 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 90 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 890 | 450 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 90 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 90 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 886 | 1076 | 82.3 | 35-130 |
| 2-FLUOROBIPHENYL | 214 | 358.8 | 59.7 | 45-130 |
| 2-FLUOROPHENOL | 663 | 1076 | 61.6 | 25-130 |
| NITROBENZENE-D5 | 252 | 358.8 | 70.1 | 40-130 |
| PHENOL-D5 | 716 | 1076 | 66.5 | 25-120 |
| TERPHENYL-D14 | 327 | 358.8 | 91.2 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/27/12 |
| Batch No. : 12D192 | Date Extracted: 04/27/1212:09 |
| Sample ID: MBLK1S | Date Analyzed: 05/02/12 17:10 |
| Lab Samp ID: SVD050SB | Dilution Factor: 1 |
| Lab File ID: REJ011 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 689 | 1000 | 68.9 | 35-130 |
| 2-FLUOROBIPHENYL | 240 | 333.3 | 72.0 | 45-130 |
| 2-FLUOROPHENOL | 723 | 1000 | 72.3 | 25-130 |
| NITROBENZENE-D5 | 235 | 333.3 | 70.5 | 40-130 |
| PHENOL-D5 | 735 | 1000 | 73.5 | 25-120 |
| TERPHENYL-D14 | 284 | 333.3 | 85.2 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVD050SB SVD050SL SVD050SC
LAB FILE ID: REJ011 REJ012 REJ013
DATE EXTRACTED: 04/27/1212:09 04/27/1212:09 04/27/1212:09 DATE COLLECTED: NA
DATE ANALYZED: 05/02/1217:10 05/02/1217:29 05/02/1217:48 DATE RECEIVED: 04/27/12
PREP. BATCH: SVD050S SVD050S SVD050S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 366 | 55 | 667 | 458 | 69 | 22 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 351 | 53 | 667 | 418 | 63 | 17 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 353 | 53 | 667 | 414 | 62 | 16 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 347 | 52 | 667 | 409 | 61 | 16 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 408 | 61 | 667 | 485 | 73 | 17 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 435 | 65 | 667 | 523 | 78 | 18 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 416 | 62 | 667 | 511 | 77 | 21 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 419 | 63 | 667 | 501 | 75 | 18 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 421 | 63 | 667 | 441 | 66 | 5 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 525 | 79 | 667 | 586 | 88 | 11 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 460 | 69 | 667 | 548 | 82 | 18 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 426 | 64 | 667 | 469 | 70 | 10 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 387 | 58 | 667 | 510 | 77 | 28 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 461 | 69 | 667 | 552 | 83 | 18 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 365 | 55 | 667 | 439 | 66 | 19 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 454 | 68 | 667 | 541 | 81 | 18 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 396 | 59 | 667 | 487 | 73 | 21 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 454 | 68 | 667 | 484 | 73 | 7 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 423 | 63 | 667 | 476 | 71 | 12 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 483 | 72 | 667 | 530 | 79 | 9 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 440 | 66 | 667 | 499 | 75 | 13 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 423 | 64 | 667 | 508 | 76 | 18 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 379 | 57 | 667 | 466 | 70 | 20 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 478 | 72 | 667 | 567 | 85 | 17 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 371 | 56 | 667 | 442 | 66 | 17 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 450 | 68 | 667 | 509 | 76 | 12 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 495 | 74 | 667 | 554 | 83 | 11 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 443 | 66 | 667 | 534 | 80 | 19 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 512 | 77 | 667 | 617 | 93 | 19 | 30-130 | 50 |
| Anthracene | ND | 667 | 493 | 74 | 667 | 538 | 81 | 9 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 551 | 83 | 667 | 587 | 88 | 6 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 536 | 80 | 667 | 570 | 85 | 6 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 575 | 86 | 667 | 581 | 87 | 1 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 575 | 86 | 667 | 643 | 96 | 11 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 581 | 87 | 667 | 602 | 90 | 4 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 481 | 72 | 667 | 581 | 87 | 19 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 458 | 69 | 667 | 557 | 83 | 20 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 477 | 72 | 667 | 595 | 89 | 22 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 549 | 82 | 667 | 584 | 88 | 6 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 541 | 81 | 667 | 584 | 88 | 8 | 40-150 | 50 |
| Chrysene | ND | 667 | 571 | 86 | 667 | 599 | 90 | 5 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 512 | 77 | 667 | 544 | 82 | 6 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 549 | 82 | 667 | 589 | 88 | 7 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 573 | 86 | 667 | 604 | 91 | 5 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 425 | 64 | 667 | 510 | 76 | 18 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 498 | 75 | 667 | 554 | 83 | 11 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 461 | 69 | 667 | 526 | 79 | 13 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 549 | 82 | 667 | 596 | 89 | 8 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 490 | 73 | 667 | 576 | 86 | 16 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 454 | 68 | 667 | 500 | 75 | 10 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 393 | 59 | 667 | 480 | 72 | 20 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 287 | 43 | 667 | 366 | 55 | 24 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 352 | 53 | 667 | 427 | 64 | 19 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 570 | 85 | 667 | 598 | 90 | 5 | 30-140 | 50 |
| Isophorone | ND | 667 | 526 | 79 | 667 | 632 | 95 | 18 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 376 | 56 | 667 | 455 | 68 | 19 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 355 | 53 | 667 | 399 | 60 | 12 | 30-140 | 50 |
| Naphthalene | ND | 667 | 433 | 65 | 667 | 528 | 79 | 20 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 460 | 69 | 667 | 559 | 84 | 19 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 429 | 64 | 667 | 483 | 72 | 12 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 512 | 77 | 667 | 560 | 84 | 9 | 30-130 | 50 |
| Phenol | ND | 667 | 411 | 62 | 667 | 495 | 74 | 18 | 30-130 | 50 |
| Pyrene | ND | 667 | 555 | 83 | 667 | 591 | 89 | 6 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 392 | 59 | 667 | 481 | 72 | 20 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 458 | 69 | 667 | 545 | 82 | 17 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 453 | 68 | 667 | 516 | 77 | 13 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 403 | 60 | 667 | 492 | 74 | 20 | 20-150 | 50 |
| Aniline | ND | 667 | 329J | 49 | 667 | 403 | 61 | 20 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1260 | 47 | 2670 | 966 | 36 | 26 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 787 | 30 | 2670 | 596J | 22 | 28 | 10-130 | 50 |
| Carbazole | ND | 667 | 489 | 73 | 667 | 525 | 79 | 7 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 499 | 75 | 667 | 575 | 86 | 14 | 30-150 | 50 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 673 | 67 | 1000 | 714 | 71 | 35-130 |
| 2-Fluorobiphenyl | 333 | 171 | 51 | 333 | 202 | 61 | 45-130 |
| 2-Fluorophenol | 1000 | 535 | 54 | 1000 | 610 | 61 | 25-130 |
| Nitrobenzene-d5 | 333 | 185 | 56 | 333 | 221 | 66 | 40-130 |
| Phenol-d5 | 1000 | 555 | 56 | 1000 | 638 | 64 | 25-120 |
| Terphenyl-d14 | 333 | 261 | 78 | 333 | 272 | 81 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-016-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 23:27 |
| Lab Samp ID: D192-01 | Dilution Factor: 1 |
| Lab File ID: REJ031 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 20.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.1 | 1.1 |
| ACENAPHTHYLENE | ND | 2.1 | 1.1 |
| ANTHRACENE | ND | 2.1 | 1.1 |
| BENZO(A)ANTHRACENE | 3.9 | 2.1 | 1.1 |
| BENZO(A)PYRENE | 3.9 | 2.1 | 1.1 |
| BENZO(B)FLUORANTHENE | 5.6 | 2.1 | 1.1 |
| BENZO(K)FLUORANTHENE | 2.3 | 2.1 | 1.1 |
| BENZO(G,H,I)PERYLENE | 3.6 | 2.1 | 1.1 |
| CHRYSENE | 4.1 | 2.1 | 1.1 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.1 | 1.1 |
| FLUORANTHENE | 6.0 | 2.1 | 1.1 |
| FLUORENE | ND | 2.1 | 1.1 |
| INDENO(1,2,3-CD)PYRENE | 2.6 | 2.1 | 1.1 |
| NAPHTHALENE | ND | 2.1 | 1.1 |
| PHENANTHRENE | 3.0 | 2.1 | 1.1 |
| PYRENE | 6.2 | 2.1 | 1.1 |
| 2-METHYLNAPHTHALENE | ND | 2.1 | 1.1 |
| 1-METHYLNAPHTHALENE | ND | 2.1 | 1.1 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 38 | 21 | 11 |
| BUTYLBENZYLPHTHALATE | 25 | 21 | 11 |
| DI-N-BUTYLPHTHALATE | ND | 21 | 11 |
| DI-N-OCTYLPHTHALATE | ND | 21 | 11 |
| DIETHYLPHTHALATE | ND | 21 | 11 |
| DIMETHYLPHTHALATE | ND | 21 | 11 |
| N-NITROSODIMETHYLAMINE | ND | 2.1 | 1.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 238 | 420.3 | 56.5 | 40-130 |
| 2-FLUOROBIPHENYL | 210 | 420.3 | 50.0 | 45-130 |
| TERPHENYL-D14 | 293 | 420.3 | 69.6 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-018-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 23:46 |
| Lab Samp ID: D192-02 | Dilution Factor: 1 |
| Lab File ID: REJ032 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 17.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.1 | 1.0 |
| ACENAPHTHYLENE | ND | 2.1 | 1.0 |
| ANTHRACENE | ND | 2.1 | 1.0 |
| BENZO(A)ANTHRACENE | 3.5 | 2.1 | 1.0 |
| BENZO(A)PYRENE | 2.4 | 2.1 | 1.0 |
| BENZO(B)FLUORANTHENE | 2.8 | 2.1 | 1.0 |
| BENZO(K)FLUORANTHENE | ND | 2.1 | 1.0 |
| BENZO(G,H,I)PERYLENE | 2.4 | 2.1 | 1.0 |
| CHRYSENE | 1.7J | 2.1 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.1 | 1.0 |
| FLUORANTHENE | 2.3 | 2.1 | 1.0 |
| FLUORENE | ND | 2.1 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 2.1 | 1.0 |
| NAPHTHALENE | ND | 2.1 | 1.0 |
| PHENANTHRENE | 1.4J | 2.1 | 1.0 |
| PYRENE | 3.0 | 2.1 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.1 | 1.0 |
| 1-METHYLNAPHTHALENE | ND | 2.1 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 36 | 20 | 10 |
| BUTYLBENZYLPHTHALATE | 91 | 20 | 10 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 10 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 10 |
| DIETHYLPHTHALATE | ND | 20 | 10 |
| DIMETHYLPHTHALATE | ND | 20 | 10 |
| N-NITROSODIMETHYLAMINE | ND | 2.1 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 255 | 404.5 | 63.1 | 40-130 |
| 2-FLUOROBIPHENYL | 236 | 404.5 | 58.4 | 45-130 |
| TERPHENYL-D14 | 315 | 404.5 | 77.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-080-NBZ-SS-0.0-0.5 | Date Analyzed: 05/03/12 00:05 |
| Lab Samp ID: D192-03 | Dilution Factor: 1 |
| Lab File ID: REJ033 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 14.0 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 0.99 |
| ACENAPHTHYLENE | ND | 2.0 | 0.99 |
| ANTHRACENE | ND | 2.0 | 0.99 |
| BENZO(A)ANTHRACENE | 2.7 | 2.0 | 0.99 |
| BENZO(A)PYRENE | 2.1 | 2.0 | 0.99 |
| BENZO(B)FLUORANTHENE | 3.1 | 2.0 | 0.99 |
| BENZO(K)FLUORANTHENE | ND | 2.0 | 0.99 |
| BENZO(G,H,I)PERYLENE | 3.1 | 2.0 | 0.99 |
| CHRYSENE | 2.0 | 2.0 | 0.99 |
| DIBENZO(A,H)ANTHRACENE | ND | 2.0 | 0.99 |
| FLUORANTHENE | 2.7 | 2.0 | 0.99 |
| FLUORENE | 4.3 | 2.0 | 0.99 |
| INDENO(1,2,3-CD)PYRENE | 1.7J | 2.0 | 0.99 |
| NAPHTHALENE | 1.1J | 2.0 | 0.99 |
| PHENANTHRENE | 1.9J | 2.0 | 0.99 |
| PYRENE | 3.0 | 2.0 | 0.99 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| 1-METHYLNAPHTHALENE | ND | 2.0 | 0.99 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 32 | 19 | 9.8 |
| BUTYLBENZYLPHTHALATE | 45 | 19 | 9.8 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.8 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.8 |
| DIETHYLPHTHALATE | ND | 19 | 9.8 |
| DIMETHYLPHTHALATE | ND | 19 | 9.8 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 0.99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 235 | 387.6 | 60.7 | 40-130 |
| 2-FLUOROBIPHENYL | 235 | 387.6 | 60.7 | 45-130 |
| TERPHENYL-D14 | 298 | 387.6 | 76.8 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-089-NBZ-SS-0.0-0.5 | Date Analyzed: 05/03/12 00:23 |
| Lab Samp ID: D192-04 | Dilution Factor: 1 |
| Lab File ID: REJ034 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 11.6 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.96 |
| ACENAPHTHYLENE | ND | 1.9 | 0.96 |
| ANTHRACENE | ND | 1.9 | 0.96 |
| BENZO(A)ANTHRACENE | 1.7J | 1.9 | 0.96 |
| BENZO(A)PYRENE | 2.7 | 1.9 | 0.96 |
| BENZO(B)FLUORANTHENE | 4.2 | 1.9 | 0.96 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.96 |
| BENZO(G,H,I)PERYLENE | 2.7 | 1.9 | 0.96 |
| CHRYSENE | 2.7 | 1.9 | 0.96 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.96 |
| FLUORANTHENE | 4.9 | 1.9 | 0.96 |
| FLUORENE | ND | 1.9 | 0.96 |
| INDENO(1,2,3-CD)PYRENE | 2.5 | 1.9 | 0.96 |
| NAPHTHALENE | ND | 1.9 | 0.96 |
| PHENANTHRENE | 2.4 | 1.9 | 0.96 |
| PYRENE | 4.6 | 1.9 | 0.96 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.96 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 26 | 19 | 9.5 |
| BUTYLBENZYLPHTHALATE | 14J | 19 | 9.5 |
| DI-N-BUTYLPHTHALATE | ND | 19 | 9.5 |
| DI-N-OCTYLPHTHALATE | ND | 19 | 9.5 |
| DIETHYLPHTHALATE | ND | 19 | 9.5 |
| DIMETHYLPHTHALATE | ND | 19 | 9.5 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.96 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 214 | 377.0 | 56.8 | 40-130 |
| 2-FLUOROBIPHENYL | 224 | 377.0 | 59.5 | 45-130 |
| TERPHENYL-D14 | 286 | 377.0 | 75.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-170-NBZ-SS-0.0-0.5 | Date Analyzed: 05/03/12 00:42 |
| Lab Samp ID: D192-05 | Dilution Factor: 1 |
| Lab File ID: REJ035 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 8.8 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | 0.95J | 1.9 | 0.93 |
| BENZO(A)PYRENE | 1.9 | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | 3.2 | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | 1.0J | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | 2.4 | 1.9 | 0.93 |
| CHRYSENE | 1.8J | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | 3.3 | 1.9 | 0.93 |
| FLUORENE | 1.5J | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | 2.1 | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | 1.6J | 1.9 | 0.93 |
| PYRENE | 3.3 | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 34 | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | 13J | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 210 | 365.5 | 57.6 | 40-130 |
| 2-FLUOROBIPHENYL | 214 | 365.5 | 58.7 | 45-130 |
| TERPHENYL-D14 | 299 | 365.5 | 81.8 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-171-NBZ-SS-0.0-0.5 | Date Analyzed: 05/03/12 01:01 |
| Lab Samp ID: D192-06 | Dilution Factor: 1 |
| Lab File ID: REJ036 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 8.3 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)PYRENE | 1.0J | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | 2.4 | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | 1.8J | 1.9 | 0.93 |
| CHRYSENE | ND | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | 1.6J | 1.9 | 0.93 |
| FLUORENE | ND | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | 1.5J | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | ND | 1.9 | 0.93 |
| PYRENE | 1.5J | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 26 | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | 15J | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 198 | 363.5 | 54.6 | 40-130 |
| 2-FLUOROBIPHENYL | 202 | 363.5 | 55.7 | 45-130 |
| TERPHENYL-D14 | 285 | 363.5 | 78.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/27/1212:09 |
| Sample ID: SL-202-NBZ-SS-0.0-0.5 | Date Analyzed: 05/03/12 01:20 |
| Lab Samp ID: D192-07 | Dilution Factor: 1 |
| Lab File ID: REJ037 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : 7.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.91 |
| ACENAPHTHYLENE | ND | 1.8 | 0.91 |
| ANTHRACENE | ND | 1.8 | 0.91 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.91 |
| BENZO(A)PYRENE | ND | 1.8 | 0.91 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.91 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.91 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.91 |
| CHRYSENE | ND | 1.8 | 0.91 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.91 |
| FLUORANTHENE | ND | 1.8 | 0.91 |
| FLUORENE | ND | 1.8 | 0.91 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.91 |
| NAPHTHALENE | ND | 1.8 | 0.91 |
| PHENANTHRENE | ND | 1.8 | 0.91 |
| PYRENE | ND | 1.8 | 0.91 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.91 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 9.0 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.0 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.0 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.0 |
| DIETHYLPHTHALATE | ND | 18 | 9.0 |
| DIMETHYLPHTHALATE | ND | 18 | 9.0 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.91 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 257 | 358.8 | 71.7 | 40-130 |
| 2-FLUOROBIPHENYL | 220 | 358.8 | 61.4 | 45-130 |
| TERPHENYL-D14 | 295 | 358.8 | 82.3 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/27/12 |
| Batch No. : 12D192 | Date Extracted: 04/27/1212:09 |
| Sample ID: MBLK1S | Date Analyzed: 05/02/12 17:10 |
| Lab Samp ID: SVD050SB | Dilution Factor: 1 |
| Lab File ID: REJ011 | Matrix : SOIL |
| Ext Btch ID: SVD050S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 246 | 333.3 | 73.9 | 40-130 |
| 2-FLUOROBIPHENYL | 231 | 333.3 | 69.4 | 45-130 |
| TERPHENYL-D14 | 268 | 333.3 | 80.5 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVD050SB | SVD050SX | SVD050SY | | |
| LAB FILE ID: | REJ011 | REJ014 | REJ015 | | |
| DATE EXTRACTED: | 04/27/1212:09 | 04/27/1212:09 | 04/27/1212:09 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/02/1217:10 | 05/02/1218:06 | 05/02/1218:25 | DATE RECEIVED: | 04/27/12 |
| PREP. BATCH: | SVD050S | SVD050S | SVD050S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 271 | 81 | 333 | 279 | 84 | 3 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 308 | 92 | 333 | 319 | 96 | 3 | 20-130 | 50 |
| Anthracene | ND | 333 | 265 | 80 | 333 | 279 | 84 | 5 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 292 | 88 | 333 | 327 | 98 | 11 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 307 | 92 | 333 | 319 | 96 | 4 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 310 | 93 | 333 | 326 | 98 | 5 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 345 | 104 | 333 | 352 | 106 | 2 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 329 | 99 | 333 | 337 | 101 | 2 | 30-140 | 50 |
| Chrysene | ND | 333 | 281 | 84 | 333 | 314 | 94 | 11 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 331 | 99 | 333 | 341 | 102 | 3 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 296 | 89 | 333 | 330 | 99 | 11 | 30-130 | 50 |
| Fluorene | ND | 333 | 301 | 90 | 333 | 307 | 92 | 2 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 331 | 99 | 333 | 342 | 102 | 3 | 20-160 | 50 |
| Naphthalene | ND | 333 | 253 | 76 | 333 | 260 | 78 | 3 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 262 | 79 | 333 | 276 | 83 | 5 | 20-130 | 50 |
| Pyrene | ND | 333 | 283 | 85 | 333 | 318 | 95 | 12 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 276 | 83 | 333 | 285 | 86 | 3 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 274 | 82 | 333 | 284 | 85 | 3 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 268 | 80 | 333 | 295 | 88 | 9 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 247 | 74 | 333 | 275 | 83 | 11 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 260 | 78 | 333 | 280 | 84 | 7 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 262 | 79 | 333 | 270 | 81 | 3 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 286 | 86 | 333 | 289 | 87 | 1 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 276 | 83 | 333 | 282 | 85 | 2 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 278 | 83 | 333 | 282 | 85 | 1 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 236 | 71 | 333 | 224 | 67 | 40-130 |
| 2-Fluorobiphenyl | 333 | 221 | 66 | 333 | 220 | 66 | 45-130 |
| Terphenyl-d14 | 333 | 259 | 78 | 333 | 276 | 83 | 45-135 |

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/26/12 15:15 |
| Sample ID: SL-016-NBZ-SS-0.0-0.5 | Date Analyzed: 04/27/12 13:02 |
| Lab Samp ID: D192-01R | Dilution Factor: 1 |
| Lab File ID: LD26081A | Matrix : SOIL |
| Ext Btch ID: DSD044S | % Moisture : 20.7 |
| Calib. Ref.: LD26074A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.88J | 1.3 | 0.63 |
| EFH(C12-C14) | ND | 1.3 | 0.63 |
| EFH(C15-C20) | 1.8 | 1.3 | 0.63 |
| EFH(C21-C30) | 18 | 1.3 | 0.63 |
| EFH(C30-C40) | 30 | 1.3 | 0.63 |
| TOTAL EFH(C8-C40) | 51 | 1.3 | 0.63 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.65 | 12.61 | 52.7 | 50-150 |
| HEXACOSANE | 3.07 | 3.153 | 97.5 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/24/12 14:55 |
| Sample ID: SL-018-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 13:17 |
| Lab Samp ID: D192-02 | Dilution Factor: 1 |
| Lab File ID: LD24078A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : 17.6 |
| Calib. Ref.: LD24074A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 3.8 | 1.2 | 0.61 |
| EFH(C12-C14) | 1.9 | 1.2 | 0.61 |
| EFH(C15-C20) | 12 | 1.2 | 0.61 |
| EFH(C21-C30) | 52 | 1.2 | 0.61 |
| EFH(C30-C40) | 66 | 1.2 | 0.61 |
| TOTAL EFH(C8-C40) | 140 | 1.2 | 0.61 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.40 | 12.14 | 61.0 | 50-150 |
| HEXACOSANE | 2.38 | 3.034 | 78.5 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/24/12 14:55 |
| Sample ID: SL-080-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 13:34 |
| Lab Samp ID: D192-03 | Dilution Factor: 1 |
| Lab File ID: LD24079A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : 14.0 |
| Calib. Ref.: LD24074A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 1.4 | 1.2 | 0.58 |
| EFH(C12-C14) | ND | 1.2 | 0.58 |
| EFH(C15-C20) | 3.4 | 1.2 | 0.58 |
| EFH(C21-C30) | 29 | 1.2 | 0.58 |
| EFH(C30-C40) | 44 | 1.2 | 0.58 |
| TOTAL EFH(C8-C40) | 78 | 1.2 | 0.58 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.07 | 11.63 | 52.2 | 50-150 |
| HEXACOSANE | 2.72 | 2.907 | 93.6 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/24/12 14:55 |
| Sample ID: SL-089-NBZ-SS-0.0-0.5 | Date Analyzed: 04/25/12 13:51 |
| Lab Samp ID: D192-04 | Dilution Factor: 1 |
| Lab File ID: LD24080A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : 11.6 |
| Calib. Ref.: LD24074A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | 0.58J | 1.1 | 0.57 |
| EFH(C12-C14) | ND | 1.1 | 0.57 |
| EFH(C15-C20) | 1.9 | 1.1 | 0.57 |
| EFH(C21-C30) | 14 | 1.1 | 0.57 |
| EFH(C30-C40) | 33 | 1.1 | 0.57 |
| TOTAL EFH(C8-C40) | 49 | 1.1 | 0.57 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 5.66 | 11.31 | 50.1 | 50-150 |
| HEXACOSANE | 2.63 | 2.828 | 93.1 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/24/12 |
| Batch No. : 12D192 | Date Extracted: 04/24/12 14:55 |
| Sample ID: MBLK1S | Date Analyzed: 04/25/12 07:21 |
| Lab Samp ID: DSD040SB | Dilution Factor: 1 |
| Lab File ID: LD24057A | Matrix : SOIL |
| Ext Btch ID: DSD040S | % Moisture : NA |
| Calib. Ref.: LD24050A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 6.92 | 10.00 | 69.2 | 50-150 |
| HEXACOSANE | 1.96 | 2.500 | 78.5 | 50-150 |

RL : Reporting Limit

METHOD 3550B/8015B EFH
PETROLEUM HYDROCARBONS BY EXTRACTION

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/26/12 |
| Batch No. : 12D192 | Date Extracted: 04/26/12 15:15 |
| Sample ID: MBLK2S | Date Analyzed: 04/27/12 11:37 |
| Lab Samp ID: DSD044SB | Dilution Factor: 1 |
| Lab File ID: LD26076A | Matrix : SOIL |
| Ext Btch ID: DSD044S | % Moisture : NA |
| Calib. Ref.: LD26074A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| EFH(C8-C11) | ND | 1.0 | 0.50 |
| EFH(C12-C14) | ND | 1.0 | 0.50 |
| EFH(C15-C20) | ND | 1.0 | 0.50 |
| EFH(C21-C30) | ND | 1.0 | 0.50 |
| EFH(C30-C40) | ND | 1.0 | 0.50 |
| TOTAL EFH(C8-C40) | ND | 1.0 | 0.50 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| BROMOBENZENE | 7.10 | 10.00 | 71.0 | 50-150 |
| HEXACOSANE | 2.03 | 2.500 | 81.3 | 50-150 |

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | DSD040SB | DSD040SL | DSD040SC | | |
| LAB FILE ID: | LD24057A | LD24055A | LD24056A | | |
| DATE EXTRACTED: | 04/24/1214:55 | 04/24/1214:55 | 04/24/1214:55 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1207:21 | 04/25/1206:47 | 04/25/1207:04 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | DSD040S | DSD040S | DSD040S | | |
| CALIB. REF: | LD24050A | LD24050A | LD24050A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 45.1 | 90 | 50.0 | 40.7 | 81 | 10 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 7.75 | 78 | 10.0 | 6.77 | 68 | 50-150 |
| Hexacosane | 2.50 | 2.16 | 86 | 2.50 | 2.05 | 82 | 50-150 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: METHOD 3550B/8015B EFH

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK2S | | | | |
| LAB SAMP ID: | DSD044SB | DSD044SL | DSD044SC | | |
| LAB FILE ID: | LD26076A | LD26077A | LD26078A | | |
| DATE EXTRACTED: | 04/26/1215:15 | 04/26/1215:15 | 04/26/1215:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/27/1211:37 | 04/27/1211:54 | 04/27/1212:11 | DATE RECEIVED: | 04/26/12 |
| PREP. BATCH: | DSD044S | DSD044S | DSD044S | | |
| CALIB. REF: | LD26074A | LD26074A | LD26074A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total EFH(C8-C40) | ND | 50.0 | 42.0 | 84 | 50.0 | 40.0 | 80 | 5 | 50-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Bromobenzene | 10.0 | 7.15 | 71 | 10.0 | 7.20 | 72 | 50-150 |
| Hexacosane | 2.50 | 2.08 | 83 | 2.50 | 1.98 | 79 | 50-150 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/26/12 14:50 |
| Sample ID: SL-016-NBZ-SS-0.0-0.5 | Date Analyzed: 05/01/12 23:55 |
| Lab Samp ID: D192-01 | Dilution Factor: 1 |
| Lab File ID: LE01024A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 20.7 |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.21 | 0.11 \| 0.11 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.54 | 0.21 | 0.11 \| 0.11 |
| BETA-BHC | (ND) \| ND | 0.21 | 0.11 \| 0.11 |
| HEPTACHLOR | (ND) \| 1.3 | 0.21 | 0.11 \| 0.11 |
| DELTA-BHC | (ND) \| 0.39 | 0.21 | 0.11 \| 0.11 |
| ALDRIN | (ND) \| ND | 0.21 | 0.11 \| 0.11 |
| HEPTACHLOR EPOXIDE | 1.2 \| (ND) | 0.21 | 0.11 \| 0.11 |
| ENDOSULFAN I | (ND) \| ND | 0.21 | 0.11 \| 0.11 |
| 4,4'-DDE | (1.9) \| 1.5 | 0.43 | 0.21 \| 0.21 |
| DIELDRIN | 0.38J \| (ND) | 0.43 | 0.21 \| 0.21 |
| ENDRIN | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| 4,4'-DDD | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| ENDOSULFAN II | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| 4,4'-DDT | (2.2) \| 2.0 | 0.43 | 0.21 \| 0.21 |
| ENDRIN ALDEHYDE | 1.1 \| (ND) | 0.43 | 0.21 \| 0.21 |
| ENDOSULFAN SULFATE | 0.49 \| (ND) | 0.43 | 0.21 \| 0.21 |
| ENDRIN KETONE | (ND) \| ND | 0.43 | 0.21 \| 0.21 |
| METHOXYCHLOR | (ND) \| ND | 2.1 | 1.1 \| 1.1 |
| MIREX | 0.66 \| (ND) | 0.43 | 0.21 \| 0.21 |
| TOXAPHENE | (ND) \| ND | 8.3 | 4.2 \| 4.2 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.3 | 2.1 \| 2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.475 \| (6.663) | 6.725 | 81.4 \| (99.1) | 50-130 |
| DECACHLOROBIPHENYL | (4.511) \| 4.288 | 6.725 | (67.1) \| 63.8 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/26/12 14:50 |
| Sample ID: SL-018-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 00:16 |
| Lab Samp ID: D192-02 | Dilution Factor: 1 |
| Lab File ID: LE01025A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 17.6 |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.20J | 0.21 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.50 | 0.21 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| 0.26 | 0.21 | 0.10 \| 0.10 |
| HEPTACHLOR | 0.44 \| (ND) | 0.21 | 0.10 \| 0.10 |
| DELTA-BHC | (ND) \| 0.47 | 0.21 | 0.10 \| 0.10 |
| ALDRIN | 0.88 \| (ND) | 0.21 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | (ND) \| 1.4 | 0.21 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| 0.13J | 0.21 | 0.10 \| 0.10 |
| 4,4'-DDE | (1.3) \| 1.1 | 0.41 | 0.21 \| 0.21 |
| DIELDRIN | (ND) \| 0.53 | 0.41 | 0.21 \| 0.21 |
| ENDRIN | 1.2 \| (ND) | 0.41 | 0.21 \| 0.21 |
| 4,4'-DDD | (ND) \| ND | 0.41 | 0.21 \| 0.21 |
| ENDOSULFAN II | 1.5 \| (ND) | 0.41 | 0.21 \| 0.21 |
| 4,4'-DDT | (2.4) \| 1.8 | 0.41 | 0.21 \| 0.21 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.41 | 0.21 \| 0.21 |
| ENDOSULFAN SULFATE | 4.8 \| (ND) | 0.41 | 0.21 \| 0.21 |
| ENDRIN KETONE | (ND) \| ND | 0.41 | 0.21 \| 0.21 |
| METHOXYCHLOR | 12 \| (ND) | 2.1 | 1.0 \| 1.0 |
| MIREX | 1.7 \| (ND) | 0.41 | 0.21 \| 0.21 |
| TOXAPHENE | (ND) \| ND | 8.0 | 4.0 \| 4.0 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.1 | 2.1 \| 2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.054 \| (5.620) | 6.472 | 78.1 \| (86.8) | 50-130 |
| DECACHLOROBIPHENYL | 3.621 \| (3.963) | 6.472 | 55.9 \| (61.2) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/26/12 14:50 |
| Sample ID: SL-080-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 00:38 |
| Lab Samp ID: D192-03 | Dilution Factor: 1 |
| Lab File ID: LE01026A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 14.0 |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | 0.81\|(ND) | 0.20 | 0.099\|0.099 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.20 | 0.099\|0.099 |
| BETA-BHC | (ND)\|ND | 0.20 | 0.099\|0.099 |
| HEPTACHLOR | (ND)\|0.96 | 0.20 | 0.099\|0.099 |
| DELTA-BHC | (ND)\|ND | 0.20 | 0.099\|0.099 |
| ALDRIN | (ND)\|ND | 0.20 | 0.099\|0.099 |
| HEPTACHLOR EPOXIDE | (ND)\|0.10J | 0.20 | 0.099\|0.099 |
| ENDOSULFAN I | (ND)\|0.19J | 0.20 | 0.099\|0.099 |
| 4,4'-DDE | (1.1)\|0.56 | 0.40 | 0.20\|0.20 |
| DIELDRIN | (ND)\|ND | 0.40 | 0.20\|0.20 |
| ENDRIN | 0.47\|(ND) | 0.40 | 0.20\|0.20 |
| 4,4'-DDD | (ND)\|ND | 0.40 | 0.20\|0.20 |
| ENDOSULFAN II | 0.65\|(ND) | 0.40 | 0.20\|0.20 |
| 4,4'-DDT | 1.7\|(1.8) | 0.40 | 0.20\|0.20 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.40 | 0.20\|0.20 |
| ENDOSULFAN SULFATE | 0.24J\|(ND) | 0.40 | 0.20\|0.20 |
| ENDRIN KETONE | 0.36J\|(ND) | 0.40 | 0.20\|0.20 |
| METHOXYCHLOR | (ND)\|ND | 2.0 | 0.99\|0.99 |
| MIREX | (ND)\|0.48 | 0.40 | 0.20\|0.20 |
| TOXAPHENE | (ND)\|ND | 7.7 | 3.8\|3.8 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 4.0 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.403\|(6.207) | 6.201 | 87.1\|(100) | 50-130 |
| DECACHLOROBIPHENYL | 3.801\|(4.040) | 6.201 | 61.3\|(65.1) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/26/12 14:50 |
| Sample ID: SL-089-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 00:59 |
| Lab Samp ID: D192-04 | Dilution Factor: 1 |
| Lab File ID: LE01027A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 11.6 |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.19J | 0.19 | 0.096 \| 0.096 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| HEPTACHLOR | (ND) \| 1.0 | 0.19 | 0.096 \| 0.096 |
| DELTA-BHC | 0.44 \| (ND) | 0.19 | 0.096 \| 0.096 |
| ALDRIN | (ND) \| ND | 0.19 | 0.096 \| 0.096 |
| HEPTACHLOR EPOXIDE | 0.40 \| (ND) | 0.19 | 0.096 \| 0.096 |
| ENDOSULFAN I | (ND) \| 0.14J | 0.19 | 0.096 \| 0.096 |
| 4,4'-DDE | (2.0) \| 1.7 | 0.38 | 0.19 \| 0.19 |
| DIELDRIN | 0.94 \| (ND) | 0.38 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.38J \| (ND) | 0.38 | 0.19 \| 0.19 |
| 4,4'-DDT | (3.7) \| 3.4 | 0.38 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | 0.73 \| (ND) | 0.38 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| METHOXYCHLOR | 3.9 \| (ND) | 1.9 | 0.96 \| 0.96 |
| MIREX | (ND) \| ND | 0.38 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.5 | 3.7 \| 3.7 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.8 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.354 \| (6.473) | 6.033 | 88.7 \| (107) | 50-130 |
| DECACHLOROBIPHENYL | 3.613 \| (4.010) | 6.033 | 59.9 \| (66.5) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/26/12 14:50 |
| Sample ID: SL-170-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 01:21 |
| Lab Samp ID: D192-05 | Dilution Factor: 1 |
| Lab File ID: LE01028A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 8.8 |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.24 | 0.19 | 0.093\|0.093 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.19 | 0.093\|0.093 |
| BETA-BHC | (ND)\|ND | 0.19 | 0.093\|0.093 |
| HEPTACHLOR | (ND)\|0.54 | 0.19 | 0.093\|0.093 |
| DELTA-BHC | (ND)\|ND | 0.19 | 0.093\|0.093 |
| ALDRIN | (ND)\|ND | 0.19 | 0.093\|0.093 |
| HEPTACHLOR EPOXIDE | 0.18J\|(ND) | 0.19 | 0.093\|0.093 |
| ENDOSULFAN I | (ND)\|0.096J | 0.19 | 0.093\|0.093 |
| 4,4'-DDE | (0.39)\|0.25J | 0.37 | 0.19\|0.19 |
| DIELDRIN | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.37 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDOSULFAN II | 0.29J\|(ND) | 0.37 | 0.19\|0.19 |
| 4,4'-DDT | (0.91)\|0.57 | 0.37 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | (ND)\|0.61 | 0.37 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| METHOXYCHLOR | (ND)\|ND | 1.9 | 0.93\|0.93 |
| MIREX | (ND)\|ND | 0.37 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.2 | 3.6\|3.6 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.299\|(5.963) | 5.848 | 90.6\|(102) | 50-130 |
| DECACHLOROBIPHENYL | 3.894\|(5.861) | 5.848 | 66.6\|(100) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/26/12 14:50 |
| Sample ID: SL-171-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 01:43 |
| Lab Samp ID: D192-06 | Dilution Factor: 1 |
| Lab File ID: LE01029A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 8.3 |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.18J | 0.19 | 0.093 \| 0.093 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.42 | 0.19 | 0.093 \| 0.093 |
| BETA-BHC | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| HEPTACHLOR | 0.56 \| (ND) | 0.19 | 0.093 \| 0.093 |
| DELTA-BHC | (ND) \| 0.57 | 0.19 | 0.093 \| 0.093 |
| ALDRIN | 0.099J \| (ND) | 0.19 | 0.093 \| 0.093 |
| HEPTACHLOR EPOXIDE | 0.43 \| (ND) | 0.19 | 0.093 \| 0.093 |
| ENDOSULFAN I | (ND) \| 0.10J | 0.19 | 0.093 \| 0.093 |
| 4,4'-DDE | (1.0) \| 0.69 | 0.37 | 0.19 \| 0.19 |
| DIELDRIN | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDRIN | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDD | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN II | 0.70 \| (ND) | 0.37 | 0.19 \| 0.19 |
| 4,4'-DDT | 0.82 \| (1.2) | 0.37 | 0.19 \| 0.19 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| ENDOSULFAN SULFATE | (ND) \| 0.24J | 0.37 | 0.19 \| 0.19 |
| ENDRIN KETONE | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| METHOXYCHLOR | 6.7 \| (ND) | 1.9 | 0.93 \| 0.93 |
| MIREX | (ND) \| ND | 0.37 | 0.19 \| 0.19 |
| TOXAPHENE | (ND) \| ND | 7.2 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.9 \| 1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.591 \| (6.539) | 5.816 | 96.1 \| (112) | 50-130 |
| DECACHLOROBIPHENYL | (4.236) \| 3.858 | 5.816 | (72.8) \| 66.3 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/26/12 14:50 |
| Sample ID: SL-202-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 02:04 |
| Lab Samp ID: D192-07 | Dilution Factor: 1 |
| Lab File ID: LE01030A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 7.1 |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.35 | 0.18 | 0.091\|0.091 |
| GAMMA-BHC (LINDANE) | (ND)\|0.22 | 0.18 | 0.091\|0.091 |
| BETA-BHC | 0.16J\|(ND) | 0.18 | 0.091\|0.091 |
| HEPTACHLOR | 0.71\|(ND) | 0.18 | 0.091\|0.091 |
| DELTA-BHC | (ND)\|ND | 0.18 | 0.091\|0.091 |
| ALDRIN | (ND)\|ND | 0.18 | 0.091\|0.091 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.18 | 0.091\|0.091 |
| ENDOSULFAN I | (ND)\|ND | 0.18 | 0.091\|0.091 |
| 4,4'-DDE | (ND)\|ND | 0.37 | 0.18\|0.18 |
| DIELDRIN | (ND)\|ND | 0.37 | 0.18\|0.18 |
| ENDRIN | (ND)\|ND | 0.37 | 0.18\|0.18 |
| 4,4'-DDD | (ND)\|0.41 | 0.37 | 0.18\|0.18 |
| ENDOSULFAN II | (ND)\|0.30J | 0.37 | 0.18\|0.18 |
| 4,4'-DDT | (ND)\|ND | 0.37 | 0.18\|0.18 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.37 | 0.18\|0.18 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.37 | 0.18\|0.18 |
| ENDRIN KETONE | (ND)\|ND | 0.37 | 0.18\|0.18 |
| METHOXYCHLOR | 1.8J\|(ND) | 1.8 | 0.91\|0.91 |
| MIREX | (ND)\|ND | 0.37 | 0.18\|0.18 |
| TOXAPHENE | (ND)\|ND | 7.1 | 3.6\|3.6 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.7 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.460\|(5.158) | 5.741 | 77.7\|(89.8) | 50-130 |
| DECACHLOROBIPHENYL | 3.152\|(3.441) | 5.741 | 54.9\|(59.9) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/26/12 |
| Batch No. : 12D192 | Date Extracted: 04/26/12 14:50 |
| Sample ID: MBLK1S | Date Analyzed: 05/01/12 18:35 |
| Lab Samp ID: CPD062SB | Dilution Factor: 1 |
| Lab File ID: LE01009A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : NA |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| BETA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DELTA-BHC | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ALDRIN | (ND)\|ND | 0.17 | 0.085\|0.085 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.17 | 0.085\|0.085 |
| ENDOSULFAN I | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 4,4'-DDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| DIELDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDD | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN II | (ND)\|ND | 0.34 | 0.17\|0.17 |
| 4,4'-DDT | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| ENDRIN KETONE | (ND)\|ND | 0.34 | 0.17\|0.17 |
| METHOXYCHLOR | (ND)\|5.1 | 1.7 | 0.85\|0.85 |
| MIREX | (ND)\|ND | 0.34 | 0.17\|0.17 |
| TOXAPHENE | (ND)\|ND | 6.6 | 3.3\|3.3 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.4 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (4.309)\|4.270 | 5.333 | (80.8)\|80.1 | 50-130 |
| DECACHLOROBIPHENYL | (4.633)\|4.523 | 5.333 | (86.9)\|84.8 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPD062SB CPD062SL CPD062SC
LAB FILE ID: LE01009A LE01010A LE01011A
DATE EXTRACTED: 04/26/1214:50 04/26/1214:50 04/26/1214:50 DATE COLLECTED: NA
DATE ANALYZED: 05/01/1218:35 05/01/1218:57 05/01/1219:18 DATE RECEIVED: 04/26/12
PREP. BATCH: CPD062S CPD062S CPD062S
CALIB. REF: LE01005A LE01005A LE01005A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 2.67 | 2.25\|(2.29) | 84\|(86) | 2.67 | 2.37\|(2.41) | 89\|(90) | 5\|(5) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|ND | 2.67 | (2.28)\|2.27 | (85)\|85 | 2.67 | (2.39)\|2.37 | (90)\|89 | (5)\|4 | 40-130 | 50 |
| beta-BHC | (ND)\|ND | 2.67 | (2.65)\|2.30 | (99)\|86 | 2.67 | (2.72)\|2.41 | (102)\|90 | (3)\|5 | 50-140 | 50 |
| Heptachlor | (ND)\|ND | 2.67 | (2.37)\|2.23 | (89)\|84 | 2.67 | (2.43)\|2.34 | (91)\|88 | (3)\|5 | 30-130 | 50 |
| delta-BHC | (ND)\|ND | 2.67 | (2.70)\|2.50 | (101)\|94 | 2.67 | (2.81)\|2.60 | (105)\|97 | (4)\|4 | 30-150 | 50 |
| Aldrin | (ND)\|ND | 2.67 | (2.38)\|2.23 | (89)\|84 | 2.67 | (2.37)\|2.32 | (89)\|87 | (0)\|4 | 30-130 | 50 |
| Heptachlor Epoxide | (ND)\|ND | 2.67 | 2.21\|(2.42) | 83\|(91) | 2.67 | 2.28\|(2.54) | 85\|(95) | 3\|(5) | 60-140 | 50 |
| Endosulfan I | (ND)\|ND | 2.67 | 1.96\|(2.10) | 73\|(79) | 2.67 | 1.93\|(2.15) | 72\|(81) | 2\|(2) | 50-150 | 50 |
| 4,4'-DDE | (ND)\|ND | 2.67 | (2.42)\|2.22 | (91)\|83 | 2.67 | (2.46)\|2.30 | (92)\|86 | (2)\|4 | 50-150 | 50 |
| Dieldrin | (ND)\|ND | 2.67 | (2.44)\|2.11 | (91)\|79 | 2.67 | (2.51)\|2.19 | (94)\|82 | (3)\|4 | 60-130 | 50 |
| Endrin | (ND)\|ND | 2.67 | (2.36)\|2.26 | (88)\|85 | 2.67 | (2.43)\|2.28 | (91)\|85 | (3)\|1 | 50-140 | 50 |
| 4,4'-DDD | (ND)\|ND | 2.67 | (2.32)\|2.08 | (87)\|78 | 2.67 | (2.40)\|2.10 | (90)\|79 | (3)\|1 | 50-160 | 50 |
| Endosulfan II | (ND)\|ND | 2.67 | (2.47)\|2.33 | (93)\|87 | 2.67 | (2.51)\|2.36 | (94)\|88 | (2)\|1 | 60-150 | 50 |
| 4,4'-DDT | (ND)\|ND | 2.67 | (2.75)\|2.24 | (103)\|84 | 2.67 | (2.82)\|2.34 | (106)\|88 | (3)\|4 | 60-140 | 50 |
| Endrin aldehyde | (ND)\|ND | 2.67 | (2.38)\|2.22 | (89)\|83 | 2.67 | (2.35)\|2.21 | (88)\|83 | (1)\|0 | 50-160 | 50 |
| Endosulfan Sulfate | (ND)\|ND | 2.67 | (2.52)\|2.40 | (94)\|90 | 2.67 | (2.52)\|2.44 | (94)\|91 | (0)\|2 | 70-140 | 50 |
| Endrin Ketone | (ND)\|ND | 2.67 | (2.42)\|2.24 | (91)\|84 | 2.67 | (2.45)\|2.30 | (92)\|86 | (1)\|3 | 70-160 | 50 |
| Methoxychlor | (ND)\|5.1 | 26.7 | (23.3)\|21.2 | (87)\|79 | 26.7 | (23.6)\|21.6 | (88)\|81 | (1)\|2 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | (4.235)\|4.211 | (79.4)\|79.0 | 5.333 | (4.565)\|4.537 | (85.6)\|85.1 | 50-130 |
| Decachlorobiphenyl | 5.333 | (4.590)\|4.455 | (86.1)\|83.5 | 5.333 | (4.663)\|4.608 | (87.4)\|86.4 | 20-120 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/26/12 12:35 |
| Sample ID: SL-016-NBZ-SS-0.0-0.5 | Date Analyzed: 05/15/12 13:03 |
| Lab Samp ID: D192-01 | Dilution Factor: 1 |
| Lab File ID: KE14033A | Matrix : SOIL |
| Ext Btch ID: CPD061S | % Moisture : 20.7 |
| Calib. Ref.: KE14030A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1221 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1232 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1242 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1248 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1254 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1260 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1262 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 1268 | (ND)\|ND | 2.1 | 1.1\|1.1 |
| AROCLOR 5432 | (ND)\|ND | 4.2 | 2.1\|2.1 |
| AROCLOR 5442 | (ND)\|ND | 4.2 | 2.1\|2.1 |
| AROCLOR 5460 | (5.3)\|4.8 | 4.2 | 2.1\|2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.844)\|3.887 | 6.725 | (86.9)\|57.8 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.538)\|3.506 | 6.725 | (82.3)\|52.1 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/26/12 12:35 |
| Sample ID: SL-018-NBZ-SS-0.0-0.5 | Date Analyzed: 05/15/12 13:56 |
| Lab Samp ID: D192-02 | Dilution Factor: 1 |
| Lab File ID: KE14034A | Matrix : SOIL |
| Ext Btch ID: CPD061S | % Moisture : 17.6 |
| Calib. Ref.: KE14030A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 4.0 | 2.1\|2.1 |
| AROCLOR 5442 | (ND)\|ND | 4.0 | 2.1\|2.1 |
| AROCLOR 5460 | (ND)\|ND | 4.0 | 2.1\|2.1 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.767)\|4.508 | 6.472 | (105)\|69.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.590)\|4.247 | 6.472 | (102)\|65.6 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/26/12 12:35 |
| Sample ID: SL-080-NBZ-SS-0.0-0.5 | Date Analyzed: 05/15/12 14:49 |
| Lab Samp ID: D192-03 | Dilution Factor: 1 |
| Lab File ID: KE14035A | Matrix : SOIL |
| Ext Btch ID: CPD061S | % Moisture : 14.0 |
| Calib. Ref.: KE14030A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 0.99\|0.99 |
| AROCLOR 5432 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.8 | 2.0\|2.0 |
| AROCLOR 5460 | (3.8J)\|3.3J | 3.8 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.436)\|4.165 | 6.201 | (104)\|67.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.554)\|4.394 | 6.201 | (106)\|70.9 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/26/12 12:35 |
| Sample ID: SL-089-NBZ-SS-0.0-0.5 | Date Analyzed: 05/15/12 15:42 |
| Lab Samp ID: D192-04 | Dilution Factor: 1 |
| Lab File ID: KE14036A | Matrix : SOIL |
| Ext Btch ID: CPD061S | % Moisture : 11.6 |
| Calib. Ref.: KE14030A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.96\|0.96 |
| AROCLOR 5432 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.7 | 1.9\|1.9 |
| AROCLOR 5460 | 3.2J\|(3.6J) | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.369)\|4.100 | 6.033 | (106)\|68.0 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.943)\|3.931 | 6.033 | (115)\|65.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/26/12 12:35 |
| Sample ID: SL-170-NBZ-SS-0.0-0.5 | Date Analyzed: 05/15/12 16:36 |
| Lab Samp ID: D192-05 | Dilution Factor: 1 |
| Lab File ID: KE14037A | Matrix : SOIL |
| Ext Btch ID: CPD061S | % Moisture : 8.8 |
| Calib. Ref.: KE14030A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.413)\|4.105 | 5.848 | (110)\|70.2 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.023)\|3.941 | 5.848 | (103)\|67.4 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/26/12 12:35 |
| Sample ID: SL-171-NBZ-SS-0.0-0.5 | Date Analyzed: 05/15/12 17:29 |
| Lab Samp ID: D192-06 | Dilution Factor: 1 |
| Lab File ID: KE14038A | Matrix : SOIL |
| Ext Btch ID: CPD061S | % Moisture : 8.3 |
| Calib. Ref.: KE14030A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | 3.5J\|(3.7) | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 7.352\|(4.654) | 5.816 | 126*\|(80.0) | 45-120 |
| TETRACHLORO-M-XYLENE | (7.176)\|4.730 | 5.816 | (123)\|81.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/26/12 12:35 |
| Sample ID: SL-202-NBZ-SS-0.0-0.5 | Date Analyzed: 05/15/12 18:22 |
| Lab Samp ID: D192-07 | Dilution Factor: 1 |
| Lab File ID: KE14039A | Matrix : SOIL |
| Ext Btch ID: CPD061S | % Moisture : 7.1 |
| Calib. Ref.: KE14030A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.91\|0.91 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.175)\|4.071 | 5.741 | (108)\|70.9 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.860)\|3.571 | 5.741 | (102)\|62.2 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/26/12 |
| Batch No. : 12D192 | Date Extracted: 04/26/12 12:35 |
| Sample ID: MBLK1S | Date Analyzed: 05/15/12 05:14 |
| Lab Samp ID: 60D061SB | Dilution Factor: 1 |
| Lab File ID: KE14024A | Matrix : SOIL |
| Ext Btch ID: CPD061S | % Moisture : NA |
| Calib. Ref.: KE14017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.064)\|4.146 | 5.333 | (114)\|77.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (4.907)\|3.912 | 5.333 | (92.0)\|73.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: 60D061SB 60D061SL 60D061SC
LAB FILE ID: KE14024A KE14025A KE14026A
DATE EXTRACTED: 04/26/1212:35 04/26/1212:35 04/26/1212:35 DATE COLLECTED: NA
DATE ANALYZED: 05/15/1205:14 05/15/1206:07 05/15/1207:00 DATE RECEIVED: 04/26/12
PREP. BATCH: CPD061S CPD061S CPD061S
CALIB. REF: KE14017A KE14017A KE14017A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (56.2)\|44.2 | (84)\|66 | 66.7 | (56.5)\|44.1 | (85)\|66 | (1)\|0 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (79.3)\|54.5 | (119)\|82 | 66.7 | (81.2)\|55.4 | (122)\|83 | (2)\|2 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 33.3 | 39.9\|(40.8) | 120\|(123) | 33.3 | 40.1\|(41.2) | 120\|(124) | 0\|(1) | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | (5.559)\|3.850 | (104)\|72.2 | 5.333 | (5.872)\|4.050 | (110)\|76.0 | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (4.528)\|3.646 | (84.9)\|68.4 | 5.333 | (4.505)\|3.688 | (84.5)\|69.2 | 10-160 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 7.1

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-202-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D192-07 | D192-07M | D192-07S | | |
| LAB FILE ID: | KE14039A | KE14040A | KE14041A | | |
| DATE EXTRACTED: | 04/26/1212:35 | 04/26/1212:35 | 04/26/1212:35 | DATE COLLECTED: | 04/20/12 |
| DATE ANALYZED: | 05/15/1218:22 | 05/15/1219:15 | 05/15/1220:08 | DATE RECEIVED: | 04/20/12 |
| PREP. BATCH: | CPD061S | CPD061S | CPD061S | | |
| CALIB. REF: | KE14030A | KE14030A | KE14030A | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 71.8 | (59.8)\|42.3 | (83)\|59 | 71.8 | (60.6)\|40.3 | (84)\|56 | (1)\|5 | 20-160 | 50 |
| Aroclor 1260 | (ND)\|ND | 71.8 | (85.2)\|55.6 | (119)\|77 | 71.8 | (83.2)\|54.0 | (116)\|75 | (2)\|3 | 20-160 | 50 |
| Aroclor 5460 | (ND)\|ND | 35.9 | 40.6\|(41.3) | 113\|(115) | 35.9 | 41.6\|(43.2) | 116\|(120) | 2\|(4) | 20-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.741 | (6.163)\|4.091 | (107)\|71.3 | 5.741 | (6.155)\|4.061 | (107)\|70.7 | 45-120 |
| Tetrachloro-m-xylene | 5.741 | (5.502)\|3.724 | (95.8)\|64.9 | 5.741 | (5.388)\|3.481 | (93.9)\|60.6 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/25/12 16:57 |
| Sample ID: SL-016-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 20:01 |
| Lab Samp ID: D192-01 | Dilution Factor: 1 |
| Lab File ID: WD26021A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : 20.7 |
| Calib. Ref.: WD26020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.5 | 2.3\|2.3 |
| 2,4-DB | (ND)\|ND | 2.1 | 1.1\|1.1 |
| 2,4,5-T | 0.19J\|(ND) | 0.21 | 0.11\|0.11 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.21 | 0.11\|0.11 |
| DALAPON | (ND)\|ND | 11 | 5.7\|5.7 |
| DICAMBA | (ND)\|ND | 1.5 | 0.76\|0.76 |
| DICHLOROPROP | (ND)\|ND | 3.0 | 1.5\|1.5 |
| DINOSEB | (ND)\|ND | 2.1 | 1.1\|1.1 |
| MCPA | (ND)\|ND | 320 | 160\|160 |
| MCPP | (ND)\|ND | 320 | 160\|160 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (235.4)\|180.0 | 189.2 | (124)\|95.2 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/25/12 16:57 |
| Sample ID: SL-018-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 20:23 |
| Lab Samp ID: D192-02 | Dilution Factor: 1 |
| Lab File ID: WD26022A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : 17.6 |
| Calib. Ref.: WD26020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.4 | 2.2\|2.2 |
| 2,4-DB | (ND)\|ND | 2.1 | 1.0\|1.0 |
| 2,4,5-T | (ND)\|ND | 0.21 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | 0.21\|(ND) | 0.21 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.5\|5.5 |
| DICAMBA | (ND)\|ND | 1.5 | 0.73\|0.73 |
| DICHLOROPROP | (ND)\|ND | 2.9 | 1.5\|1.5 |
| DINOSEB | (ND)\|ND | 2.1 | 1.0\|1.0 |
| MCPA | (ND)\|ND | 300 | 150\|150 |
| MCPP | (ND)\|ND | 300 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (228.2)\|192.1 | 182.0 | (125)\|106 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/25/12 16:57 |
| Sample ID: SL-080-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 20:45 |
| Lab Samp ID: D192-03 | Dilution Factor: 1 |
| Lab File ID: WD26023A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : 14.0 |
| Calib. Ref.: WD26020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 0.99\|0.99 |
| 2,4,5-T | 0.96\|(ND) | 0.20 | 0.099\|0.099 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.099\|0.099 |
| DALAPON | (ND)\|ND | 10 | 5.2\|5.2 |
| DICAMBA | (ND)\|ND | 1.4 | 0.70\|0.70 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 0.99\|0.99 |
| MCPA | (ND)\|ND | 290 | 150\|150 |
| MCPP | (ND)\|ND | 290 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (227.8)\|201.3 | 174.4 | (131)\|115 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/25/12 16:57 |
| Sample ID: SL-089-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 21:08 |
| Lab Samp ID: D192-04 | Dilution Factor: 1 |
| Lab File ID: WD26024A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : 11.6 |
| Calib. Ref.: WD26020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.1 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| 2,4,5-T | 2.0\|(ND) | 0.19 | 0.096\|0.096 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.19 | 0.096\|0.096 |
| DALAPON | (ND)\|ND | 10 | 5.1\|5.1 |
| DICAMBA | (ND)\|ND | 1.4 | 0.68\|0.68 |
| DICHLOROPROP | (ND)\|ND | 2.7 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 1.9 | 0.96\|0.96 |
| MCPA | (ND)\|ND | 280 | 140\|140 |
| MCPP | (ND)\|ND | 280 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (236.7)\|171.5 | 169.7 | (139)\|101 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/20/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/20/12 |
| Batch No. | : 12D192 | Date Extracted | : 04/25/12 16:57 |
| Sample ID | : SL-170-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/26/12 21:30 |
| Lab Samp ID | : D192-05 | Dilution Factor | : 1 |
| Lab File ID | : WD26025A | Matrix | : SOIL |
| Ext Btch ID | : HED014S | % Moisture | : 8.8 |
| Calib. Ref. | : WD26020A | Instrument ID | : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND) \| ND | 3.9 | 2.0 \| 2.0 |
| 2,4-DB | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| 2,4,5-T | 0.47 \| (ND) | 0.19 | 0.093 \| 0.093 |
| 2,4,5-TP(SILVEX) | (ND) \| ND | 0.19 | 0.093 \| 0.093 |
| DALAPON | (ND) \| ND | 9.9 | 4.9 \| 4.9 |
| DICAMBA | (ND) \| ND | 1.3 | 0.66 \| 0.66 |
| DICHLOROPROP | (ND) \| ND | 2.6 | 1.3 \| 1.3 |
| DINOSEB | (ND) \| ND | 1.9 | 0.93 \| 0.93 |
| MCPA | 210J \| (ND) | 270 | 140 \| 140 |
| MCPP | (ND) \| ND | 270 | 140 \| 140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (209.7) \| 167.9 | 164.5 | (127) \| 102 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/25/12 16:57 |
| Sample ID: SL-171-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 21:53 |
| Lab Samp ID: D192-06 | Dilution Factor: 1 |
| Lab File ID: WD26026A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : 8.3 |
| Calib. Ref.: WD26020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| 2,4,5-T | 0.70\|(ND) | 0.19 | 0.093\|0.093 |
| 2,4,5-TP(SILVEX) | 0.24\|(ND) | 0.19 | 0.093\|0.093 |
| DALAPON | (ND)\|ND | 9.8 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.65\|0.65 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|3.2 | 1.9 | 0.93\|0.93 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | 246.8\|(173.8) | 163.6 | 151*\|(106) | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/25/12 16:57 |
| Sample ID: SL-202-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 22:15 |
| Lab Samp ID: D192-07 | Dilution Factor: 1 |
| Lab File ID: WD26027A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : 7.1 |
| Calib. Ref.: WD26020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 1.9\|1.9 |
| 2,4-DB | (ND)\|ND | 1.8 | 0.91\|0.91 |
| 2,4,5-T | 0.098J\|(ND) | 0.18 | 0.091\|0.091 |
| 2,4,5-TP(SILVEX) | 0.24\|(ND) | 0.18 | 0.091\|0.091 |
| DALAPON | (ND)\|ND | 9.7 | 4.8\|4.8 |
| DICAMBA | (ND)\|ND | 1.3 | 0.65\|0.65 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.8 | 0.91\|0.91 |
| MCPA | (ND)\|ND | 270 | 130\|130 |
| MCPP | 210J\|(ND) | 270 | 130\|130 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (190.3)\|153.8 | 161.5 | (118)\|95.3 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/25/12 |
| Batch No. : 12D192 | Date Extracted: 04/25/12 16:57 |
| Sample ID: MBLK1S | Date Analyzed: 04/26/12 13:18 |
| Lab Samp ID: HED014SB | Dilution Factor: 1 |
| Lab File ID: WD26003A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : NA |
| Calib. Ref.: WD26002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (179.0)\|149.5 | 150.0 | (119)\|99.7 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: METHOD 8151A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HED014SB | HED014SL | HED014SC | | |
| LAB FILE ID: | WD26003A | WD26004A | WD26005A | | |
| DATE EXTRACTED: | 04/25/1216:57 | 04/25/1216:57 | 04/25/1216:57 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/26/1213:18 | 04/26/1213:40 | 04/26/1214:03 | DATE RECEIVED: | 04/25/12 |
| PREP. BATCH: | HED014S | HED014S | HED014S | | |
| CALIB. REF: | WD26002A | WD26002A | WD26002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | 11.7\|(11.8) | 78\|(79) | 15.0 | (13.4)\|13.2 | (89)\|88 | (14)\|11 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 10.3\|(15.9) | 69\|(106) | 15.0 | 11.3\|(18.7) | 75\|(125) | 9\|(16) | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | (11.9)\|10.8 | (79)\|72 | 15.0 | (13.5)\|12.5 | (90)\|83 | (13)\|15 | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 15.0 | 10.8\|(11.1) | 72\|(74) | 15.0 | 12.6\|(12.9) | 84\|(86) | 15\|(15) | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | 6.84J\|(8.27J) | 46\|(55) | 15.0 | 6.68J\|(8.22J) | 45\|(55) | 2\|(1) | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (12.7)\|10.9 | (85)\|73 | 15.0 | (13.9)\|12.0 | (93)\|80 | (9)\|10 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | 13.3\|(13.9) | 89\|(93) | 15.0 | 14.8\|(15.3) | 99\|(102) | 11\|(10) | 60-160 | 50 |
| Dinoseb | (ND)\|ND | 15.0 | (9.51)\|8.68 | (63)\|58 | 15.0 | (10.0)\|8.59 | (67)\|57 | (5)\|1 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (700)\|636 | (93)\|85 | 750 | (754)\|694 | (101)\|93 | (7)\|9 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | (724)\|514 | (97)\|69 | 750 | (721)\|569 | (96)\|76 | (0)\|10 | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 (147.1)\|127.7 | (98.1)\|85.1 | 150.0 | (154.4)\|137.5 | (103)\|91.6 | 10-150 | |

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-016-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 05:50 |
| Lab Samp ID: D192-01 | Dilution Factor: .99 |
| Lab File ID: XD25030A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25023A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 99 | 50 |
| RDX | ND | 99 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 99 | 50 |
| 1,3-DINITROBENZENE | ND | 99 | 50 |
| TETRYL | ND | 99 | 50 |
| NITROBENZENE | ND | 99 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 99 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,6-DINITROTOLUENE | ND | 99 | 50 |
| 2,4-DINITROTOLUENE | ND | 99 | 50 |
| 2-NITROTOLUENE | ND | 99 | 50 |
| 3-NITROTOLUENE | ND | 99 | 50 |
| 4-NITROTOLUENE | ND | 99 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 99 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 99 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1920 | 1980 | 96.8 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-018-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 06:24 |
| Lab Samp ID: D192-02 | Dilution Factor: 1 |
| Lab File ID: XD25031A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25023A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1890 | 2000 | 94.3 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-080-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 06:58 |
| Lab Samp ID: D192-03 | Dilution Factor: 1 |
| Lab File ID: XD25032A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25023A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1860 | 2000 | 92.9 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| Batch No. : 12D192 | Date Extracted: 04/24/12 18:47 |
| Sample ID: SL-089-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 07:32 |
| Lab Samp ID: D192-04 | Dilution Factor: 1 |
| Lab File ID: XD25033A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25023A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1920 | 2000 | 95.8 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A
EXPLOSIVES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/24/12 |
| Batch No. : 12D192 | Date Extracted: 04/24/12 18:47 |
| Sample ID: MBLK1S | Date Analyzed: 04/25/12 17:55 |
| Lab Samp ID: EXD018SB | Dilution Factor: 1 |
| Lab File ID: XD25009A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: XD25003A | Instrument ID : T-081 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| HMX | ND | 100 | 50 |
| RDX | ND | 100 | 50 |
| 1,3,5-TRINITROBENZENE | ND | 100 | 50 |
| 1,3-DINITROBENZENE | ND | 100 | 50 |
| TETRYL | ND | 100 | 50 |
| NITROBENZENE | ND | 100 | 50 |
| 2,4,6-TRINITROTOLUENE | ND | 100 | 50 |
| 4-AMINO-2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2-AMINO-4,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,6-DINITROTOLUENE | ND | 100 | 50 |
| 2,4-DINITROTOLUENE | ND | 100 | 50 |
| 2-NITROTOLUENE | ND | 100 | 50 |
| 3-NITROTOLUENE | ND | 100 | 50 |
| 4-NITROTOLUENE | ND | 100 | 50 |
| 2,4-DIAMINO-6-NITROTOLUENE | ND | 200 | 100 |
| 2,6-DIAMINO-4-NITROTOLUENE | ND | 200 | 100 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 1950 | 2000 | 97.6 | 65-135 |

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: METHOD 8330A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD018SB | EXD018SL | EXD018SC | | |
| LAB FILE ID: | XD25009A | XD25010A | XD25011A | | |
| DATE EXTRACTED: | 04/24/1218:47 | 04/24/1218:47 | 04/24/1218:47 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1217:55 | 04/25/1218:29 | 04/25/1219:03 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | EXD018S | EXD018S | EXD018S | | |
| CALIB. REF: | XD25003A | XD25003A | XD25003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| HMX | ND | 2000 | 2010 | 100 | 2000 | 1960 | 98 | 3 | 70-130 | 50 |
| RDX | ND | 2000 | 2050 | 102 | 2000 | 2100 | 105 | 2 | 70-130 | 50 |
| 1,3,5-Trinitrobenzene | ND | 2000 | 2260 | 113 | 2000 | 2250 | 112 | 1 | 70-130 | 50 |
| 1,3-Dinitrobenzene | ND | 2000 | 2140 | 107 | 2000 | 2190 | 109 | 2 | 70-130 | 50 |
| Tetryl | ND | 2000 | 1790 | 90 | 2000 | 1880 | 94 | 5 | 70-130 | 50 |
| Nitrobenzene | ND | 2000 | 2140 | 107 | 2000 | 2270 | 114 | 6 | 70-140 | 50 |
| 2,4,6-Trinitrotoluene | ND | 2000 | 1830 | 91 | 2000 | 1770 | 89 | 3 | 70-130 | 50 |
| 4-Amino-2,6-Dinitrotoluene | ND | 2000 | 2030 | 102 | 2000 | 1940 | 97 | 5 | 70-130 | 50 |
| 2-Amino-4,6-Dinitrotoluene | ND | 2000 | 1960 | 98 | 2000 | 1920 | 96 | 2 | 70-130 | 50 |
| 2,6-Dinitrotoluene | ND | 2000 | 2000 | 100 | 2000 | 2130 | 106 | 6 | 70-130 | 50 |
| 2,4-Dinitrotoluene | ND | 2000 | 2130 | 106 | 2000 | 2220 | 111 | 4 | 70-130 | 50 |
| 2-Nitrotoluene | ND | 2000 | 2220 | 111 | 2000 | 2190 | 109 | 1 | 70-130 | 50 |
| 3-Nitrotoluene | ND | 2000 | 1920 | 96 | 2000 | 1960 | 98 | 2 | 70-130 | 50 |
| 4-Nitrotoluene | ND | 2000 | 2010 | 101 | 2000 | 1810 | 90 | 11 | 70-140 | 50 |
| 2,4-Diamino-6-nitrotoluene | ND | 2000 | 1890 | 95 | 2000 | 1980 | 99 | 5 | 30-150 | 50 |
| 2,6-Diamino-4-nitrotoluene | ND | 2000 | 2070 | 104 | 2000 | 2140 | 107 | 4 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 1930 | 96 | 2000 | 1960 | 98 | 65-135 |

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/20/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/20/12 |
| Batch No. | : 12D192 | Date Extracted | : 04/24/12 18:47 |
| Sample ID | : SL-016-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/26/12 11:22 |
| Lab Samp ID | : D192-01 | Dilution Factor | : .99 |
| Lab File ID | : PD25038A | Matrix | : SOIL |
| Ext Btch ID | : EXD018S | % Moisture | : NA |
| Calib. Ref. | : PD25028A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 990 | 490 |
| PETN | ND | 990 | 490 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2550 | 1980 | 129 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/20/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/20/12 |
| Batch No. | : 12D192 | Date Extracted | : 04/24/12 18:47 |
| Sample ID | : SL-018-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/26/12 11:36 |
| Lab Samp ID | : D192-02 | Dilution Factor | : 1 |
| Lab File ID | : PD25039A | Matrix | : SOIL |
| Ext Btch ID | : EXD018S | % Moisture | : NA |
| Calib. Ref. | : PD25028A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2550 | 2000 | 127 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/20/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/20/12 |
| Batch No. | : 12D192 | Date Extracted | : 04/24/12 18:47 |
| Sample ID | : SL-080-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/26/12 11:50 |
| Lab Samp ID | : D192-03 | Dilution Factor | : 1 |
| Lab File ID | : PD25040A | Matrix | : SOIL |
| Ext Btch ID | : EXD018S | % Moisture | : NA |
| Calib. Ref. | : PD25028A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2670 | 2000 | 133 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/20/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/20/12 |
| Batch No. | : 12D192 | Date Extracted | : 04/24/12 18:47 |
| Sample ID | : SL-089-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/26/12 12:04 |
| Lab Samp ID | : D192-04 | Dilution Factor | : 1 |
| Lab File ID | : PD25041A | Matrix | : SOIL |
| Ext Btch ID | : EXD018S | % Moisture | : NA |
| Calib. Ref. | : PD25028A | Instrument ID | : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2570 | 2000 | 129 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332
Nitroglycerin and PETN

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/24/12 |
| Batch No. : 12D192 | Date Extracted: 04/24/12 18:47 |
| Sample ID: MBLK1S | Date Analyzed: 04/25/12 17:44 |
| Lab Samp ID: EXD018SB | Dilution Factor: 1 |
| Lab File ID: PD25014A | Matrix : SOIL |
| Ext Btch ID: EXD018S | % Moisture : NA |
| Calib. Ref.: PD25005A | Instrument ID : T-017 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| NITROGLYCERIN | ND | 1000 | 500 |
| PETN | ND | 1000 | 500 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 1,2-DINITROBENZENE | 2490 | 2000 | 125 | 65-135 |

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: Method 8332

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | EXD018SB | EXD018SX | EXD018SY | | |
| LAB FILE ID: | PD25014A | PD25015A | PD25016A | | |
| DATE EXTRACTED: | 04/24/1218:47 | 04/24/1218:47 | 04/24/1218:47 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1217:44 | 04/25/1217:58 | 04/25/1218:12 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | EXD018S | EXD018S | EXD018S | | |
| CALIB. REF: | PD25005A | PD25005A | PD25005A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitroglycerin | ND | 7500 | 7920 | 106 | 7500 | 7970 | 106 | 1 | 50-150 | 50 |
| PETN | ND | 7500 | 7670 | 102 | 7500 | 7500 | 100 | 2 | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | 2000 | 2380 | 119 | 2000 | 2400 | 120 | 65-135 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| SDG NO. : 12D192 | Date Extracted: 04/26/12 10:12 |
| Sample ID: SL-016-NBZ-SS-0.0-0.5 | Date Analyzed: 04/30/12 19:58 # 05/01/12 18:06 |
| Lab Samp ID: D192-01 #D192-01W | Dilution Factor: 0.985 |
| Lab File ID: 98D21094 #98E01038 | Matrix : SOIL |
| Ext Btch ID: IMD040S | % Moisture : 20.7 |
| Calib. Ref.: 98D21085 #98E01029 | Instrument ID : T-I98 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 9960 | 29.8 | 14.9 |
| | Antimony | 0.252 | 0.248 | 0.124 |
| | Arsenic | 3.78 | 0.497 | 0.248 |
| | Barium | 93.3 | 0.497 | 0.248 |
| | Beryllium | 0.427 | 0.124 | 0.0621 |
| | Boron | 8.01 | 6.21 | 3.11 |
| | Cadmium | 0.235 | 0.124 | 0.0621 |
| | Calcium | 7980 | 24.8 | 12.4 |
| | Chromium | 16.2 | 0.497 | 0.248 |
| | Cobalt | 5.33 | 0.124 | 0.0621 |
| | Copper | 8.47 | 0.497 | 0.248 |
| | Iron | 18400 | 24.8 | 12.4 |
| | Lead | 15.7 | 0.248 | 0.124 |
| | Magnesium | 5400 | 12.4 | 6.21 |
| | Manganese | 302 | 0.621 | 0.311 |
| | Molybdenum | 0.487 | 0.124 | 0.0621 |
| | Nickel | 11.0 | 0.497 | 0.248 |
| | Potassium | 3190 | 74.5 | 37.3 |
| | Selenium | ND | 0.497 | 0.248 |
| | Silver | 0.0730J | 0.124 | 0.0621 |
| | Sodium | 107J | 124 | 62.1 |
| # | Strontium | 20.7 | 0.621 | 0.311 |
| | Thallium | 0.222 | 0.124 | 0.0621 |
| | Tin | ND | 12.4 | 6.21 |
| | Titanium | 904 | 1.24 | 0.621 |
| | Vanadium | 32.8 | 0.124 | 0.0621 |
| | Zinc | 63.1 | 3.73 | 1.86 |
| | Lithium | 25.4 | 2.48 | 1.24 |
| | Phosphorus | 415 | 14.9 | 7.45 |
| | Zirconium | ND | 6.21 | 3.11 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| SDG NO. : 12D192 | Date Extracted: 04/26/12 10:12 |
| Sample ID: SL-018-NBZ-SS-0.0-0.5 | Date Analyzed: 04/30/12 20:16 # 05/01/12 18:11 |
| Lab Samp ID: D192-02 #D192-02W | Dilution Factor: 0.976 |
| Lab File ID: 98D21098 #98E01039 | Matrix : SOIL |
| Ext Btch ID: IMD040S | % Moisture : 17.6 |
| Calib. Ref.: 98D21096 #98E01029 | Instrument ID : T-I98 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 7630 | 28.4 | 14.2 |
| | Antimony | 0.240 | 0.237 | 0.118 |
| | Arsenic | 2.91 | 0.474 | 0.237 |
| | Barium | 69.5 | 0.474 | 0.237 |
| | Beryllium | 0.331 | 0.118 | 0.0592 |
| | Boron | 3.46J | 5.92 | 2.96 |
| | Cadmium | 0.197 | 0.118 | 0.0592 |
| | Calcium | 4700 | 23.7 | 11.8 |
| | Chromium | 11.9 | 0.474 | 0.237 |
| | Cobalt | 4.52 | 0.118 | 0.0592 |
| | Copper | 7.83 | 0.474 | 0.237 |
| | Iron | 15800 | 23.7 | 11.8 |
| | Lead | 10.5 | 0.237 | 0.118 |
| | Magnesium | 4140 | 11.8 | 5.92 |
| | Manganese | 258 | 0.592 | 0.296 |
| | Molybdenum | 0.439 | 0.118 | 0.0592 |
| | Nickel | 8.38 | 0.474 | 0.237 |
| | Potassium | 2520 | 71.1 | 35.5 |
| | Selenium | ND | 0.474 | 0.237 |
| | Silver | 0.192 | 0.118 | 0.0592 |
| | Sodium | 69.3J | 118 | 59.2 |
| # | Strontium | 11.8 | 0.592 | 0.296 |
| | Thallium | 0.173 | 0.118 | 0.0592 |
| | Tin | ND | 11.8 | 5.92 |
| | Titanium | 804 | 1.18 | 0.592 |
| | Vanadium | 27.1 | 0.118 | 0.0592 |
| | Zinc | 55.9 | 3.55 | 1.78 |
| | Lithium | 18.7 | 2.37 | 1.18 |
| | Phosphorus | 379 | 14.2 | 7.11 |
| | Zirconium | ND | 5.92 | 2.96 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| SDG NO. : 12D192 | Date Extracted: 04/26/12 10:12 |
| Sample ID: SL-080-NBZ-SS-0.0-0.5 | Date Analyzed: 04/30/12 20:20 # 05/01/12 18:29 |
| Lab Samp ID: D192-03 #D192-03W | Dilution Factor: 0.985 |
| Lab File ID: 98D21099 #98E01043 | Matrix : SOIL |
| Ext Btch ID: IMD040S | % Moisture : 14.0 |
| Calib. Ref.: 98D21096 #98E01041 | Instrument ID : T-I98 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 8740 | 27.5 | 13.7 |
| | Antimony | 0.192J | 0.229 | 0.115 |
| | Arsenic | 2.86 | 0.458 | 0.229 |
| | Barium | 70.3 | 0.458 | 0.229 |
| | Beryllium | 0.358 | 0.115 | 0.0573 |
| | Boron | 2.95J | 5.73 | 2.86 |
| | Cadmium | 0.185 | 0.115 | 0.0573 |
| | Calcium | 3700 | 22.9 | 11.5 |
| | Chromium | 13.0 | 0.458 | 0.229 |
| | Cobalt | 4.28 | 0.115 | 0.0573 |
| | Copper | 5.94 | 0.458 | 0.229 |
| | Iron | 16500 | 22.9 | 11.5 |
| | Lead | 9.40 | 0.229 | 0.115 |
| | Magnesium | 4720 | 11.5 | 5.73 |
| | Manganese | 234 | 0.573 | 0.286 |
| | Molybdenum | 0.391 | 0.115 | 0.0573 |
| | Nickel | 8.20 | 0.458 | 0.229 |
| | Potassium | 2880 | 68.7 | 34.4 |
| | Selenium | ND | 0.458 | 0.229 |
| | Silver | ND | 0.115 | 0.0573 |
| | Sodium | 59.0J | 115 | 57.3 |
| # | Strontium | 15.6 | 0.573 | 0.286 |
| | Thallium | 0.187 | 0.115 | 0.0573 |
| | Tin | ND | 11.5 | 5.73 |
| | Titanium | 857 | 1.15 | 0.573 |
| | Vanadium | 30.8 | 0.115 | 0.0573 |
| | Zinc | 50.2 | 3.44 | 1.72 |
| | Lithium | 19.3 | 2.29 | 1.15 |
| | Phosphorus | 377 | 13.7 | 6.87 |
| | Zirconium | ND | 5.73 | 2.86 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| SDG NO. : 12D192 | Date Extracted: 04/26/12 10:12 |
| Sample ID: SL-089-NBZ-SS-0.0-0.5 | Date Analyzed: 04/30/12 20:25 # 05/01/12 18:34 |
| Lab Samp ID: D192-04 #D192-04W | Dilution Factor: 0.990 |
| Lab File ID: 98D21100 #98E01044 | Matrix : SOIL |
| Ext Btch ID: IMD040S | % Moisture : 11.6 |
| Calib. Ref.: 98D21096 #98E01041 | Instrument ID : T-I98 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 8870 | 26.9 | 13.4 |
| | Antimony | 0.254 | 0.224 | 0.112 |
| | Arsenic | 3.66 | 0.448 | 0.224 |
| | Barium | 76.6 | 0.448 | 0.224 |
| | Beryllium | 0.345 | 0.112 | 0.0560 |
| | Boron | 3.38J | 5.60 | 2.80 |
| | Cadmium | 0.217 | 0.112 | 0.0560 |
| | Calcium | 5130 | 22.4 | 11.2 |
| | Chromium | 14.5 | 0.448 | 0.224 |
| | Cobalt | 5.03 | 0.112 | 0.0560 |
| | Copper | 8.21 | 0.448 | 0.224 |
| | Iron | 17700 | 22.4 | 11.2 |
| | Lead | 13.1 | 0.224 | 0.112 |
| | Magnesium | 5420 | 11.2 | 5.60 |
| | Manganese | 268 | 0.560 | 0.280 |
| | Molybdenum | 0.454 | 0.112 | 0.0560 |
| | Nickel | 10.0 | 0.448 | 0.224 |
| | Potassium | 3420 | 67.2 | 33.6 |
| | Selenium | ND | 0.448 | 0.224 |
| | Silver | ND | 0.112 | 0.0560 |
| | Sodium | ND | 112 | 56.0 |
| # | Strontium | 17.2 | 0.560 | 0.280 |
| | Thallium | 0.215 | 0.112 | 0.0560 |
| | Tin | ND | 11.2 | 5.60 |
| | Titanium | 881 | 1.12 | 0.560 |
| | Vanadium | 32.9 | 0.112 | 0.0560 |
| | Zinc | 58.0 | 3.36 | 1.68 |
| | Lithium | 24.4 | 2.24 | 1.12 |
| | Phosphorus | 475 | 13.4 | 6.72 |
| | Zirconium | ND | 5.60 | 2.80 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| SDG NO. : 12D192 | Date Extracted: 04/26/12 10:12 |
| Sample ID: SL-170-NBZ-SS-0.0-0.5 | Date Analyzed: 04/30/12 20:29 # 05/01/12 18:38 |
| Lab Samp ID: D192-05 #D192-05W | Dilution Factor: 1.00 |
| Lab File ID: 98D21101 #98E01045 | Matrix : SOIL |
| Ext Btch ID: IMD040S | % Moisture : 8.8 |
| Calib. Ref.: 98D21096 #98E01041 | Instrument ID : T-I98 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 8370 | 26.3 | 13.2 |
| | Antimony | 0.188J | 0.219 | 0.110 |
| | Arsenic | 2.77 | 0.439 | 0.219 |
| | Barium | 63.0 | 0.439 | 0.219 |
| | Beryllium | 0.354 | 0.110 | 0.0548 |
| | Boron | ND | 5.48 | 2.74 |
| | Cadmium | 0.186 | 0.110 | 0.0548 |
| | Calcium | 1650 | 21.9 | 11.0 |
| | Chromium | 8.50 | 0.439 | 0.219 |
| | Cobalt | 3.57 | 0.110 | 0.0548 |
| | Copper | 4.49 | 0.439 | 0.219 |
| | Iron | 15700 | 21.9 | 11.0 |
| | Lead | 7.49 | 0.219 | 0.110 |
| | Magnesium | 3320 | 11.0 | 5.48 |
| | Manganese | 229 | 0.548 | 0.274 |
| | Molybdenum | 0.313 | 0.110 | 0.0548 |
| | Nickel | 5.57 | 0.439 | 0.219 |
| | Potassium | 3020 | 65.8 | 32.9 |
| | Selenium | ND | 0.439 | 0.219 |
| | Silver | ND | 0.110 | 0.0548 |
| | Sodium | ND | 110 | 54.8 |
| # | Strontium | 9.87 | 0.548 | 0.274 |
| | Thallium | 0.192 | 0.110 | 0.0548 |
| | Tin | ND | 11.0 | 5.48 |
| | Titanium | 698 | 1.10 | 0.548 |
| | Vanadium | 20.6 | 0.110 | 0.0548 |
| | Zinc | 49.4 | 3.29 | 1.64 |
| | Lithium | 26.0 | 2.19 | 1.10 |
| | Phosphorus | 385 | 13.2 | 6.58 |
| | Zirconium | ND | 5.48 | 2.74 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| SDG NO. : 12D192 | Date Extracted: 04/26/12 10:12 |
| Sample ID: SL-171-NBZ-SS-0.0-0.5 | Date Analyzed: 04/30/12 20:34 # 05/01/12 18:43 |
| Lab Samp ID: D192-06 #D192-06W | Dilution Factor: 0.976 |
| Lab File ID: 98D21102 #98E01046 | Matrix : SOIL |
| Ext Btch ID: IMD040S | % Moisture : 8.3 |
| Calib. Ref.: 98D21096 #98E01041 | Instrument ID : T-I98 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 10100 | 25.5 | 12.8 |
| | Antimony | 0.207J | 0.213 | 0.106 |
| | Arsenic | 3.08 | 0.426 | 0.213 |
| | Barium | 75.9 | 0.426 | 0.213 |
| | Beryllium | 0.374 | 0.106 | 0.0532 |
| | Boron | ND | 5.32 | 2.66 |
| | Cadmium | 0.179 | 0.106 | 0.0532 |
| | Calcium | 2550 | 21.3 | 10.6 |
| | Chromium | 15.2 | 0.426 | 0.213 |
| | Cobalt | 5.02 | 0.106 | 0.0532 |
| | Copper | 7.37 | 0.426 | 0.213 |
| | Iron | 18800 | 21.3 | 10.6 |
| | Lead | 6.98 | 0.213 | 0.106 |
| | Magnesium | 5320 | 10.6 | 5.32 |
| | Manganese | 277 | 0.532 | 0.266 |
| | Molybdenum | 0.451 | 0.106 | 0.0532 |
| | Nickel | 10.4 | 0.426 | 0.213 |
| | Potassium | 4040 | 63.9 | 31.9 |
| | Selenium | ND | 0.426 | 0.213 |
| | Silver | ND | 0.106 | 0.0532 |
| | Sodium | 54.7J | 106 | 53.2 |
| # | Strontium | 12.4 | 0.532 | 0.266 |
| | Thallium | 0.240 | 0.106 | 0.0532 |
| | Tin | ND | 10.6 | 5.32 |
| | Titanium | 989 | 1.06 | 0.532 |
| | Vanadium | 35.1 | 0.106 | 0.0532 |
| | Zinc | 53.6 | 3.19 | 1.60 |
| | Lithium | 27.3 | 2.13 | 1.06 |
| | Phosphorus | 480 | 12.8 | 6.39 |
| | Zirconium | ND | 5.32 | 2.66 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/20/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/20/12 |
| SDG NO. : 12D192 | Date Extracted: 04/26/12 10:12 |
| Sample ID: SL-202-NBZ-SS-0.0-0.5 | Date Analyzed: 04/30/12 20:38 # 05/01/12 18:47 |
| Lab Samp ID: D192-07 #D192-07W | Dilution Factor: 0.976 |
| Lab File ID: 98D21103 #98E01047 | Matrix : SOIL |
| Ext Btch ID: IMD040S | % Moisture : 7.1 |
| Calib. Ref.: 98D21096 #98E01041 | Instrument ID : T-I98 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 11300 | 25.2 | 12.6 |
| | Antimony | 0.170J | 0.210 | 0.105 |
| | Arsenic | 4.37 | 0.420 | 0.210 |
| | Barium | 104 | 0.420 | 0.210 |
| | Beryllium | 0.438 | 0.105 | 0.0525 |
| | Boron | ND | 5.25 | 2.63 |
| | Cadmium | 0.173 | 0.105 | 0.0525 |
| | Calcium | 6470 | 21.0 | 10.5 |
| | Chromium | 18.1 | 0.420 | 0.210 |
| | Cobalt | 6.04 | 0.105 | 0.0525 |
| | Copper | 9.05 | 0.420 | 0.210 |
| | Iron | 21500 | 21.0 | 10.5 |
| | Lead | 5.80 | 0.210 | 0.105 |
| | Magnesium | 5160 | 10.5 | 5.25 |
| | Manganese | 286 | 0.525 | 0.263 |
| | Molybdenum | 0.469 | 0.105 | 0.0525 |
| | Nickel | 11.0 | 0.420 | 0.210 |
| | Potassium | 4250 | 63.0 | 31.5 |
| | Selenium | 0.365J | 0.420 | 0.210 |
| | Silver | ND | 0.105 | 0.0525 |
| | Sodium | ND | 105 | 52.5 |
| # | Strontium | 15.1 | 0.525 | 0.263 |
| | Thallium | 0.257 | 0.105 | 0.0525 |
| | Tin | ND | 10.5 | 5.25 |
| | Titanium | 1160 | 1.05 | 0.525 |
| | Vanadium | 37.3 | 0.105 | 0.0525 |
| | Zinc | 103 | 3.15 | 1.58 |
| | Lithium | 31.1 | 2.10 | 1.05 |
| | Phosphorus | 548 | 12.6 | 6.30 |
| | Zirconium | ND | 5.25 | 2.63 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/26/12 |
| SDG NO. : 12D192 | Date Extracted: 04/26/12 10:12 |
| Sample ID: MBLK1S | Date Analyzed: 04/30/12 18:31 |
| Lab Samp ID: IMD040SB | Dilution Factor: 1 |
| Lab File ID: 98D21075 | Matrix : SOIL |
| Ext Btch ID: IMD040S | % Moisture : NA |
| Calib. Ref.: 98D21073 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium^ | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

^ : Analyzed on 05/01/12 16:40 | File ID 98E01019

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D192
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IMD040SB | IMD040SL | IMD040SC | | |
| LAB FILE ID: | 98D21075 | 98D21076 | 98D21077 | | |
| DATIME EXTRCTD: | 04/26/1210:12 | 04/26/1210:12 | 04/26/1210:12 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/30/1218:31 | 04/30/1218:36 | 04/30/1218:40 | DATE RECEIVED: | 04/26/12 |
| PREP. BATCH: | IMD040S | IMD040S | IMD040S | | |
| CALIB. REF: | 98D21073 | 98D21073 | 98D21073 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2590 | 104 | 2500 | 2580 | 103 | 0 | 80-120 | 20 |
| Antimony | ND | 25.0 | 26.2 | 105 | 25.0 | 26.4 | 106 | 1 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 25.1 | 101 | 25.0 | 25.6 | 102 | 2 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.5 | 102 | 25.0 | 25.6 | 102 | 0 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 25.4 | 101 | 25.0 | 25.0 | 100 | 2 | 80-120 | 20 |
| Boron | ND | 25.0 | 26.2 | 105 | 25.0 | 25.8 | 103 | 2 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 24.9 | 100 | 25.0 | 25.2 | 101 | 1 | 80-120 | 20 |
| Calcium | ND | 2500 | 2650 | 106 | 2500 | 2700 | 108 | 2 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.2 | 97 | 25.0 | 24.3 | 97 | 0 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 24.6 | 98 | 25.0 | 24.4 | 98 | 1 | 80-120 | 20 |
| Copper | ND | 25.0 | 23.4 | 94 | 25.0 | 23.4 | 94 | 0 | 80-120 | 20 |
| Iron | ND | 2500 | 2560 | 102 | 2500 | 2590 | 104 | 1 | 80-120 | 20 |
| Lead | ND | 25.0 | 24.7 | 99 | 25.0 | 25.4 | 102 | 3 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2570 | 103 | 2500 | 2540 | 102 | 1 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.3 | 101 | 25.0 | 25.1 | 101 | 0 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 25.7 | 103 | 25.0 | 25.8 | 103 | 0 | 80-120 | 20 |
| Nickel | ND | 25.0 | 23.5 | 94 | 25.0 | 23.4 | 94 | 0 | 80-120 | 20 |
| Potassium | ND | 2500 | 2750 | 110 | 2500 | 2770 | 111 | 1 | 80-120 | 20 |
| Selenium | ND | 25.0 | 24.8 | 99 | 25.0 | 25.1 | 101 | 1 | 80-120 | 20 |
| Silver | ND | 25.0 | 25.3 | 101 | 25.0 | 25.7 | 103 | 2 | 80-120 | 20 |
| Sodium | ND | 2500 | 2610 | 105 | 2500 | 2660 | 106 | 2 | 80-120 | 20 |
| Strontium^ | ND | 25.0 | 25.4 | 102 | 25.0 | 25.6 | 102 | 0 | 80-120 | 20 |
| Thallium | ND | 25.0 | 25.5 | 102 | 25.0 | 25.9 | 103 | 1 | 80-120 | 20 |
| Tin | ND | 25.0 | 28.3 | 113 | 25.0 | 28.6 | 114 | 1 | 80-120 | 20 |
| Titanium | ND | 25.0 | 26.1 | 104 | 25.0 | 26.3 | 105 | 1 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 24.9 | 100 | 25.0 | 25.2 | 101 | 1 | 80-120 | 20 |
| Zinc | ND | 50.0 | 50.4 | 101 | 50.0 | 50.3 | 101 | 0 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.9 | 104 | 25.0 | 25.7 | 103 | 1 | 80-120 | 20 |
| Phosphorus | ND | 250 | 255 | 102 | 250 | 257 | 103 | 1 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 26.2 | 105 | 25.0 | 26.2 | 105 | 0 | 80-120 | 20 |

^ IMD040SL/C : Analyzed on 05/01/12 16:45/16:49 | File ID 98E01020/21

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D192
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 15.1
DILTN FACTR: 0.995 0.995
SAMPLE ID: SL-201-NBZ-SS-0.0-0.5
CONTROL NO.: D197-03 D197-03A
LAB FILE ID: 98D21081 98D21080
DATIME EXTRCTD: 04/26/1210:12 04/26/1210:12 DATE COLLECTED: 04/23/12
DATIME ANALYZD: 04/30/1218:58 04/30/1218:54 DATE RECEIVED: 04/23/12
PREP. BATCH: IMD040S IMD040S
CALIB. REF: 98D21073 98D21073

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 14700 | 2930 | 17400 | 93 | 75-125 |
| Antimony | 0.438 | 29.3 | 30.9 | 104 | 75-125 |
| Arsenic | 4.70 | 29.3 | 33.0 | 97 | 75-125 |
| Barium | 96.6 | 29.3 | 127 | 102 | 75-125 |
| Beryllium | 0.594 | 29.3 | 29.2 | 98 | 75-125 |
| Boron | ND | 29.3 | 31.3 | 107 | 75-125 |
| Cadmium | 0.395 | 29.3 | 29.1 | 98 | 75-125 |
| Calcium | 2940 | 2930 | 5850 | 99 | 75-125 |
| Chromium | 17.0 | 29.3 | 42.7 | 88 | 75-125 |
| Cobalt | 5.72 | 29.3 | 31.6 | 88 | 75-125 |
| Copper | 8.05 | 29.3 | 32.5 | 83 | 75-125 |
| Iron | 19800 | 2930 | 22200 | 79 | 75-125 |
| Lead | 28.6 | 29.3 | 56.4 | 95 | 75-125 |
| Magnesium | 4210 | 2930 | 6990 | 95 | 75-125 |
| Manganese | 255 | 29.3 | 277 | 73* | 75-125 |
| Molybdenum | 0.834 | 29.3 | 30.7 | 102 | 75-125 |
| Nickel | 10.3 | 29.3 | 35.0 | 84 | 75-125 |
| Potassium | 2760 | 2930 | 5730 | 101 | 75-125 |
| Selenium | ND | 29.3 | 28.9 | 98 | 75-125 |
| Silver | 0.465 | 29.3 | 29.3 | 99 | 75-125 |
| Sodium | ND | 2930 | 2900 | 99 | 75-125 |
| Strontium^ | 18.8 | 29.3 | 47.3 | 97 | 75-125 |
| Thallium | 0.226 | 29.3 | 29.4 | 99 | 75-125 |
| Tin | ND | 29.3 | 33.8 | 115 | 75-125 |
| Titanium | 967 | 29.3 | 977 | 32* | 75-125 |
| Vanadium | 35.2 | 29.3 | 62.0 | 92 | 75-125 |
| Zinc | 77.9 | 58.6 | 136 | 100 | 75-125 |
| Lithium | 19.2 | 29.3 | 48.6 | 100 | 75-125 |
| Phosphorus | 254 | 293 | 559 | 104 | 75-125 |
| Zirconium | ND | 29.3 | 29.4 | 100 | 75-125 |

^ D197-03A : Analyzed on 05/01/12 17:03 | File ID 98E01024

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 15.1
DILUTION FACTOR: 0.995 4.98
SAMPLE ID: SL-201-NBZ-SS- SL-201-NBZ-SS-
EMAX SAMP ID: D197-03 D197-03J
LAB FILE ID: 98D21081 98D21082
DATE EXTRACTED: 04/26/1210:12 04/26/1210:12 DATE COLLECTED: 04/23/12
DATE ANALYZED: 04/30/1218:58 04/30/1219:03 DATE RECEIVED: 04/23/12
PREP. BATCH: IMD040S IMD040S
CALIB. REF: 98D21073 98D21073

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 14700 | 15100 | 3 | 10 |
| Antimony | 0.438 | ND | NA | 10 |
| Arsenic | 4.70 | 4.82 | 3 | 10 |
| Barium | 96.6 | 92.1 | 5 | 10 |
| Beryllium | 0.594 | 0.607 | 2 | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.395 | 0.378J | NA | 10 |
| Calcium | 2940 | 3070 | 4 | 10 |
| Chromium | 17.0 | 17.4 | 2 | 10 |
| Cobalt | 5.72 | 5.92 | 4 | 10 |
| Copper | 8.05 | 8.58 | 7 | 10 |
| Iron | 19800 | 20500 | 3 | 10 |
| Lead | 28.6 | 28.2 | 1 | 10 |
| Magnesium | 4210 | 4300 | 2 | 10 |
| Manganese | 255 | 269 | 5 | 10 |
| Molybdenum | 0.834 | 0.809 | 3 | 10 |
| Nickel | 10.3 | 10.6 | 2 | 10 |
| Potassium | 2760 | 2780 | 1 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | 0.465 | 0.459J | NA | 10 |
| Sodium | ND | ND | 0 | 10 |
| Strontium^ | 18.8 | 18.2 | 3 | 10 |
| Thallium | 0.226 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 967 | 982 | 1 | 10 |
| Vanadium | 35.2 | 36.0 | 2 | 10 |
| Zinc | 77.9 | 79.8 | 2 | 10 |
| Lithium | 19.2 | 17.9 | 7 | 10 |
| Phosphorus | 254 | 268 | 5 | 10 |
| Zirconium | ND | ND | 0 | 10 |

^ D197-03/03J : Analyzed on 05/01/12 17:07/17:12 | File ID 98E01025/26

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D192
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD025SB | ND | 1 | NA | 0.100 | 0.0500 | 04/24/1217:56 | 04/24/1213:30 | M47D017035 | M47D017032 | HGD025S | NA | 04/24/12 |
| LCS1S | HGD025SL | 0.863 | 1 | NA | 0.100 | 0.0500 | 04/24/1217:58 | 04/24/1213:30 | M47D017036 | M47D017032 | HGD025S | NA | 04/24/12 |
| LCD1S | HGD025SC | 0.853 | 1 | NA | 0.100 | 0.0500 | 04/24/1218:00 | 04/24/1213:30 | M47D017037 | M47D017032 | HGD025S | NA | 04/24/12 |
| SL-016-NBZ-SS-0.0-0.5 | D192-01 | ND | 0.998 | 20.7 | 0.126 | 0.0629 | 04/24/1218:32 | 04/24/1213:30 | M47D017052 | M47D017044 | HGD025S | 04/20/12 | 04/20/12 |
| SL-018-NBZ-SS-0.0-0.5 | D192-02 | ND | 1.00 | 17.6 | 0.121 | 0.0607 | 04/24/1218:35 | 04/24/1213:30 | M47D017053 | M47D017044 | HGD025S | 04/20/12 | 04/20/12 |
| SL-080-NBZ-SS-0.0-0.5 | D192-03 | ND | 0.988 | 14.0 | 0.115 | 0.0574 | 04/24/1218:37 | 04/24/1213:30 | M47D017054 | M47D017044 | HGD025S | 04/20/12 | 04/20/12 |
| SL-089-NBZ-SS-0.0-0.5 | D192-04 | ND | 0.982 | 11.6 | 0.111 | 0.0555 | 04/24/1218:40 | 04/24/1213:30 | M47D017055 | M47D017044 | HGD025S | 04/20/12 | 04/20/12 |
| SL-170-NBZ-SS-0.0-0.5 | D192-05 | ND | 1.00 | 8.8 | 0.110 | 0.0548 | 04/24/1218:46 | 04/24/1213:30 | M47D017058 | M47D017056 | HGD025S | 04/20/12 | 04/20/12 |
| SL-171-NBZ-SS-0.0-0.5 | D192-06 | ND | 1.00 | 8.3 | 0.109 | 0.0545 | 04/24/1218:48 | 04/24/1213:30 | M47D017059 | M47D017056 | HGD025S | 04/20/12 | 04/20/12 |
| SL-202-NBZ-SS-0.0-0.5 | D192-07 | ND | 0.993 | 7.1 | 0.107 | 0.0534 | 04/24/1218:50 | 04/24/1213:30 | M47D017060 | M47D017056 | HGD025S | 04/20/12 | 04/20/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D192
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGD025SB | HGD025SL | HGD025SC | | |
| LAB FILE ID: | M47D017035 | M47D017036 | M47D017037 | | |
| DATIME EXTRCTD: | 04/24/1213:30 | 04/24/1213:30 | 04/24/1213:30 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/24/1217:56 | 04/24/1217:58 | 04/24/1218:00 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | HGD025S | HGD025S | HGD025S | | |
| CALIB. REF: | M47D017032 | M47D017032 | M47D017032 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .863 | 104 | .833 | .853 | 102 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D192
METHOD: METHOD 7471A

MATRIX: SOIL % MOISTURE: 5.3
DILTN FACTR: 0.993 0.993
SAMPLE ID: SL-008-NBZ-SB-4.0-5.0
CONTROL NO.: D166-02 D166-02A
LAB FILE ID: M47D017039 M47D017038
DATIME EXTRCTD: 04/24/1213:30 04/24/1213:30 DATE COLLECTED: 04/18/12
DATIME ANALYZD: 04/24/1218:05 04/24/1218:03 DATE RECEIVED: 04/18/12
PREP. BATCH: HGD025S HGD025S
CALIB. REF: M47D017032 M47D017032

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .873 | .911 | 104 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 5.3 |
| DILUTION FACTOR: | 0.993 | 4.97 | | |
| SAMPLE ID: | SL-008-NBZ-SB-4.0-5 | SL-008-NBZ-SB-4.0-5 | | |
| EMAX SAMP ID: | D166-02 | D166-02J | | |
| LAB FILE ID: | M47D017039 | M47D017040 | | |
| DATE EXTRACTED: | 04/24/1213:30 | 04/24/1213:30 | DATE COLLECTED: | 04/18/12 |
| DATE ANALYZED: | 04/24/1218:05 | 04/24/1218:07 | DATE RECEIVED: | 04/18/12 |
| PREP. BATCH: | HGD025S | HGD025S | | |
| CALIB. REF: | M47D017032 | M47D017032 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 300.0
NITRATE-NO3

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D192
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD011SB | ND | 1 | NA | 1.50 | 0.750 | 04/27/1222:00 | 04/26/1214:46 | AD35-138 | AD35-132 | ICD011S | NA | 04/26/12 |
| LCS1S | ICD011SL | 13.8 | 1 | NA | 1.50 | 0.750 | 04/27/1222:16 | 04/26/1214:46 | AD35-139 | AD35-132 | ICD011S | NA | 04/26/12 |
| LCD1S | ICD011SC | 13.6 | 1 | NA | 1.50 | 0.750 | 04/27/1222:33 | 04/26/1214:46 | AD35-140 | AD35-132 | ICD011S | NA | 04/26/12 |
| SL-016-NBZ-SS-0.0-0.5 | D192-01 | 9.04 | 1 | 20.7 | 1.89 | 0.946 | 04/28/1200:26 | 04/26/1214:46 | AD35-147 | AD35-144 | ICD011S | 04/20/1212:10 | 04/20/12 |
| SL-018-NBZ-SS-0.0-0.5 | D192-02 | 10.1 | 1 | 17.6 | 1.82 | 0.910 | 04/28/1200:42 | 04/26/1214:46 | AD35-148 | AD35-144 | ICD011S | 04/20/1210:59 | 04/20/12 |
| SL-018-NBZ-SS-0.0-0.5MS | D192-02M | 27.8 | 1 | 17.6 | 1.82 | 0.910 | 04/28/1200:58 | 04/26/1214:46 | AD35-149 | AD35-144 | ICD011S | 04/20/1210:59 | 04/20/12 |
| SL-018-NBZ-SS-0.0-0.5MSD | D192-02S | 27.8 | 1 | 17.6 | 1.82 | 0.910 | 04/28/1201:14 | 04/26/1214:46 | AD35-150 | AD35-144 | ICD011S | 04/20/1210:59 | 04/20/12 |
| SL-080-NBZ-SS-0.0-0.5 | D192-03 | 15.9 | 1 | 14.0 | 1.74 | 0.872 | 04/28/1201:30 | 04/26/1214:46 | AD35-151 | AD35-144 | ICD011S | 04/20/1209:50 | 04/20/12 |
| SL-089-NBZ-SS-0.0-0.5 | D192-04 | 17.7 | 1 | 11.6 | 1.70 | 0.848 | 04/28/1201:47 | 04/26/1214:46 | AD35-152 | AD35-144 | ICD011S | 04/20/1212:06 | 04/20/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD011SB | ICD011SL | ICD011SC | | |
| LAB FILE ID: | AD35-138 | AD35-139 | AD35-140 | | |
| DATE EXTRACTED: | 04/26/1214:46 | 04/26/1214:46 | 04/26/1214:46 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/27/1222:00 | 04/27/1222:16 | 04/27/1222:33 | DATE RECEIVED: | 04/26/12 |
| PREP. BATCH: | ICD011S | ICD011S | ICD011S | | |
| CALIB. REF: | AD35-132 | AD35-132 | AD35-132 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | ND | 13.3 | 13.8 | 104 | 13.3 | 13.6 | 103 | 1 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: 300.0

MATRIX: SOIL % MOISTURE: 17.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-018-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D192-02 | D192-02M | D192-02S | | |
| LAB FILE ID: | AD35-148 | AD35-149 | AD35-150 | | |
| DATE EXTRACTED: | 04/26/1214:46 | 04/26/1214:46 | 04/26/1214:46 | DATE COLLECTED: | 04/20/12 10:59 |
| DATE ANALYZED: | 04/28/1200:42 | 04/28/1200:58 | 04/28/1201:14 | DATE RECEIVED: | 04/20/12 |
| PREP. BATCH: | ICD011S | ICD011S | ICD011S | | |
| CALIB. REF: | AD35-144 | AD35-144 | AD35-144 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | 10.1 | 16.1 | 27.8 | 110 | 16.1 | 27.8 | 110 | 0 | 80-120 | 20 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D192
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD011SB | ND | 1 | NA | 1.00 | 0.500 | 04/27/1222:00 | 04/26/1214:46 | AD35-138 | AD35-132 | ICD011S | NA | 04/26/12 |
| LCS1S | ICD011SL | 6.32 | 1 | NA | 1.00 | 0.500 | 04/27/1222:16 | 04/26/1214:46 | AD35-139 | AD35-132 | ICD011S | NA | 04/26/12 |
| LCD1S | ICD011SC | 6.30 | 1 | NA | 1.00 | 0.500 | 04/27/1222:33 | 04/26/1214:46 | AD35-140 | AD35-132 | ICD011S | NA | 04/26/12 |
| SL-016-NBZ-SS-0.0-0.5 | D192-01 | 1.82 | 1 | 20.7 | 1.26 | 0.631 | 04/28/1200:26 | 04/26/1214:46 | AD35-147 | AD35-144 | ICD011S | 04/20/1212:10 | 04/20/12 |
| SL-018-NBZ-SS-0.0-0.5 | D192-02 | 0.811J | 1 | 17.6 | 1.21 | 0.607 | 04/28/1200:42 | 04/26/1214:46 | AD35-148 | AD35-144 | ICD011S | 04/20/1210:59 | 04/20/12 |
| SL-018-NBZ-SS-0.0-0.5MS | D192-02M | 9.08 | 1 | 17.6 | 1.21 | 0.607 | 04/28/1200:58 | 04/26/1214:46 | AD35-149 | AD35-144 | ICD011S | 04/20/1210:59 | 04/20/12 |
| SL-018-NBZ-SS-0.0-0.5MSD | D192-02S | 9.09 | 1 | 17.6 | 1.21 | 0.607 | 04/28/1201:14 | 04/26/1214:46 | AD35-150 | AD35-144 | ICD011S | 04/20/1210:59 | 04/20/12 |
| SL-080-NBZ-SS-0.0-0.5 | D192-03 | ND | 1 | 14.0 | 1.16 | 0.581 | 04/28/1201:30 | 04/26/1214:46 | AD35-151 | AD35-144 | ICD011S | 04/20/1209:50 | 04/20/12 |
| SL-089-NBZ-SS-0.0-0.5 | D192-04 | ND | 1 | 11.6 | 1.13 | 0.566 | 04/28/1201:47 | 04/26/1214:46 | AD35-152 | AD35-144 | ICD011S | 04/20/1212:06 | 04/20/12 |
| SL-170-NBZ-SS-0.0-0.5 | D192-05 | ND | 1 | 8.8 | 1.10 | 0.548 | 04/28/1202:03 | 04/26/1214:46 | AD35-153 | AD35-144 | ICD011S | 04/20/1210:55 | 04/20/12 |
| SL-171-NBZ-SS-0.0-0.5 | D192-06 | ND | 1 | 8.3 | 1.09 | 0.545 | 04/28/1202:19 | 04/26/1214:46 | AD35-154 | AD35-144 | ICD011S | 04/20/1213:25 | 04/20/12 |
| SL-202-NBZ-SS-0.0-0.5 | D192-07 | ND | 1 | 7.1 | 1.08 | 0.538 | 04/28/1202:35 | 04/26/1214:46 | AD35-155 | AD35-144 | ICD011S | 04/20/1210:10 | 04/20/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD011SB | ICD011SL | ICD011SC | | |
| LAB FILE ID: | AD35-138 | AD35-139 | AD35-140 | | |
| DATE EXTRACTED: | 04/26/1214:46 | 04/26/1214:46 | 04/26/1214:46 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/27/1222:00 | 04/27/1222:16 | 04/27/1222:33 | DATE RECEIVED: | 04/26/12 |
| PREP. BATCH: | ICD011S | ICD011S | ICD011S | | |
| CALIB. REF: | AD35-132 | AD35-132 | AD35-132 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 6.32 | 105 | 6.00 | 6.30 | 105 | 0 | 90-110 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: 300.0

MATRIX: SOIL % MOISTURE: 17.6

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-018-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D192-02 | D192-02M | D192-02S | | |
| LAB FILE ID: | AD35-148 | AD35-149 | AD35-150 | | |
| DATE EXTRACTED: | 04/26/1214:46 | 04/26/1214:46 | 04/26/1214:46 | DATE COLLECTED: | 04/20/12 10:59 |
| DATE ANALYZED: | 04/28/1200:42 | 04/28/1200:58 | 04/28/1201:14 | DATE RECEIVED: | 04/20/12 |
| PREP. BATCH: | ICD011S | ICD011S | ICD011S | | |
| CALIB. REF: | AD35-144 | AD35-144 | AD35-144 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | MS RSLT (mg/kg) | MS % REC | SPIKE AMT (mg/kg) | MSD RSLT (mg/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | 0.811 | 7.28 | 9.08 | 114 | 7.28 | 9.09 | 114 | 0 | 80-120 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D192
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD019SB | ND | 1 | NA | 20.0 | 10.0 | 04/30/1215:15 | 04/26/1214:45 | JD30013 | JD30012 | PCD019S | NA | 04/26/12 |
| LCS1S | PCD019SL | 262 | 1 | NA | 20.0 | 10.0 | 04/30/1215:57 | 04/26/1214:45 | JD30015 | JD30012 | PCD019S | NA | 04/26/12 |
| LCD1S | PCD019SC | 258 | 1 | NA | 20.0 | 10.0 | 04/30/1216:18 | 04/26/1214:45 | JD30016 | JD30012 | PCD019S | NA | 04/26/12 |
| SL-016-NBZ-SS-0.0-0.5 | D192-01 | ND | 1 | 20.7 | 25.2 | 12.6 | 04/30/1216:39 | 04/26/1214:45 | JD30017 | JD30012 | PCD019S | 04/20/1212:10 | 04/20/12 |
| SL-018-NBZ-SS-0.0-0.5 | D192-02 | ND | 1 | 17.6 | 24.3 | 12.1 | 04/30/1217:00 | 04/26/1214:45 | JD30018 | JD30012 | PCD019S | 04/20/1210:59 | 04/20/12 |
| SL-018-NBZ-SS-0.0-0.5MS | D192-02M | 297 | 1 | 17.6 | 24.3 | 12.1 | 04/30/1217:21 | 04/26/1214:45 | JD30019 | JD30012 | PCD019S | 04/20/1210:59 | 04/20/12 |
| SL-018-NBZ-SS-0.0-0.5MSD | D192-02S | 295 | 1 | 17.6 | 24.3 | 12.1 | 04/30/1217:42 | 04/26/1214:45 | JD30020 | JD30012 | PCD019S | 04/20/1210:59 | 04/20/12 |
| SL-080-NBZ-SS-0.0-0.5 | D192-03 | ND | 1 | 14.0 | 23.3 | 11.6 | 04/30/1218:03 | 04/26/1214:45 | JD30021 | JD30012 | PCD019S | 04/20/1209:50 | 04/20/12 |
| SL-089-NBZ-SS-0.0-0.5 | D192-04 | ND | 1 | 11.6 | 22.6 | 11.3 | 04/30/1219:07 | 04/26/1214:45 | JD30024 | JD30023 | PCD019S | 04/20/1212:06 | 04/20/12 |
| SL-170-NBZ-SS-0.0-0.5 | D192-05 | ND | 1 | 8.8 | 21.9 | 11.0 | 04/30/1219:28 | 04/26/1214:45 | JD30025 | JD30023 | PCD019S | 04/20/1210:55 | 04/20/12 |
| SL-171-NBZ-SS-0.0-0.5 | D192-06 | ND | 1 | 8.3 | 21.8 | 10.9 | 04/30/1219:49 | 04/26/1214:45 | JD30026 | JD30023 | PCD019S | 04/20/1213:25 | 04/20/12 |
| SL-202-NBZ-SS-0.0-0.5 | D192-07 | ND | 1 | 7.1 | 21.5 | 10.8 | 04/30/1220:10 | 04/26/1214:45 | JD30027 | JD30023 | PCD019S | 04/20/1210:10 | 04/20/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD019SB | PCD019SL | PCD019SC | | |
| LAB FILE ID: | JD30013 | JD30015 | JD30016 | | |
| DATE EXTRACTED: | 04/26/1214:45 | 04/26/1214:45 | 04/26/1214:45 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/30/1215:15 | 04/30/1215:57 | 04/30/1216:18 | DATE RECEIVED: | 04/26/12 |
| PREP. BATCH: | PCD019S | PCD019S | PCD019S | | |
| CALIB. REF: | JD30012 | JD30012 | JD30012 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 262 | 105 | 250 | 258 | 103 | 2 | 85-115 | 15 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | 17.6 |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | SL-018-NBZ-SS-0.0-0.5 | | | | |
| LAB SAMP ID: | D192-02 | D192-02M | D192-02S | | |
| LAB FILE ID: | JD30018 | JD30019 | JD30020 | | |
| DATE EXTRACTED: | 04/26/1214:45 | 04/26/1214:45 | 04/26/1214:45 | DATE COLLECTED: | 04/20/12 10:59 |
| DATE ANALYZED: | 04/30/1217:00 | 04/30/1217:21 | 04/30/1217:42 | DATE RECEIVED: | 04/20/12 |
| PREP. BATCH: | PCD019S | PCD019S | PCD019S | | |
| CALIB. REF: | JD30012 | JD30012 | JD30012 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (ug/kg) | SPIKE AMT (ug/kg) | MS RSLT (ug/kg) | MS % REC | SPIKE AMT (ug/kg) | MSD RSLT (ug/kg) | MSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 303 | 297 | 98 | 303 | 295 | 97 | 1 | 80-120 | 20 |

METHOD 6850
PERCHLORATE BY LC/MS

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D192
Matrix : SOIL
Instrument ID : G0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PLD005SB | ND | 1 | NA | 5.00 | 2.50 | 04/27/1209:35 | 04/25/1213:30 | ND27004 | ND27003 | PLD005S | NA | 04/25/12 |
| LCS1S | PLD005SL | 25.1 | 1 | NA | 5.00 | 2.50 | 04/27/1209:50 | 04/25/1213:30 | ND27005 | ND27003 | PLD005S | NA | 04/25/12 |
| LCD1S | PLD005SC | 24.4 | 1 | NA | 5.00 | 2.50 | 04/27/1210:04 | 04/25/1213:30 | ND27006 | ND27003 | PLD005S | NA | 04/25/12 |
| SL-016-NBZ-SS-0.0-0.5 | D192-01 | ND | 1 | 20.7 | 6.31 | 3.15 | 04/27/1210:36 | 04/25/1213:30 | ND27008 | ND27003 | PLD005S | 04/20/1212:10 | 04/20/12 |
| SL-018-NBZ-SS-0.0-0.5 | D192-02 | ND | 1 | 17.6 | 6.07 | 3.03 | 04/27/1210:50 | 04/25/1213:30 | ND27009 | ND27003 | PLD005S | 04/20/1210:59 | 04/20/12 |
| SL-080-NBZ-SS-0.0-0.5 | D192-03 | ND | 1 | 14.0 | 5.81 | 2.91 | 04/27/1211:04 | 04/25/1213:30 | ND27010 | ND27003 | PLD005S | 04/20/1209:50 | 04/20/12 |
| SL-089-NBZ-SS-0.0-0.5 | D192-04 | ND | 1 | 11.6 | 5.66 | 2.83 | 04/27/1211:18 | 04/25/1213:30 | ND27011 | ND27003 | PLD005S | 04/20/1212:06 | 04/20/12 |
| SL-170-NBZ-SS-0.0-0.5 | D192-05 | ND | 1 | 8.8 | 5.48 | 2.74 | 04/27/1211:32 | 04/25/1213:30 | ND27012 | ND27003 | PLD005S | 04/20/1210:55 | 04/20/12 |
| SL-171-NBZ-SS-0.0-0.5 | D192-06 | ND | 1 | 8.3 | 5.45 | 2.73 | 04/27/1211:46 | 04/25/1213:30 | ND27013 | ND27003 | PLD005S | 04/20/1213:25 | 04/20/12 |
| SL-202-NBZ-SS-0.0-0.5 | D192-07 | ND | 1 | 7.1 | 5.38 | 2.69 | 04/27/1212:15 | 04/25/1213:30 | ND27015 | ND27014 | PLD005S | 04/20/1210:10 | 04/20/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: METHOD 6850

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PLD005SB | PLD005SL | PLD005SC | | |
| LAB FILE ID: | ND27004 | ND27005 | ND27006 | | |
| DATE EXTRACTED: | 04/25/1213:30 | 04/25/1213:30 | 04/25/1213:30 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/27/1209:35 | 04/27/1209:50 | 04/27/1210:04 | DATE RECEIVED: | 04/25/12 |
| PREP. BATCH: | PLD005S | PLD005S | PLD005S | | |
| CALIB. REF: | ND27003 | ND27003 | ND27003 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 25.0 | 25.1 | 100 | 25.0 | 24.4 | 98 | 3 | 85-115 | 15 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D192

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD012SB | ND | 1 | NA | 1.00 | 0.500 | 04/25/1215:02 | 04/24/1216:57 | ID25003 | ID25001 | HCD012S | NA | 04/24/12 |
| MBLK1S | HCD012SQ | ND | 1 | NA | 1.00 | 0.500 | 04/25/1215:13 | 04/24/1216:57 | ID25004 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS1S | CSD012SL | 8.77 | 1 | NA | 1.00 | 0.500 | 04/25/1219:18 | 04/24/1216:57 | ID25023 | ID25013 | HCD012S | NA | 04/24/12 |
| LCS1S | CSD012SX | 8.57 | 1 | NA | 1.00 | 0.500 | 04/25/1219:28 | 04/24/1216:57 | ID25024 | ID25013 | HCD012S | NA | 04/24/12 |
| LCS2S | CID012SL | 337 | 20 | NA | 20.0 | 10.0 | 04/25/1215:44 | 04/24/1216:57 | ID25007 | ID25001 | HCD012S | NA | 04/24/12 |
| LCS2S | CID012SX | 341 | 20 | NA | 20.0 | 10.0 | 04/25/1215:55 | 04/24/1216:57 | ID25008 | ID25001 | HCD012S | NA | 04/24/12 |
| SL-016-NBZ-SS-0.0-0.5 | D192-01 | ND | 1 | 20.7 | 1.26 | 0.631 | 04/25/1223:27 | 04/24/1216:57 | ID25045 | ID25037 | HCD012S | 04/20/1212:10 | 04/20/12 |
| SL-016-NBZ-SS-0.0-0.5 | D192-01R | ND | 1 | 20.7 | 1.26 | 0.631 | 04/25/1223:38 | 04/24/1216:57 | ID25046 | ID25037 | HCD012S | 04/20/1212:10 | 04/20/12 |
| SL-018-NBZ-SS-0.0-0.5 | D192-02 | ND | 1 | 17.6 | 1.21 | 0.607 | 04/25/1223:48 | 04/24/1216:57 | ID25047 | ID25037 | HCD012S | 04/20/1210:59 | 04/20/12 |
| SL-018-NBZ-SS-0.0-0.5 | D192-02R | ND | 1 | 17.6 | 1.21 | 0.607 | 04/25/1223:58 | 04/24/1216:57 | ID25048 | ID25037 | HCD012S | 04/20/1210:59 | 04/20/12 |
| SL-080-NBZ-SS-0.0-0.5 | D192-03 | ND | 1 | 14.0 | 1.16 | 0.581 | 04/26/1200:40 | 04/24/1216:57 | ID25051 | ID25049 | HCD012S | 04/20/1209:50 | 04/20/12 |
| SL-080-NBZ-SS-0.0-0.5 | D192-03R | ND | 1 | 14.0 | 1.16 | 0.581 | 04/26/1200:50 | 04/24/1216:57 | ID25052 | ID25049 | HCD012S | 04/20/1209:50 | 04/20/12 |
| SL-089-NBZ-SS-0.0-0.5 | D192-04 | ND | 1 | 11.6 | 1.13 | 0.566 | 04/26/1201:01 | 04/24/1216:57 | ID25053 | ID25049 | HCD012S | 04/20/1212:06 | 04/20/12 |
| SL-089-NBZ-SS-0.0-0.5 | D192-04R | ND | 1 | 11.6 | 1.13 | 0.566 | 04/26/1201:11 | 04/24/1216:57 | ID25054 | ID25049 | HCD012S | 04/20/1212:06 | 04/20/12 |
| SL-170-NBZ-SS-0.0-0.5 | D192-05 | ND | 1 | 8.8 | 1.10 | 0.548 | 04/26/1201:22 | 04/24/1216:57 | ID25055 | ID25049 | HCD012S | 04/20/1210:55 | 04/20/12 |
| SL-170-NBZ-SS-0.0-0.5 | D192-05R | ND | 1 | 8.8 | 1.10 | 0.548 | 04/26/1201:32 | 04/24/1216:57 | ID25056 | ID25049 | HCD012S | 04/20/1210:55 | 04/20/12 |
| SL-171-NBZ-SS-0.0-0.5 | D192-06 | ND | 1 | 8.3 | 1.09 | 0.545 | 04/26/1201:43 | 04/24/1216:57 | ID25057 | ID25049 | HCD012S | 04/20/1213:25 | 04/20/12 |
| SL-171-NBZ-SS-0.0-0.5 | D192-06R | ND | 1 | 8.3 | 1.09 | 0.545 | 04/26/1201:53 | 04/24/1216:57 | ID25058 | ID25049 | HCD012S | 04/20/1213:25 | 04/20/12 |
| SL-202-NBZ-SS-0.0-0.5 | D192-07 | ND | 1 | 7.1 | 1.08 | 0.538 | 04/26/1202:03 | 04/24/1216:57 | ID25059 | ID25049 | HCD012S | 04/20/1210:10 | 04/20/12 |
| SL-202-NBZ-SS-0.0-0.5 | D192-07R | ND | 1 | 7.1 | 1.08 | 0.538 | 04/26/1202:14 | 04/24/1216:57 | ID25060 | ID25049 | HCD012S | 04/20/1210:10 | 04/20/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD012SQ CID012SX
LAB FILE ID: ID25004 ID25008
DATE EXTRACTED: 04/24/1216:57 04/24/1216:57 DATE COLLECTED: NA
DATE ANALYZED: 04/25/1215:13 04/25/1215:55 DATE RECEIVED: 04/24/12
PREP. BATCH: HCD012S HCD012S
CALIB. REF: ID25001 ID25001

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 375 | 341 | 91 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D192
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD012SQ | CSD012SX | | |
| LAB FILE ID: | ID25004 | ID25024 | | |
| DATE EXTRACTED: | 04/24/1216:57 | 04/24/1216:57 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1215:13 | 04/25/1219:28 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | HCD012S | HCD012S | | |
| CALIB. REF: | ID25001 | ID25013 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 8.57 | 86 | 80-120 |

METHOD 9010A/9014
TOTAL CYANIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D192
Matrix : SOIL
Instrument ID : 70

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | CND011SB | ND | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01110 | CND01108 | CND011S | NA | 04/26/12 |
| LCS1S | CND011SL | 2.32 | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01111 | CND01108 | CND011S | NA | 04/26/12 |
| LCD1S | CND011SC | 2.34 | 1 | NA | 0.500 | 0.250 | 04/26/1218:49 | 04/26/1211:30 | CND01112 | CND01108 | CND011S | NA | 04/26/12 |
| SL-016-NBZ-SS-0.0-0.5 | D192-01 | ND | 1 | 20.7 | 0.631 | 0.315 | 04/26/1218:54 | 04/26/1211:30 | CND01125 | CND01120 | CND011S | 04/20/1212:10 | 04/20/12 |
| SL-018-NBZ-SS-0.0-0.5 | D192-02 | ND | 1 | 17.6 | 0.607 | 0.303 | 04/26/1218:54 | 04/26/1211:30 | CND01126 | CND01120 | CND011S | 04/20/1210:59 | 04/20/12 |
| SL-080-NBZ-SS-0.0-0.5 | D192-03 | 0.431J | 1 | 14.0 | 0.581 | 0.291 | 04/26/1218:54 | 04/26/1211:30 | CND01127 | CND01120 | CND011S | 04/20/1209:50 | 04/20/12 |
| SL-089-NBZ-SS-0.0-0.5 | D192-04 | ND | 1 | 11.6 | 0.566 | 0.283 | 04/26/1218:54 | 04/26/1211:30 | CND01128 | CND01120 | CND011S | 04/20/1212:06 | 04/20/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9010A/9014
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D192
SAMPLE ID: LCS1S/LCD1S
CONTROL NO.: CND011SL/C

DATE RECEIVED: 04/26/12
DATE EXTRACTED: 04/26/1211:30
DATE ANALYZED: 04/26/1218:49/18:49

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD % | QC LIMIT % | RPD LIMIT % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 2.50 | 2.32 | 93 | 2.50 | 2.34 | 94 | 1 | 85-125 | 20 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D192
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-016-NBZ-SS-0.0-0.5 | D192-01 | 8.22 | 1 | NA | NA | NA | 04/21/1211:21 | 04/21/1211:05 | 12PHD024S09 | PHD024S | PHD024S | 04/20/1212:10 | 04/20/12 |
| SL-018-NBZ-SS-0.0-0.5 | D192-02 | 7.54 | 1 | NA | NA | NA | 04/21/1211:23 | 04/21/1211:05 | 12PHD024S10 | PHD024S | PHD024S | 04/20/1210:59 | 04/20/12 |
| SL-080-NBZ-SS-0.0-0.5 | D192-03 | 7.02 | 1 | NA | NA | NA | 04/21/1211:24 | 04/21/1211:05 | 12PHD024S11 | PHD024S | PHD024S | 04/20/1209:50 | 04/20/12 |
| SL-089-NBZ-SS-0.0-0.5 | D192-04 | 7.15 | 1 | NA | NA | NA | 04/21/1211:26 | 04/21/1211:05 | 12PHD024S12 | PHD024S | PHD024S | 04/20/1212:06 | 04/20/12 |
| SL-170-NBZ-SS-0.0-0.5 | D192-05 | 6.09 | 1 | NA | NA | NA | 04/21/1211:27 | 04/21/1211:05 | 12PHD024S13 | PHD024S | PHD024S | 04/20/1210:55 | 04/20/12 |
| SL-171-NBZ-SS-0.0-0.5 | D192-06 | 5.95 | 1 | NA | NA | NA | 04/21/1211:29 | 04/21/1211:05 | 12PHD024S14 | PHD024S | PHD024S | 04/20/1213:25 | 04/20/12 |
| SL-202-NBZ-SS-0.0-0.5 | D192-07 | 8.13 | 1 | NA | NA | NA | 04/21/1211:30 | 04/21/1211:05 | 12PHD024S15 | PHD024S | PHD024S | 04/20/1210:10 | 04/20/12 |

# SAMPLE DELIVERY GROUP

# 12D197

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D197 | Date Extracted: 04/25/1215:00 |
| Sample ID: EB-NBZ-SS-042312 | Date Analyzed: 05/02/12 15:29 |
| Lab Samp ID: D197-04 | Dilution Factor: 1.02 |
| Lab File ID: REF042 | Matrix : WATER |
| Ext Btch ID: SVD048W | % Moisture : NA |
| Calib. Ref.: RDF015 | Instrument ID : T-OF0 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 10 | 5.1 |
| 1,2-DICHLOROBENZENE | ND | 10 | 5.1 |
| 1,3-DICHLOROBENZENE | ND | 10 | 5.1 |
| 1,4-DICHLOROBENZENE | ND | 10 | 5.1 |
| 2,4,5-TRICHLOROPHENOL | ND | 10 | 5.1 |
| 2,4,6-TRICHLOROPHENOL | ND | 10 | 5.1 |
| 2,4-DICHLOROPHENOL | ND | 10 | 5.1 |
| 2,4-DIMETHYLPHENOL | ND | 10 | 5.1 |
| 2,4-DINITROPHENOL | ND | 20 | 5.1 |
| 2,4-DINITROTOLUENE | ND | 10 | 5.1 |
| 2,6-DINITROTOLUENE | ND | 10 | 5.1 |
| 2-CHLORONAPHTHALENE | ND | 10 | 5.1 |
| 2-CHLOROPHENOL | ND | 10 | 5.1 |
| 2-METHYLNAPHTHALENE | ND | 10 | 5.1 |
| 2-METHYLPHENOL | ND | 10 | 5.1 |
| 2-NITROANILINE | ND | 10 | 5.1 |
| 2-NITROPHENOL | ND | 10 | 5.1 |
| 3,3'-DICHLOROBENZIDINE | ND | 10 | 5.1 |
| 3-NITROANILINE | ND | 10 | 5.1 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 20 | 5.1 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 10 | 5.1 |
| 4-CHLORO-3-METHYLPHENOL | ND | 10 | 5.1 |
| 4-CHLOROANILINE | ND | 10 | 5.1 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 10 | 5.1 |
| 4-METHYLPHENOL (1) | ND | 10 | 5.1 |
| 4-NITROANILINE | ND | 10 | 5.1 |
| 4-NITROPHENOL | ND | 20 | 5.1 |
| ACENAPHTHENE | ND | 10 | 5.1 |
| ACENAPHTHYLENE | ND | 10 | 5.1 |
| ANTHRACENE | ND | 10 | 5.1 |
| BENZO(A)ANTHRACENE | ND | 10 | 5.1 |
| BENZO(A)PYRENE | ND | 10 | 5.1 |
| BENZO(B)FLUORANTHENE | ND | 10 | 5.1 |
| BENZO(K)FLUORANTHENE | ND | 10 | 5.1 |
| BENZO(G,H,I)PERYLENE | ND | 10 | 5.1 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 10 | 5.1 |
| BIS(2-CHLOROETHYL)ETHER | ND | 10 | 5.1 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 10 | 5.1 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 20 | 5.1 |
| BUTYLBENZYLPHTHALATE | ND | 10 | 5.1 |
| CHRYSENE | ND | 10 | 5.1 |
| DI-N-BUTYLPHTHALATE | ND | 10 | 5.1 |
| DI-N-OCTYLPHTHALATE | ND | 10 | 5.1 |
| DIBENZO(A,H)ANTHRACENE | ND | 10 | 5.1 |
| DIBENZOFURAN | ND | 10 | 5.1 |
| DIETHYLPHTHALATE | ND | 10 | 5.1 |
| DIMETHYLPHTHALATE | ND | 10 | 5.1 |
| FLUORANTHENE | ND | 10 | 5.1 |
| FLUORENE | ND | 10 | 5.1 |
| HEXACHLOROBENZENE | ND | 10 | 5.1 |
| HEXACHLOROBUTADIENE | ND | 10 | 5.1 |
| HEXACHLOROCYCLOPENTADIENE | ND | 20 | 5.1 |
| HEXACHLOROETHANE | ND | 10 | 5.1 |
| INDENO(1,2,3-CD)PYRENE | ND | 10 | 5.1 |
| ISOPHORONE | ND | 10 | 5.1 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 10 | 5.1 |
| N-NITROSODIPHENYLAMINE (2) | ND | 10 | 5.1 |
| NAPHTHALENE | ND | 10 | 5.1 |
| NITROBENZENE | ND | 10 | 5.1 |
| PENTACHLOROPHENOL | ND | 20 | 5.1 |
| PHENANTHRENE | ND | 10 | 5.1 |
| PHENOL | ND | 10 | 5.1 |
| PYRENE | ND | 10 | 5.1 |
| BENZYL ALCOHOL | ND | 10 | 5.1 |
| 1-METHYLNAPHTHALENE | ND | 10 | 5.1 |
| 1,2-DIPHENYLHYDRAZINE | ND | 10 | 5.1 |
| 3,5-DIMETHYLPHENOL | ND | 20 | 5.1 |
| ANILINE | ND | 20 | 10 |
| BENZIDINE | ND | 51 | 20 |
| BENZOIC ACID | ND | 41 | 20 |
| CARBAZOLE | ND | 10 | 5.1 |
| N-NITROSODIMETHYLAMINE | ND | 10 | 5.1 |
| TETRALIN | ND | 10 | 10 |
| 2-BUTOXYETHANOL | ND | 10 | 10 |
| 2-PHENOXYETHANOL | ND | 10 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 45.1 | 61.20 | 73.7 | 30-130 |
| 2-FLUOROBIPHENYL | 11.9 | 20.40 | 58.2 | 45-130 |
| 2-FLUOROPHENOL | 35.0 | 61.20 | 57.3 | 20-130 |
| NITROBENZENE-D5 | 14.7 | 20.40 | 72.0 | 40-130 |
| PHENOL-D5 | 40.9 | 61.20 | 66.8 | 20-120 |
| TERPHENYL-D14 | 18.1 | 20.40 | 88.8 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/25/12 |
| Batch No. : 12D197 | Date Extracted: 04/25/1215:00 |
| Sample ID: MBLK1W | Date Analyzed: 05/02/12 14:40 |
| Lab Samp ID: SVD048WQ | Dilution Factor: 1 |
| Lab File ID: REF040 | Matrix : WATER |
| Ext Btch ID: SVD048W | % Moisture : NA |
| Calib. Ref.: RDF015 | Instrument ID : T-OF0 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 10 | 5.0 |
| 1,2-DICHLOROBENZENE | ND | 10 | 5.0 |
| 1,3-DICHLOROBENZENE | ND | 10 | 5.0 |
| 1,4-DICHLOROBENZENE | ND | 10 | 5.0 |
| 2,4,5-TRICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4,6-TRICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4-DICHLOROPHENOL | ND | 10 | 5.0 |
| 2,4-DIMETHYLPHENOL | ND | 10 | 5.0 |
| 2,4-DINITROPHENOL | ND | 20 | 5.0 |
| 2,4-DINITROTOLUENE | ND | 10 | 5.0 |
| 2,6-DINITROTOLUENE | ND | 10 | 5.0 |
| 2-CHLORONAPHTHALENE | ND | 10 | 5.0 |
| 2-CHLOROPHENOL | ND | 10 | 5.0 |
| 2-METHYLNAPHTHALENE | ND | 10 | 5.0 |
| 2-METHYLPHENOL | ND | 10 | 5.0 |
| 2-NITROANILINE | ND | 10 | 5.0 |
| 2-NITROPHENOL | ND | 10 | 5.0 |
| 3,3'-DICHLOROBENZIDINE | ND | 10 | 5.0 |
| 3-NITROANILINE | ND | 10 | 5.0 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 20 | 5.0 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 10 | 5.0 |
| 4-CHLORO-3-METHYLPHENOL | ND | 10 | 5.0 |
| 4-CHLOROANILINE | ND | 10 | 5.0 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 10 | 5.0 |
| 4-METHYLPHENOL (1) | ND | 10 | 5.0 |
| 4-NITROANILINE | ND | 10 | 5.0 |
| 4-NITROPHENOL | ND | 20 | 5.0 |
| ACENAPHTHENE | ND | 10 | 5.0 |
| ACENAPHTHYLENE | ND | 10 | 5.0 |
| ANTHRACENE | ND | 10 | 5.0 |
| BENZO(A)ANTHRACENE | ND | 10 | 5.0 |
| BENZO(A)PYRENE | ND | 10 | 5.0 |
| BENZO(B)FLUORANTHENE | ND | 10 | 5.0 |
| BENZO(K)FLUORANTHENE | ND | 10 | 5.0 |
| BENZO(G,H,I)PERYLENE | ND | 10 | 5.0 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 10 | 5.0 |
| BIS(2-CHLOROETHYL)ETHER | ND | 10 | 5.0 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 10 | 5.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 20 | 5.0 |
| BUTYLBENZYLPHTHALATE | ND | 10 | 5.0 |
| CHRYSENE | ND | 10 | 5.0 |
| DI-N-BUTYLPHTHALATE | ND | 10 | 5.0 |
| DI-N-OCTYLPHTHALATE | ND | 10 | 5.0 |
| DIBENZO(A,H)ANTHRACENE | ND | 10 | 5.0 |
| DIBENZOFURAN | ND | 10 | 5.0 |
| DIETHYLPHTHALATE | ND | 10 | 5.0 |
| DIMETHYLPHTHALATE | ND | 10 | 5.0 |
| FLUORANTHENE | ND | 10 | 5.0 |
| FLUORENE | ND | 10 | 5.0 |
| HEXACHLOROBENZENE | ND | 10 | 5.0 |
| HEXACHLOROBUTADIENE | ND | 10 | 5.0 |
| HEXACHLOROCYCLOPENTADIENE | ND | 20 | 5.0 |
| HEXACHLOROETHANE | ND | 10 | 5.0 |
| INDENO(1,2,3-CD)PYRENE | ND | 10 | 5.0 |
| ISOPHORONE | ND | 10 | 5.0 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 10 | 5.0 |
| N-NITROSODIPHENYLAMINE (2) | ND | 10 | 5.0 |
| NAPHTHALENE | ND | 10 | 5.0 |
| NITROBENZENE | ND | 10 | 5.0 |
| PENTACHLOROPHENOL | ND | 20 | 5.0 |
| PHENANTHRENE | ND | 10 | 5.0 |
| PHENOL | ND | 10 | 5.0 |
| PYRENE | ND | 10 | 5.0 |
| BENZYL ALCOHOL | ND | 10 | 5.0 |
| 1-METHYLNAPHTHALENE | ND | 10 | 5.0 |
| 1,2-DIPHENYLHYDRAZINE | ND | 10 | 5.0 |
| 3,5-DIMETHYLPHENOL | ND | 20 | 5.0 |
| ANILINE | ND | 20 | 10 |
| BENZIDINE | ND | 50 | 20 |
| BENZOIC ACID | ND | 40 | 20 |
| CARBAZOLE | ND | 10 | 5.0 |
| N-NITROSODIMETHYLAMINE | ND | 10 | 5.0 |
| TETRALIN | ND | 10 | 10 |
| 2-BUTOXYETHANOL | ND | 10 | 10 |
| 2-PHENOXYETHANOL | ND | 10 | 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 42.9 | 60.00 | 71.4 | 30-130 |
| 2-FLUOROBIPHENYL | 12.2 | 20.00 | 60.8 | 45-130 |
| 2-FLUOROPHENOL | 34.2 | 60.00 | 57.0 | 20-130 |
| NITROBENZENE-D5 | 15.9 | 20.00 | 79.4 | 40-130 |
| PHENOL-D5 | 38.8 | 60.00 | 64.7 | 20-120 |
| TERPHENYL-D14 | 19.8 | 20.00 | 99.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D197
METHOD: METHOD 3520C/8270C

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: SVD048WQ SVD048WL SVD048WC
LAB FILE ID: REF040 REF038 REF039
DATE EXTRACTED: 04/25/1215:00 04/25/1215:00 04/25/1215:00 DATE COLLECTED: NA
DATE ANALYZED: 05/02/1214:40 05/02/1213:55 05/02/1214:14 DATE RECEIVED: 04/25/12
PREP. BATCH: SVD048W SVD048W SVD048W
CALIB. REF: RDF015 RDF015 RDF015

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 40.0 | 24.2 | 61 | 40.0 | 28.2 | 71 | 15 | 30-130 | 30 |
| 1,2-Dichlorobenzene | ND | 40.0 | 26.6 | 66 | 40.0 | 29.5 | 74 | 10 | 30-130 | 30 |
| 1,3-Dichlorobenzene | ND | 40.0 | 26.8 | 67 | 40.0 | 29.2 | 73 | 9 | 30-130 | 30 |
| 1,4-Dichlorobenzene | ND | 40.0 | 27.2 | 68 | 40.0 | 29.5 | 74 | 8 | 30-130 | 30 |
| 2,4,5-Trichlorophenol | ND | 40.0 | 26.1 | 65 | 40.0 | 26.4 | 66 | 1 | 30-130 | 30 |
| 2,4,6-Trichlorophenol | ND | 40.0 | 28.2 | 70 | 40.0 | 28.5 | 71 | 1 | 30-130 | 30 |
| 2,4-Dichlorophenol | ND | 40.0 | 25.6 | 64 | 40.0 | 28.6 | 72 | 11 | 40-130 | 30 |
| 2,4-Dimethylphenol | ND | 40.0 | 26.8 | 67 | 40.0 | 30.3 | 76 | 12 | 30-130 | 30 |
| 2,4-Dinitrophenol | ND | 40.0 | 28.3 | 71 | 40.0 | 29.8 | 75 | 5 | 30-130 | 30 |
| 2,4-Dinitrotoluene | ND | 40.0 | 38.4 | 96 | 40.0 | 41.4 | 103 | 7 | 40-130 | 30 |
| 2,6-Dinitrotoluene | ND | 40.0 | 37.0 | 92 | 40.0 | 40.0 | 100 | 8 | 40-130 | 30 |
| 2-Chloronaphthalene | ND | 40.0 | 28.4 | 71 | 40.0 | 29.8 | 74 | 5 | 40-130 | 30 |
| 2-Chlorophenol | ND | 40.0 | 27.2 | 68 | 40.0 | 28.6 | 72 | 5 | 30-130 | 30 |
| 2-Methylnaphthalene | ND | 40.0 | 30.3 | 76 | 40.0 | 34.6 | 87 | 13 | 40-130 | 30 |
| 2-Methylphenol | ND | 40.0 | 25.3 | 63 | 40.0 | 26.7 | 67 | 5 | 30-130 | 30 |
| 2-Nitroaniline | ND | 40.0 | 31.0 | 77 | 40.0 | 34.2 | 86 | 10 | 40-130 | 30 |
| 2-Nitrophenol | ND | 40.0 | 29.6 | 74 | 40.0 | 28.2 | 70 | 5 | 40-130 | 30 |
| 3,3'-Dichlorobenzidine | ND | 40.0 | 33.7 | 84 | 40.0 | 35.2 | 88 | 4 | 20-140 | 30 |
| 3-Nitroaniline | ND | 40.0 | 34.8 | 87 | 40.0 | 38.0 | 95 | 9 | 30-130 | 30 |
| 4,6-Dinitro-2-Methylphenol | ND | 40.0 | 30.1 | 75 | 40.0 | 34.7 | 87 | 14 | 40-130 | 30 |
| 4-Bromophenyl-phenylether | ND | 40.0 | 38.7 | 97 | 40.0 | 43.2 | 108 | 11 | 50-130 | 30 |
| 4-Chloro-3-Methylphenol | ND | 40.0 | 29.6 | 74 | 40.0 | 32.8 | 82 | 10 | 30-130 | 30 |
| 4-Chloroaniline | ND | 40.0 | 23.5 | 59 | 40.0 | 27.3 | 68 | 15 | 30-130 | 30 |
| 4-Chlorophenyl-phenylether | ND | 40.0 | 31.9 | 80 | 40.0 | 36.2 | 90 | 12 | 50-130 | 30 |
| 4-Methylphenol | ND | 40.0 | 25.2 | 63 | 40.0 | 27.5 | 69 | 9 | 30-130 | 30 |
| 4-Nitroaniline | ND | 40.0 | 36.7 | 92 | 40.0 | 38.0 | 95 | 4 | 30-130 | 30 |
| 4-Nitrophenol | ND | 40.0 | 32.9 | 82 | 40.0 | 35.1 | 88 | 7 | 30-130 | 30 |
| Acenaphthene | ND | 40.0 | 31.8 | 80 | 40.0 | 35.5 | 89 | 11 | 40-130 | 30 |
| Acenaphthylene | ND | 40.0 | 29.9 | 75 | 40.0 | 34.6 | 87 | 15 | 40-130 | 30 |
| Anthracene | ND | 40.0 | 34.2 | 86 | 40.0 | 36.3 | 91 | 6 | 50-130 | 30 |
| Benzo(a)anthracene | ND | 40.0 | 38.1 | 95 | 40.0 | 42.2 | 105 | 10 | 50-130 | 30 |
| Benzo(a)pyrene | ND | 40.0 | 38.5 | 96 | 40.0 | 38.7 | 97 | 1 | 50-130 | 30 |
| Benzo(b)fluoranthene | ND | 40.0 | 39.2 | 98 | 40.0 | 39.2 | 98 | 0 | 40-140 | 30 |
| Benzo(k)fluoranthene | ND | 40.0 | 39.6 | 99 | 40.0 | 41.0 | 103 | 3 | 40-130 | 30 |
| Benzo(g,h,i)perylene | ND | 40.0 | 43.2 | 108 | 40.0 | 47.4 | 118 | 9 | 40-130 | 30 |
| bis(2-Chloroethoxy)methane | ND | 40.0 | 28.9 | 72 | 40.0 | 34.0 | 85 | 16 | 40-130 | 30 |
| bis(2-Chloroethyl)ether | ND | 40.0 | 31.5 | 79 | 40.0 | 34.6 | 87 | 9 | 30-130 | 30 |
| bis(2-Chloroisopropyl)ether | ND | 40.0 | 28.7 | 72 | 40.0 | 32.8 | 82 | 14 | 20-130 | 30 |
| bis(2-Ethylhexyl)phthalate | ND | 40.0 | 35.8 | 90 | 40.0 | 40.6 | 102 | 13 | 20-140 | 30 |
| Butylbenzylphthalate | ND | 40.0 | 34.5 | 86 | 40.0 | 39.3 | 98 | 13 | 40-130 | 30 |
| Chrysene | ND | 40.0 | 38.9 | 97 | 40.0 | 42.6 | 107 | 9 | 40-130 | 30 |
| Di-n-butylphthalate | ND | 40.0 | 33.9 | 85 | 40.0 | 38.1 | 95 | 12 | 30-160 | 30 |
| Di-n-octylphthalate | ND | 40.0 | 32.7 | 82 | 40.0 | 35.7 | 89 | 9 | 20-150 | 30 |
| Dibenzo(a,h)anthracene | ND | 40.0 | 41.4 | 103 | 40.0 | 45.2 | 113 | 9 | 40-130 | 30 |
| Dibenzofuran | ND | 40.0 | 32.4 | 81 | 40.0 | 35.9 | 90 | 10 | 40-130 | 30 |
| Diethylphthalate | ND | 40.0 | 35.1 | 88 | 40.0 | 37.3 | 93 | 6 | 30-140 | 30 |
| Dimethylphthalate | ND | 40.0 | 33.2 | 83 | 40.0 | 36.5 | 91 | 10 | 30-130 | 30 |
| Fluoranthene | ND | 40.0 | 36.7 | 92 | 40.0 | 38.1 | 95 | 4 | 40-130 | 30 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 40.0 | 35.1 | 88 | 40.0 | 41.8 | 105 | 17 | 40-130 | 30 |
| Hexachlorobenzene | ND | 40.0 | 35.1 | 88 | 40.0 | 40.1 | 100 | 13 | 30-130 | 30 |
| Hexachlorobutadiene | ND | 40.0 | 27.4 | 69 | 40.0 | 30.1 | 75 | 9 | 10-130 | 30 |
| Hexachlorocyclopentadiene | ND | 40.0 | 20.3 | 51 | 40.0 | 21.3 | 53 | 5 | 10-130 | 30 |
| Hexachloroethane | ND | 40.0 | 26.8 | 67 | 40.0 | 29.5 | 74 | 10 | 20-130 | 30 |
| Indeno(1,2,3-cd)pyrene | ND | 40.0 | 41.9 | 105 | 40.0 | 45.1 | 113 | 7 | 50-130 | 30 |
| Isophorone | ND | 40.0 | 31.9 | 80 | 40.0 | 38.4 | 96 | 18 | 40-130 | 30 |
| n-Nitroso-di-n-propylamine | ND | 40.0 | 25.3 | 63 | 40.0 | 27.7 | 69 | 9 | 30-130 | 30 |
| n-Nitrosodiphenylamine | ND | 40.0 | 26.3 | 66 | 40.0 | 28.3 | 71 | 7 | 10-150 | 30 |
| Naphthalene | ND | 40.0 | 27.6 | 69 | 40.0 | 34.2 | 86 | 21 | 20-130 | 30 |
| Nitrobenzene | ND | 40.0 | 36.4 | 91 | 40.0 | 41.0 | 103 | 12 | 30-130 | 30 |
| Pentachlorophenol | ND | 40.0 | 36.5 | 91 | 40.0 | 36.6 | 92 | 0 | 30-130 | 30 |
| Phenanthrene | ND | 40.0 | 37.6 | 94 | 40.0 | 40.2 | 100 | 7 | 40-130 | 30 |
| Phenol | ND | 40.0 | 28.2 | 70 | 40.0 | 29.3 | 73 | 4 | 20-130 | 30 |
| Pyrene | ND | 40.0 | 36.5 | 91 | 40.0 | 40.9 | 102 | 11 | 40-130 | 30 |
| Benzyl Alcohol | ND | 40.0 | 27.2 | 68 | 40.0 | 31.7 | 79 | 15 | 30-130 | 30 |
| 1-Methylnaphthalene | ND | 40.0 | 31.3 | 78 | 40.0 | 35.6 | 89 | 13 | 40-130 | 30 |
| 1,2-Diphenylhydrazine | ND | 40.0 | 38.6 | 97 | 40.0 | 44.2 | 110 | 13 | 30-130 | 30 |
| 3,5-Dimethylphenol | ND | 40.0 | 24.4 | 61 | 40.0 | 26.6 | 66 | 8 | 20-150 | 30 |
| Aniline | ND | 40.0 | 21.4 | 53 | 40.0 | 24.7 | 62 | 14 | 10-130 | 30 |
| Benzidine | ND | 80.0 | 34.7J | 43 | 80.0 | 28.9J | 36 | 18 | 20-130 | 30 |
| Benzoic Acid | ND | 80.0 | 43.3 | 54 | 80.0 | 49.5 | 62 | 14 | 10-130 | 30 |
| Carbazole | ND | 40.0 | 35.1 | 88 | 40.0 | 37.8 | 94 | 7 | 50-130 | 30 |
| N-Nitrosodimethylamine | ND | 40.0 | 31.1 | 78 | 40.0 | 36.4 | 91 | 16 | 30-150 | 30 |

==========

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 60.0 | 41.9 | 70 | 60.0 | 41.6 | 69 | 30-130 |
| 2-Fluorobiphenyl | 20.0 | 10.3 | 51 | 20.0 | 11.5 | 57 | 45-130 |
| 2-Fluorophenol | 60.0 | 30.0 | 50 | 60.0 | 28.2 | 47 | 20-130 |
| Nitrobenzene-d5 | 20.0 | 12.2 | 61 | 20.0 | 13.5 | 68 | 40-130 |
| Phenol-d5 | 60.0 | 33.3 | 56 | 60.0 | 34.5 | 58 | 20-120 |
| Terphenyl-d14 | 20.0 | 15.1 | 76 | 20.0 | 16.6 | 83 | 45-135 |

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D197 | Date Extracted: 04/27/1216:14 |
| Sample ID: SL-199-NBZ-SS-0.0-0.5 | Date Analyzed: 05/07/12 15:20 |
| Lab Samp ID: D197-01 | Dilution Factor: 1 |
| Lab File ID: REJ142 | Matrix : SOIL |
| Ext Btch ID: SVD051S | % Moisture : 7.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 91 |
| 1,2-DICHLOROBENZENE | ND | 180 | 91 |
| 1,3-DICHLOROBENZENE | ND | 180 | 91 |
| 1,4-DICHLOROBENZENE | ND | 180 | 91 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DICHLOROPHENOL | ND | 180 | 91 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 91 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 91 |
| 2,6-DINITROTOLUENE | ND | 180 | 91 |
| 2-CHLORONAPHTHALENE | ND | 180 | 91 |
| 2-CHLOROPHENOL | ND | 180 | 91 |
| 2-METHYLNAPHTHALENE | ND | 180 | 91 |
| 2-METHYLPHENOL | ND | 180 | 91 |
| 2-NITROANILINE | ND | 180 | 91 |
| 2-NITROPHENOL | ND | 180 | 91 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 91 |
| 3-NITROANILINE | ND | 180 | 91 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 91 |
| 4-CHLOROANILINE | ND | 180 | 91 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 91 |
| 4-METHYLPHENOL (1) | ND | 180 | 91 |
| 4-NITROANILINE | ND | 180 | 91 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 91 |
| ACENAPHTHYLENE | ND | 180 | 91 |
| ANTHRACENE | ND | 180 | 91 |
| BENZO(A)ANTHRACENE | ND | 180 | 91 |
| BENZO(A)PYRENE | ND | 180 | 91 |
| BENZO(B)FLUORANTHENE | ND | 180 | 91 |
| BENZO(K)FLUORANTHENE | ND | 180 | 91 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 91 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 91 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 91 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 91 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 91 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 91 |
| CHRYSENE | ND | 180 | 91 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 91 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 91 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 91 |
| DIBENZOFURAN | ND | 180 | 91 |
| DIETHYLPHTHALATE | ND | 180 | 91 |
| DIMETHYLPHTHALATE | ND | 180 | 91 |
| FLUORANTHENE | ND | 180 | 91 |
| FLUORENE | ND | 180 | 91 |
| HEXACHLOROBENZENE | ND | 180 | 91 |
| HEXACHLOROBUTADIENE | ND | 180 | 91 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 91 |
| HEXACHLOROETHANE | ND | 180 | 91 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 91 |
| ISOPHORONE | ND | 180 | 91 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 91 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 91 |
| NAPHTHALENE | ND | 180 | 91 |
| NITROBENZENE | ND | 180 | 91 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 91 |
| PHENOL | ND | 180 | 91 |
| PYRENE | ND | 180 | 91 |
| BENZYL ALCOHOL | ND | 180 | 91 |
| 1-METHYLNAPHTHALENE | ND | 180 | 91 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 91 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 91 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 900 | 460 |
| BENZOIC ACID | ND | 720 | 360 |
| CARBAZOLE | ND | 180 | 91 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 91 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 923 | 1083 | 85.2 | 35-130 |
| 2-FLUOROBIPHENYL | 225 | 361.1 | 62.3 | 45-130 |
| 2-FLUOROPHENOL | 672 | 1083 | 62.0 | 25-130 |
| NITROBENZENE-D5 | 241 | 361.1 | 66.7 | 40-130 |
| PHENOL-D5 | 688 | 1083 | 63.5 | 25-120 |
| TERPHENYL-D14 | 302 | 361.1 | 83.7 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D197 | Date Extracted: 04/27/1216:14 |
| Sample ID: SL-200-NBZ-SS-0.0-0.5 | Date Analyzed: 05/07/12 15:39 |
| Lab Samp ID: D197-02 | Dilution Factor: 1 |
| Lab File ID: REJ143 | Matrix : SOIL |
| Ext Btch ID: SVD051S | % Moisture : 8.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 180 | 92 |
| 1,2-DICHLOROBENZENE | ND | 180 | 92 |
| 1,3-DICHLOROBENZENE | ND | 180 | 92 |
| 1,4-DICHLOROBENZENE | ND | 180 | 92 |
| 2,4,5-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4,6-TRICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DICHLOROPHENOL | ND | 180 | 92 |
| 2,4-DIMETHYLPHENOL | ND | 180 | 92 |
| 2,4-DINITROPHENOL | ND | 360 | 180 |
| 2,4-DINITROTOLUENE | ND | 180 | 92 |
| 2,6-DINITROTOLUENE | ND | 180 | 92 |
| 2-CHLORONAPHTHALENE | ND | 180 | 92 |
| 2-CHLOROPHENOL | ND | 180 | 92 |
| 2-METHYLNAPHTHALENE | ND | 180 | 92 |
| 2-METHYLPHENOL | ND | 180 | 92 |
| 2-NITROANILINE | ND | 180 | 92 |
| 2-NITROPHENOL | ND | 180 | 92 |
| 3,3'-DICHLOROBENZIDINE | ND | 180 | 92 |
| 3-NITROANILINE | ND | 180 | 92 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 360 | 180 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-CHLORO-3-METHYLPHENOL | ND | 180 | 92 |
| 4-CHLOROANILINE | ND | 180 | 92 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 180 | 92 |
| 4-METHYLPHENOL (1) | ND | 180 | 92 |
| 4-NITROANILINE | ND | 180 | 92 |
| 4-NITROPHENOL | ND | 360 | 180 |
| ACENAPHTHENE | ND | 180 | 92 |
| ACENAPHTHYLENE | ND | 180 | 92 |
| ANTHRACENE | ND | 180 | 92 |
| BENZO(A)ANTHRACENE | ND | 180 | 92 |
| BENZO(A)PYRENE | ND | 180 | 92 |
| BENZO(B)FLUORANTHENE | ND | 180 | 92 |
| BENZO(K)FLUORANTHENE | ND | 180 | 92 |
| BENZO(G,H,I)PERYLENE | ND | 180 | 92 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 180 | 92 |
| BIS(2-CHLOROETHYL)ETHER | ND | 180 | 92 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 180 | 92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 180 | 92 |
| BUTYLBENZYLPHTHALATE | ND | 180 | 92 |
| CHRYSENE | ND | 180 | 92 |
| DI-N-BUTYLPHTHALATE | ND | 180 | 92 |
| DI-N-OCTYLPHTHALATE | ND | 180 | 92 |
| DIBENZO(A,H)ANTHRACENE | ND | 180 | 92 |
| DIBENZOFURAN | ND | 180 | 92 |
| DIETHYLPHTHALATE | ND | 180 | 92 |
| DIMETHYLPHTHALATE | ND | 180 | 92 |
| FLUORANTHENE | ND | 180 | 92 |
| FLUORENE | ND | 180 | 92 |
| HEXACHLOROBENZENE | ND | 180 | 92 |
| HEXACHLOROBUTADIENE | ND | 180 | 92 |
| HEXACHLOROCYCLOPENTADIENE | ND | 180 | 92 |
| HEXACHLOROETHANE | ND | 180 | 92 |
| INDENO(1,2,3-CD)PYRENE | ND | 180 | 92 |
| ISOPHORONE | ND | 180 | 92 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 180 | 92 |
| N-NITROSODIPHENYLAMINE (2) | ND | 180 | 92 |
| NAPHTHALENE | ND | 180 | 92 |
| NITROBENZENE | ND | 180 | 92 |
| PENTACHLOROPHENOL | ND | 360 | 180 |
| PHENANTHRENE | ND | 180 | 92 |
| PHENOL | ND | 180 | 92 |
| PYRENE | ND | 180 | 92 |
| BENZYL ALCOHOL | ND | 180 | 92 |
| 1-METHYLNAPHTHALENE | ND | 180 | 92 |
| 1,2-DIPHENYLHYDRAZINE | ND | 180 | 92 |
| 3,5-DIMETHYLPHENOL | ND | 180 | 92 |
| ANILINE | ND | 360 | 180 |
| BENZIDINE | ND | 910 | 460 |
| BENZOIC ACID | ND | 730 | 370 |
| CARBAZOLE | ND | 180 | 92 |
| N-NITROSODIMETHYLAMINE | ND | 180 | 92 |
| TETRALIN | ND | 180 | 180 |
| 2-BUTOXYETHANOL | ND | 180 | 180 |
| 2-PHENOXYETHANOL | ND | 180 | 180 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 807 | 1095 | 73.7 | 35-130 |
| 2-FLUOROBIPHENYL | 175 | 365.1 | 47.9 | 45-130 |
| 2-FLUOROPHENOL | 495 | 1095 | 45.2 | 25-130 |
| NITROBENZENE-D5 | 182 | 365.1 | 49.9 | 40-130 |
| PHENOL-D5 | 563 | 1095 | 51.4 | 25-120 |
| TERPHENYL-D14 | 272 | 365.1 | 74.6 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D197 | Date Extracted: 04/27/1216:14 |
| Sample ID: SL-201-NBZ-SS-0.0-0.5 | Date Analyzed: 05/07/12 15:58 |
| Lab Samp ID: D197-03 | Dilution Factor: 1 |
| Lab File ID: REJ144 | Matrix : SOIL |
| Ext Btch ID: SVD051S | % Moisture : 15.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 200 | 99 |
| 1,2-DICHLOROBENZENE | ND | 200 | 99 |
| 1,3-DICHLOROBENZENE | ND | 200 | 99 |
| 1,4-DICHLOROBENZENE | ND | 200 | 99 |
| 2,4,5-TRICHLOROPHENOL | ND | 200 | 99 |
| 2,4,6-TRICHLOROPHENOL | ND | 200 | 99 |
| 2,4-DICHLOROPHENOL | ND | 200 | 99 |
| 2,4-DIMETHYLPHENOL | ND | 200 | 99 |
| 2,4-DINITROPHENOL | ND | 390 | 200 |
| 2,4-DINITROTOLUENE | ND | 200 | 99 |
| 2,6-DINITROTOLUENE | ND | 200 | 99 |
| 2-CHLORONAPHTHALENE | ND | 200 | 99 |
| 2-CHLOROPHENOL | ND | 200 | 99 |
| 2-METHYLNAPHTHALENE | ND | 200 | 99 |
| 2-METHYLPHENOL | ND | 200 | 99 |
| 2-NITROANILINE | ND | 200 | 99 |
| 2-NITROPHENOL | ND | 200 | 99 |
| 3,3'-DICHLOROBENZIDINE | ND | 200 | 99 |
| 3-NITROANILINE | ND | 200 | 99 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 390 | 200 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 200 | 99 |
| 4-CHLORO-3-METHYLPHENOL | ND | 200 | 99 |
| 4-CHLOROANILINE | ND | 200 | 99 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 200 | 99 |
| 4-METHYLPHENOL (1) | ND | 200 | 99 |
| 4-NITROANILINE | ND | 200 | 99 |
| 4-NITROPHENOL | ND | 390 | 200 |
| ACENAPHTHENE | ND | 200 | 99 |
| ACENAPHTHYLENE | ND | 200 | 99 |
| ANTHRACENE | ND | 200 | 99 |
| BENZO(A)ANTHRACENE | ND | 200 | 99 |
| BENZO(A)PYRENE | ND | 200 | 99 |
| BENZO(B)FLUORANTHENE | ND | 200 | 99 |
| BENZO(K)FLUORANTHENE | ND | 200 | 99 |
| BENZO(G,H,I)PERYLENE | ND | 200 | 99 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 200 | 99 |
| BIS(2-CHLOROETHYL)ETHER | ND | 200 | 99 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 200 | 99 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 200 | 99 |
| BUTYLBENZYLPHTHALATE | ND | 200 | 99 |
| CHRYSENE | ND | 200 | 99 |
| DI-N-BUTYLPHTHALATE | ND | 200 | 99 |
| DI-N-OCTYLPHTHALATE | ND | 200 | 99 |
| DIBENZO(A,H)ANTHRACENE | ND | 200 | 99 |
| DIBENZOFURAN | ND | 200 | 99 |
| DIETHYLPHTHALATE | ND | 200 | 99 |
| DIMETHYLPHTHALATE | ND | 200 | 99 |
| FLUORANTHENE | ND | 200 | 99 |
| FLUORENE | ND | 200 | 99 |
| HEXACHLOROBENZENE | ND | 200 | 99 |
| HEXACHLOROBUTADIENE | ND | 200 | 99 |
| HEXACHLOROCYCLOPENTADIENE | ND | 200 | 99 |
| HEXACHLOROETHANE | ND | 200 | 99 |
| INDENO(1,2,3-CD)PYRENE | ND | 200 | 99 |
| ISOPHORONE | ND | 200 | 99 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 200 | 99 |
| N-NITROSODIPHENYLAMINE (2) | ND | 200 | 99 |
| NAPHTHALENE | ND | 200 | 99 |
| NITROBENZENE | ND | 200 | 99 |
| PENTACHLOROPHENOL | ND | 390 | 200 |
| PHENANTHRENE | ND | 200 | 99 |
| PHENOL | ND | 200 | 99 |
| PYRENE | ND | 200 | 99 |
| BENZYL ALCOHOL | ND | 200 | 99 |
| 1-METHYLNAPHTHALENE | ND | 200 | 99 |
| 1,2-DIPHENYLHYDRAZINE | ND | 200 | 99 |
| 3,5-DIMETHYLPHENOL | ND | 200 | 99 |
| ANILINE | ND | 390 | 200 |
| BENZIDINE | ND | 980 | 490 |
| BENZOIC ACID | ND | 790 | 390 |
| CARBAZOLE | ND | 200 | 99 |
| N-NITROSODIMETHYLAMINE | ND | 200 | 99 |
| TETRALIN | ND | 200 | 200 |
| 2-BUTOXYETHANOL | ND | 200 | 200 |
| 2-PHENOXYETHANOL | ND | 200 | 200 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 852 | 1178 | 72.3 | 35-130 |
| 2-FLUOROBIPHENYL | 186 | 392.6 | 47.3 | 45-130 |
| 2-FLUOROPHENOL | 659 | 1178 | 56.0 | 25-130 |
| NITROBENZENE-D5 | 247 | 392.6 | 62.8 | 40-130 |
| PHENOL-D5 | 725 | 1178 | 61.6 | 25-120 |
| TERPHENYL-D14 | 267 | 392.6 | 68.1 | 45-135 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/27/12 |
| Batch No. : 12D197 | Date Extracted: 04/27/1216:14 |
| Sample ID: MBLK1S | Date Analyzed: 05/07/12 12:31 |
| Lab Samp ID: SVD051SB | Dilution Factor: 1 |
| Lab File ID: REJ133 | Matrix : SOIL |
| Ext Btch ID: SVD051S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | ND | 170 | 84 |
| 1,2-DICHLOROBENZENE | ND | 170 | 84 |
| 1,3-DICHLOROBENZENE | ND | 170 | 84 |
| 1,4-DICHLOROBENZENE | ND | 170 | 84 |
| 2,4,5-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4,6-TRICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DICHLOROPHENOL | ND | 170 | 84 |
| 2,4-DIMETHYLPHENOL | ND | 170 | 84 |
| 2,4-DINITROPHENOL | ND | 330 | 170 |
| 2,4-DINITROTOLUENE | ND | 170 | 84 |
| 2,6-DINITROTOLUENE | ND | 170 | 84 |
| 2-CHLORONAPHTHALENE | ND | 170 | 84 |
| 2-CHLOROPHENOL | ND | 170 | 84 |
| 2-METHYLNAPHTHALENE | ND | 170 | 84 |
| 2-METHYLPHENOL | ND | 170 | 84 |
| 2-NITROANILINE | ND | 170 | 84 |
| 2-NITROPHENOL | ND | 170 | 84 |
| 3,3'-DICHLOROBENZIDINE | ND | 170 | 84 |
| 3-NITROANILINE | ND | 170 | 84 |
| 4,6-DINITRO-2-METHYLPHENOL | ND | 330 | 170 |
| 4-BROMOPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-CHLORO-3-METHYLPHENOL | ND | 170 | 84 |
| 4-CHLOROANILINE | ND | 170 | 84 |
| 4-CHLOROPHENYL-PHENYLETHER | ND | 170 | 84 |
| 4-METHYLPHENOL (1) | ND | 170 | 84 |
| 4-NITROANILINE | ND | 170 | 84 |
| 4-NITROPHENOL | ND | 330 | 170 |
| ACENAPHTHENE | ND | 170 | 84 |
| ACENAPHTHYLENE | ND | 170 | 84 |
| ANTHRACENE | ND | 170 | 84 |
| BENZO(A)ANTHRACENE | ND | 170 | 84 |
| BENZO(A)PYRENE | ND | 170 | 84 |
| BENZO(B)FLUORANTHENE | ND | 170 | 84 |
| BENZO(K)FLUORANTHENE | ND | 170 | 84 |
| BENZO(G,H,I)PERYLENE | ND | 170 | 84 |
| BIS(2-CHLOROETHOXY)METHANE | ND | 170 | 84 |
| BIS(2-CHLOROETHYL)ETHER | ND | 170 | 84 |
| BIS(2-CHLOROISOPROPYL)ETHER | ND | 170 | 84 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 170 | 84 |
| BUTYLBENZYLPHTHALATE | ND | 170 | 84 |
| CHRYSENE | ND | 170 | 84 |
| DI-N-BUTYLPHTHALATE | ND | 170 | 84 |
| DI-N-OCTYLPHTHALATE | ND | 170 | 84 |
| DIBENZO(A,H)ANTHRACENE | ND | 170 | 84 |
| DIBENZOFURAN | ND | 170 | 84 |
| DIETHYLPHTHALATE | ND | 170 | 84 |
| DIMETHYLPHTHALATE | ND | 170 | 84 |
| FLUORANTHENE | ND | 170 | 84 |
| FLUORENE | ND | 170 | 84 |
| HEXACHLOROBENZENE | ND | 170 | 84 |
| HEXACHLOROBUTADIENE | ND | 170 | 84 |
| HEXACHLOROCYCLOPENTADIENE | ND | 170 | 84 |
| HEXACHLOROETHANE | ND | 170 | 84 |
| INDENO(1,2,3-CD)PYRENE | ND | 170 | 84 |
| ISOPHORONE | ND | 170 | 84 |
| N-NITROSO-DI-N-PROPYLAMINE | ND | 170 | 84 |
| N-NITROSODIPHENYLAMINE (2) | ND | 170 | 84 |
| NAPHTHALENE | ND | 170 | 84 |
| NITROBENZENE | ND | 170 | 84 |
| PENTACHLOROPHENOL | ND | 330 | 170 |
| PHENANTHRENE | ND | 170 | 84 |
| PHENOL | ND | 170 | 84 |
| PYRENE | ND | 170 | 84 |
| BENZYL ALCOHOL | ND | 170 | 84 |
| 1-METHYLNAPHTHALENE | ND | 170 | 84 |
| 1,2-DIPHENYLHYDRAZINE | ND | 170 | 84 |
| 3,5-DIMETHYLPHENOL | ND | 170 | 84 |
| ANILINE | ND | 330 | 170 |
| BENZIDINE | ND | 830 | 420 |
| BENZOIC ACID | ND | 670 | 330 |
| CARBAZOLE | ND | 170 | 84 |
| N-NITROSODIMETHYLAMINE | ND | 170 | 84 |
| TETRALIN | ND | 170 | 170 |
| 2-BUTOXYETHANOL | ND | 170 | 170 |
| 2-PHENOXYETHANOL | ND | 170 | 170 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 2,4,6-TRIBROMOPHENOL | 696 | 1000 | 69.6 | 35-130 |
| 2-FLUOROBIPHENYL | 218 | 333.3 | 65.3 | 45-130 |
| 2-FLUOROPHENOL | 672 | 1000 | 67.2 | 25-130 |
| NITROBENZENE-D5 | 259 | 333.3 | 77.8 | 40-130 |
| PHENOL-D5 | 696 | 1000 | 69.6 | 25-120 |
| TERPHENYL-D14 | 272 | 333.3 | 81.6 | 45-130 |

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D197
METHOD: METHOD 3550B/8270C

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: SVD051SB SVD051SL SVD051SC
LAB FILE ID: REJ133 REJ134 REJ135
DATE EXTRACTED: 04/27/1216:14 04/27/1216:14 04/27/1216:14 DATE COLLECTED: NA
DATE ANALYZED: 05/07/1212:31 05/07/1212:50 05/07/1213:09 DATE RECEIVED: 04/27/12
PREP. BATCH: SVD051S SVD051S SVD051S
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 667 | 405 | 61 | 667 | 422 | 63 | 4 | 30-130 | 50 |
| 1,2-Dichlorobenzene | ND | 667 | 388 | 58 | 667 | 395 | 59 | 2 | 40-130 | 50 |
| 1,3-Dichlorobenzene | ND | 667 | 385 | 58 | 667 | 387 | 58 | 1 | 40-130 | 50 |
| 1,4-Dichlorobenzene | ND | 667 | 390 | 59 | 667 | 394 | 59 | 1 | 30-130 | 50 |
| 2,4,5-Trichlorophenol | ND | 667 | 426 | 64 | 667 | 453 | 68 | 6 | 40-130 | 50 |
| 2,4,6-Trichlorophenol | ND | 667 | 464 | 70 | 667 | 478 | 72 | 3 | 40-130 | 50 |
| 2,4-Dichlorophenol | ND | 667 | 449 | 67 | 667 | 470 | 70 | 5 | 40-130 | 50 |
| 2,4-Dimethylphenol | ND | 667 | 452 | 68 | 667 | 466 | 70 | 3 | 40-130 | 50 |
| 2,4-Dinitrophenol | ND | 667 | 512 | 77 | 667 | 462 | 69 | 10 | 20-130 | 50 |
| 2,4-Dinitrotoluene | ND | 667 | 602 | 90 | 667 | 572 | 86 | 5 | 30-130 | 50 |
| 2,6-Dinitrotoluene | ND | 667 | 533 | 80 | 667 | 538 | 81 | 1 | 50-130 | 50 |
| 2-Chloronaphthalene | ND | 667 | 417 | 63 | 667 | 428 | 64 | 3 | 50-130 | 50 |
| 2-Chlorophenol | ND | 667 | 425 | 64 | 667 | 430 | 65 | 1 | 30-130 | 50 |
| 2-Methylnaphthalene | ND | 667 | 492 | 74 | 667 | 519 | 78 | 5 | 40-130 | 50 |
| 2-Methylphenol | ND | 667 | 392 | 59 | 667 | 405 | 61 | 3 | 40-130 | 50 |
| 2-Nitroaniline | ND | 667 | 542 | 81 | 667 | 538 | 81 | 1 | 40-130 | 50 |
| 2-Nitrophenol | ND | 667 | 490 | 73 | 667 | 494 | 74 | 1 | 40-130 | 50 |
| 3,3'-Dichlorobenzidine | ND | 667 | 550 | 82 | 667 | 519 | 78 | 6 | 50-130 | 50 |
| 3-Nitroaniline | ND | 667 | 477 | 72 | 667 | 468 | 70 | 2 | 50-130 | 50 |
| 4,6-Dinitro-2-Methylphenol | ND | 667 | 565 | 85 | 667 | 481 | 72 | 16 | 40-160 | 50 |
| 4-Bromophenyl-phenylether | ND | 667 | 439 | 66 | 667 | 472 | 71 | 7 | 40-140 | 50 |
| 4-Chloro-3-Methylphenol | ND | 667 | 447 | 67 | 667 | 483 | 72 | 8 | 30-130 | 50 |
| 4-Chloroaniline | ND | 667 | 401 | 60 | 667 | 417 | 63 | 4 | 40-130 | 50 |
| 4-Chlorophenyl-phenylether | ND | 667 | 479 | 72 | 667 | 511 | 77 | 6 | 40-140 | 50 |
| 4-Methylphenol | ND | 667 | 396 | 59 | 667 | 414 | 62 | 5 | 30-130 | 50 |
| 4-Nitroaniline | ND | 667 | 582 | 87 | 667 | 509 | 76 | 13 | 50-130 | 50 |
| 4-Nitrophenol | ND | 667 | 563 | 84 | 667 | 503 | 75 | 11 | 20-140 | 50 |
| Acenaphthene | ND | 667 | 461 | 69 | 667 | 488 | 73 | 6 | 30-130 | 50 |
| Acenaphthylene | ND | 667 | 498 | 75 | 667 | 521 | 78 | 5 | 30-130 | 50 |
| Anthracene | ND | 667 | 507 | 76 | 667 | 500 | 75 | 1 | 30-130 | 50 |
| Benzo(a)anthracene | ND | 667 | 588 | 88 | 667 | 553 | 83 | 6 | 40-130 | 50 |
| Benzo(a)pyrene | ND | 667 | 584 | 88 | 667 | 549 | 82 | 6 | 40-130 | 50 |
| Benzo(b)fluoranthene | ND | 667 | 616 | 92 | 667 | 584 | 88 | 5 | 40-140 | 50 |
| Benzo(k)fluoranthene | ND | 667 | 624 | 94 | 667 | 582 | 87 | 7 | 40-140 | 50 |
| Benzo(g,h,i)perylene | ND | 667 | 623 | 93 | 667 | 593 | 89 | 5 | 40-140 | 50 |
| bis(2-Chloroethoxy)methane | ND | 667 | 534 | 80 | 667 | 541 | 81 | 1 | 40-130 | 50 |
| bis(2-Chloroethyl)ether | ND | 667 | 499 | 75 | 667 | 503 | 75 | 1 | 40-130 | 50 |
| bis(2-Chloroisopropyl)ether | ND | 667 | 512 | 77 | 667 | 509 | 76 | 1 | 40-130 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 667 | 596 | 89 | 667 | 561 | 84 | 6 | 40-150 | 50 |
| Butylbenzylphthalate | ND | 667 | 607 | 91 | 667 | 558 | 84 | 8 | 40-150 | 50 |
| Chrysene | ND | 667 | 600 | 90 | 667 | 561 | 84 | 7 | 40-140 | 50 |
| Di-n-butylphthalate | ND | 667 | 571 | 86 | 667 | 526 | 79 | 8 | 10-130 | 50 |
| Di-n-octylphthalate | ND | 667 | 614 | 92 | 667 | 572 | 86 | 7 | 20-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 667 | 625 | 94 | 667 | 596 | 89 | 5 | 40-130 | 50 |
| Dibenzofuran | ND | 667 | 438 | 66 | 667 | 464 | 70 | 6 | 40-130 | 50 |
| Diethylphthalate | ND | 667 | 523 | 78 | 667 | 509 | 76 | 3 | 40-130 | 50 |
| Dimethylphthalate | ND | 667 | 473 | 71 | 667 | 487 | 73 | 3 | 40-130 | 50 |
| Fluoranthene | ND | 667 | 601 | 90 | 667 | 558 | 84 | 7 | 40-130 | 50 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | 667 | 498 | 75 | 667 | 526 | 79 | 6 | 30-130 | 50 |
| Hexachlorobenzene | ND | 667 | 457 | 68 | 667 | 483 | 72 | 6 | 30-130 | 50 |
| Hexachlorobutadiene | ND | 667 | 437 | 65 | 667 | 465 | 70 | 6 | 10-130 | 50 |
| Hexachlorocyclopentadiene | ND | 667 | 339 | 51 | 667 | 346 | 52 | 2 | 10-130 | 50 |
| Hexachloroethane | ND | 667 | 411 | 62 | 667 | 405 | 61 | 2 | 30-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 667 | 620 | 93 | 667 | 596 | 89 | 4 | 30-140 | 50 |
| Isophorone | ND | 667 | 518 | 78 | 667 | 587 | 88 | 12 | 40-130 | 50 |
| n-Nitroso-di-n-propylamine | ND | 667 | 414 | 62 | 667 | 424 | 64 | 2 | 30-130 | 50 |
| n-Nitrosodiphenylamine | ND | 667 | 402 | 60 | 667 | 409 | 61 | 2 | 30-140 | 50 |
| Naphthalene | ND | 667 | 484 | 73 | 667 | 493 | 74 | 2 | 30-130 | 50 |
| Nitrobenzene | ND | 667 | 533 | 80 | 667 | 535 | 80 | 0 | 40-130 | 50 |
| Pentachlorophenol | ND | 667 | 412 | 62 | 667 | 368 | 55 | 11 | 20-130 | 50 |
| Phenanthrene | ND | 667 | 521 | 78 | 667 | 518 | 78 | 1 | 30-130 | 50 |
| Phenol | ND | 667 | 440 | 66 | 667 | 446 | 67 | 1 | 30-130 | 50 |
| Pyrene | ND | 667 | 571 | 86 | 667 | 540 | 81 | 6 | 30-130 | 50 |
| Benzyl Alcohol | ND | 667 | 439 | 66 | 667 | 447 | 67 | 2 | 40-130 | 50 |
| 1-Methylnaphthalene | ND | 667 | 489 | 73 | 667 | 513 | 77 | 5 | 30-150 | 50 |
| 1,2-Diphenylhydrazine | ND | 667 | 441 | 66 | 667 | 464 | 70 | 5 | 30-130 | 50 |
| 3,5-Dimethylphenol | ND | 667 | 463 | 70 | 667 | 482 | 72 | 4 | 20-150 | 50 |
| Aniline | ND | 667 | 363 | 54 | 667 | 359 | 54 | 1 | 20-150 | 50 |
| Benzidine | ND | 2670 | 1910 | 72 | 2670 | 1740 | 65 | 10 | 20-130 | 50 |
| Benzoic Acid | ND | 2670 | 918 | 34 | 2670 | 1000 | 38 | 9 | 10-130 | 50 |
| Carbazole | ND | 667 | 542 | 81 | 667 | 494 | 74 | 9 | 40-130 | 50 |
| N-Nitrosodimethylamine | ND | 667 | 522 | 78 | 667 | 524 | 79 | 0 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 1000 | 741 | 74 | 1000 | 746 | 75 | 35-130 |
| 2-Fluorobiphenyl | 333 | 196 | 59 | 333 | 200 | 60 | 45-130 |
| 2-Fluorophenol | 1000 | 615 | 62 | 1000 | 625 | 62 | 25-130 |
| Nitrobenzene-d5 | 333 | 233 | 70 | 333 | 237 | 71 | 40-130 |
| Phenol-d5 | 1000 | 634 | 63 | 1000 | 645 | 65 | 25-120 |
| Terphenyl-d14 | 333 | 295 | 88 | 333 | 280 | 84 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D197 | Date Extracted: 04/27/1216:14 |
| Sample ID: SL-199-NBZ-SS-0.0-0.5 | Date Analyzed: 05/07/12 15:20 |
| Lab Samp ID: D197-01 | Dilution Factor: 1 |
| Lab File ID: REJ142 | Matrix : SOIL |
| Ext Btch ID: SVD051S | % Moisture : 7.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.8 | 0.92 |
| ACENAPHTHYLENE | ND | 1.8 | 0.92 |
| ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)ANTHRACENE | ND | 1.8 | 0.92 |
| BENZO(A)PYRENE | ND | 1.8 | 0.92 |
| BENZO(B)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(K)FLUORANTHENE | ND | 1.8 | 0.92 |
| BENZO(G,H,I)PERYLENE | ND | 1.8 | 0.92 |
| CHRYSENE | ND | 1.8 | 0.92 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.8 | 0.92 |
| FLUORANTHENE | ND | 1.8 | 0.92 |
| FLUORENE | ND | 1.8 | 0.92 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.8 | 0.92 |
| NAPHTHALENE | ND | 1.8 | 0.92 |
| PHENANTHRENE | ND | 1.8 | 0.92 |
| PYRENE | ND | 1.8 | 0.92 |
| 2-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| 1-METHYLNAPHTHALENE | ND | 1.8 | 0.92 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 18 | 9.1 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.1 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.1 |
| DIETHYLPHTHALATE | ND | 18 | 9.1 |
| DIMETHYLPHTHALATE | ND | 18 | 9.1 |
| N-NITROSODIMETHYLAMINE | ND | 1.8 | 0.92 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 246 | 361.1 | 68.2 | 40-130 |
| 2-FLUOROBIPHENYL | 235 | 361.1 | 65.1 | 45-130 |
| TERPHENYL-D14 | 317 | 361.1 | 87.7 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D197 | Date Extracted: 04/27/1216:14 |
| Sample ID: SL-200-NBZ-SS-0.0-0.5 | Date Analyzed: 05/07/12 15:39 |
| Lab Samp ID: D197-02 | Dilution Factor: 1 |
| Lab File ID: REJ143 | Matrix : SOIL |
| Ext Btch ID: SVD051S | % Moisture : 8.7 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.9 | 0.93 |
| ACENAPHTHYLENE | ND | 1.9 | 0.93 |
| ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)ANTHRACENE | ND | 1.9 | 0.93 |
| BENZO(A)PYRENE | ND | 1.9 | 0.93 |
| BENZO(B)FLUORANTHENE | 1.0J | 1.9 | 0.93 |
| BENZO(K)FLUORANTHENE | ND | 1.9 | 0.93 |
| BENZO(G,H,I)PERYLENE | ND | 1.9 | 0.93 |
| CHRYSENE | ND | 1.9 | 0.93 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.9 | 0.93 |
| FLUORANTHENE | ND | 1.9 | 0.93 |
| FLUORENE | ND | 1.9 | 0.93 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.9 | 0.93 |
| NAPHTHALENE | ND | 1.9 | 0.93 |
| PHENANTHRENE | ND | 1.9 | 0.93 |
| PYRENE | ND | 1.9 | 0.93 |
| 2-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| 1-METHYLNAPHTHALENE | ND | 1.9 | 0.93 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 17J | 18 | 9.2 |
| BUTYLBENZYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-BUTYLPHTHALATE | ND | 18 | 9.2 |
| DI-N-OCTYLPHTHALATE | ND | 18 | 9.2 |
| DIETHYLPHTHALATE | ND | 18 | 9.2 |
| DIMETHYLPHTHALATE | ND | 18 | 9.2 |
| N-NITROSODIMETHYLAMINE | ND | 1.9 | 0.93 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 190 | 365.1 | 52.0 | 40-130 |
| 2-FLUOROBIPHENYL | 178 | 365.1 | 48.8 | 45-130 |
| TERPHENYL-D14 | 266 | 365.1 | 72.9 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D197 | Date Extracted: 04/27/1216:14 |
| Sample ID: SL-201-NBZ-SS-0.0-0.5 | Date Analyzed: 05/07/12 15:58 |
| Lab Samp ID: D197-03 | Dilution Factor: 1 |
| Lab File ID: REJ144 | Matrix : SOIL |
| Ext Btch ID: SVD051S | % Moisture : 15.1 |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 2.0 | 1.0 |
| ACENAPHTHYLENE | 1.8J | 2.0 | 1.0 |
| ANTHRACENE | 2.1 | 2.0 | 1.0 |
| BENZO(A)ANTHRACENE | 3.6 | 2.0 | 1.0 |
| BENZO(A)PYRENE | 6.2 | 2.0 | 1.0 |
| BENZO(B)FLUORANTHENE | 12 | 2.0 | 1.0 |
| BENZO(K)FLUORANTHENE | 3.2 | 2.0 | 1.0 |
| BENZO(G,H,I)PERYLENE | 6.0 | 2.0 | 1.0 |
| CHRYSENE | 11 | 2.0 | 1.0 |
| DIBENZO(A,H)ANTHRACENE | 1.4J | 2.0 | 1.0 |
| FLUORANTHENE | 38 | 2.0 | 1.0 |
| FLUORENE | ND | 2.0 | 1.0 |
| INDENO(1,2,3-CD)PYRENE | 4.6 | 2.0 | 1.0 |
| NAPHTHALENE | 31 | 2.0 | 1.0 |
| PHENANTHRENE | 34 | 2.0 | 1.0 |
| PYRENE | 28 | 2.0 | 1.0 |
| 2-METHYLNAPHTHALENE | ND | 2.0 | 1.0 |
| 1-METHYLNAPHTHALENE | 1.5J | 2.0 | 1.0 |
| BIS(2-ETHYLHEXYL)PHTHALATE | 31 | 20 | 9.9 |
| BUTYLBENZYLPHTHALATE | 20J | 20 | 9.9 |
| DI-N-BUTYLPHTHALATE | ND | 20 | 9.9 |
| DI-N-OCTYLPHTHALATE | ND | 20 | 9.9 |
| DIETHYLPHTHALATE | ND | 20 | 9.9 |
| DIMETHYLPHTHALATE | ND | 20 | 9.9 |
| N-NITROSODIMETHYLAMINE | ND | 2.0 | 1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 248 | 392.6 | 63.2 | 40-130 |
| 2-FLUOROBIPHENYL | 188 | 392.6 | 47.9 | 45-130 |
| TERPHENYL-D14 | 268 | 392.6 | 68.2 | 45-135 |

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS SIM

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/27/12 |
| Batch No. : 12D197 | Date Extracted: 04/27/1216:14 |
| Sample ID: MBLK1S | Date Analyzed: 05/07/12 12:31 |
| Lab Samp ID: SVD051SB | Dilution Factor: 1 |
| Lab File ID: REJ133 | Matrix : SOIL |
| Ext Btch ID: SVD051S | % Moisture : NA |
| Calib. Ref.: RAJ290 | Instrument ID : T-OE4 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ACENAPHTHENE | ND | 1.7 | 0.85 |
| ACENAPHTHYLENE | ND | 1.7 | 0.85 |
| ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)ANTHRACENE | ND | 1.7 | 0.85 |
| BENZO(A)PYRENE | ND | 1.7 | 0.85 |
| BENZO(B)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(K)FLUORANTHENE | ND | 1.7 | 0.85 |
| BENZO(G,H,I)PERYLENE | ND | 1.7 | 0.85 |
| CHRYSENE | ND | 1.7 | 0.85 |
| DIBENZO(A,H)ANTHRACENE | ND | 1.7 | 0.85 |
| FLUORANTHENE | ND | 1.7 | 0.85 |
| FLUORENE | ND | 1.7 | 0.85 |
| INDENO(1,2,3-CD)PYRENE | ND | 1.7 | 0.85 |
| NAPHTHALENE | ND | 1.7 | 0.85 |
| PHENANTHRENE | ND | 1.7 | 0.85 |
| PYRENE | ND | 1.7 | 0.85 |
| 2-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| 1-METHYLNAPHTHALENE | ND | 1.7 | 0.85 |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | 17 | 8.4 |
| BUTYLBENZYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-BUTYLPHTHALATE | ND | 17 | 8.4 |
| DI-N-OCTYLPHTHALATE | ND | 17 | 8.4 |
| DIETHYLPHTHALATE | ND | 17 | 8.4 |
| DIMETHYLPHTHALATE | ND | 17 | 8.4 |
| N-NITROSODIMETHYLAMINE | ND | 1.7 | 0.85 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| NITROBENZENE-D5 | 271 | 333.3 | 81.3 | 40-130 |
| 2-FLUOROBIPHENYL | 225 | 333.3 | 67.6 | 45-130 |
| TERPHENYL-D14 | 272 | 333.3 | 81.7 | 45-135 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D197
METHOD: METHOD 3550B/8270C SIM

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | SVD051SB | SVD051SX | SVD051SY | | |
| LAB FILE ID: | REJ133 | REJ136 | REJ137 | | |
| DATE EXTRACTED: | 04/27/1216:14 | 04/27/1216:14 | 04/27/1216:14 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/07/1212:31 | 05/07/1213:27 | 05/07/1213:46 | DATE RECEIVED: | 04/27/12 |
| PREP. BATCH: | SVD051S | SVD051S | SVD051S | | |
| CALIB. REF: | RAJ290 | RAJ290 | RAJ290 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 333 | 247 | 74 | 333 | 289 | 87 | 16 | 10-130 | 50 |
| Acenaphthylene | ND | 333 | 280 | 84 | 333 | 328 | 98 | 16 | 20-130 | 50 |
| Anthracene | ND | 333 | 256 | 77 | 333 | 278 | 83 | 8 | 20-130 | 50 |
| Benzo(a)anthracene | ND | 333 | 309 | 93 | 333 | 321 | 96 | 4 | 30-130 | 50 |
| Benzo(a)pyrene | ND | 333 | 324 | 97 | 333 | 349 | 105 | 7 | 30-130 | 50 |
| Benzo(b)fluoranthene | ND | 333 | 334 | 100 | 333 | 374 | 112 | 11 | 40-130 | 50 |
| Benzo(k)fluoranthene | ND | 333 | 330 | 99 | 333 | 342 | 103 | 4 | 30-140 | 50 |
| Benzo(g,h,i)perylene | ND | 333 | 345 | 103 | 333 | 374 | 112 | 8 | 30-140 | 50 |
| Chrysene | ND | 333 | 289 | 87 | 333 | 303 | 91 | 5 | 30-140 | 50 |
| Dibenzo(a,h)anthracene | ND | 333 | 350 | 105 | 333 | 379 | 114 | 8 | 40-140 | 50 |
| Fluoranthene | ND | 333 | 307 | 92 | 333 | 322 | 97 | 5 | 30-130 | 50 |
| Fluorene | ND | 333 | 277 | 83 | 333 | 320 | 96 | 15 | 20-130 | 50 |
| Indeno(1,2,3-cd)pyrene | ND | 333 | 352 | 106 | 333 | 381 | 114 | 8 | 20-160 | 50 |
| Naphthalene | ND | 333 | 230 | 69 | 333 | 266 | 80 | 14 | 10-130 | 50 |
| Phenanthrene | ND | 333 | 255 | 76 | 333 | 278 | 83 | 9 | 20-130 | 50 |
| Pyrene | ND | 333 | 294 | 88 | 333 | 308 | 92 | 4 | 20-150 | 50 |
| 2-Methylnaphthalene | ND | 333 | 252 | 76 | 333 | 292 | 88 | 15 | 30-150 | 50 |
| 1-Methylnaphthalene | ND | 333 | 251 | 75 | 333 | 293 | 88 | 15 | 30-150 | 50 |
| bis(2-Ethylhexyl)phthalate | ND | 333 | 290 | 87 | 333 | 309 | 93 | 6 | 30-130 | 50 |
| Butylbenzylphthalate | ND | 333 | 285 | 86 | 333 | 299 | 90 | 5 | 30-150 | 50 |
| Di-n-butylphthalate | ND | 333 | 272 | 82 | 333 | 292 | 87 | 7 | 10-150 | 50 |
| Di-n-octylphthalate | ND | 333 | 287 | 86 | 333 | 311 | 93 | 8 | 20-150 | 50 |
| Diethylphthalate | ND | 333 | 270 | 81 | 333 | 310 | 93 | 14 | 30-150 | 50 |
| Dimethylphthalate | ND | 333 | 259 | 78 | 333 | 299 | 90 | 14 | 30-150 | 50 |
| N-Nitrosodimethylamine | ND | 333 | 250 | 75 | 333 | 283 | 85 | 13 | 30-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 333 | 231 | 69 | 333 | 260 | 78 | 40-130 |
| 2-Fluorobiphenyl | 333 | 203 | 61 | 333 | 232 | 70 | 45-130 |
| Terphenyl-d14 | 333 | 272 | 82 | 333 | 279 | 84 | 45-135 |

METHOD 3520C/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D197 | Date Extracted: 04/25/12 14:15 |
| Sample ID: EB-NBZ-SS-042312 | Date Analyzed: 05/01/12 13:17 |
| Lab Samp ID: D197-04 | Dilution Factor: 1.05 |
| Lab File ID: ME01012A | Matrix : WATER |
| Ext Btch ID: CPD059W | % Moisture : NA |
| Calib. Ref.: ME01004A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ALPHA-BHC | 0.15 \| (ND) | 0.10 | 0.011 \| 0.011 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| BETA-BHC | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| HEPTACHLOR | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| DELTA-BHC | (ND) \| 0.034J | 0.10 | 0.011 \| 0.011 |
| ALDRIN | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| ENDOSULFAN I | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| 4,4'-DDE | 0.034J \| (ND) | 0.10 | 0.011 \| 0.011 |
| DIELDRIN | 0.068J \| (ND) | 0.10 | 0.011 \| 0.011 |
| ENDRIN | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| 4,4'-DDD | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| ENDOSULFAN II | 0.028J \| (ND) | 0.10 | 0.011 \| 0.011 |
| 4,4'-DDT | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| ENDRIN KETONE | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| METHOXYCHLOR | (ND) \| ND | 1.0 | 0.10 \| 0.10 |
| MIREX | (ND) \| ND | 0.10 | 0.011 \| 0.011 |
| TOXAPHENE | (ND) \| ND | 2.1 | 0.52 \| 0.52 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 1.0 | 0.26 \| 0.26 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (0.4040) \| 0.3867 | 0.4200 | (96.2) \| 92.1 | 60-140 |
| DECACHLOROBIPHENYL | 0.4500 \| (0.4528) | 0.4200 | 107 \| (108) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3520C/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/25/12 |
| Batch No. : 12D197 | Date Extracted: 04/25/12 14:15 |
| Sample ID: MBLK1W | Date Analyzed: 05/01/12 12:10 |
| Lab Samp ID: CPD059WB | Dilution Factor: 1 |
| Lab File ID: ME01009A | Matrix : WATER |
| Ext Btch ID: CPD059W | % Moisture : NA |
| Calib. Ref.: ME01004A | Instrument ID : GCE8 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.10 | 0.010\|0.010 |
| BETA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| HEPTACHLOR | (ND)\|ND | 0.10 | 0.010\|0.010 |
| DELTA-BHC | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ALDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| HEPTACHLOR EPOXIDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN I | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| DIELDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDD | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN II | (ND)\|ND | 0.10 | 0.010\|0.010 |
| 4,4'-DDT | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN ALDEHYDE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| ENDRIN KETONE | (ND)\|ND | 0.10 | 0.010\|0.010 |
| METHOXYCHLOR | (ND)\|ND | 1.0 | 0.10\|0.10 |
| MIREX | (ND)\|ND | 0.10 | 0.010\|0.010 |
| TOXAPHENE | (ND)\|ND | 2.0 | 0.50\|0.50 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 1.0 | 0.25\|0.25 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (0.4029)\|0.3630 | 0.4000 | (101)\|90.8 | 60-140 |
| DECACHLOROBIPHENYL | (0.4733)\|0.4389 | 0.4000 | (118)\|110 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D197
METHOD: METHOD 3520C/8081A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | CPD059WB | CPD059WL | CPD059WC | | |
| LAB FILE ID: | ME01009A | ME01010A | ME01011A | | |
| DATE EXTRACTED: | 04/25/1214:15 | 04/25/1214:15 | 04/25/1214:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/01/1212:10 | 05/01/1212:32 | 05/01/1212:54 | DATE RECEIVED: | 04/25/12 |
| PREP. BATCH: | CPD059W | CPD059W | CPD059W | | |
| CALIB. REF: | ME01004A | ME01004A | ME01004A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 0.200 | (0.228)\|0.205 | (114)\|102 | 0.200 | (0.216)\|0.204 | (108)\|102 | (5)\|0 | 30-150 | 30 |
| gamma-BHC (Lindane) | (ND)\|ND | 0.200 | (0.218)\|0.213 | (109)\|106 | 0.200 | (0.212)\|0.212 | (106)\|106 | (3)\|0 | 40-130 | 30 |
| beta-BHC | (ND)\|ND | 0.200 | 0.229\|(0.234) | 114\|(117) | 0.200 | 0.219\|(0.225) | 110\|(112) | 4\|(4) | 60-130 | 30 |
| Heptachlor | (ND)\|ND | 0.200 | (0.220)\|0.208 | (110)\|104 | 0.200 | (0.212)\|0.206 | (106)\|103 | (4)\|1 | 30-140 | 30 |
| delta-BHC | (ND)\|ND | 0.200 | (0.238)\|0.226 | (119)\|113 | 0.200 | (0.226)\|0.222 | (113)\|111 | (5)\|2 | 30-150 | 30 |
| Aldrin | (ND)\|ND | 0.200 | (0.214)\|0.206 | (107)\|103 | 0.200 | (0.203)\|0.203 | (101)\|101 | (5)\|1 | 40-130 | 30 |
| Heptachlor Epoxide | (ND)\|ND | 0.200 | (0.229)\|0.216 | (114)\|108 | 0.200 | (0.217)\|0.211 | (108)\|105 | (5)\|2 | 50-140 | 30 |
| Endosulfan I | (ND)\|ND | 0.200 | 0.205\|(0.209) | 102\|(104) | 0.200 | 0.199\|(0.206) | 100\|(103) | 3\|(1) | 60-140 | 30 |
| 4,4'-DDE | (ND)\|ND | 0.200 | 0.224\|(0.225) | 112\|(112) | 0.200 | 0.216\|(0.225) | 108\|(112) | 4\|(0) | 50-140 | 30 |
| Dieldrin | (ND)\|ND | 0.200 | (0.226)\|0.215 | (113)\|108 | 0.200 | (0.218)\|0.212 | (109)\|106 | (4)\|1 | 60-140 | 30 |
| Endrin | (ND)\|ND | 0.200 | (0.237)\|0.214 | (118)\|107 | 0.200 | (0.231)\|0.211 | (116)\|105 | (3)\|1 | 50-140 | 30 |
| 4,4'-DDD | (ND)\|ND | 0.200 | (0.229)\|0.228 | (114)\|114 | 0.200 | 0.222\|(0.224) | 111\|(112) | 3\|(2) | 50-160 | 30 |
| Endosulfan II | (ND)\|ND | 0.200 | (0.237)\|0.227 | (118)\|114 | 0.200 | (0.228)\|0.221 | (114)\|110 | (4)\|3 | 60-150 | 30 |
| 4,4'-DDT | (ND)\|ND | 0.200 | (0.270)\|0.233 | (135)\|116 | 0.200 | (0.264)\|0.230 | (132)\|115 | (2)\|1 | 60-140 | 30 |
| Endrin aldehyde | (ND)\|ND | 0.200 | (0.227)\|0.218 | (114)\|109 | 0.200 | (0.222)\|0.215 | (111)\|108 | (2)\|1 | 60-160 | 30 |
| Endosulfan Sulfate | (ND)\|ND | 0.200 | (0.235)\|0.219 | (118)\|110 | 0.200 | (0.231)\|0.217 | (116)\|108 | (2)\|1 | 70-140 | 30 |
| Endrin Ketone | (ND)\|ND | 0.200 | (0.224)\|0.212 | (112)\|106 | 0.200 | (0.218)\|0.210 | (109)\|105 | (3)\|1 | 30-150 | 30 |
| Methoxychlor | (ND)\|ND | 2.00 | (2.25)\|2.22 | (112)\|111 | 2.00 | 2.20\|(2.21) | 110\|(110) | 2\|(0) | 70-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 0.4000 | (0.4436)\|0.4328 | (111)\|108 | 0.4000 | 0.4263\|(0.4304) | 107\|(108) | 60-140 |
| Decachlorobiphenyl | 0.4000 | 0.4464\|(0.4510) | 112\|(113) | 0.4000 | 0.4481\|(0.4568) | 112\|(114) | 20-120 |

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D197 | Date Extracted: 04/26/12 14:50 |
| Sample ID: SL-199-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 02:26 |
| Lab Samp ID: D197-01 | Dilution Factor: 1 |
| Lab File ID: LE01031A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 7.7 |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| GAMMA-BHC (LINDANE) | (ND) \| 0.18J | 0.18 | 0.092 \| 0.092 |
| BETA-BHC | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR | 0.58 \| (ND) | 0.18 | 0.092 \| 0.092 |
| DELTA-BHC | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| ALDRIN | 0.099J \| (ND) | 0.18 | 0.092 \| 0.092 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| ENDOSULFAN I | (ND) \| ND | 0.18 | 0.092 \| 0.092 |
| 4,4'-DDE | (1.3) \| 1.2 | 0.37 | 0.18 \| 0.18 |
| DIELDRIN | 0.33J \| (ND) | 0.37 | 0.18 \| 0.18 |
| ENDRIN | 0.28J \| (ND) | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDD | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN II | 0.78 \| (ND) | 0.37 | 0.18 \| 0.18 |
| 4,4'-DDT | (3.8) \| 3.7 | 0.37 | 0.18 \| 0.18 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| ENDOSULFAN SULFATE | (ND) \| 0.69 | 0.37 | 0.18 \| 0.18 |
| ENDRIN KETONE | (ND) \| ND | 0.37 | 0.18 \| 0.18 |
| METHOXYCHLOR | (ND) \| ND | 1.8 | 0.92 \| 0.92 |
| MIREX | 1.1 \| (ND) | 0.37 | 0.18 \| 0.18 |
| TOXAPHENE | (ND) \| ND | 7.2 | 3.6 \| 3.6 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.7 | 1.8 \| 1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.702 \| (5.698) | 5.778 | 81.4 \| (98.6) | 50-130 |
| DECACHLOROBIPHENYL | 3.639 \| (3.791) | 5.778 | 63.0 \| (65.6) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D197 | Date Extracted: 04/26/12 14:50 |
| Sample ID: SL-200-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 02:47 |
| Lab Samp ID: D197-02 | Dilution Factor: 1 |
| Lab File ID: LE01032A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 8.7 |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND)\|0.29 | 0.19 | 0.093\|0.093 |
| GAMMA-BHC (LINDANE) | (ND)\|ND | 0.19 | 0.093\|0.093 |
| BETA-BHC | (ND)\|ND | 0.19 | 0.093\|0.093 |
| HEPTACHLOR | 0.81\|(ND) | 0.19 | 0.093\|0.093 |
| DELTA-BHC | (ND)\|ND | 0.19 | 0.093\|0.093 |
| ALDRIN | 0.11J\|(ND) | 0.19 | 0.093\|0.093 |
| HEPTACHLOR EPOXIDE | 0.17J\|(ND) | 0.19 | 0.093\|0.093 |
| ENDOSULFAN I | (ND)\|ND | 0.19 | 0.093\|0.093 |
| 4,4'-DDE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| DIELDRIN | 0.32J\|(ND) | 0.37 | 0.19\|0.19 |
| ENDRIN | (ND)\|ND | 0.37 | 0.19\|0.19 |
| 4,4'-DDD | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDOSULFAN II | (ND)\|ND | 0.37 | 0.19\|0.19 |
| 4,4'-DDT | (0.50)\|0.42 | 0.37 | 0.19\|0.19 |
| ENDRIN ALDEHYDE | 0.23J\|(ND) | 0.37 | 0.19\|0.19 |
| ENDOSULFAN SULFATE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| ENDRIN KETONE | (ND)\|ND | 0.37 | 0.19\|0.19 |
| METHOXYCHLOR | (ND)\|ND | 1.9 | 0.93\|0.93 |
| MIREX | (ND)\|ND | 0.37 | 0.19\|0.19 |
| TOXAPHENE | (ND)\|ND | 7.2 | 3.6\|3.6 |
| CHLORDANE (TECHNICAL) | (ND)\|ND | 3.7 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.706\|(5.851) | 5.841 | 80.6\|(100) | 50-130 |
| DECACHLOROBIPHENYL | 3.835\|(3.843) | 5.841 | 65.7\|(65.8) | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D197 | Date Extracted: 04/26/12 14:50 |
| Sample ID: SL-201-NBZ-SS-0.0-0.5 | Date Analyzed: 05/02/12 03:08 |
| Lab Samp ID: D197-03 | Dilution Factor: 1 |
| Lab File ID: LE01033A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 15.1 |
| Calib. Ref.: LE01005A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| 0.37 | 0.20 | 0.10 \| 0.10 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| BETA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR | (ND) \| 0.12J | 0.20 | 0.10 \| 0.10 |
| DELTA-BHC | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| ALDRIN | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| HEPTACHLOR EPOXIDE | 0.28 \| (0.32) | 0.20 | 0.10 \| 0.10 |
| ENDOSULFAN I | (ND) \| ND | 0.20 | 0.10 \| 0.10 |
| 4,4'-DDE | (7.5) \| 6.6 | 0.40 | 0.20 \| 0.20 |
| DIELDRIN | 1.1 \| (ND) | 0.40 | 0.20 \| 0.20 |
| ENDRIN | 0.32J \| (ND) | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDD | (ND) \| 0.57 | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN II | (ND) \| ND | 0.40 | 0.20 \| 0.20 |
| 4,4'-DDT | 32E \| (35E) | 0.40 | 0.20 \| 0.20 |
| ENDRIN ALDEHYDE | 1.6 \| (ND) | 0.40 | 0.20 \| 0.20 |
| ENDOSULFAN SULFATE | (ND) \| 0.64 | 0.40 | 0.20 \| 0.20 |
| ENDRIN KETONE | 0.46 \| (ND) | 0.40 | 0.20 \| 0.20 |
| METHOXYCHLOR | (ND) \| 2.6 | 2.0 | 1.0 \| 1.0 |
| MIREX | (ND) \| 1.2 | 0.40 | 0.20 \| 0.20 |
| TOXAPHENE | (ND) \| ND | 7.8 | 3.9 \| 3.9 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 4.0 | 2.0 \| 2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 4.957 \| (5.358) | 6.282 | 78.9 \| (85.3) | 50-130 |
| DECACHLOROBIPHENYL | (3.983) \| 3.805 | 6.282 | (63.4) \| 60.6 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D197 | Date Extracted: 04/26/12 14:50 |
| Sample ID: SL-201-NBZ-SS-0.0-0.5DL | Date Analyzed: 05/03/12 19:55 |
| Lab Samp ID: D197-03T | Dilution Factor: 5 |
| Lab File ID: LE02039A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : 15.1 |
| Calib. Ref.: LE02035A | Instrument ID : GCF9 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 1.0 | 0.50 \| 0.50 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 1.0 | 0.50 \| 0.50 |
| BETA-BHC | (ND) \| ND | 1.0 | 0.50 \| 0.50 |
| HEPTACHLOR | (ND) \| 0.86J | 1.0 | 0.50 \| 0.50 |
| DELTA-BHC | (ND) \| ND | 1.0 | 0.50 \| 0.50 |
| ALDRIN | (ND) \| ND | 1.0 | 0.50 \| 0.50 |
| HEPTACHLOR EPOXIDE | (ND) \| 0.84J | 1.0 | 0.50 \| 0.50 |
| ENDOSULFAN I | (ND) \| ND | 1.0 | 0.50 \| 0.50 |
| 4,4'-DDE | (8.6) \| 7.3 | 2.0 | 1.0 \| 1.0 |
| DIELDRIN | 1.6J \| (ND) | 2.0 | 1.0 \| 1.0 |
| ENDRIN | (ND) \| ND | 2.0 | 1.0 \| 1.0 |
| 4,4'-DDD | (ND) \| ND | 2.0 | 1.0 \| 1.0 |
| ENDOSULFAN II | (ND) \| ND | 2.0 | 1.0 \| 1.0 |
| 4,4'-DDT | 37 \| (40) | 2.0 | 1.0 \| 1.0 |
| ENDRIN ALDEHYDE | 2.2 \| (ND) | 2.0 | 1.0 \| 1.0 |
| ENDOSULFAN SULFATE | (ND) \| ND | 2.0 | 1.0 \| 1.0 |
| ENDRIN KETONE | (ND) \| ND | 2.0 | 1.0 \| 1.0 |
| METHOXYCHLOR | (ND) \| ND | 10 | 5.0 \| 5.0 |
| MIREX | (ND) \| 1.5J | 2.0 | 1.0 \| 1.0 |
| TOXAPHENE | (ND) \| ND | 39 | 19 \| 19 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 20 | 10 \| 10 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 5.676 \| (5.973) | 6.282 | 90.4 \| (95.1) | 50-130 |
| DECACHLOROBIPHENYL | (5.716) \| 5.023 | 6.282 | (91.0) \| 80.0 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

METHOD 3550B/8081A
PESTICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/26/12 |
| Batch No. : 12D197 | Date Extracted: 04/26/12 14:50 |
| Sample ID: MBLK1S | Date Analyzed: 05/01/12 18:35 |
| Lab Samp ID: CPD062SB | Dilution Factor: 1 |
| Lab File ID: LE01009A | Matrix : SOIL |
| Ext Btch ID: CPD062S | % Moisture : NA |
| Calib. Ref.: LE01005A | Instrument ID : GCT105 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| ALPHA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| GAMMA-BHC (LINDANE) | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| BETA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| HEPTACHLOR | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| DELTA-BHC | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| ALDRIN | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| HEPTACHLOR EPOXIDE | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| ENDOSULFAN I | (ND) \| ND | 0.17 | 0.085 \| 0.085 |
| 4,4'-DDE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| DIELDRIN | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| 4,4'-DDD | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDOSULFAN II | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| 4,4'-DDT | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN ALDEHYDE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDOSULFAN SULFATE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| ENDRIN KETONE | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| METHOXYCHLOR | (ND) \| 5.1 | 1.7 | 0.85 \| 0.85 |
| MIREX | (ND) \| ND | 0.34 | 0.17 \| 0.17 |
| TOXAPHENE | (ND) \| ND | 6.6 | 3.3 \| 3.3 |
| CHLORDANE (TECHNICAL) | (ND) \| ND | 3.4 | 1.7 \| 1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | (4.309) \| 4.270 | 5.333 | (80.8) \| 80.1 | 50-130 |
| DECACHLOROBIPHENYL | (4.633) \| 4.523 | 5.333 | (86.9) \| 84.8 | 20-120 |

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D197
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: CPD062SB CPD062SL CPD062SC
LAB FILE ID: LE01009A LE01010A LE01011A
DATE EXTRACTED: 04/26/1214:50 04/26/1214:50 04/26/1214:50 DATE COLLECTED: NA
DATE ANALYZED: 05/01/1218:35 05/01/1218:57 05/01/1219:18 DATE RECEIVED: 04/26/12
PREP. BATCH: CPD062S CPD062S CPD062S
CALIB. REF: LE01005A LE01005A LE01005A

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | (ND)\|ND | 2.67 | 2.25\|(2.29) | 84\|(86) | 2.67 | 2.37\|(2.41) | 89\|(90) | 5\|(5) | 30-150 | 50 |
| gamma-BHC (Lindane) | (ND)\|ND | 2.67 | (2.28)\|2.27 | (85)\|85 | 2.67 | (2.39)\|2.37 | (90)\|89 | (5)\|4 | 40-130 | 50 |
| beta-BHC | (ND)\|ND | 2.67 | (2.65)\|2.30 | (99)\|86 | 2.67 | (2.72)\|2.41 | (102)\|90 | (3)\|5 | 50-140 | 50 |
| Heptachlor | (ND)\|ND | 2.67 | (2.37)\|2.23 | (89)\|84 | 2.67 | (2.43)\|2.34 | (91)\|88 | (3)\|5 | 30-130 | 50 |
| delta-BHC | (ND)\|ND | 2.67 | (2.70)\|2.50 | (101)\|94 | 2.67 | (2.81)\|2.60 | (105)\|97 | (4)\|4 | 30-150 | 50 |
| Aldrin | (ND)\|ND | 2.67 | (2.38)\|2.23 | (89)\|84 | 2.67 | (2.37)\|2.32 | (89)\|87 | (0)\|4 | 30-130 | 50 |
| Heptachlor Epoxide | (ND)\|ND | 2.67 | 2.21\|(2.42) | 83\|(91) | 2.67 | 2.28\|(2.54) | 85\|(95) | 3\|(5) | 60-140 | 50 |
| Endosulfan I | (ND)\|ND | 2.67 | 1.96\|(2.10) | 73\|(79) | 2.67 | 1.93\|(2.15) | 72\|(81) | 2\|(2) | 50-150 | 50 |
| 4,4'-DDE | (ND)\|ND | 2.67 | (2.42)\|2.22 | (91)\|83 | 2.67 | (2.46)\|2.30 | (92)\|86 | (2)\|4 | 50-150 | 50 |
| Dieldrin | (ND)\|ND | 2.67 | (2.44)\|2.11 | (91)\|79 | 2.67 | (2.51)\|2.19 | (94)\|82 | (3)\|4 | 60-130 | 50 |
| Endrin | (ND)\|ND | 2.67 | (2.36)\|2.26 | (88)\|85 | 2.67 | (2.43)\|2.28 | (91)\|85 | (3)\|1 | 50-140 | 50 |
| 4,4'-DDD | (ND)\|ND | 2.67 | (2.32)\|2.08 | (87)\|78 | 2.67 | (2.40)\|2.10 | (90)\|79 | (3)\|1 | 50-160 | 50 |
| Endosulfan II | (ND)\|ND | 2.67 | (2.47)\|2.33 | (93)\|87 | 2.67 | (2.51)\|2.36 | (94)\|88 | (2)\|1 | 60-150 | 50 |
| 4,4'-DDT | (ND)\|ND | 2.67 | (2.75)\|2.24 | (103)\|84 | 2.67 | (2.82)\|2.34 | (106)\|88 | (3)\|4 | 60-140 | 50 |
| Endrin aldehyde | (ND)\|ND | 2.67 | (2.38)\|2.22 | (89)\|83 | 2.67 | (2.35)\|2.21 | (88)\|83 | (1)\|0 | 50-160 | 50 |
| Endosulfan Sulfate | (ND)\|ND | 2.67 | (2.52)\|2.40 | (94)\|90 | 2.67 | (2.52)\|2.44 | (94)\|91 | (0)\|2 | 70-140 | 50 |
| Endrin Ketone | (ND)\|ND | 2.67 | (2.42)\|2.24 | (91)\|84 | 2.67 | (2.45)\|2.30 | (92)\|86 | (1)\|3 | 70-160 | 50 |
| Methoxychlor | (ND)\|5.1 | 26.7 | (23.3)\|21.2 | (87)\|79 | 26.7 | (23.6)\|21.6 | (88)\|81 | (1)\|2 | 70-140 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 5.333 | (4.235)\|4.211 | (79.4)\|79.0 | 5.333 | (4.565)\|4.537 | (85.6)\|85.1 | 50-130 |
| Decachlorobiphenyl | 5.333 | (4.590)\|4.455 | (86.1)\|83.5 | 5.333 | (4.663)\|4.608 | (87.4)\|86.4 | 20-120 |

METHOD 3520C/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D197 | Date Extracted: 04/25/12 14:15 |
| Sample ID: EB-NBZ-SS-042312 | Date Analyzed: 05/15/12 04:21 |
| Lab Samp ID: D197-04 | Dilution Factor: 1.05 |
| Lab File ID: KE14023A | Matrix : WATER |
| Ext Btch ID: CPD059W | % Moisture : NA |
| Calib. Ref.: KE14017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1221 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1232 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1242 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1248 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1254 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1260 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1262 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 1268 | (ND)\|ND | 1.0 | 0.52\|0.52 |
| AROCLOR 5432 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 5442 | (ND)\|ND | 2.1 | 1.0\|1.0 |
| AROCLOR 5460 | (ND)\|ND | 2.1 | 1.0\|1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 0.5122\|(0.3504) | 0.4200 | 122*\|(83.4) | 45-120 |
| TETRACHLORO-M-XYLENE | (0.4122)\|0.3031 | 0.4200 | (98.1)\|72.2 | 30-140 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3520C/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/25/12 |
| Batch No. : 12D197 | Date Extracted: 04/25/12 14:15 |
| Sample ID: MBLK1W | Date Analyzed: 05/15/12 01:42 |
| Lab Samp ID: CPD059WB | Dilution Factor: 1 |
| Lab File ID: KE14020A | Matrix : WATER |
| Ext Btch ID: CPD059W | % Moisture : NA |
| Calib. Ref.: KE14017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1221 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1232 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1242 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1248 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1254 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1260 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1262 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 1268 | (ND)\|ND | 1.0 | 0.50\|0.50 |
| AROCLOR 5432 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5442 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5460 | (ND)\|ND | 2.0 | 1.0\|1.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 0.4911\|(0.3321) | 0.4000 | 123*\|(83.0) | 45-120 |
| TETRACHLORO-M-XYLENE | (0.3805)\|0.3195 | 0.4000 | (95.1)\|79.9 | 30-140 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D197
METHOD: METHOD 3520C/8082

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | CPD059WB | 60D059WL | 60D059WC | | |
| LAB FILE ID: | KE14020A | KE14021A | KE14022A | | |
| DATE EXTRACTED: | 04/25/1214:15 | 04/25/1214:15 | 04/25/1214:15 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/15/1201:42 | 05/15/1202:35 | 05/15/1203:28 | DATE RECEIVED: | 04/25/12 |
| PREP. BATCH: | CPD059W | CPD059W | CPD059W | | |
| CALIB. REF: | KE14017A | KE14017A | KE14017A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 5.00 | (4.41)\|3.47 | (88)\|69 | 5.00 | (4.41)\|3.40 | (88)\|68 | (0)\|2 | 50-130 | 30 |
| Aroclor 1260 | (ND)\|ND | 5.00 | (5.81)\|3.96 | (116)\|79 | 5.00 | (5.92)\|3.95 | (118)\|79 | (2)\|0 | 60-150 | 30 |
| Aroclor 5460 | (ND)\|ND | 2.50 | 2.81\|(2.89) | 112\|(116) | 2.50 | 2.94\|(3.57) | 118\|(142) | 5\|(21) | 50-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 0.4000 | 0.4988\|(0.3398) | 125*\|(85.0) | 0.4000 | 0.5027\|(0.3452) | 126*\|(86.3) | 45-120 |
| Tetrachloro-m-xylene | 0.4000 | (0.4549)\|0.3564 | (114)\|89.1 | 0.4000 | (0.4536)\|0.3618 | (113)\|90.5 | 30-140 |

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D197 | Date Extracted: 04/26/12 12:35 |
| Sample ID: SL-199-NBZ-SS-0.0-0.5 | Date Analyzed: 05/15/12 07:53 |
| Lab Samp ID: D197-01 | Dilution Factor: 1 |
| Lab File ID: KE14027A | Matrix : SOIL |
| Ext Btch ID: CPD061S | % Moisture : 7.7 |
| Calib. Ref.: KE14017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1221 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1232 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1242 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1248 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1254 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1260 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1262 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 1268 | (ND)\|ND | 1.8 | 0.92\|0.92 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.8\|1.8 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.8\|1.8 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.618)\|4.317 | 5.778 | (115)\|74.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (6.458)\|4.039 | 5.778 | (112)\|69.9 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D197 | Date Extracted: 04/26/12 12:35 |
| Sample ID: SL-200-NBZ-SS-0.0-0.5 | Date Analyzed: 05/15/12 08:46 |
| Lab Samp ID: D197-02 | Dilution Factor: 1 |
| Lab File ID: KE14028A | Matrix : SOIL |
| Ext Btch ID: CPD061S | % Moisture : 8.7 |
| Calib. Ref.: KE14017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1221 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1232 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1242 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1248 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1254 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1260 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1262 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 1268 | (ND)\|ND | 1.9 | 0.93\|0.93 |
| AROCLOR 5432 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5442 | (ND)\|ND | 3.6 | 1.9\|1.9 |
| AROCLOR 5460 | (ND)\|ND | 3.6 | 1.9\|1.9 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (5.833)\|3.987 | 5.841 | (99.9)\|68.3 | 45-120 |
| TETRACHLORO-M-XYLENE | (5.296)\|3.378 | 5.841 | (90.7)\|57.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D197 | Date Extracted: 04/26/12 12:35 |
| Sample ID: SL-201-NBZ-SS-0.0-0.5 | Date Analyzed: 05/14/12 21:16 |
| Lab Samp ID: D197-03 | Dilution Factor: 1 |
| Lab File ID: KE14015A | Matrix : SOIL |
| Ext Btch ID: CPD061S | % Moisture : 15.1 |
| Calib. Ref.: KE14003A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1221 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1232 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1242 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1248 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1254 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1260 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1262 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 1268 | (ND)\|ND | 2.0 | 1.0\|1.0 |
| AROCLOR 5432 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5442 | (ND)\|ND | 3.9 | 2.0\|2.0 |
| AROCLOR 5460 | 13\|(17) | 3.9 | 2.0\|2.0 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | 5.319\|(5.581) | 6.282 | 84.7\|(88.8) | 45-120 |
| TETRACHLORO-M-XYLENE | (6.270)\|2.943 | 6.282 | (99.8)\|46.8 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

METHOD 3550B/8082
PCBs

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/26/12 |
| Batch No. : 12D197 | Date Extracted: 04/26/12 12:35 |
| Sample ID: MBLK1S | Date Analyzed: 05/15/12 05:14 |
| Lab Samp ID: 60D061SB | Dilution Factor: 1 |
| Lab File ID: KE14024A | Matrix : SOIL |
| Ext Btch ID: CPD061S | % Moisture : NA |
| Calib. Ref.: KE14017A | Instrument ID : GCT071 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| AROCLOR 1016 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1221 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1232 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1242 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1248 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1254 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1260 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1262 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 1268 | (ND)\|ND | 1.7 | 0.85\|0.85 |
| AROCLOR 5432 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5442 | (ND)\|ND | 3.3 | 1.7\|1.7 |
| AROCLOR 5460 | (ND)\|ND | 3.3 | 1.7\|1.7 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| DECACHLOROBIPHENYL | (6.064)\|4.146 | 5.333 | (114)\|77.7 | 45-120 |
| TETRACHLORO-M-XYLENE | (4.907)\|3.912 | 5.333 | (92.0)\|73.3 | 10-160 |

Left of | is related to first column ; Right of | related to second column
Final result indicated by ( )
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D197
METHOD: METHOD 3550B/8082

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | 60D061SB | 60D061SL | 60D061SC | | |
| LAB FILE ID: | KE14024A | KE14025A | KE14026A | | |
| DATE EXTRACTED: | 04/26/1212:35 | 04/26/1212:35 | 04/26/1212:35 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 05/15/1205:14 | 05/15/1206:07 | 05/15/1207:00 | DATE RECEIVED: | 04/26/12 |
| PREP. BATCH: | CPD061S | CPD061S | CPD061S | | |
| CALIB. REF: | KE14017A | KE14017A | KE14017A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | (ND)\|ND | 66.7 | (56.2)\|44.2 | (84)\|66 | 66.7 | (56.5)\|44.1 | (85)\|66 | (1)\|0 | 50-130 | 50 |
| Aroclor 1260 | (ND)\|ND | 66.7 | (79.3)\|54.5 | (119)\|82 | 66.7 | (81.2)\|55.4 | (122)\|83 | (2)\|2 | 60-150 | 50 |
| Aroclor 5460 | (ND)\|ND | 33.3 | 39.9\|(40.8) | 120\|(123) | 33.3 | 40.1\|(41.2) | 120\|(124) | 0\|(1) | 50-150 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 5.333 | (5.559)\|3.850 | (104)\|72.2 | 5.333 | (5.872)\|4.050 | (110)\|76.0 | 45-120 |
| Tetrachloro-m-xylene | 5.333 | (4.528)\|3.646 | (84.9)\|68.4 | 5.333 | (4.505)\|3.688 | (84.5)\|69.2 | 10-160 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D197 | Date Extracted: 04/24/12 16:57 |
| Sample ID: EB-NBZ-SS-042312 | Date Analyzed: 04/25/12 19:40 |
| Lab Samp ID: D197-04 | Dilution Factor: 1 |
| Lab File ID: QD25010A | Matrix : WATER |
| Ext Btch ID: HED013W | % Moisture : NA |
| Calib. Ref.: QD25003A | Instrument ID : GCT009 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4-DB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-T | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DALAPON | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICAMBA | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICHLOROPROP | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DINOSEB | (ND)\|0.73J | 0.80 | 0.20\|0.20 |
| MCPA | (ND)\|ND | 100 | 20\|20 |
| MCPP | (ND)\|ND | 100 | 20\|20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (9.363)\|8.538 | 10.00 | (93.6)\|85.4 | 40-140 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/24/12 |
| Batch No. : 12D197 | Date Extracted: 04/24/12 16:57 |
| Sample ID: MBLK1W | Date Analyzed: 04/25/12 17:14 |
| Lab Samp ID: HED013WB | Dilution Factor: 1 |
| Lab File ID: QD25004A | Matrix : WATER |
| Ext Btch ID: HED013W | % Moisture : NA |
| Calib. Ref.: QD25003A | Instrument ID : GCT009 |

| PARAMETERS | RESULTS (ug/L) | RL (ug/L) | MDL (ug/L) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4-DB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-T | (ND)\|ND | 0.80 | 0.20\|0.20 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DALAPON | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICAMBA | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DICHLOROPROP | (ND)\|ND | 0.80 | 0.20\|0.20 |
| DINOSEB | (ND)\|ND | 0.80 | 0.20\|0.20 |
| MCPA | (ND)\|ND | 100 | 20\|20 |
| MCPP | (ND)\|ND | 100 | 20\|20 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (9.126)\|8.751 | 10.00 | (91.3)\|87.5 | 40-140 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D197
METHOD: METHOD 8151A

MATRIX: WATER % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HED013WB | HED013WL | HED013WC | | |
| LAB FILE ID: | QD25004A | QD25005A | QD25006A | | |
| DATE EXTRACTED: | 04/24/1216:57 | 04/24/1216:57 | 04/24/1216:57 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/25/1217:14 | 04/25/1217:39 | 04/25/1218:03 | DATE RECEIVED: | 04/24/12 |
| PREP. BATCH: | HED013W | HED013W | HED013W | | |
| CALIB. REF: | QD25003A | QD25003A | QD25003A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 1.00 | (0.852)\|0.800J | (85)\|80 | 1.00 | (0.749J)\|0.694J | (75)\|69 | (13)\|14 | 40-130 | 30 |
| 2,4-DB | (ND)\|ND | 1.00 | 0.765J\|(0.768J) | 76\|(77) | 1.00 | 0.625J\|(0.672J) | 62\|(67) | 20\|(13) | 30-160 | 30 |
| 2,4,5-T | (ND)\|ND | 1.00 | 0.792J\|(1.03) | 79\|(103) | 1.00 | 0.681J\|(0.902) | 68\|(90) | 15\|(13) | 40-140 | 30 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 1.00 | (0.866)\|0.823 | (87)\|82 | 1.00 | (0.742J)\|0.729J | (74)\|73 | (15)\|12 | 60-140 | 30 |
| Dalapon | (ND)\|ND | 1.00 | 0.652J\|(0.664J) | 65\|(66) | 1.00 | 0.613J\|(0.615J) | 61\|(62) | 6\|(8) | 30-130 | 30 |
| Dicamba | (ND)\|ND | 1.00 | (0.817)\|0.725J | (82)\|72 | 1.00 | (0.714J)\|0.632J | (71)\|63 | (13)\|14 | 50-130 | 30 |
| Dichloroprop | (ND)\|ND | 1.00 | (0.938)\|0.883 | (94)\|88 | 1.00 | (0.824)\|0.773J | (82)\|77 | (13)\|13 | 70-150 | 30 |
| Dinoseb | (ND)\|ND | 1.00 | (0.651J)\|0.632J | (65)\|63 | 1.00 | (0.571J)\|0.544J | (57)\|54 | (13)\|15 | 20-130 | 30 |
| MCPA | (ND)\|ND | 50.0 | 39.8J\|(42.0J) | 80\|(84) | 50.0 | 35.2J\|(38.2J) | 70\|(76) | 12\|(9) | 30-150 | 30 |
| MCPP | (ND)\|ND | 50.0 | (43.7J)\|19.4J | (87)\|39 | 50.0 | (39.8J)\|18.5J | (80)\|37 | (9)\|5 | 30-150 | 30 |

| SURROGATE PARAMETER | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 10.00 | (8.275)\|7.891 | (82.7)\|78.9 | 10.00 | (7.475)\|7.107 | (74.7)\|71.1 | 40-140 |

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D197 | Date Extracted: 04/25/12 16:57 |
| Sample ID: SL-199-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 22:38 |
| Lab Samp ID: D197-01 | Dilution Factor: 1 |
| Lab File ID: WD26028A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : 7.7 |
| Calib. Ref.: WD26020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.8 | 0.92\|0.92 |
| 2,4,5-T | 0.47\|(ND) | 0.18 | 0.092\|0.092 |
| 2,4,5-TP(SILVEX) | 0.18J\|(ND) | 0.18 | 0.092\|0.092 |
| DALAPON | (ND)\|ND | 9.8 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.65\|0.65 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.8 | 0.92\|0.92 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | 267.1\|(217.8) | 162.5 | 164*\|(134) | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/23/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/23/12 |
| Batch No. | : 12D197 | Date Extracted | : 04/25/12 16:57 |
| Sample ID | : SL-200-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/26/12 23:00 |
| Lab Samp ID | : D197-02 | Dilution Factor | : 1 |
| Lab File ID | : WD26029A | Matrix | : SOIL |
| Ext Btch ID | : HED014S | % Moisture | : 8.7 |
| Calib. Ref. | : WD26020A | Instrument ID | : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.9 | 2.0\|2.0 |
| 2,4-DB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| 2,4,5-T | 0.19\|(ND) | 0.19 | 0.093\|0.093 |
| 2,4,5-TP(SILVEX) | 0.14J\|(ND) | 0.19 | 0.093\|0.093 |
| DALAPON | (ND)\|ND | 9.9 | 4.9\|4.9 |
| DICAMBA | (ND)\|ND | 1.3 | 0.66\|0.66 |
| DICHLOROPROP | (ND)\|ND | 2.6 | 1.3\|1.3 |
| DINOSEB | (ND)\|ND | 1.9 | 0.93\|0.93 |
| MCPA | (ND)\|ND | 270 | 140\|140 |
| MCPP | (ND)\|ND | 270 | 140\|140 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (229.8)\|167.3 | 164.3 | (140)\|102 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| Batch No. : 12D197 | Date Extracted: 04/25/12 16:57 |
| Sample ID: SL-201-NBZ-SS-0.0-0.5 | Date Analyzed: 04/26/12 23:23 |
| Lab Samp ID: D197-03 | Dilution Factor: 1 |
| Lab File ID: WD26030A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : 15.1 |
| Calib. Ref.: WD26020A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 4.2 | 2.1\|2.1 |
| 2,4-DB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| 2,4,5-T | (ND)\|ND | 0.20 | 0.10\|0.10 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.20 | 0.10\|0.10 |
| DALAPON | (ND)\|ND | 11 | 5.3\|5.3 |
| DICAMBA | (ND)\|ND | 1.4 | 0.71\|0.71 |
| DICHLOROPROP | (ND)\|ND | 2.8 | 1.4\|1.4 |
| DINOSEB | (ND)\|ND | 2.0 | 1.0\|1.0 |
| MCPA | (ND)\|ND | 290 | 150\|150 |
| MCPP | (ND)\|ND | 290 | 150\|150 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (215.5)\|203.3 | 176.7 | (122)\|115 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

METHOD 8151A
HERBICIDES

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/25/12 |
| Batch No. : 12D197 | Date Extracted: 04/25/12 16:57 |
| Sample ID: MBLK1S | Date Analyzed: 04/26/12 13:18 |
| Lab Samp ID: HED014SB | Dilution Factor: 1 |
| Lab File ID: WD26003A | Matrix : SOIL |
| Ext Btch ID: HED014S | % Moisture : NA |
| Calib. Ref.: WD26002A | Instrument ID : GCT016 |

| PARAMETERS | RESULTS (ug/kg) | RL (ug/kg) | MDL (ug/kg) |
|---|---|---|---|
| 2,4-D | (ND)\|ND | 3.6 | 1.8\|1.8 |
| 2,4-DB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| 2,4,5-T | (ND)\|ND | 0.17 | 0.085\|0.085 |
| 2,4,5-TP(SILVEX) | (ND)\|ND | 0.17 | 0.085\|0.085 |
| DALAPON | (ND)\|ND | 9.0 | 4.5\|4.5 |
| DICAMBA | (ND)\|ND | 1.2 | 0.60\|0.60 |
| DICHLOROPROP | (ND)\|ND | 2.4 | 1.2\|1.2 |
| DINOSEB | (ND)\|ND | 1.7 | 0.85\|0.85 |
| MCPA | (ND)\|ND | 250 | 120\|120 |
| MCPP | (ND)\|ND | 250 | 120\|120 |

| SURROGATE PARAMETERS | RESULTS | SPK_AMT | % RECOVERY | QC LIMIT |
|---|---|---|---|---|
| 2,4-DCPAA | (179.0)\|149.5 | 150.0 | (119)\|99.7 | 10-150 |

Left of | is related to first column; Right of | related to second column
Final result indicated by ( )

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D197
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA

| | | | | | |
|---|---|---|---|---|---|
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | HED014SB | HED014SL | HED014SC | | |
| LAB FILE ID: | WD26003A | WD26004A | WD26005A | | |
| DATE EXTRACTED: | 04/25/1216:57 | 04/25/1216:57 | 04/25/1216:57 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/26/1213:18 | 04/26/1213:40 | 04/26/1214:03 | DATE RECEIVED: | 04/25/12 |
| PREP. BATCH: | HED014S | HED014S | HED014S | | |
| CALIB. REF: | WD26002A | WD26002A | WD26002A | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | (ND)\|ND | 15.0 | 11.7\|(11.8) | 78\|(79) | 15.0 | (13.4)\|13.2 | (89)\|88 | (14)\|11 | 20-130 | 50 |
| 2,4-DB | (ND)\|ND | 15.0 | 10.3\|(15.9) | 69\|(106) | 15.0 | 11.3\|(18.7) | 75\|(125) | 9\|(16) | 20-160 | 50 |
| 2,4,5-T | (ND)\|ND | 15.0 | (11.9)\|10.8 | (79)\|72 | 15.0 | (13.5)\|12.5 | (90)\|83 | (13)\|15 | 30-140 | 50 |
| 2,4,5-TP(Silvex) | (ND)\|ND | 15.0 | 10.8\|(11.1) | 72\|(74) | 15.0 | 12.6\|(12.9) | 84\|(86) | 15\|(15) | 30-140 | 50 |
| Dalapon | (ND)\|ND | 15.0 | 6.84J\|(8.27J) | 46\|(55) | 15.0 | 6.68J\|(8.22J) | 45\|(55) | 2\|(1) | 20-160 | 50 |
| Dicamba | (ND)\|ND | 15.0 | (12.7)\|10.9 | (85)\|73 | 15.0 | (13.9)\|12.0 | (93)\|80 | (9)\|10 | 50-150 | 50 |
| Dichloroprop | (ND)\|ND | 15.0 | 13.3\|(13.9) | 89\|(93) | 15.0 | 14.8\|(15.3) | 99\|(102) | 11\|(10) | 60-160 | 50 |
| Dinoseb | (ND)\|ND | 15.0 | (9.51)\|8.68 | (63)\|58 | 15.0 | (10.0)\|8.59 | (67)\|57 | (5)\|1 | 20-130 | 50 |
| MCPA | (ND)\|ND | 750 | (700)\|636 | (93)\|85 | 750 | (754)\|694 | (101)\|93 | (7)\|9 | 20-160 | 50 |
| MCPP | (ND)\|ND | 750 | (724)\|514 | (97)\|69 | 750 | (721)\|569 | (96)\|76 | (0)\|10 | 40-160 | 50 |

| SURROGATE PARAMETER | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|---|---|
| 2,4-DCPAA | 150.0 (147.1)\|127.7 | (98.1)\|85.1 | 150.0 | (154.4)\|137.5 | (103)\|91.6 | 10-150 | |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/23/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/23/12 |
| SDG NO. | : 12D197 | Date Extracted | : 04/26/12 10:12 |
| Sample ID | : SL-199-NBZ-SS-0.0-0.5 | Date Analyzed | : 04/30/12 19:07 # 05/01/12 17:16 |
| Lab Samp ID | : D197-01 #D197-01W | Dilution Factor | : 0.985 |
| Lab File ID | : 98D21083 #98E01027 | Matrix | : SOIL |
| Ext Btch ID | : IMD040S | % Moisture | : 7.7 |
| Calib. Ref. | : 98D21073 #98E01017 | Instrument ID | : T-I98 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 11500 | 25.6 | 12.8 |
| | Antimony | 0.278 | 0.213 | 0.107 |
| | Arsenic | 4.54 | 0.427 | 0.213 |
| | Barium | 63.2 | 0.427 | 0.213 |
| | Beryllium | 0.392 | 0.107 | 0.0534 |
| | Boron | ND | 5.34 | 2.67 |
| | Cadmium | 0.140 | 0.107 | 0.0534 |
| | Calcium | 2080 | 21.3 | 10.7 |
| | Chromium | 40.8 | 0.427 | 0.213 |
| | Cobalt | 6.15 | 0.107 | 0.0534 |
| | Copper | 8.57 | 0.427 | 0.213 |
| | Iron | 21000 | 21.3 | 10.7 |
| | Lead | 8.76 | 0.213 | 0.107 |
| | Magnesium | 6470 | 10.7 | 5.34 |
| | Manganese | 243 | 0.534 | 0.267 |
| | Molybdenum | 0.477 | 0.107 | 0.0534 |
| | Nickel | 22.8 | 0.427 | 0.213 |
| | Potassium | 2550 | 64.0 | 32.0 |
| | Selenium | 0.253J | 0.427 | 0.213 |
| | Silver | ND | 0.107 | 0.0534 |
| | Sodium | 64.1J | 107 | 53.4 |
| # | Strontium | 11.3 | 0.534 | 0.267 |
| | Thallium | 0.229 | 0.107 | 0.0534 |
| | Tin | ND | 10.7 | 5.34 |
| | Titanium | 1170 | 1.07 | 0.534 |
| | Vanadium | 42.9 | 0.107 | 0.0534 |
| | Zinc | 52.3 | 3.20 | 1.60 |
| | Lithium | 22.0 | 2.13 | 1.07 |
| | Phosphorus | 292 | 12.8 | 6.40 |
| | Zirconium | ND | 5.34 | 2.67 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| SDG NO. : 12D197 | Date Extracted: 04/26/12 10:12 |
| Sample ID: SL-200-NBZ-SS-0.0-0.5 | Date Analyzed: 04/30/12 19:26 # 05/01/12 17:35 |
| Lab Samp ID: D197-02 #D197-02W | Dilution Factor: 0.980 |
| Lab File ID: 98D21087 #98E01031 | Matrix : SOIL |
| Ext Btch ID: IMD040S | % Moisture : 8.7 |
| Calib. Ref.: 98D21085 #98E01029 | Instrument ID : T-I98 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 9700 | 25.8 | 12.9 |
| | Antimony | 0.131J | 0.215 | 0.107 |
| | Arsenic | 2.42 | 0.429 | 0.215 |
| | Barium | 79.3 | 0.429 | 0.215 |
| | Beryllium | 0.402 | 0.107 | 0.0537 |
| | Boron | ND | 5.37 | 2.68 |
| | Cadmium | 0.191 | 0.107 | 0.0537 |
| | Calcium | 1850 | 21.5 | 10.7 |
| | Chromium | 11.1 | 0.429 | 0.215 |
| | Cobalt | 4.11 | 0.107 | 0.0537 |
| | Copper | 5.27 | 0.429 | 0.215 |
| | Iron | 17200 | 21.5 | 10.7 |
| | Lead | 7.99 | 0.215 | 0.107 |
| | Magnesium | 4320 | 10.7 | 5.37 |
| | Manganese | 259 | 0.537 | 0.268 |
| | Molybdenum | 0.400 | 0.107 | 0.0537 |
| | Nickel | 7.16 | 0.429 | 0.215 |
| | Potassium | 3310 | 64.4 | 32.2 |
| | Selenium | ND | 0.429 | 0.215 |
| | Silver | ND | 0.107 | 0.0537 |
| | Sodium | 56.4J | 107 | 53.7 |
| # | Strontium | 10.4 | 0.537 | 0.268 |
| | Thallium | 0.216 | 0.107 | 0.0537 |
| | Tin | ND | 10.7 | 5.37 |
| | Titanium | 897 | 1.07 | 0.537 |
| | Vanadium | 25.1 | 0.107 | 0.0537 |
| | Zinc | 60.7 | 3.22 | 1.61 |
| | Lithium | 26.3 | 2.15 | 1.07 |
| | Phosphorus | 410 | 12.9 | 6.44 |
| | Zirconium | ND | 5.37 | 2.68 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: 04/23/12 |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/23/12 |
| SDG NO. : 12D197 | Date Extracted: 04/26/12 10:12 |
| Sample ID: SL-201-NBZ-SS-0.0-0.5 | Date Analyzed: 04/30/12 18:58 # 05/01/12 17:07 |
| Lab Samp ID: D197-03 #D197-03W | Dilution Factor: 0.995 |
| Lab File ID: 98D21081 #98E01025 | Matrix : SOIL |
| Ext Btch ID: IMD040S | % Moisture : 15.1 |
| Calib. Ref.: 98D21073 #98E01017 | Instrument ID : T-I98 |

| | PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|---|
| | Aluminum | 14700 | 28.1 | 14.1 |
| | Antimony | 0.438 | 0.234 | 0.117 |
| | Arsenic | 4.70 | 0.469 | 0.234 |
| | Barium | 96.6 | 0.469 | 0.234 |
| | Beryllium | 0.594 | 0.117 | 0.0586 |
| | Boron | ND | 5.86 | 2.93 |
| | Cadmium | 0.395 | 0.117 | 0.0586 |
| | Calcium | 2940 | 23.4 | 11.7 |
| | Chromium | 17.0 | 0.469 | 0.234 |
| | Cobalt | 5.72 | 0.117 | 0.0586 |
| | Copper | 8.05 | 0.469 | 0.234 |
| | Iron | 19800 | 23.4 | 11.7 |
| | Lead | 28.6 | 0.234 | 0.117 |
| | Magnesium | 4210 | 11.7 | 5.86 |
| | Manganese | 255 | 0.586 | 0.293 |
| | Molybdenum | 0.834 | 0.117 | 0.0586 |
| | Nickel | 10.3 | 0.469 | 0.234 |
| | Potassium | 2760 | 70.3 | 35.2 |
| | Selenium | ND | 0.469 | 0.234 |
| | Silver | 0.465 | 0.117 | 0.0586 |
| | Sodium | ND | 117 | 58.6 |
| # | Strontium | 18.8 | 0.586 | 0.293 |
| | Thallium | 0.226 | 0.117 | 0.0586 |
| | Tin | ND | 11.7 | 5.86 |
| | Titanium | 967 | 1.17 | 0.586 |
| | Vanadium | 35.2 | 0.117 | 0.0586 |
| | Zinc | 77.9 | 3.52 | 1.76 |
| | Lithium | 19.2 | 2.34 | 1.17 |
| | Phosphorus | 254 | 14.1 | 7.03 |
| | Zirconium | ND | 5.86 | 2.93 |

# Members of the Associated File

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/26/12 |
| SDG NO. : 12D197 | Date Extracted: 04/26/12 10:12 |
| Sample ID: MBLK1S | Date Analyzed: 04/30/12 18:31 |
| Lab Samp ID: IMD040SB | Dilution Factor: 1 |
| Lab File ID: 98D21075 | Matrix : SOIL |
| Ext Btch ID: IMD040S | % Moisture : NA |
| Calib. Ref.: 98D21073 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/kg) | RL (mg/kg) | MDL (mg/kg) |
|---|---|---|---|
| Aluminum | ND | 24.0 | 12.0 |
| Antimony | ND | 0.200 | 0.100 |
| Arsenic | ND | 0.400 | 0.200 |
| Barium | ND | 0.400 | 0.200 |
| Beryllium | ND | 0.100 | 0.0500 |
| Boron | ND | 5.00 | 2.50 |
| Cadmium | ND | 0.100 | 0.0500 |
| Calcium | ND | 20.0 | 10.0 |
| Chromium | ND | 0.400 | 0.200 |
| Cobalt | ND | 0.100 | 0.0500 |
| Copper | ND | 0.400 | 0.200 |
| Iron | ND | 20.0 | 10.0 |
| Lead | ND | 0.200 | 0.100 |
| Magnesium | ND | 10.0 | 5.00 |
| Manganese | ND | 0.500 | 0.250 |
| Molybdenum | ND | 0.100 | 0.0500 |
| Nickel | ND | 0.400 | 0.200 |
| Potassium | ND | 60.0 | 30.0 |
| Selenium | ND | 0.400 | 0.200 |
| Silver | ND | 0.100 | 0.0500 |
| Sodium | ND | 100 | 50.0 |
| Strontium | ND | 0.500 | 0.250 |
| Thallium | ND | 0.100 | 0.0500 |
| Tin | ND | 10.0 | 5.00 |
| Titanium | ND | 1.00 | 0.500 |
| Vanadium | ND | 0.100 | 0.0500 |
| Zinc | ND | 3.00 | 1.50 |
| Lithium | ND | 2.00 | 1.00 |
| Phosphorus | ND | 12.0 | 6.00 |
| Zirconium | ND | 5.00 | 2.50 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D197
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | IMD040SB | IMD040SL | IMD040SC | | |
| LAB FILE ID: | 98D21075 | 98D21076 | 98D21077 | | |
| DATIME EXTRCTD: | 04/26/1210:12 | 04/26/1210:12 | 04/26/1210:12 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/30/1218:31 | 04/30/1218:36 | 04/30/1218:40 | DATE RECEIVED: | 04/26/12 |
| PREP. BATCH: | IMD040S | IMD040S | IMD040S | | |
| CALIB. REF: | 98D21073 | 98D21073 | 98D21073 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2500 | 2590 | 104 | 2500 | 2580 | 103 | 0 | 80-120 | 20 |
| Antimony | ND | 25.0 | 26.2 | 105 | 25.0 | 26.4 | 106 | 1 | 80-120 | 20 |
| Arsenic | ND | 25.0 | 25.1 | 101 | 25.0 | 25.6 | 102 | 2 | 80-120 | 20 |
| Barium | ND | 25.0 | 25.5 | 102 | 25.0 | 25.6 | 102 | 0 | 80-120 | 20 |
| Beryllium | ND | 25.0 | 25.4 | 101 | 25.0 | 25.0 | 100 | 2 | 80-120 | 20 |
| Boron | ND | 25.0 | 26.2 | 105 | 25.0 | 25.8 | 103 | 2 | 80-120 | 20 |
| Cadmium | ND | 25.0 | 24.9 | 100 | 25.0 | 25.2 | 101 | 1 | 80-120 | 20 |
| Calcium | ND | 2500 | 2650 | 106 | 2500 | 2700 | 108 | 2 | 80-120 | 20 |
| Chromium | ND | 25.0 | 24.2 | 97 | 25.0 | 24.3 | 97 | 0 | 80-120 | 20 |
| Cobalt | ND | 25.0 | 24.6 | 98 | 25.0 | 24.4 | 98 | 1 | 80-120 | 20 |
| Copper | ND | 25.0 | 23.4 | 94 | 25.0 | 23.4 | 94 | 0 | 80-120 | 20 |
| Iron | ND | 2500 | 2560 | 102 | 2500 | 2590 | 104 | 1 | 80-120 | 20 |
| Lead | ND | 25.0 | 24.7 | 99 | 25.0 | 25.4 | 102 | 3 | 80-120 | 20 |
| Magnesium | ND | 2500 | 2570 | 103 | 2500 | 2540 | 102 | 1 | 80-120 | 20 |
| Manganese | ND | 25.0 | 25.3 | 101 | 25.0 | 25.1 | 101 | 0 | 80-120 | 20 |
| Molybdenum | ND | 25.0 | 25.7 | 103 | 25.0 | 25.8 | 103 | 0 | 80-120 | 20 |
| Nickel | ND | 25.0 | 23.5 | 94 | 25.0 | 23.4 | 94 | 0 | 80-120 | 20 |
| Potassium | ND | 2500 | 2750 | 110 | 2500 | 2770 | 111 | 1 | 80-120 | 20 |
| Selenium | ND | 25.0 | 24.8 | 99 | 25.0 | 25.1 | 101 | 1 | 80-120 | 20 |
| Silver | ND | 25.0 | 25.3 | 101 | 25.0 | 25.7 | 103 | 2 | 80-120 | 20 |
| Sodium | ND | 2500 | 2610 | 105 | 2500 | 2660 | 106 | 2 | 80-120 | 20 |
| Strontium | ND | 25.0 | 27.4 | 110 | 25.0 | 27.3 | 109 | 0 | 80-120 | 20 |
| Thallium | ND | 25.0 | 25.5 | 102 | 25.0 | 25.9 | 103 | 1 | 80-120 | 20 |
| Tin | ND | 25.0 | 28.3 | 113 | 25.0 | 28.6 | 114 | 1 | 80-120 | 20 |
| Titanium | ND | 25.0 | 26.1 | 104 | 25.0 | 26.3 | 105 | 1 | 80-120 | 20 |
| Vanadium | ND | 25.0 | 24.9 | 100 | 25.0 | 25.2 | 101 | 1 | 80-120 | 20 |
| Zinc | ND | 50.0 | 50.4 | 101 | 50.0 | 50.3 | 101 | 0 | 80-120 | 20 |
| Lithium | ND | 25.0 | 25.9 | 104 | 25.0 | 25.7 | 103 | 1 | 80-120 | 20 |
| Phosphorus | ND | 250 | 255 | 102 | 250 | 257 | 103 | 1 | 80-120 | 20 |
| Zirconium | ND | 25.0 | 26.2 | 105 | 25.0 | 26.2 | 105 | 0 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D197
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 15.1

| | | | | | |
|---|---|---|---|---|---|
| DILTN FACTR: | 0.995 | 0.957 | 0.985 | | |
| SAMPLE ID: | SL-201-NBZ-SS-0.0-0.5 | | | | |
| CONTROL NO.: | D197-03 | D197-03M | D197-03S | | |
| LAB FILE ID: | 98D21081 | 98D21078 | 98D21079 | | |
| DATIME EXTRCTD: | 04/26/1210:12 | 04/26/1210:12 | 04/26/1210:12 | DATE COLLECTED: | 04/23/12 |
| DATIME ANALYZD: | 04/30/1218:58 | 04/30/1218:45 | 04/30/1218:49 | DATE RECEIVED: | 04/23/12 |
| PREP. BATCH: | IMD040S | IMD040S | IMD040S | | |
| CALIB. REF: | 98D21073 | 98D21073 | 98D21073 | | |

ACCESSION:

| PARAMETER | SMPL RSLT mg/kg | SPIKE AMT mg/kg | MS RSLT mg/kg | MS % REC | SPIKE AMT mg/kg | MSD RSLT mg/kg | MSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 14700 | 2820 | 16300 | 54* | 2900 | 18800 | 139* | 14 | 75-125 | 20 |
| Antimony | 0.438 | 28.2 | 23.9 | 83 | 29.0 | 21.7 | 73* | 9 | 75-125 | 20 |
| Arsenic | 4.70 | 28.2 | 31.9 | 97 | 29.0 | 33.5 | 99 | 5 | 75-125 | 20 |
| Barium | 96.6 | 28.2 | 125 | 100 | 29.0 | 138 | 143* | 10 | 75-125 | 20 |
| Beryllium | 0.594 | 28.2 | 29.1 | 101 | 29.0 | 30.1 | 102 | 3 | 75-125 | 20 |
| Boron | ND | 28.2 | 29.0 | 103 | 29.0 | 29.7 | 102 | 2 | 75-125 | 20 |
| Cadmium | 0.395 | 28.2 | 28.1 | 98 | 29.0 | 29.2 | 99 | 4 | 75-125 | 20 |
| Calcium | 2940 | 2820 | 5970 | 107 | 2900 | 6130 | 110 | 3 | 75-125 | 20 |
| Chromium | 17.0 | 28.2 | 51.7 | 123 | 29.0 | 44.3 | 94 | 15 | 75-125 | 20 |
| Cobalt | 5.72 | 28.2 | 30.6 | 88 | 29.0 | 32.0 | 91 | 5 | 75-125 | 20 |
| Copper | 8.05 | 28.2 | 32.2 | 86 | 29.0 | 33.1 | 86 | 3 | 75-125 | 20 |
| Iron | 19800 | 2820 | 21200 | 48* | 2900 | 23500 | 126* | 10 | 75-125 | 20 |
| Lead | 28.6 | 28.2 | 64.6 | 128* | 29.0 | 65.7 | 128* | 2 | 75-125 | 20 |
| Magnesium | 4210 | 2820 | 6520 | 82 | 2900 | 7230 | 104 | 10 | 75-125 | 20 |
| Manganese | 255 | 28.2 | 270 | 52* | 29.0 | 307 | 177* | 13 | 75-125 | 20 |
| Molybdenum | 0.834 | 28.2 | 30.4 | 105 | 29.0 | 30.0 | 101 | 1 | 75-125 | 20 |
| Nickel | 10.3 | 28.2 | 41.5 | 111 | 29.0 | 36.2 | 89 | 14 | 75-125 | 20 |
| Potassium | 2760 | 2820 | 5610 | 101 | 2900 | 5950 | 110 | 6 | 75-125 | 20 |
| Selenium | ND | 28.2 | 27.9 | 99 | 29.0 | 28.7 | 99 | 3 | 75-125 | 20 |
| Silver | 0.465 | 28.2 | 28.8 | 101 | 29.0 | 29.5 | 100 | 2 | 75-125 | 20 |
| Sodium | ND | 2820 | 2770 | 98 | 2900 | 2870 | 99 | 3 | 75-125 | 20 |
| Strontium | 20.0 | 28.2 | 50.5 | 108 | 29.0 | 54.0 | 117 | 7 | 75-125 | 20 |
| Thallium | 0.226 | 28.2 | 28.8 | 101 | 29.0 | 29.5 | 101 | 3 | 75-125 | 20 |
| Tin | ND | 28.2 | 33.0 | 117 | 29.0 | 34.2 | 118 | 4 | 75-125 | 20 |
| Titanium | 967 | 28.2 | 954 | -49* | 29.0 | 1040 | 266* | 9 | 75-125 | 20 |
| Vanadium | 35.2 | 28.2 | 60.5 | 90 | 29.0 | 65.5 | 104 | 8 | 75-125 | 20 |
| Zinc | 77.9 | 56.4 | 139 | 108 | 58.0 | 139 | 105 | 0 | 75-125 | 20 |
| Lithium | 19.2 | 28.2 | 48.3 | 103 | 29.0 | 51.7 | 112 | 7 | 75-125 | 20 |
| Phosphorus | 254 | 282 | 516 | 93 | 290 | 550 | 102 | 6 | 75-125 | 20 |
| Zirconium | ND | 28.2 | 12.4 | 44* | 29.0 | 14.6 | 50* | 16 | 75-125 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D197
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 15.1
DILTN FACTR: 0.995 0.995
SAMPLE ID: SL-201-NBZ-SS-0.0-0.5
CONTROL NO.: D197-03 D197-03A
LAB FILE ID: 98D21081 98D21080
DATIME EXTRCTD: 04/26/1210:12 04/26/1210:12 DATE COLLECTED: 04/23/12
DATIME ANALYZD: 04/30/1218:58 04/30/1218:54 DATE RECEIVED: 04/23/12
PREP. BATCH: IMD040S IMD040S
CALIB. REF: 98D21073 98D21073

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Aluminum | 14700 | 2930 | 17400 | 93 | 75-125 |
| Antimony | 0.438 | 29.3 | 30.9 | 104 | 75-125 |
| Arsenic | 4.70 | 29.3 | 33.0 | 97 | 75-125 |
| Barium | 96.6 | 29.3 | 127 | 102 | 75-125 |
| Beryllium | 0.594 | 29.3 | 29.2 | 98 | 75-125 |
| Boron | ND | 29.3 | 31.3 | 107 | 75-125 |
| Cadmium | 0.395 | 29.3 | 29.1 | 98 | 75-125 |
| Calcium | 2940 | 2930 | 5850 | 99 | 75-125 |
| Chromium | 17.0 | 29.3 | 42.7 | 88 | 75-125 |
| Cobalt | 5.72 | 29.3 | 31.6 | 88 | 75-125 |
| Copper | 8.05 | 29.3 | 32.5 | 83 | 75-125 |
| Iron | 19800 | 2930 | 22200 | 79 | 75-125 |
| Lead | 28.6 | 29.3 | 56.4 | 95 | 75-125 |
| Magnesium | 4210 | 2930 | 6990 | 95 | 75-125 |
| Manganese | 255 | 29.3 | 277 | 73* | 75-125 |
| Molybdenum | 0.834 | 29.3 | 30.7 | 102 | 75-125 |
| Nickel | 10.3 | 29.3 | 35.0 | 84 | 75-125 |
| Potassium | 2760 | 2930 | 5730 | 101 | 75-125 |
| Selenium | ND | 29.3 | 28.9 | 98 | 75-125 |
| Silver | 0.465 | 29.3 | 29.3 | 99 | 75-125 |
| Sodium | ND | 2930 | 2900 | 99 | 75-125 |
| Strontium | 20.0 | 29.3 | 50.8 | 105 | 75-125 |
| Thallium | 0.226 | 29.3 | 29.4 | 99 | 75-125 |
| Tin | ND | 29.3 | 33.8 | 115 | 75-125 |
| Titanium | 967 | 29.3 | 977 | 32* | 75-125 |
| Vanadium | 35.2 | 29.3 | 62.0 | 92 | 75-125 |
| Zinc | 77.9 | 58.6 | 136 | 100 | 75-125 |
| Lithium | 19.2 | 29.3 | 48.6 | 100 | 75-125 |
| Phosphorus | 254 | 293 | 559 | 104 | 75-125 |
| Zirconium | ND | 29.3 | 29.4 | 100 | 75-125 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D197
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 15.1
DILUTION FACTOR: 0.995 4.98
SAMPLE ID: SL-201-NBZ-SS- SL-201-NBZ-SS-
EMAX SAMP ID: D197-03 D197-03J
LAB FILE ID: 98D21081 98D21082
DATE EXTRACTED: 04/26/1210:12 04/26/1210:12 DATE COLLECTED: 04/23/12
DATE ANALYZED: 04/30/1218:58 04/30/1219:03 DATE RECEIVED: 04/23/12
PREP. BATCH: IMD040S IMD040S
CALIB. REF: 98D21073 98D21073

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Aluminum | 14700 | 15100 | 3 | 10 |
| Antimony | 0.438 | ND | NA | 10 |
| Arsenic | 4.70 | 4.82 | 3 | 10 |
| Barium | 96.6 | 92.1 | 5 | 10 |
| Beryllium | 0.594 | 0.607 | 2 | 10 |
| Boron | ND | ND | 0 | 10 |
| Cadmium | 0.395 | 0.378J | NA | 10 |
| Calcium | 2940 | 3070 | 4 | 10 |
| Chromium | 17.0 | 17.4 | 2 | 10 |
| Cobalt | 5.72 | 5.92 | 4 | 10 |
| Copper | 8.05 | 8.58 | 7 | 10 |
| Iron | 19800 | 20500 | 3 | 10 |
| Lead | 28.6 | 28.2 | 1 | 10 |
| Magnesium | 4210 | 4300 | 2 | 10 |
| Manganese | 255 | 269 | 5 | 10 |
| Molybdenum | 0.834 | 0.809 | 3 | 10 |
| Nickel | 10.3 | 10.6 | 2 | 10 |
| Potassium | 2760 | 2780 | 1 | 10 |
| Selenium | ND | ND | 0 | 10 |
| Silver | 0.465 | 0.459J | NA | 10 |
| Sodium | ND | ND | 0 | 10 |
| Strontium | 20.0 | 19.2 | 4 | 10 |
| Thallium | 0.226 | ND | NA | 10 |
| Tin | ND | ND | 0 | 10 |
| Titanium | 967 | 982 | 1 | 10 |
| Vanadium | 35.2 | 36.0 | 2 | 10 |
| Zinc | 77.9 | 79.8 | 2 | 10 |
| Lithium | 19.2 | 17.9 | 7 | 10 |
| Phosphorus | 254 | 268 | 5 | 10 |
| Zirconium | ND | ND | 0 | 10 |

METHOD 6020
METALS BY ICP-MS

| | | | |
|---|---|---|---|
| Client | : CDM | Date Collected | : 04/23/12 |
| Project | : SSFL AREA IV COLLOCATED SAMPLING | Date Received | : 04/23/12 |
| SDG NO. | : 12D197 | Date Extracted | : 04/26/12 11:30 |
| Sample ID | : EB-NBZ-SS-042312 | Date Analyzed | : 05/04/12 18:28 |
| Lab Samp ID | : D197-04 | Dilution Factor | : 1 |
| Lab File ID | : 98E04044 | Matrix | : WATER |
| Ext Btch ID | : IMD039W | % Moisture | : NA |
| Calib. Ref. | : 98E04042 | Instrument ID | : T-I98 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Aluminum | ND | 0.100 | 0.0200 |
| Antimony | ND | 0.00100 | 0.000500 |
| Arsenic | ND | 0.00100 | 0.000200 |
| Barium | ND | 0.00100 | 0.000500 |
| Beryllium | ND | 0.00100 | 0.000100 |
| Boron | ND | 0.0100 | 0.00500 |
| Cadmium | ND | 0.00100 | 0.000200 |
| Calcium | 0.0303J | 0.100 | 0.0250 |
| Chromium | ND | 0.00100 | 0.000200 |
| Cobalt | ND | 0.00100 | 0.000200 |
| Copper | 0.000579J | 0.00100 | 0.000500 |
| Iron | ND | 0.100 | 0.0100 |
| Lead | 0.000106J | 0.00100 | 0.000100 |
| Magnesium | ND | 0.100 | 0.0100 |
| Manganese | ND | 0.00100 | 0.000200 |
| Molybdenum | ND | 0.00200 | 0.000500 |
| Nickel | ND | 0.00100 | 0.000200 |
| Potassium | ND | 0.100 | 0.0200 |
| Selenium | ND | 0.00100 | 0.000300 |
| Silver | ND | 0.00100 | 0.000200 |
| Sodium | ND | 0.100 | 0.0500 |
| Strontium | ND | 0.00200 | 0.00100 |
| Thallium | ND | 0.00100 | 0.000200 |
| Tin | ND | 0.00100 | 0.000200 |
| Titanium | ND | 0.00200 | 0.000500 |
| Vanadium | ND | 0.00100 | 0.000500 |
| Zinc | ND | 0.0200 | 0.0100 |
| Lithium | ND | 0.00200 | 0.000500 |
| Phosphorus | ND | 0.0500 | 0.0250 |
| Zirconium | ND | 0.00500 | 0.00200 |

METHOD 6020
METALS BY ICP-MS

| | |
|---|---|
| Client : CDM | Date Collected: NA |
| Project : SSFL AREA IV COLLOCATED SAMPLING | Date Received: 04/26/12 |
| SDG NO. : 12D197 | Date Extracted: 04/26/12 11:30 |
| Sample ID: MBLK1W | Date Analyzed: 05/04/12 18:33 |
| Lab Samp ID: IMD039WB | Dilution Factor: 1 |
| Lab File ID: 98E04045 | Matrix : WATER |
| Ext Btch ID: IMD039W | % Moisture : NA |
| Calib. Ref.: 98E04042 | Instrument ID : T-I98 |

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) |
|---|---|---|---|
| Aluminum | ND | 0.100 | 0.0200 |
| Antimony | ND | 0.00100 | 0.000500 |
| Arsenic | ND | 0.00100 | 0.000200 |
| Barium | ND | 0.00100 | 0.000500 |
| Beryllium | ND | 0.00100 | 0.000100 |
| Boron | ND | 0.0100 | 0.00500 |
| Cadmium | ND | 0.00100 | 0.000200 |
| Calcium | ND | 0.100 | 0.0250 |
| Chromium | ND | 0.00100 | 0.000200 |
| Cobalt | ND | 0.00100 | 0.000200 |
| Copper | ND | 0.00100 | 0.000500 |
| Iron | ND | 0.100 | 0.0100 |
| Lead | ND | 0.00100 | 0.000100 |
| Magnesium | ND | 0.100 | 0.0100 |
| Manganese | ND | 0.00100 | 0.000200 |
| Molybdenum | ND | 0.00200 | 0.000500 |
| Nickel | ND | 0.00100 | 0.000200 |
| Potassium | ND | 0.100 | 0.0200 |
| Selenium | ND | 0.00100 | 0.000300 |
| Silver | ND | 0.00100 | 0.000200 |
| Sodium | ND | 0.100 | 0.0500 |
| Strontium | ND | 0.00200 | 0.00100 |
| Thallium | ND | 0.00100 | 0.000200 |
| Tin | ND | 0.00100 | 0.000200 |
| Titanium | ND | 0.00200 | 0.000500 |
| Vanadium | ND | 0.00100 | 0.000500 |
| Zinc | ND | 0.0200 | 0.0100 |
| Lithium | ND | 0.00200 | 0.000500 |
| Phosphorus | ND | 0.0500 | 0.0250 |
| Zirconium | ND | 0.00500 | 0.00200 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D197
METHOD: METHOD 6020

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| CONTROL NO.: | IMD039WB | IMD039WL | IMD039WC | | |
| LAB FILE ID: | 98E04045 | 98E04046 | 98E04047 | | |
| DATIME EXTRCTD: | 04/26/1211:30 | 04/26/1211:30 | 04/26/1211:30 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 05/04/1218:33 | 05/04/1218:38 | 05/04/1218:42 | DATE RECEIVED: | 04/26/12 |
| PREP. BATCH: | IMD039W | IMD039W | IMD039W | | |
| CALIB. REF: | 98E04042 | 98E04042 | 98E04042 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/L | SPIKE AMT mg/L | BS RSLT mg/L | BS % REC | SPIKE AMT mg/L | BSD RSLT mg/L | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 2.50 | 2.65 | 106 | 2.50 | 2.66 | 106 | 0 | 80-120 | 20 |
| Antimony | ND | 0.0250 | 0.0259 | 103 | 0.0250 | 0.0257 | 103 | 1 | 80-120 | 20 |
| Arsenic | ND | 0.0250 | 0.0251 | 100 | 0.0250 | 0.0249 | 99 | 1 | 80-120 | 20 |
| Barium | ND | 0.0250 | 0.0254 | 102 | 0.0250 | 0.0251 | 101 | 1 | 80-120 | 20 |
| Beryllium | ND | 0.0250 | 0.0252 | 101 | 0.0250 | 0.0243 | 97 | 4 | 80-120 | 20 |
| Boron | ND | 0.0250 | 0.0264 | 106 | 0.0250 | 0.0261 | 104 | 1 | 80-120 | 20 |
| Cadmium | ND | 0.0250 | 0.0254 | 102 | 0.0250 | 0.0256 | 102 | 1 | 80-120 | 20 |
| Calcium | ND | 2.50 | 2.79 | 111 | 2.50 | 2.76 | 110 | 1 | 80-120 | 20 |
| Chromium | ND | 0.0250 | 0.0248 | 99 | 0.0250 | 0.0244 | 98 | 2 | 80-120 | 20 |
| Cobalt | ND | 0.0250 | 0.0247 | 99 | 0.0250 | 0.0249 | 100 | 1 | 80-120 | 20 |
| Copper | ND | 0.0250 | 0.0248 | 99 | 0.0250 | 0.0246 | 98 | 1 | 80-120 | 20 |
| Iron | ND | 2.50 | 2.66 | 106 | 2.50 | 2.61 | 104 | 2 | 80-120 | 20 |
| Lead | ND | 0.0250 | 0.0257 | 103 | 0.0250 | 0.0256 | 102 | 1 | 80-120 | 20 |
| Magnesium | ND | 2.50 | 2.69 | 108 | 2.50 | 2.70 | 108 | 0 | 80-120 | 20 |
| Manganese | ND | 0.0250 | 0.0249 | 100 | 0.0250 | 0.0247 | 99 | 1 | 80-120 | 20 |
| Molybdenum | ND | 0.0250 | 0.0253 | 101 | 0.0250 | 0.0251 | 100 | 1 | 80-120 | 20 |
| Nickel | ND | 0.0250 | 0.0247 | 99 | 0.0250 | 0.0242 | 97 | 2 | 80-120 | 20 |
| Potassium | ND | 2.50 | 2.64 | 105 | 2.50 | 2.58 | 103 | 2 | 80-120 | 20 |
| Selenium | ND | 0.0250 | 0.0249 | 99 | 0.0250 | 0.0250 | 100 | 0 | 80-120 | 20 |
| Silver | ND | 0.0250 | 0.0251 | 100 | 0.0250 | 0.0248 | 99 | 1 | 80-120 | 20 |
| Sodium | ND | 2.50 | 2.74 | 109 | 2.50 | 2.72 | 109 | 1 | 80-120 | 20 |
| Strontium | ND | 0.0250 | 0.0252 | 101 | 0.0250 | 0.0249 | 100 | 1 | 80-120 | 20 |
| Thallium | ND | 0.0250 | 0.0249 | 99 | 0.0250 | 0.0251 | 100 | 1 | 80-120 | 20 |
| Tin | ND | 0.0250 | 0.0267 | 107 | 0.0250 | 0.0256 | 102 | 4 | 80-120 | 20 |
| Titanium | ND | 0.0250 | 0.0253 | 101 | 0.0250 | 0.0253 | 101 | 0 | 80-120 | 20 |
| Vanadium | ND | 0.0250 | 0.0247 | 99 | 0.0250 | 0.0245 | 98 | 1 | 80-120 | 20 |
| Zinc | ND | 0.0500 | 0.0550 | 110 | 0.0500 | 0.0531 | 106 | 3 | 80-120 | 20 |
| Lithium | ND | 0.0250 | 0.0249 | 100 | 0.0250 | 0.0244 | 98 | 2 | 80-120 | 20 |
| Phosphorus | ND | 0.250 | 0.268 | 107 | 0.250 | 0.264 | 106 | 1 | 80-120 | 20 |
| Zirconium | ND | 0.0250 | 0.0256 | 102 | 0.0250 | 0.0269 | 108 | 5 | 80-120 | 20 |

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D197
Matrix : SOIL
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HGD031SB | ND | 1 | NA | 0.100 | 0.0500 | 05/01/1212:16 | 04/30/1217:30 | M47E001010 | M47E001008 | HGD031S | NA | 04/30/12 |
| LCS1S | HGD031SL | 0.877 | 1 | NA | 0.100 | 0.0500 | 05/01/1212:18 | 04/30/1217:30 | M47E001011 | M47E001008 | HGD031S | NA | 04/30/12 |
| LCD1S | HGD031SC | 0.872 | 1 | NA | 0.100 | 0.0500 | 05/01/1212:20 | 04/30/1217:30 | M47E001012 | M47E001008 | HGD031S | NA | 04/30/12 |
| SL-199-NBZ-SS-0.0-0.5 | D197-01 | ND | 0.988 | 7.7 | 0.107 | 0.0535 | 05/01/1212:53 | 04/30/1217:30 | M47E001028 | M47E001020 | HGD031S | 04/23/12 | 04/23/12 |
| SL-200-NBZ-SS-0.0-0.5 | D197-02 | ND | 0.997 | 8.7 | 0.109 | 0.0546 | 05/01/1212:55 | 04/30/1217:30 | M47E001029 | M47E001020 | HGD031S | 04/23/12 | 04/23/12 |
| SL-201-NBZ-SS-0.0-0.5 | D197-03 | ND | 1.00 | 15.1 | 0.118 | 0.0589 | 05/01/1212:57 | 04/30/1217:30 | M47E001030 | M47E001020 | HGD031S | 04/23/12 | 04/23/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D197
METHOD: METHOD 7471A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| CONTROL NO.: | HGD031SB | HGD031SL | HGD031SC | | |
| LAB FILE ID: | M47E001010 | M47E001011 | M47E001012 | | |
| DATIME EXTRCTD: | 04/30/1217:30 | 04/30/1217:30 | 04/30/1217:30 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 05/01/1212:16 | 05/01/1212:18 | 05/01/1212:20 | DATE RECEIVED: | 04/30/12 |
| PREP. BATCH: | HGD031S | HGD031S | HGD031S | | |
| CALIB. REF: | M47E001008 | M47E001008 | M47E001008 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/kg | SPIKE AMT mg/kg | BS RSLT mg/kg | BS % REC | SPIKE AMT mg/kg | BSD RSLT mg/kg | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | .833 | .877 | 105 | .833 | .872 | 105 | 1 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D197
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 6.6 |
| DILTN FACTR: | 0.998 | 0.998 | | |
| SAMPLE ID: | I-647-HB03-SS0.0 | | | |
| CONTROL NO.: | D215-01 | D215-01A | | |
| LAB FILE ID: | M47E001014 | M47E001013 | | |
| DATIME EXTRCTD: | 04/30/1217:30 | 04/30/1217:30 | DATE COLLECTED: | 04/24/12 |
| DATIME ANALYZD: | 05/01/1212:24 | 05/01/1212:22 | DATE RECEIVED: | 04/25/12 |
| PREP. BATCH: | HGD031S | HGD031S | | |
| CALIB. REF: | M47E001008 | M47E001008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SPIKE AMT (mg/kg) | AS RSLT (mg/kg) | AS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Mercury | ND | .89 | .946 | 106 | 85-115 |

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D197
METHOD: METHOD 7471A

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | 6.6 |
| DILUTION FACTOR: | 0.998 | 4.99 | | |
| SAMPLE ID: | I-647-HB03-SS0.0 | I-647-HB03-SS0.0DL | | |
| EMAX SAMP ID: | D215-01 | D215-01J | | |
| LAB FILE ID: | M47E001014 | M47E001015 | | |
| DATE EXTRACTED: | 04/30/1217:30 | 04/30/1217:30 | DATE COLLECTED: | 04/24/12 |
| DATE ANALYZED: | 05/01/1212:24 | 05/01/1212:26 | DATE RECEIVED: | 04/25/12 |
| PREP. BATCH: | HGD031S | HGD031S | | |
| CALIB. REF: | M47E001008 | M47E001008 | | |

ACCESSION:

| PARAMETER | SMPL RSLT (mg/kg) | SERIAL DIL RSLT (mg/kg) | DIF RSLT % | QC LIMIT ( % ) |
|---|---|---|---|---|
| Mercury | ND | ND | 0 | 10 |

METHOD 7470A
MERCURY BY COLD VAPOR

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D197
Matrix : WATER
Instrument ID : TI047

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | HGD029WB | 0.000105J | 1 | NA | 0.000500 | 0.000100 | 04/27/1219:05 | 04/27/1210:30 | M47D020043 | M47D020034 | HGD029W | NA | 04/27/12 |
| LCS1W | HGD029WL | 0.00487 | 1 | NA | 0.000500 | 0.000100 | 04/27/1219:08 | 04/27/1210:30 | M47D020044 | M47D020034 | HGD029W | NA | 04/27/12 |
| LCD1W | HGD029WC | 0.00486 | 1 | NA | 0.000500 | 0.000100 | 04/27/1219:10 | 04/27/1210:30 | M47D020045 | M47D020034 | HGD029W | NA | 04/27/12 |
| EB-NBZ-SS-042312 | D197-04 | ND | 1 | NA | 0.000500 | 0.000100 | 04/27/1219:32 | 04/27/1210:30 | M47D020055 | M47D020046 | HGD029W | 04/23/12 | 04/23/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
SDG NO.: 12D197
METHOD: METHOD 7470A

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILTN FACTR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| CONTROL NO.: | HGD029WB | HGD029WL | HGD029WC | | |
| LAB FILE ID: | M47D020043 | M47D020044 | M47D020045 | | |
| DATIME EXTRCTD: | 04/27/1210:30 | 04/27/1210:30 | 04/27/1210:30 | DATE COLLECTED: | NA |
| DATIME ANALYZD: | 04/27/1219:05 | 04/27/1219:08 | 04/27/1219:10 | DATE RECEIVED: | 04/27/12 |
| PREP. BATCH: | HGD029W | HGD029W | HGD029W | | |
| CALIB. REF: | M47D020034 | M47D020034 | M47D020034 | | |

ACCESSION:

| PARAMETER | BLNK RSLT mg/L | SPIKE AMT mg/L | BS RSLT mg/L | BS % REC | SPIKE AMT mg/L | BSD RSLT mg/L | BSD % REC | RPD % | QC LIMIT % | MAX RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | .000105J | .005 | .00487 | 95 | .005 | .00486 | 95 | 0 | 80-120 | 20 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D197
Matrix : SOIL
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | ICD011SB | ND | 1 | NA | 1.00 | 0.500 | 04/27/1222:00 | 04/26/1214:46 | AD35-138 | AD35-132 | ICD011S | NA | 04/26/12 |
| LCS1S | ICD011SL | 6.32 | 1 | NA | 1.00 | 0.500 | 04/27/1222:16 | 04/26/1214:46 | AD35-139 | AD35-132 | ICD011S | NA | 04/26/12 |
| LCD1S | ICD011SC | 6.30 | 1 | NA | 1.00 | 0.500 | 04/27/1222:33 | 04/26/1214:46 | AD35-140 | AD35-132 | ICD011S | NA | 04/26/12 |
| SL-199-NBZ-SS-0.0-0.5 | D197-01 | ND | 1 | 7.7 | 1.08 | 0.542 | 04/27/1222:49 | 04/26/1214:46 | AD35-141 | AD35-132 | ICD011S | 04/23/1209:42 | 04/23/12 |
| SL-200-NBZ-SS-0.0-0.5 | D197-02 | ND | 1 | 8.7 | 1.10 | 0.548 | 04/27/1223:05 | 04/26/1214:46 | AD35-142 | AD35-132 | ICD011S | 04/23/1210:39 | 04/23/12 |
| SL-201-NBZ-SS-0.0-0.5 | D197-03 | ND | 1 | 15.1 | 1.18 | 0.589 | 04/27/1223:21 | 04/26/1214:46 | AD35-143 | AD35-132 | ICD011S | 04/23/1211:10 | 04/23/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D197
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | ICD011SB | ICD011SL | ICD011SC | | |
| LAB FILE ID: | AD35-138 | AD35-139 | AD35-140 | | |
| DATE EXTRACTED: | 04/26/1214:46 | 04/26/1214:46 | 04/26/1214:46 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/27/1222:00 | 04/27/1222:16 | 04/27/1222:33 | DATE RECEIVED: | 04/26/12 |
| PREP. BATCH: | ICD011S | ICD011S | ICD011S | | |
| CALIB. REF: | AD35-132 | AD35-132 | AD35-132 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | SPIKE AMT (mg/kg) | BSD RSLT (mg/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 6.00 | 6.32 | 105 | 6.00 | 6.30 | 105 | 0 | 90-110 | 20 |

METHOD 300.0
FLUORIDE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D197
Matrix : WATER
Instrument ID : D0

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/L) | DLF | MOIST | RL (mg/L) | MDL (mg/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | ICD035WB | ND | 1 | NA | 0.100 | 0.0500 | 04/24/1210:30 | NA | AD31-03 | AD31-01 | ICD035W | NA | NA |
| LCS1W | ICD035WL | 2.09 | 1 | NA | 0.100 | 0.0500 | 04/24/1210:46 | NA | AD31-04 | AD31-01 | ICD035W | NA | NA |
| LCD1W | ICD035WC | 2.09 | 1 | NA | 0.100 | 0.0500 | 04/24/1211:02 | NA | AD31-05 | AD31-01 | ICD035W | NA | NA |
| EB-NBZ-SS-042312 | D197-04 | ND | 1 | NA | 0.100 | 0.0500 | 04/24/1212:55 | NA | AD31-12 | AD31-01 | ICD035W | 04/23/1215:30 | 04/23/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D197
METHOD: 300.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | ICD035WB | ICD035WL | ICD035WC | | |
| LAB FILE ID: | AD31-03 | AD31-04 | AD31-05 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/24/1210:30 | 04/24/1210:46 | 04/24/1211:02 | DATE RECEIVED: | NA |
| PREP. BATCH: | ICD035W | ICD035W | ICD035W | | |
| CALIB. REF: | AD31-01 | AD31-01 | AD31-01 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/L) | SPIKE AMT (mg/L) | BS RSLT (mg/L) | BS % REC | SPIKE AMT (mg/L) | BSD RSLT (mg/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | ND | 2.00 | 2.09 | 105 | 2.00 | 2.09 | 105 | 0 | 90-110 | 20 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D197
Matrix : SOIL
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/kg) | DLF | MOIST | RL (ug/kg) | MDL (ug/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | PCD019SB | ND | 1 | NA | 20.0 | 10.0 | 04/30/1215:15 | 04/26/1214:45 | JD30013 | JD30012 | PCD019S | NA | 04/26/12 |
| LCS1S | PCD019SL | 262 | 1 | NA | 20.0 | 10.0 | 04/30/1215:57 | 04/26/1214:45 | JD30015 | JD30012 | PCD019S | NA | 04/26/12 |
| LCD1S | PCD019SC | 258 | 1 | NA | 20.0 | 10.0 | 04/30/1216:18 | 04/26/1214:45 | JD30016 | JD30012 | PCD019S | NA | 04/26/12 |
| SL-199-NBZ-SS-0.0-0.5 | D197-01 | ND | 1 | 7.7 | 21.7 | 10.8 | 04/30/1220:31 | 04/26/1214:45 | JD30028 | JD30023 | PCD019S | 04/23/1209:42 | 04/23/12 |
| SL-200-NBZ-SS-0.0-0.5 | D197-02 | ND | 1 | 8.7 | 21.9 | 11.0 | 04/30/1220:52 | 04/26/1214:45 | JD30029 | JD30023 | PCD019S | 04/23/1210:39 | 04/23/12 |
| SL-201-NBZ-SS-0.0-0.5 | D197-03 | ND | 1 | 15.1 | 23.6 | 11.8 | 04/30/1221:13 | 04/26/1214:45 | JD30030 | JD30023 | PCD019S | 04/23/1211:10 | 04/23/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D197
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | SOIL | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | | |
| LAB SAMP ID: | PCD019SB | PCD019SL | PCD019SC | | |
| LAB FILE ID: | JD30013 | JD30015 | JD30016 | | |
| DATE EXTRACTED: | 04/26/1214:45 | 04/26/1214:45 | 04/26/1214:45 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/30/1215:15 | 04/30/1215:57 | 04/30/1216:18 | DATE RECEIVED: | 04/26/12 |
| PREP. BATCH: | PCD019S | PCD019S | PCD019S | | |
| CALIB. REF: | JD30012 | JD30012 | JD30012 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/kg) | SPIKE AMT (ug/kg) | BS RSLT (ug/kg) | BS % REC | SPIKE AMT (ug/kg) | BSD RSLT (ug/kg) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 250 | 262 | 105 | 250 | 258 | 103 | 2 | 85-115 | 15 |

METHOD 314.0
PERCHLORATE

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D197
Matrix : WATER
Instrument ID : I57

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | PCD007WB | ND | 1 | NA | 2.00 | 1.00 | 04/30/1210:46 | NA | JD30002 | JD30001 | PCD007W | NA | NA |
| LCS1W | PCD007WL | 25.5 | 1 | NA | 2.00 | 1.00 | 04/30/1211:28 | NA | JD30004 | JD30001 | PCD007W | NA | NA |
| LCD1W | PCD007WC | 25.3 | 1 | NA | 2.00 | 1.00 | 04/30/1211:49 | NA | JD30005 | JD30001 | PCD007W | NA | NA |
| EB-NBZ-SS-042312 | D197-04R | ND | 1 | NA | 2.00 | 1.00 | 04/30/1214:07 | NA | JD30010 | JD30001 | PCD007W | 04/23/1215:30 | 04/23/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D197
METHOD: METHOD 314.0

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | PCD007WB | PCD007WL | PCD007WC | | |
| LAB FILE ID: | JD30002 | JD30004 | JD30005 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/30/1210:46 | 04/30/1211:28 | 04/30/1211:49 | DATE RECEIVED: | NA |
| PREP. BATCH: | PCD007W | PCD007W | PCD007W | | |
| CALIB. REF: | JD30001 | JD30001 | JD30001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Perchlorate | ND | 25.0 | 25.5 | 102 | 25.0 | 25.3 | 101 | 1 | 85-115 | 15 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D197

Matrix : SOIL
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (mg/kg) | DLF | MOIST | RL (mg/kg) | MDL (mg/kg) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1S | HCD013SB | ND | 1 | NA | 1.00 | 0.500 | 04/26/1221:13 | 04/25/1214:21 | ID27013 | ID27011 | HCD013S | NA | 04/25/12 |
| MBLK1S | HCD013SQ | ND | 1 | NA | 1.00 | 0.500 | 04/26/1221:23 | 04/25/1214:21 | ID27014 | ID27011 | HCD013S | NA | 04/25/12 |
| LCS1S | CSD013SL | 8.83 | 1 | NA | 1.00 | 0.500 | 04/26/1221:34 | 04/25/1214:21 | ID27015 | ID27011 | HCD013S | NA | 04/25/12 |
| LCS1S | CSD013SX | 9.01 | 1 | NA | 1.00 | 0.500 | 04/26/1221:44 | 04/25/1214:21 | ID27016 | ID27011 | HCD013S | NA | 04/25/12 |
| LCS2S | CID013SL | 407 | 20 | NA | 20.0 | 10.0 | 04/26/1221:55 | 04/25/1214:21 | ID27017 | ID27011 | HCD013S | NA | 04/25/12 |
| LCS2S | CID013SX | 389 | 20 | NA | 20.0 | 10.0 | 04/26/1222:05 | 04/25/1214:21 | ID27018 | ID27011 | HCD013S | NA | 04/25/12 |
| SL-201-NBZ-SS-0.0-0.5 | D197-03 | ND | 1 | 15.1 | 1.18 | 0.589 | 04/27/1209:17 | 04/25/1214:21 | ID27063 | ID27061 | HCD013S | 04/23/1211:10 | 04/23/12 |
| SL-201-NBZ-SS-0.0-0.5 | D197-03R | ND | 1 | 15.1 | 1.18 | 0.589 | 04/27/1209:27 | 04/25/1214:21 | ID27064 | ID27061 | HCD013S | 04/23/1211:10 | 04/23/12 |
| SL-199-NBZ-SS-0.0-0.5 | D197-01 | ND | 1 | 7.7 | 1.08 | 0.542 | 04/27/1219:50 | 04/25/1214:21 | ID27103 | ID27095 | HCD013S | 04/23/1209:42 | 04/23/12 |
| SL-199-NBZ-SS-0.0-0.5 | D197-01R | ND | 1 | 7.7 | 1.08 | 0.542 | 04/27/1220:00 | 04/25/1214:21 | ID27104 | ID27095 | HCD013S | 04/23/1209:42 | 04/23/12 |
| SL-200-NBZ-SS-0.0-0.5 | D197-02 | ND | 1 | 8.7 | 1.10 | 0.548 | 04/27/1220:10 | 04/25/1214:21 | ID27105 | ID27095 | HCD013S | 04/23/1210:39 | 04/23/12 |
| SL-200-NBZ-SS-0.0-0.5 | D197-02R | ND | 1 | 8.7 | 1.10 | 0.548 | 04/27/1220:21 | 04/25/1214:21 | ID27106 | ID27095 | HCD013S | 04/23/1210:39 | 04/23/12 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D197
METHOD: 7199

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 20
SAMPLE ID: MBLK1S
LAB SAMP ID: HCD013SQ CID013SX
LAB FILE ID: ID27014 ID27018
DATE EXTRACTED: 04/25/1214:21 04/25/1214:21 DATE COLLECTED: NA
DATE ANALYZED: 04/26/1221:23 04/26/1222:05 DATE RECEIVED: 04/25/12
PREP. BATCH: HCD013S HCD013S
CALIB. REF: ID27011 ID27011

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 480 | 389 | 81 | 80-120 |

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D197
METHOD: 7199

| | | | | |
|---|---|---|---|---|
| MATRIX: | SOIL | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | | |
| SAMPLE ID: | MBLK1S | | | |
| LAB SAMP ID: | HCD013SB | CSD013SL | | |
| LAB FILE ID: | ID27013 | ID27015 | | |
| DATE EXTRACTED: | 04/25/1214:21 | 04/25/1214:21 | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/26/1221:13 | 04/26/1221:34 | DATE RECEIVED: | 04/25/12 |
| PREP. BATCH: | HCD013S | HCD013S | | |
| CALIB. REF: | ID27011 | ID27011 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (mg/kg) | SPIKE AMT (mg/kg) | BS RSLT (mg/kg) | BS % REC | QC LIMIT ( % ) |
|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 10.0 | 8.83 | 88 | 80-120 |

METHOD 7199
HEXAVALENT CHROMIUM

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D197
Matrix : WATER
Instrument ID : I59

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (ug/L) | DLF | MOIST | RL (ug/L) | MDL (ug/L) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBLK1W | HCD023WB | ND | 1 | NA | 0.200 | 0.100 | 04/24/1210:30 | NA | ID24003 | ID24001 | HCD023W | NA | NA |
| MBLK1W | HCD023WQ | ND | 1 | NA | 0.200 | 0.100 | 04/24/1210:40 | NA | ID24004 | ID24001 | HCD023W | NA | NA |
| LCS1W | HCD023WL | 1.82 | 1 | NA | 0.200 | 0.100 | 04/24/1211:11 | NA | ID24007 | ID24001 | HCD023W | NA | NA |
| LCS1W | HCD023WX | 1.60 | 1 | NA | 0.200 | 0.100 | 04/24/1211:22 | NA | ID24008 | ID24001 | HCD023W | NA | NA |
| LCD1W | HCD023WC | 1.98 | 1 | NA | 0.200 | 0.100 | 04/24/1211:53 | NA | ID24009 | ID24001 | HCD023W | NA | NA |
| LCD1W | HCD023WY | 1.92 | 1 | NA | 0.200 | 0.100 | 04/24/1212:03 | NA | ID24010 | ID24001 | HCD023W | NA | NA |
| EB-NBZ-SS-042312 | D197-04 | ND | 1 | NA | 0.200 | 0.100 | 04/24/1210:50 | NA | ID24005 | ID24001 | HCD023W | 04/23/1215:30 | 04/23/12 |
| EB-NBZ-SS-042312 | D197-04R | ND | 1 | NA | 0.200 | 0.100 | 04/24/1211:01 | NA | ID24006 | ID24001 | HCD023W | 04/23/1215:30 | 04/23/12 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D197
METHOD: 7199

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HCD023WB | HCD023WL | HCD023WC | | |
| LAB FILE ID: | ID24003 | ID24007 | ID24009 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/24/1210:30 | 04/24/1211:11 | 04/24/1211:53 | DATE RECEIVED: | NA |
| PREP. BATCH: | HCD023W | HCD023W | HCD023W | | |
| CALIB. REF: | ID24001 | ID24001 | ID24001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 2.00 | 1.82 | 91 | 2.00 | 1.98 | 99 | 9 | 80-120 | 20 |

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
BATCH NO.: 12D197
METHOD: 7199

| | | | | | |
|---|---|---|---|---|---|
| MATRIX: | WATER | | | % MOISTURE: | NA |
| DILUTION FACTOR: | 1 | 1 | 1 | | |
| SAMPLE ID: | MBLK1W | | | | |
| LAB SAMP ID: | HCD023WQ | HCD023WX | HCD023WY | | |
| LAB FILE ID: | ID24004 | ID24008 | ID24010 | | |
| DATE EXTRACTED: | NA | NA | NA | DATE COLLECTED: | NA |
| DATE ANALYZED: | 04/24/1210:40 | 04/24/1211:22 | 04/24/1212:03 | DATE RECEIVED: | NA |
| PREP. BATCH: | HCD023W | HCD023W | HCD023W | | |
| CALIB. REF: | ID24001 | ID24001 | ID24001 | | |

ACCESSION:

| PARAMETER | BLNK RSLT (ug/L) | SPIKE AMT (ug/L) | BS RSLT (ug/L) | BS % REC | SPIKE AMT (ug/L) | BSD RSLT (ug/L) | BSD % REC | RPD ( % ) | QC LIMIT ( % ) | MAX RPD ( % ) |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | 2.00 | 1.60 | 80 | 2.00 | 1.92 | 96 | 18 | 80-120 | 20 |

METHOD 9040C
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D197
Matrix : WATER
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EB-NBZ-SS-042312 | D197-04 | 5.93 | 1 | NA | NA | NA | 04/23/1218:59 | NA | 12PHD026W01 | PHD026W | PHD026W | 04/23/1215:30 | 04/23/12 |
| EB-NBZ-SS-042312DUP | D197-04D | 5.89 | 1 | NA | NA | N0 | 04/23/1219:01 | NA | 12PHD026W02 | PHD026W | PHD026W | 04/23/1215:30 | 04/23/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9040C
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 12D197 DATE RECEIVED: 04/23/12
SAMPLE ID: EB-NBZ-SS-042312DUP DATE EXTRACTED: NA
CONTROL NO.: D197-04D DATE ANALYZED: 04/23/1219:01

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 5.93 | 5.89 | 0.04 | 0.10 |

METHOD 9045D
PH

Client : CDM
Project : SSFL AREA IV COLLOCATED SAMPLING
Batch No. : 12D197
Matrix : SOIL
Instrument ID : 53

| SAMPLE ID | EMAX SAMPLE ID | RESULTS (pH Unit) | DLF | MOIST | RL (pH Unit) | MDL (pH Unit) | Analysis DATETIME | Extraction DATETIME | LFID | CAL REF | PREP BATCH | Collection DATETIME | Received DATETIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-199-NBZ-SS-0.0-0.5 | D197-01 | 6.66 | 1 | NA | NA | NA | 04/24/1215:24 | 04/24/1215:24 | 12PHD028S01 | PHD028S | PHD028S | 04/23/1209:42 | 04/23/12 |
| SL-199-NBZ-SS-0.0-0.5DUP | D197-01D | 6.63 | 1 | NA | NA | NA | 04/24/1215:25 | 04/24/1215:24 | 12PHD028S02 | PHD028S | PHD028S | 04/23/1209:42 | 04/23/12 |
| SL-200-NBZ-SS-0.0-0.5 | D197-02 | 6.48 | 1 | NA | NA | NA | 04/24/1215:27 | 04/24/1215:24 | 12PHD028S03 | PHD028S | PHD028S | 04/23/1210:39 | 04/23/12 |
| SL-201-NBZ-SS-0.0-0.5 | D197-03 | 7.34 | 1 | NA | NA | NA | 04/24/1215:29 | 04/24/1215:24 | 12PHD028S04 | PHD028S | PHD028S | 04/23/1211:10 | 04/23/12 |

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

CLIENT: CDM
PROJECT: SSFL AREA IV COLLOCATED SAMPLING
METHOD: METHOD 9045D
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 12D197 DATE RECEIVED: 04/23/12
SAMPLE ID: SL-199-NBZ-SS-0.0-0.5DUP DATE EXTRACTED: 04/24/1215:24
CONTROL NO.: D197-01D DATE ANALYZED: 04/24/1215:25

ACCESSION:

| PARAMETER | SAMPLE (pH Unit) | DUP. SAMPLE (pH Unit) | DIFFERENCE (pH Unit) | LIMIT (pH Unit) |
|---|---|---|---|---|
| pH | 6.66 | 6.63 | 0.03 | 0.10 |

# Appendix C
# Data Usability Assessment Report
**(On CD)**

# Appendix C
# Data Usability Assessment Report

The purposes of this data usability and assessment report (DUAR) are to 1) summarize the data validation performed on the data sets for the Historic Site Assessment (HSA) Northern Buffer Zone (NBZ) samples collected, and 2) determine whether the sample results meet the Data Quality Objectives (DQOs) outlined in the *Master Work Plan/Field Sampling and Analysis Plan Co-Located Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California* (CDM Federal Programs Corporation [CDM] 2011).

## C.1 Usability Summary

For this data usability assessment, 61 data sets were reviewed. A data set consists of 20 or fewer samples grouped together by analytical method for analyses depending on the time and date of when the samples were received by the laboratory. A data set is called a sample delivery group, or SDG. The analyses performed are discussed in Section 2.5 of the NBZ Technical Memorandum (TM).

Samples were collected and analyzed in accordance with the WP/FSAP (CDM 2011a) and associated sampling documents as discussed in the NBZ TM. Deviations were encountered during the field investigation for the NBZ sampling activities and are discussed in detail in Section 2.7 of the NBZ TM.

The validated data for the NBZ samples are usable as reported, with the exception of the rejected data. Eight benzidine results and two hexachlorocyclopentadiene results were rejected for NBZ samples. For all NBZ data, 0.03 percent of the results were rejected. These rejected data do not impact project objectives and goals. Specific details are provided in the validation reports in this Appendix and below in Section C.8.

## C.2 Data Validation Procedures

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

The data validation strategy employed was to validate 10 percent of the data according to EPA Level IV protocols (all QC parameters and raw data) and the remaining 90 percent according to EPA Level III (all QC parameters except calibrations and raw data) protocols. The Level IV determination also included reviewing 10 percent for each laboratory and each method. In order to achieve this,

the validators choose the appropriate samples in each SDG. Hence, not all samples in some of the SDGs were Level IV validated but a mixture of Level IV and Level III.

Table C-1 shows all SDGs that include the NBZ samples and which SDGs were validated as Level III or Level IV. Some SDGs contain samples from other subareas but all samples in an SDG were validated together. An index of samples associated with each SDG is presented at the beginning of Appendix C.

In order to evaluate the quality of the laboratory and the validation firm, CDM Smith chemists reviewed 10 percent or greater of the NBZ sample SDGs. The SDGs reviewed are chosen based on methods and level of validation performed by the validation firm. The purpose of the review was to identify any quality control issues with the laboratory not identified by the validation firm or any discrepancies in validation procedures by the validation firm. No additional qualifiers were applied to the data based on CDM Smith's review.

## C.3 Quality Assurance Objectives

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

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

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

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

## C.4 Summary of Field and Laboratory QA Activities

CDM Smith completed sampling activities in the NBZ in accordance with the approved WP/FSAP (CDM 2011) and addendums. A total of 224 soil samples were collected and analyzed from the locations described in Table 2.1 in the NBZ TM. Table 2-2 in the NBZ TM provides a summary of the samples collected and the

laboratory analyses requested for the NBZ. An index of samples associated with each SDG is shown at the beginning of the data validation reports presented in this appendix. The WP/FSAP (CDM 2011) defined the procedures to be followed and the data quality requirements for the field sampling events.

## C.5 Field Quality QA/QC

Field QC samples, such as matrix spike/matrix spike duplicates (MS/MSDs) and field duplicates, were to be collected at a frequency of 1 per 20 samples (5 percent) for MS/MSDs and field duplicates. A total of 10 field duplicate/MS/MSD samples were collected equating to approximately five percent for the whole program. On an individual method basis, the five percent goal was approximately met for all analyses except formaldehyde, glycols, NDMA, confirmation analyses (Method 6850) for perchlorate, terphenyls and GRO samples. For VOCs and 1,4-dioxane, field duplicates and MS/MSDs were inadvertently not collected. These methods are not considered highly critical for program decisions and the slightly lower than five percent goal does not adversely affect the quality of the data. MS/MSD and field duplicate samples met the frequency requirements detailed in the WP/FSAP (CDM 2011a) except for the methods listed above.

Fourteen equipment rinsate blank samples were collected for the NBZ. The equipment rinsate blank results are presented in Table C-2.

No field blanks were collected during sampling for the NBZ. The field blanks associated with the ASTM International decontamination water used during NBZ sampling have been applied to the NBZ samples accordingly. The results for these samples are presented in Table C-3.

Eighteen trip blank samples were shipped with the NBZ samples. The results for these samples are presented in Table C-4. Data qualifications based on blank detections are discussed in Section C.7 and in the Appendix C validation reports.

Temperature blanks were to be included with each shipment of samples. Based on validation results, all temperature blanks for the NBZ met criteria.

The number of field QC samples collected satisfies the minimum requirements for the NBZ sampling program except as noted previously. Field QA/QC objectives were attained through the use of appropriate sampling techniques and collection of the required number and frequency of QC samples.

## C.6 Laboratory Quality QA/QC

Analytical QA/QC was assessed by laboratory QC checks, method blanks, sample custody tracking, sample preservation, adherence to holding times, laboratory control samples (LCSs), MSs, calibration recoveries, surrogates, tuning criteria, second column confirmations, internal standards, serial dilutions, laboratory duplicates, and

interference check standards. The majority of the laboratory QC sample criteria met project requirements as indicated in the data validation reports in this appendix with the appropriate qualifiers applied. Ten individual analyte results for samples from NBZ (0.03 percent of all anlaytes) were rejected. These are discussed in detail in this Appendix and the individual data validation reports.

# C.7 Data Quality Indicators

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

Achievement of the DQOs was determined in part by the use of data quality indicators (DQIs) as described in the WP/FSAP (CDM 2011). These DQIs for measurement data are expressed in terms of PARCCS. The DQIs provide a mechanism for ongoing control to evaluate and measure data quality throughout the project. These criteria are defined in the sections below.

## C.7.1 Precision

Precision is a quantitative term that estimates the reproducibility of a set of replicate measurements under a given set of conditions. It is defined as a measurement of mutual agreement between measurements of the same property and is expressed in terms of relative percent difference (RPD) between duplicate determinations.

RPD is calculated as follows:

$$\text{RPD} = \text{absolute value } [(C1-C2)/\{(C1+C2)/2)\}] \times 100\%$$

Where:

C1 = concentration of primary sample
C2 = concentration of duplicate sample

Field and analytical precision were determined from the review of the field duplicate results. The sample results were compared by calculating their RPDs. The field duplicate samples were collected in the same manner as the original samples but were collected in separate, individual containers, given separate sample identifiers, and treated as individual samples by the laboratory.

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

The field duplicate RPD criterion is 50 percent. Field duplicates for this project were validated using the following: If one result is non-detect and the other result is above the RL, the RPD result is shown as 200 percent and the field duplicate sample and parent sample results are qualified as estimated "J" or "UJ." If the field duplicate RPD

was above the 50 percent criterion (and both sample results were above the RL), the field duplicate and parent sample results for that analyte were qualified as estimated "J."

Qualifiers were applied to applicable sample analyte results during the validation process based on laboratory and field duplicate precision results. Details are discussed in the laboratory validation reports in this appendix. Table C-5 shows the field duplicate pairs and RPD results for the NBZ. RPD results outside of criteria are highlighted.

The following individual analyte results were qualified as estimated "J/UJ" based on precision criteria for the NBZ samples:

- Thirty-two metal analyte results were qualified as estimated based on laboratory precision criteria
- Fifty-seven PCB/PCT analyte results were qualified as estimated based on laboratory precision criteria
- Thirty-six SVOC anlayte results were qualified as estimated based on laboratory precision criteria
- Fourteen pesticide results, three PCB/PCT results, 18 SVOC results were qualified as estimated based on second column %D confirmation
- Sixty-four dioxin results; one fluoride/nitrate result; 11 metal results; six TPH EFH results; 16 pesticide results; six PCB/PCT results; and 52 SVOC SIM results were qualified based on field duplicate criteria

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

## C.7.2 Accuracy

Accuracy is the degree of agreement between a measurement and the accepted reference or true value and is a measure of the bias in a system. Accuracy of the data was assessed by comparing LCS recovery, MS recovery, calibration recovery, Inductively Coupled Plasma (ICP) interferences, and by performing serial dilution checks during metals analyses. Accuracy is expressed as percent recovery (%R), which is calculated by:

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

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

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

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

Qualifiers were applied to applicable sample analyte results during the validation process based on laboratory accuracy results and are discussed in detail in the laboratory validation reports in Appendix C.

The following individual analyte results were qualified as nondetect “U” or nondetect estimated “UJ" based on accuracy criteria for the NBZ samples:

- Thirty-one pesticide results; 23 PCB/PCT results; 27 herbicide results; and one VOC result were qualified as estimated based on calibration criteria

- One dioxin result; two NDMA results; 413 metal analyte results; one TPH-EFH result; one pesticide result; five herbicide results; 21 SVOC results; and two SVOC SIM results were qualified as estimated based on MS percent recovery criteria

- One terphenyl/alcohol result and 12 SVOC results were qualified for LCS percent recovery criteria

- Four pesticide results and five PCB/PCT results were qualified as estimated based on surrogate recovery criteria

Sample preservation, handling, and holding times are additional measures of accuracy of the data. All sample preservation, holding times and handling criteria were met.

Sample results that have been qualified as estimated "J/UJ" due to accuracy criteria are usable for project decisions.

## C.7.3 Blank Contamination

Field blanks (e.g., equipment and trip) and laboratory method blanks are analyzed to identify possible sources of contamination. Contamination of a sample can be introduced by field sample collection methods, sample handling, preparation, and/or analysis. The laboratory validation reports in this appendix and summarized below discuss the results qualified based on field and laboratory blank contamination.

The following individual analyte results were qualified as nondetect "U" based on blank contamination for the NBZ samples:

- One nitrate result was qualified as nondetect due to field blank contamination criteria
- One thousand, seven hundred and seventeen dioxin results (47%) and one formaldehyde result were qualified as non-detect due to blank contamination criteria

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

Tables C-2 through C-4 provide a summary of chemicals observed in the equipment, field and trip blank samples. Most of the equipment blanks, field blanks and trip blanks detected compounds were below the RLs but above the MDLs. Compounds detected above the RL in equipment and trip blanks are highlighted yellow in the associated tables.

ASTM International Type II water is not typically certified "clean" to the low RLs established for the low level methods used for NBZ sampling. CDM Smith will continue to monitor ASTM International Type II water field blanks for detected concentrations of analytes throughout the sampling program.

A review of the equipment blanks for the NBZ sampling was also performed. In general, a variety of analytes were detected above their respective RLs. All Phase 3 equipment blanks will continue to be monitored in order to determine if these low level detections are consistent, thus indicating a possible deficiency in decontamination procedures and/or source water impacts that need to be addressed and corrected. No qualification of sample results was required during the validation process regarding equipment blank contamination. To date, chemical detections in equipment blank samples appear to be random occurrences.

Trip blank results are presented in Table C-4. All the trip blank samples had detections of GRO. The trip blank samples are received from the laboratory in coolers with the empty sample jars and are returned to the laboratory with the collected samples all the while unopened in the field. The laboratory was requested to review these anomalous results and the chromatograms for these samples. EMAX noted that the detects were the results of one or more discrete peaks that eluted in the range of

GROs (from C5 to C12). Those discrete peaks were included in the integration of the samples resulting in GRO detection above the MRL. However, EMAX reported that there was no gasoline pattern shown in these trip blanks. CDM Smith will test a vial of each set (lot) of trip blank samples received from a laboratory prior to their use to confirm the quality of the water supplied or receive proper documentation from the laboratory of the quality of the trip blank water. This will help determine if future GRO detections above the MRL can be attributed to contamination in the shipping process (in the cooler) or if the detections of individual GRO compounds are isolated in the laboratory. Future reporting rules for GRO in trip blanks will require the identification of clearly identified GRO patterns by the laboratory. All sample results were nondetect for GRO for the NBZ samples except for three soil samples.

## C.7.4 Representativeness, Comparability, and Sensitivity

Representativeness, comparability, and sensitivity are achieved by using EPA-approved sampling procedures and analytical methodologies. By following the procedures described in the WP/FSAP (CDM 2011) for this sampling event and future sampling events, sample analysis should yield results representative of environmental conditions at the time of sampling. Similarly, reasonable comparability of analytical results for this and future sampling events can be achieved if approved EPA analytical methods and standardized reporting units are employed.

### C.7.4.1 Representativeness

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

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

Field sampling accuracy was attained through strict adherence to the approved WP/FSAP (CDM 2011) and by using approved standard operating procedures for field data collection. Based on this, the data should represent as near as possible the actual field conditions at the time of sampling.

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

### C.7.4.2 Comparability

Comparability is a qualitative term that expresses the confidence with which a data set can be compared with another. Strict adherence to standard sample collection

procedures, analytical detection limits, and analytical methods assures that data from like samples and sample conditions are comparable. This comparability is independent of laboratory personnel, data reviewers, or sampling personnel. Comparability criteria are met for the project if, based on data review, the sample collection and analytical procedures are determined to have been followed, or defined to show that variations did not affect the values reported.

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

### C.7.4.3 Sensitivity

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

***Detection Limits***

Each analytical method used during the sampling events was selected because it had potential to achieve RLs established for this project. RLs were established for each analyte in consultation with the laboratory to achieve analytical results at or below regulatory comparison criteria.

The method detection limit (MDL) is defined as the concentration of an analyte that produces a signal with a 99 percent confidence that the concentration is above that of a blank but that that concentration cannot be accurately quantified. A blank is a sample that does not contain measurable concentrations of the analyte of concern. Tested by statistical performance, calibration samples, and LCSs, MDLs represent the best fundamental measurement of instrument sensitivity and the basis for establishing RLs.

The laboratory RL is typically about 3 to 5 times higher than the MDL and is a laboratory-specific number. The actual sample RL is variable based on the sample matrix, moisture content, and other sample-specific factors. When a sample has to be diluted before analysis, either because of matrix problems or to bring the instrument response within the linear dynamic range, the RL is raised by a factor corresponding to the dilution factor.

In reporting environmental sample results, laboratories follow protocols that help ensure that the result reported is at the lowest level and is defensible, taking into account the ability of the instrument to differentiate a signal generated by the analyte from the background instrument noise, imprecision added to the detection capabilities of the analyte due to the sample processing manipulations (MDLs) and

sample matrix affects, and adjustments made to the detection limits based on difficulties encountered in analyzing the sample (dilution factors, etc.).

The result for an analyte is flagged with a "U" if that analyte was not detected, or qualified with a "J" flag if blank or other QC results fall outside the appropriate tolerance limits. If an analyte is present at a concentration between the MDL and the RL, the analytical result is flagged with a "J," indicating an estimated quantity. Qualifying the result as an estimated concentration reflects increased uncertainty in the reported value.

The following analyses and individual analyte sample results were qualified as estimated "J" due to the sample results being reported as detected below the RL for the NBZ samples:

- Method 1613B (Dioxins)
  - One thousand four hundred and eighty-seven individual analyte results
- Method 300 (Fluoride/Nitrate)
  - Sixty-eight individual analyte results
- Methods 6010B/6020 (Metals)
  - Three hundred and ninety-eight individual analyte results
- Method 7471A (Mercury)
  - Five individual analyte results
- Method 8015B (TPH EFH)
  - One hundred and twelve individual analyte results
- Method 8081A (Pesticides)
  - Fifty-seven individual analyte result
- Method 8082 (PCB/PCTs)
  - Nineteen individual analyte results
- Method 8260B (VOCs)
  - One individual analyte result
- Method 8270C (SVOCs)
  - One individual analyte result
- Method 8270C SIM (SVOCs)
  - Four hundred and eighty individual analyte results
- Method 8315A (Formaldehyde)
  - Three individual analyte results
- Method 9014 (Cyanide)

- Eight individual analyte results

As discussed in Section C.7.3, the MDLs for the dioxins are calculated for each sample and are very low resulting in numerous results qualified as estimated "J" values because they are below the RL as indicated above. The qualification of the dioxins results as estimated "J" based on RL criteria does not falsely diminish identification of site-related contaminants.

In summary, for all methods analyzed for NBZ samples, results for some of the analytes were qualified as estimated due to RL criteria failure for dioxins, fluoride/nitrate, metals, mercury, EFH, pesticides, PCB/PCTs , one VOC, one SVOC, SVOC SIM, formaldehyde, and cyanide results. For the data validated in this TM, RLs for a majority of the sample results were low enough to compare to the RLs stated in the WP/FSAP (CDM 2011). RLs above those stated in the WP/FSAP (CDM 2011) will be evaluated on a case by case basis to see if resampling is required.

The RLs for this project are lower than "normal" environmental data analyses for most classes of compounds. Some analytical laboratory methods were modified in order to achieve the lowest practicable RLs in an attempt to comply with the AOC. All modified analyses have undergone studies evaluating the effect of the modifications on precision and accuracy. An independent study evaluating the precision and accuracy of the modified herbicide method has been completed. Review of the herbicide results indicate that the method modifications did not achieve precision and accuracy goals at this lower reporting limit for herbicides, pesticides and PCB/PCTs. Nondetect RLs for these data have been adjusted accordingly. These results are still considered usable for project decisions.

## C.8 Review of Selected Validation Reports

CDM Smith performed a review of 10 percent of the validation reports identified in Table C-1. This review involved comparing the validation report results against the laboratory data packages as well as the validation guidance documents. All validation report results that were reviewed were verified against the laboratory data packages and determined that validation documents were followed as required.

## C.9 Data Completeness

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

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

A. $$\%\text{Completeness} = C_x \frac{100}{n}$$

Where:

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

B. $$\%\text{Completeness} = V_x \frac{100}{n'}$$

Where:

V = number of measurements judged valid
n' = total number of measurements made

The overall completeness goal, as defined in the WP/FSAP (CDM 2011), for this sampling event is 90 percent for each analytical test for all project data.

A total of 224 NBZ soil samples including the field duplicates were collected and analyzed. As discussed in Section 2.8 of the TM, a total of 196 locations were sampled in the NBZ. A total of three locations were not sampled due to proximity to the Golden Eagle nest (SL-093 and SL-098) and one location for shallow refusal (SL-041). Nine locations were relocated due to close proximity to a Golden Eagle Nest. Thirty-eight shallow refusals were encountered during the sampling. Of the 38 shallow refusals, 37 of these locations were sampled as surface only and one location only was not sampled for either surface or subsurface. The number of subsurface samples to be collected at each location was not pre-determined because the total depth of each boring varies depending on the local geology. The completeness goal for the actual number of samples collected compared to the number of samples planned is considered acceptable as a sample was collected from each location (depending on shallow refusal).

The completeness goal for acceptable data was 99.9 percent of the number of measurements judged to be valid versus the total number of measurements made for all NBZ samples analyzed. Table C-6, Completeness Calculation Summary, shows a summary of the results that were estimated or rejected.

The following NBZ individual analyte results were rejected per analyses:

- Method 8270C
  - Ten out of 10,700 SVOC results (0.09 percent)

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

Sampling deviations from procedures described in the WP/FSAP (CDM 2011) are discussed in Section 2.8 of the TM. Deviations did not impact DQOs for this sampling

event. The data reported and not rejected are suitable for their intended use for characterization of Area IV of SSFL. The DQIs identified in the WP/FSAP (CDM 2011) met appropriate criteria. The achievement of the completeness goals for the data indicates a sufficient amount of usable data has been generated for project decisions.

## C.10 Assessment of Data Usability and Reconciliation with WP/FSAP Goals

Over 99 percent of the data validated for the NBZ, and reported in this TM, are suitable for their intended use for site characterization. Rejected sample results are not suitable for project use. The rejected analyte results do not impact achievement of the overall project objectives. The RLs reported generally met the expected limits proposed by the analytical laboratory in their subcontract agreement with CDM Smith. Some RLs were adjusted for herbicides, pesticides, and PCB/PCT results. These adjusted RLs and other RLs above project goals will be evaluated to see if resampling would be required.

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

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

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**Table C-1 Sample Delivery Groups and Validation Levels for the NBZ**

| Sample Delivery Group | Level of Validation Performed | CDM Smith Review |
|---|---|---|
| | | |
| DE296 | Level III | |
| DE297 | Level III | |
| DE298 | Level III | |
| DE299 | Level III | Yes |
| DE300 | Level III | |
| DE301 | Level IV | |
| DE302 | Level III | |
| DE303 | Level III | |
| DE304 | Level III | |
| DE305 | Level IV | Yes |
| DE306 | Level IV | |
| DE307 | Level IV | |
| DE308 | Level III | |
| DE309 | Level III | |
| DE310 | Level III | |
| DE311 | Level III | |
| DE312 | Level IV | Yes |
| DE313 | Level IV | |
| DX159 | Level III | |
| DX160 | Level III | |
| DX161 | Level III | |
| DE162 | Level IV | |
| DX163 | Level IV | |
| DX164 | Level III | Yes |
| DX165 | Level IV | |
| DX166 | Level IV | |
| DX167 | Level IV | |
| DX168 | Level III | |
| DX169 | Level III | |
| DX170 | Level IV | |
| DX171 | Level IV | |
| 12C096 | Level III | |
| 12C106 | Level III | |
| 12C121 | Level III | |
| 12C135 | Level III | Yes |
| 12C156 | Level III | |
| 12C164 | Level III | |
| 12C182 | Level III | |
| 12C209 | Level III | |
| 12C229 | Level III | |
| 12C254 | Level IV | |
| 12C261 | Level III | |
| 12C273 | Level IV | |
| 12C285 | Level III | |
| 12C305 | Level IV | Yes |
| 12C321 | Level IV | |
| 12D004 | Level IV | |
| 12D018 | Level IV | |
| 12D031 | Level IV | |
| 12D048 | Level III | |
| 12D084 | Level III | |
| 12D092 | Level III | |

**Table C-1 Sample Delivery Groups and Validation Levels for the NBZ**

| Sample Delivery Group | Level of Validation Performed | CDM Smith Review |
|---|---|---|
| 12D106 | Level III | |
| 12D122 | Level III | |
| 12D135 | Level III | |
| 12D146 | Level III | |
| 12D154 | Level III | Yes |
| 12D166 | Level IV | |
| 12D176 | Level IV | |
| 12D192 | Level III | |
| 12D197 | Level III | |

**Note:** Some SDGs contain samples from other subareas, but all samples in an SDG were validated together.

Table C-2 - NBZ Equipment Rinsate Samples

| | | Sample Name: | EB-NBZ-SB-031512 | | EB-NBZ-SB-032212 | | EB-NBZ-SB-032712 | | EB-NBZ-SB-032912 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Location: | EB-NBZ | | EB-NBZ | | EB-NBZ | | EB-NBZ | |
| | | Sample Date: | 03/15/2012 | | 03/22/2012 | | 03/27/2012 | | 03/29/2012 | |
| | | Sample Type | EB | | EB | | EB | | EB | |
| Analyte | Analytic Method | Units | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer |
| 1,1,1,2-TETRACHLOROETHANE | 8260B | ug/l | | | | | | | 1.0 | U |
| 1,1,1-TRICHLOROETHANE | 8260B | ug/l | | | | | | | 1.0 | U |
| 1,1,2,2-TETRACHLOROETHANE | 8260B | ug/l | | | | | | | 1.0 | U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 8260B | ug/l | | | | | | | 1.0 | U |
| 1,1,2-TRICHLOROETHANE | 8260B | ug/l | | | | | | | 1.0 | U |
| 1,1-DICHLOROETHANE | 8260B | ug/l | | | | | | | 1.0 | U |
| 1,1-DICHLOROETHENE | 8260B | ug/l | | | | | | | 1.0 | U |
| 1,1-Dichloropropene | 8260B | ug/l | | | | | | | 1.0 | U |
| 1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 9.91 | U | 9.44 | U | 10.5 | U | 10.5 | U |
| 1,2,3,4,6,7,8-HPCDF | 1613B | pg/l | 9.91 | U | 9.44 | U | 10.5 | U | 10.5 | U |
| 1,2,3,4,7,8,9-HPCDF | 1613B | pg/l | 9.91 | U | 9.44 | U | 10.5 | U | 10.5 | U |
| 1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 9.91 | U | 9.44 | U | 10.5 | U | 10.5 | U |
| 1,2,3,4,7,8-HXCDF | 1613B | pg/l | 9.91 | U | 9.44 | U | 10.5 | U | 10.5 | U |
| 1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 9.91 | U | 9.44 | U | 10.5 | U | 10.5 | U |
| 1,2,3,6,7,8-HXCDF | 1613B | pg/l | 9.91 | U | 9.44 | U | 10.5 | U | 10.5 | U |
| 1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 9.91 | U | 9.44 | U | 10.5 | U | 10.5 | U |
| 1,2,3,7,8,9-HXCDF | 1613B | pg/l | 9.91 | U | 9.44 | U | 10.5 | U | 10.5 | U |
| 1,2,3,7,8-PENTACHLORODIBENZOFURAN | 1613B | pg/l | 9.91 | U | 9.44 | U | 10.5 | U | 10.5 | U |
| 1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 9.91 | U | 0.423 | J | 0.302 | J | 0.900 | J |
| 1,2,3-TRICHLOROBENZENE | 8260B | ug/l | | | | | | | 1.0 | U |
| 1,2,3-Trichloropropane | 8260B | ug/l | | | | | | | 2.0 | U |
| 1,2,4-TRICHLOROBENZENE | 8260B | ug/l | | | | | | | 1.0 | U |
| 1,2,4-TRICHLOROBENZENE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 1,2,4-TRIMETHYLBENZENE | 8260B | ug/l | | | | | | | 1.0 | U |
| 1,2-Dibromo-3-Chloropropane | 8260B | ug/l | | | | | | | 2.0 | U |
| 1,2-DIBROMOETHANE | 8260B | ug/l | | | | | | | 1.0 | U |
| 1,2-DICHLOROBENZENE | 8260B | ug/l | | | | | | | 1.0 | U |
| 1,2-DICHLOROBENZENE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 1,2-DICHLOROETHANE | 8260B | ug/l | | | | | | | 1.0 | U |
| 1,2-DICHLOROPROPANE | 8260B | ug/l | | | | | | | 1.0 | U |
| 1,2-DIPHENYLHYDRAZINE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 1,3,5-Trimethylbenzene | 8260B | ug/l | | | | | | | 1.0 | U |
| 1,3,5-TRINITROBENZENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,3-DICHLOROBENZENE | 8260B | ug/l | | | | | | | 1.0 | U |
| 1,3-DICHLOROBENZENE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 1,3-DICHLOROPROPANE | 8260B | ug/l | | | | | | | 1.0 | U |
| 1,4-DICHLOROBENZENE | 8260B | ug/l | | | | | | | 1.0 | U |
| 1,4-DICHLOROBENZENE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 1,4-DIOXANE | 8260B SIM | ug/l | | | | | | | 4.0 | U |
| 2,2-DICHLOR0PROPIONIC ACID | 8151A | ug/l | | | | | | | | |
| 2,2-DICHLOROPROPANE | 8260B | ug/l | | | | | | | 1.0 | U |
| 2,3,4,6,7,8-HXCDF | 1613B | pg/l | 9.91 | U | 9.44 | U | 10.5 | U | 10.5 | U |
| 2,3,4,7,8-PECDF | 1613B | pg/l | 9.91 | U | 9.44 | U | 10.5 | U | 10.5 | U |
| 2,3,7,8-TCDD | 1613B | pg/l | 1.98 | U | 1.89 | U | 2.11 | U | 2.11 | U |
| 2,3,7,8-TETRACHLORODIBENZOFURAN | 1613B | pg/l | 1.98 | U | 0.209 | J | 2.11 | U | 2.11 | U |
| 2,4,5-T | 8151A | ug/l | | | | | | | | |
| 2,4,5-TP (Silvex) | 8151A | ug/l | | | | | | | | |
| 2,4,5-TRICHLOROPHENOL | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 2,4,6-TRICHLOROPHENOL | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 2,4,6-TRINITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 2,4-D | 8151A | ug/l | | | | | | | | |
| 2,4-DB | 8151A | ug/l | | | | | | | | |
| 2,4-DIAMINO-6-NITROTOLUENE | 8330A | ug/l | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| 2,4-DICHLOROPHENOL | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 2,4-DIMETHYLPHENOL | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 2,4-DINITROPHENOL | 8270C | ug/l | 19 | U | 22 | U | 21 | U | 22 | U |
| 2,4-DINITROTOLUENE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 2,4-DINITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 2,6-Diamino-4-nitrotoluene | 8330A | ug/l | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| 2,6-DINITROTOLUENE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 2,6-DINITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 2-AMINO-4,6-DINITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 2-Butanone (MEK) | 8260B | ug/l | | | | | | | 10 | U |
| 2-butoxy-Ethanol | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 2-Chloro-1,1,1-trifluoroethane | 8260B | ug/l | | | | | | | 1.0 | U |
| 2-CHLOROETHYL VINYL ETHER | 8260B | ug/l | | | | | | | 2.0 | U |
| 2-CHLORONAPHTHALENE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 2-CHLOROPHENOL | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 2-CHLOROTOLUENE | 8260B | ug/l | | | | | | | 1.0 | U |
| 2-Hexanone | 8260B | ug/l | | | | | | | 10 | U |
| 2-METHYLPHENOL | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 2-NITROANILINE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 2-NITROPHENOL | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 2-NITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 2-phenoxy-Ethanol | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 2-PHENYLBUTANE | 8260B | ug/l | | | | | | | 1.0 | U |
| 3,3'-DICHLOROBENZIDINE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 3,5-Dimethylphenol | 8270C | ug/l | 19 | U | 22 | U | 21 | U | 22 | U |
| 3-NITROANILINE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 3-NITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 4,4'-DDD | 8081A | ug/l | | | | | | | | |
| 4,4'-DDE | 8081A | ug/l | | | | | | | | |
| 4,4'-DDT | 8081A | ug/l | | | | | | | | |
| 4,6-DINITRO-2-METHYLPHENOL | 8270C | ug/l | 19 | U | 22 | U | 21 | U | 22 | U |
| 4-AMINO-2,6-DINITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 4-BROMOPHENYL PHENYL ETHER | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 4-CHLORO-3-METHYLPHENOL | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 4-CHLOROPHENYL PHENYL ETHER | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 4-CHLOROTOLUENE | 8260B | ug/l | | | | | | | 1.0 | U |
| 4-Methyl-2-Pentanone (MIBK) | 8260B | ug/l | | | | | | | 10 | U |
| 4-METHYLPHENOL | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| 4-NITROPHENOL | 8270C | ug/l | 19 | U | 22 | U | 21 | U | 22 | U |
| 4-NITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| ACETONE | 8260B | ug/l | | | | | | | 10 | U |
| ALDRIN | 8081A | ug/l | | | | | | | | |
| ALPHA-BHC | 8081A | ug/l | | | | | | | | |
| ALUMINUM (FUME OR DUST) | 6020 | mg/l | 0.0225 | J | 0.0458 | J | 0.0368 | J | 0.100 | U |
| ANILINE | 8270C | ug/l | 19 | U | 22 | U | 21 | U | 22 | U |
| ANTIMONY | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| Aroclor 1016 | 8082 | ug/l | 3 | UY | 2.5 | UY | 2.75 | UY | 2.75 | UY |
| Aroclor 1221 | 8082 | ug/l | 3 | UY | 2.5 | UY | 2.75 | UY | 2.75 | UY |
| Aroclor 1232 | 8082 | ug/l | 3 | UY | 2.5 | UY | 2.75 | UY | 2.75 | UY |
| Aroclor 1242 | 8082 | ug/l | 3 | UY | 2.5 | UY | 2.75 | UY | 2.75 | UY |
| Aroclor 1248 | 8082 | ug/l | 3 | UY | 2.5 | UY | 2.75 | UY | 2.75 | UY |
| Aroclor 1254 | 8082 | ug/l | 3 | UY | 2.5 | UY | 2.75 | UY | 2.75 | UY |
| Aroclor 1260 | 8082 | ug/l | 3 | UY | 2.5 | UY | 2.75 | UY | 2.75 | UY |
| Aroclor 1262 | 8082 | ug/l | 3 | UY | 2.5 | UY | 2.75 | UY | 2.75 | UY |
| Aroclor 1268 | 8082 | ug/l | 3 | UY | 2.5 | UY | 2.75 | UY | 2.75 | UY |
| Aroclor 5432 | 8082 | ug/l | 6 | UY | 5 | UY | 5.5 | UY | 5.75 | UY |
| Aroclor 5442 | 8082 | ug/l | 6 | UY | 5 | UY | 5.5 | UY | 5.75 | UY |
| Aroclor 5460 | 8082 | ug/l | 6 | UY | 5 | UY | 5.5 | UY | 5.75 | UY |
| ARSENIC | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| BARIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| BENZENE | 8260B | ug/l | | | | | | | 1.0 | U |
| BENZIDINE | 8270C | ug/l | 48 | U | 56 | U | 52 | U | 54 | R |
| BENZOIC ACID | 8270C | ug/l | 38 | U | 45 | U | 41 | U | 43 | UJ |
| BENZYL ALCOHOL | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| BERYLLIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| BETA-BHC | 8081A | ug/l | | | | | | | | |
| BIS(2-CHLOROETHOXY)METHANE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| BIS(2-CHLOROETHYL) ETHER | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| BIS(2-CHLOROISOPROPYL) ETHER | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| BORON | 6020 | mg/l | 0.0100 | U | 0.0100 | U | 0.0100 | U | 0.0100 | U |
| BROMOBENZENE | 8260B | ug/l | | | | | | | 1.0 | U |
| Bromochloromethane | 8260B | ug/l | | | | | | | 1.0 | U |
| BROMODICHLOROMETHANE | 8260B | ug/l | | | | | | | 1.0 | U |
| BROMOFORM | 8260B | ug/l | | | | | | | 1.0 | U |
| BROMOMETHANE | 8260B | ug/l | | | | | | | 1.0 | U |
| CADMIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| CALCIUM METAL | 6020 | mg/l | 0.100 | U | 0.0365 | J | 0.100 | U | 0.100 | U |
| CARBAZOLE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| CARBON TETRACHLORIDE | 8260B | ug/l | | | | | | | 1.0 | U |

Table C-2 - NBZ Equipment Rinsate Samples

| | | Sample Name: | EB-NBZ-SB-031512 | | EB-NBZ-SB-032212 | | EB-NBZ-SB-032712 | | EB-NBZ-SB-032912 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Location: | EB-NBZ | | EB-NBZ | | EB-NBZ | | EB-NBZ | |
| | | Sample Date: | 03/15/2012 | | 03/22/2012 | | 03/27/2012 | | 03/29/2012 | |
| | | Sample Type | EB | | EB | | EB | | EB | |
| Analyte | Analytic Method | Units | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer |
| Chlordane (technical) | 8081A | ug/l | | | | | | | | |
| CHLOROBENZENE | 8260B | ug/l | | | | | | | 1.0 | U |
| CHLOROETHANE | 8260B | ug/l | | | | | | | 1.0 | U |
| CHLOROFORM | 8260B | ug/l | | | | | | | 1.0 | U |
| CHLOROMETHANE | 8260B | ug/l | | | | | | | 1.0 | U |
| Chlorotrifluoroethylene | 8260B | ug/l | | | | | | | 1.0 | U |
| CHROMIUM | 6020 | mg/l | 0.00100 | U | 0.000820 | J | 0.00100 | U | 0.00100 | U |
| CHROMIUM (HEXAVALENT COMPOUNDS) | 7199 | ug/l | 0.200 | U | 0.200 | U | 0.200 | U | 0.200 | U |
| CIS-1,2-DICHLOROETHENE | 8260B | ug/l | | | | | | | 1.0 | U |
| CIS-1,3-DICHLOROPROPENE | 8260B | ug/l | | | | | | | 1.0 | U |
| COBALT | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| COPPER | 6020 | mg/l | 0.000785 | J | 0.00155 | | 0.00137 | | 0.00100 | U |
| CYANIDE | 9014 | mg/l | 0.0100 | U | 0.0100 | U | 0.0100 | U | 0.0100 | U |
| CYMENE | 8260B | ug/l | | | | | | | 1.0 | U |
| DELTA-BHC | 8081A | ug/l | | | | | | | | |
| DIBENZOFURAN | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| DIBROMOCHLOROMETHANE | 8260B | ug/l | | | | | | | 1.0 | U |
| DIBROMOMETHANE | 8260B | ug/l | | | | | | | 1.0 | U |
| DICAMBA | 8151A | ug/l | | | | | | | | |
| DICHLORODIFLUOROMETHANE | 8260B | ug/l | | | | | | | 1.0 | U |
| DICHLORPROP | 8151A | ug/l | | | | | | | | |
| DIELDRIN | 8081A | ug/l | | | | | | | | |
| DIETHYLENE GLYCOL | 8015M | mg/l | 10 | U | 10 | U | 10 | U | 10 | U |
| DINITROBUTYL PHENOL | 8151A | ug/l | | | | | | | | |
| EFH (C12-C14) | 8015B EFH | mg/l | 0.50 | U | 0.52 | U | 0.52 | U | 0.55 | U |
| EFH (C15-C20) | 8015B EFH | mg/l | 0.50 | U | 0.52 | U | 0.52 | U | 0.55 | U |
| EFH (C21-C30) | 8015B EFH | mg/l | 0.50 | U | 0.52 | U | 0.52 | U | 0.55 | U |
| EFH (C30-C40) | 8015B EFH | mg/l | 0.50 | U | 0.52 | U | 0.52 | U | 0.55 | U |
| EFH (C8-C11) | 8015B EFH | mg/l | 0.50 | U | 0.52 | U | 0.52 | U | 0.55 | U |
| ENDOSULFAN I | 8081A | ug/l | | | | | | | | |
| ENDOSULFAN II | 8081A | ug/l | | | | | | | | |
| ENDOSULFAN SULFATE | 8081A | ug/l | | | | | | | | |
| ENDRIN | 8081A | ug/l | | | | | | | | |
| ENDRIN ALDEHYDE | 8081A | ug/l | | | | | | | | |
| ENDRIN KETONE | 8081A | ug/l | | | | | | | | |
| ETHANOL | 8015B | ug/l | 1000 | U | 1000 | U | 1000 | U | 1000 | U |
| ETHYLBENZENE | 8260B | ug/l | | | | | | | 1.0 | U |
| ETHYLENE GLYCOL | 8015M | mg/l | 10 | U | 10 | U | 10 | U | 10 | U |
| FLUORIDE | 300.0 | mg/l | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 | U |
| FORMALDEHYDE | 8315A | ug/l | 50 | U | 50 | U | 50 | U | 50 | U |
| gamma-BHC (Lindane) | 8081A | ug/l | | | | | | | | |
| GASOLINE RANGE ORGANICS (C5-C12) | 8015B GRO | ug/l | 50 | U | 50 | U | | | 50 | U |
| HEPTACHLOR | 8081A | ug/l | | | | | | | | |
| HEPTACHLOR EPOXIDE | 8081A | ug/l | | | | | | | | |
| HEXACHLORO-1,3-BUTADIENE | 8260B | ug/l | | | | | | | 1.0 | U |
| HEXACHLORO-1,3-BUTADIENE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| HEXACHLOROBENZENE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| HEXACHLOROCYCLOPENTADIENE | 8270C | ug/l | 19 | U | 22 | U | 21 | U | 22 | U |
| HEXACHLOROETHANE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| IRON | 6020 | mg/l | 0.100 | U | 0.0177 | J | 0.100 | U | 0.100 | U |
| ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID | 8015B | ug/l | 1000 | U | 1000 | U | 1000 | U | 1000 | U |
| Isopropylbenzene | 8260B | ug/l | | | | | | | 1.0 | U |
| LEAD | 6020 | mg/l | 0.00100 | U | 0.000121 | J | 0.00100 | U | 0.00100 | U |
| LITHIUM | 6020 | mg/l | 0.00200 | U | 0.00200 | U | 0.00200 | U | 0.00200 | U |
| M,P-XYLENE | 8260B | ug/l | | | | | | | 2.0 | U |
| MAGNESIUM | 6020 | mg/l | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 | U |
| MANGANESE | 6020 | mg/l | 0.00100 | U | 0.000213 | J | 0.00100 | U | 0.00100 | U |
| MCPA (2-METHYL-4-CHLOROPHENOXYACETIC ACID) | 8151A | ug/l | | | | | | | | |
| MCPP | 8151A | ug/l | | | | | | | | |
| M-DINITROBENZENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| MERCURY | 7470A | mg/l | 0.000500 | U | 0.000500 | U | 0.000500 | U | 0.000500 | U |
| METHANAMINE, N-METHYL-N-NITROSO | 1625C | ng/l | 1.04 | U | 0.999 | U | 1.05 | U | 0.960 | U |
| METHANOL | 8015B | ug/l | 1000 | U | 1000 | U | 1000 | U | 1000 | U |
| Methoxychlor | 8081A | ug/l | | | | | | | | |
| METHYL TERT-BUTYL ETHER | 8260B | ug/l | | | | | | | 1.0 | U |
| METHYLENE CHLORIDE | 8260B | ug/l | | | | | | | 1.0 | U |
| MIREX | 8081A | ug/l | | | | | | | | |
| MOLYBDENUM | 6020 | mg/l | 0.00200 | U | 0.00200 | U | 0.00200 | U | 0.00200 | U |
| m-Terphenyl | 8015B | mg/l | 0.24 | U | 0.24 | U | 0.53 | U | 0.48 | U |
| N-BUTYLBENZENE | 8260B | ug/l | | | | | | | 1.0 | U |
| NICKEL | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| Nitrate-NO3 | 300.0 | mg/l | 0.443 | U | 0.443 | U | 0.443 | U | 0.275 | J |
| Nitrite-NO2 | 300.0 | mg/l | 0.329 | U | | | | | | |
| NITROBENZENE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| NITROBENZENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| NITROGLYCERIN | 8332 | ug/l | 250 | U | 250 | U | 250 | U | 250 | U |
| N-NITROSO-DI-N-PROPYLAMINE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| N-NITROSODIPHENYLAMINE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| N-PROPYLBENZENE | 8260B | ug/l | | | | | | | 1.0 | U |
| OCDD | 1613B | pg/l | 19.8 | U | 18.9 | U | 21.1 | U | 21.1 | U |
| OCDF | 1613B | pg/l | 19.8 | U | 18.9 | U | 21.1 | U | 21.1 | U |
| OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE | 8330A | ug/l | 0.37 | J | 1.0 | U | 0.25 | J | 1.0 | U |
| O-TERPHENYL | 8015B | mg/l | 0.24 | U | 0.24 | U | 0.53 | U | 0.48 | U |
| O-XYLENE | 8260B | ug/l | | | | | | | 1.0 | U |
| P-CHLOROANILINE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| PENTACHLOROPHENOL | 8270C | ug/l | 19 | U | 22 | U | 21 | U | 22 | U |
| PENTAERYTHRITOL TETRANITRATE | 8332 | ug/l | 250 | U | 250 | U | 250 | U | 250 | U |
| PERCHLORATE | 314.0 | ug/l | 2.00 | U | 2.00 | U | 2.00 | U | 2.00 | U |
| PH | 9040C | pH unit | 5.67 | | 5.68 | | 5.67 | | 5.00 | |
| PHENOL | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| PHOSPHORUS | 6020 | mg/l | 0.0500 | U | 0.0500 | U | 0.0500 | U | 0.0500 | U |
| P-NITROANILINE | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| POTASSIUM | 6020 | mg/l | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 | U |
| Propylene glycol | 8015M | mg/l | 10 | U | 10 | U | 10 | U | 10 | U |
| p-Terphenyl | 8015B | mg/l | 0.24 | U | 0.24 | U | 0.53 | U | 0.48 | U |
| RDX | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| SELENIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| SILVER | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| SODIUM | 6020 | mg/l | 0.100 | U | 0.0505 | J | 0.200 | | 0.100 | U |
| STRONTIUM | 6020 | mg/l | 0.00200 | U | 0.00200 | U | 0.00200 | U | 0.00200 | U |
| STYRENE | 8260B | ug/l | | | | | | | 1.0 | U |
| TERT-BUTYLBENZENE | 8260B | ug/l | | | | | | | 1.0 | U |
| TETRACHLOROETHENE | 8260B | ug/l | | | | | | | 1.0 | U |
| TETRALIN | 8270C | ug/l | 9.6 | U | 11 | U | 10 | U | 11 | U |
| TETRYL | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| THALLIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| TIN | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| TITANIUM METAL POWDER | 6020 | mg/l | 0.00200 | U | 0.00200 | U | 0.00200 | U | 0.00200 | U |
| TOLUENE | 8260B | ug/l | | | | | | | 1.0 | U |
| TOTAL EFH(C8-C40) | 8015B EFH | mg/l | 0.50 | U | 0.52 | U | 0.52 | U | 0.55 | U |
| Toxaphene | 8081A | ug/l | | | | | | | | |
| TRANS-1,2-DICHLOROETHENE | 8260B | ug/l | | | | | | | 1.0 | U |
| TRANS-1,3-DICHLOROPROPENE | 8260B | ug/l | | | | | | | 1.0 | U |
| TRICHLOROETHENE | 8260B | ug/l | | | | | | | 1.0 | U |
| TRICHLOROFLUOROMETHANE | 8260B | ug/l | | | | | | | 1.0 | U |
| VANADIUM (FUME OR DUST) | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| VINYL CHLORIDE | 8260B | ug/l | | | | | | | 1.0 | U |
| ZINC | 6020 | mg/l | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 | U |
| ZIRCONIUM | 6020 | mg/l | 0.00500 | U | 0.00500 | U | 0.00500 | U | 0.00500 | U |

ug/L - microgram per liter
mg/L - milligram per liter
ng/L - nanogram per liter
pg/L - picogram per liter
U - Compound not detected above the reporting limit
(a) Some SVOC results had two values - one for SVOC and one for SVOC SIM. The validators used the value with the lowest detection limit for validation purposes.

Table C-2 - NBZ Equipment Rinsate Samples

| | | Sample Name: | EB-NBZ-SB-040412 | | EB-NBZ-SB-041712 | | EB-NBZ-SS-031512 | |
|---|---|---|---|---|---|---|---|---|
| | | Location: | EB-NBZ | | EB-NBZ | | EB-NBZ | |
| | | Sample Date: | 04/04/2012 | | 04/17/2012 | | 03/15/2012 | |
| | | Sample Type | EB | | EB | | EB | |
| Analyte | Analytic Method | Units | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer |
| 1,1,1,2-TETRACHLOROETHANE | 8260B | ug/l | | | | | | |
| 1,1,1-TRICHLOROETHANE | 8260B | ug/l | | | | | | |
| 1,1,2,2-TETRACHLOROETHANE | 8260B | ug/l | | | | | | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 8260B | ug/l | | | | | | |
| 1,1,2-TRICHLOROETHANE | 8260B | ug/l | | | | | | |
| 1,1-DICHLOROETHANE | 8260B | ug/l | | | | | | |
| 1,1-DICHLOROETHENE | 8260B | ug/l | | | | | | |
| 1,1-Dichloropropene | 8260B | ug/l | | | | | | |
| 1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 9.43 | UJ | 10.5 | U | 9.85 | U |
| 1,2,3,4,6,7,8-HPCDF | 1613B | pg/l | 9.43 | UJ | 10.5 | U | 9.85 | U |
| 1,2,3,4,7,8,9-HPCDF | 1613B | pg/l | 9.43 | UJ | 10.5 | U | 9.85 | U |
| 1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 9.43 | UJ | 10.5 | U | 9.85 | U |
| 1,2,3,4,7,8-HXCDF | 1613B | pg/l | 9.43 | UJ | 10.5 | U | 9.85 | U |
| 1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 9.43 | UJ | 10.5 | U | 9.85 | U |
| 1,2,3,6,7,8-HXCDF | 1613B | pg/l | 9.43 | UJ | 10.5 | U | 9.85 | U |
| 1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 9.43 | UJ | 10.5 | U | 9.85 | U |
| 1,2,3,7,8,9-HXCDF | 1613B | pg/l | 9.43 | UJ | 10.5 | U | 9.85 | U |
| 1,2,3,7,8-PENTACHLORODIBENZOFURAN | 1613B | pg/l | 9.43 | UJ | 10.5 | U | 9.85 | U |
| 1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 9.43 | UJ | 10.5 | U | 9.85 | U |
| 1,2,3-TRICHLOROBENZENE | 8260B | ug/l | | | | | | |
| 1,2,3-Trichloropropane | 8260B | ug/l | | | | | | |
| 1,2,4-TRICHLOROBENZENE | 8260B | ug/l | | | | | | |
| 1,2,4-TRICHLOROBENZENE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 1,2,4-TRIMETHYLBENZENE | 8260B | ug/l | | | | | | |
| 1,2-Dibromo-3-Chloropropane | 8260B | ug/l | | | | | | |
| 1,2-DIBROMOETHANE | 8260B | ug/l | | | | | | |
| 1,2-DICHLOROBENZENE | 8260B | ug/l | | | | | | |
| 1,2-DICHLOROBENZENE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 1,2-DICHLOROETHANE | 8260B | ug/l | | | | | | |
| 1,2-DICHLOROPROPANE | 8260B | ug/l | | | | | | |
| 1,2-DIPHENYLHYDRAZINE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 1,3,5-Trimethylbenzene | 8260B | ug/l | | | | | | |
| 1,3,5-TRINITROBENZENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,3-DICHLOROBENZENE | 8260B | ug/l | | | | | | |
| 1,3-DICHLOROBENZENE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 1,3-DICHLOROPROPANE | 8260B | ug/l | | | | | | |
| 1,4-DICHLOROBENZENE | 8260B | ug/l | | | | | | |
| 1,4-DICHLOROBENZENE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 1,4-DIOXANE | 8260B SIM | ug/l | | | | | | |
| 2,2-DICHLOR0PROPIONIC ACID | 8151A | ug/l | | | | | 1.6 | UY |
| 2,2-DICHLOROPROPANE | 8260B | ug/l | | | | | | |
| 2,3,4,6,7,8-HXCDF | 1613B | pg/l | 9.43 | UJ | 10.5 | U | 9.85 | U |
| 2,3,4,7,8-PECDF | 1613B | pg/l | 9.43 | U | 10.5 | U | 9.85 | U |
| 2,3,7,8-TCDD | 1613B | pg/l | 1.89 | UJ | 2.10 | U | 0.289 | J |
| 2,3,7,8-TETRACHLORODIBENZOFURAN | 1613B | pg/l | 1.89 | U | 2.10 | U | 1.97 | U |
| 2,4,5-T | 8151A | ug/l | | | | | 1.6 | UY |
| 2,4,5-TP (Silvex) | 8151A | ug/l | | | | | 1.6 | UY |
| 2,4,5-TRICHLOROPHENOL | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 2,4,6-TRICHLOROPHENOL | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 2,4,6-TRINITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 2,4-D | 8151A | ug/l | | | | | 1.6 | UY |
| 2,4-DB | 8151A | ug/l | | | | | 1.6 | UY |
| 2,4-DIAMINO-6-NITROTOLUENE | 8330A | ug/l | 2.0 | U | 2.0 | U | 2.0 | U |
| 2,4-DICHLOROPHENOL | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 2,4-DIMETHYLPHENOL | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 2,4-DINITROPHENOL | 8270C | ug/l | 21 | U | 21 | U | 22 | U |
| 2,4-DINITROTOLUENE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 2,4-DINITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 2,6-Diamino-4-nitrotoluene | 8330A | ug/l | 2.0 | U | 2.0 | U | 2.0 | U |
| 2,6-DINITROTOLUENE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 2,6-DINITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 2-AMINO-4,6-DINITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 2-Butanone (MEK) | 8260B | ug/l | | | | | | |
| 2-butoxy-Ethanol | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 2-Chloro-1,1,1-trifluoroethane | 8260B | ug/l | | | | | | |
| 2-CHLOROETHYL VINYL ETHER | 8260B | ug/l | | | | | | |
| 2-CHLORONAPHTHALENE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 2-CHLOROPHENOL | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 2-CHLOROTOLUENE | 8260B | ug/l | | | | | | |
| 2-Hexanone | 8260B | ug/l | | | | | | |
| 2-METHYLPHENOL | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 2-NITROANILINE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 2-NITROPHENOL | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 2-NITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 2-phenoxy-Ethanol | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 2-PHENYLBUTANE | 8260B | ug/l | | | | | | |
| 3,3'-DICHLOROBENZIDINE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 3,5-Dimethylphenol | 8270C | ug/l | 21 | U | 21 | U | 22 | U |
| 3-NITROANILINE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 3-NITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 4,4'-DDD | 8081A | ug/l | | | | | 0.2375 | UY |
| 4,4'-DDE | 8081A | ug/l | | | | | 0.2375 | UY |
| 4,4'-DDT | 8081A | ug/l | | | | | 0.2375 | UY |
| 4,6-DINITRO-2-METHYLPHENOL | 8270C | ug/l | 21 | U | 21 | U | 22 | U |
| 4-AMINO-2,6-DINITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 4-BROMOPHENYL PHENYL ETHER | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 4-CHLORO-3-METHYLPHENOL | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 4-CHLOROPHENYL PHENYL ETHER | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 4-CHLOROTOLUENE | 8260B | ug/l | | | | | | |
| 4-Methyl-2-Pentanone (MIBK) | 8260B | ug/l | | | | | | |
| 4-METHYLPHENOL | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| 4-NITROPHENOL | 8270C | ug/l | 21 | U | 21 | U | 22 | U |
| 4-NITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| ACETONE | 8260B | ug/l | | | | | | |
| ALDRIN | 8081A | ug/l | | | | | 0.2375 | UY |
| ALPHA-BHC | 8081A | ug/l | | | | | 0.2375 | UY |
| ALUMINUM (FUME OR DUST) | 6020 | mg/l | 0.100 | U | 0.0217 | J | 0.0277 | J |
| ANILINE | 8270C | ug/l | 21 | U | 21 | U | 22 | U |
| ANTIMONY | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| Aroclor 1016 | 8082 | ug/l | 2.5 | UY | 2.5 | UY | 2.375 | UY |
| Aroclor 1221 | 8082 | ug/l | 2.5 | UY | 2.5 | UY | 2.375 | UY |
| Aroclor 1232 | 8082 | ug/l | 2.5 | UY | 2.5 | UY | 2.375 | UY |
| Aroclor 1242 | 8082 | ug/l | 2.5 | UY | 2.5 | UY | 2.375 | UY |
| Aroclor 1248 | 8082 | ug/l | 2.5 | UY | 2.5 | UY | 2.375 | UY |
| Aroclor 1254 | 8082 | ug/l | 2.5 | UY | 2.5 | UY | 2.375 | UY |
| Aroclor 1260 | 8082 | ug/l | 2.5 | UY | 2.5 | UY | 2.375 | UY |
| Aroclor 1262 | 8082 | ug/l | 2.5 | UY | 2.5 | UY | 2.375 | UY |
| Aroclor 1268 | 8082 | ug/l | 2.5 | UY | 2.5 | UY | 2.375 | UY |
| Aroclor 5432 | 8082 | ug/l | 5.25 | UY | 5.25 | UY | 4.75 | UY |
| Aroclor 5442 | 8082 | ug/l | 5.25 | UY | 5.25 | UY | 4.75 | UY |
| Aroclor 5460 | 8082 | ug/l | 5.25 | UY | 5.25 | UY | 4.75 | UY |
| ARSENIC | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| BARIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| BENZENE | 8260B | ug/l | | | | | | |
| BENZIDINE | 8270C | ug/l | 52 | U | 52 | R | 56 | U |
| BENZOIC ACID | 8270C | ug/l | 42 | U | 41 | U | 44 | U |
| BENZYL ALCOHOL | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| BERYLLIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| BETA-BHC | 8081A | ug/l | | | | | 0.2375 | UY |
| BIS(2-CHLOROETHOXY)METHANE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| BIS(2-CHLOROETHYL) ETHER | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| BIS(2-CHLOROISOPROPYL) ETHER | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| BORON | 6020 | mg/l | 0.0100 | U | 0.0100 | U | 0.0100 | U |
| BROMOBENZENE | 8260B | ug/l | | | | | | |
| Bromochloromethane | 8260B | ug/l | | | | | | |
| BROMODICHLOROMETHANE | 8260B | ug/l | | | | | | |
| BROMOFORM | 8260B | ug/l | | | | | | |
| BROMOMETHANE | 8260B | ug/l | | | | | | |
| CADMIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| CALCIUM METAL | 6020 | mg/l | 0.0253 | J | 0.100 | U | 0.100 | U |
| CARBAZOLE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| CARBON TETRACHLORIDE | 8260B | ug/l | | | | | | |

Table C-2 - NBZ Equipment Rinsate Samples

| | | Sample Name: | EB-NBZ-SB-040412 | | EB-NBZ-SB-041712 | | EB-NBZ-SS-031512 | |
|---|---|---|---|---|---|---|---|---|
| | | Location: | EB-NBZ | | EB-NBZ | | EB-NBZ | |
| | | Sample Date: | 04/04/2012 | | 04/17/2012 | | 03/15/2012 | |
| | | Sample Type | EB | | EB | | EB | |
| Analyte | Analytic Method | Units | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer |
| Chlordane (technical) | 8081A | ug/l | | | | | 2.375 | UY |
| CHLOROBENZENE | 8260B | ug/l | | | | | | |
| CHLOROETHANE | 8260B | ug/l | | | | | | |
| CHLOROFORM | 8260B | ug/l | | | | | | |
| CHLOROMETHANE | 8260B | ug/l | | | | | | |
| Chlorotrifluoroethylene | 8260B | ug/l | | | | | | |
| CHROMIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| CHROMIUM (HEXAVALENT COMPOUNDS) | 7199 | ug/l | 0.200 | U | 0.200 | U | 0.200 | U |
| CIS-1,2-DICHLOROETHENE | 8260B | ug/l | | | | | | |
| CIS-1,3-DICHLOROPROPENE | 8260B | ug/l | | | | | | |
| COBALT | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| COPPER | 6020 | mg/l | 0.00100 | U | 0.000894 | J | 0.00115 | |
| CYANIDE | 9014 | mg/l | 0.0100 | U | 0.0100 | U | 0.0100 | U |
| CYMENE | 8260B | ug/l | | | | | | |
| DELTA-BHC | 8081A | ug/l | | | | | 0.2375 | UY |
| DIBENZOFURAN | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| DIBROMOCHLOROMETHANE | 8260B | ug/l | | | | | | |
| DIBROMOMETHANE | 8260B | ug/l | | | | | | |
| DICAMBA | 8151A | ug/l | | | | | 1.6 | UY |
| DICHLORODIFLUOROMETHANE | 8260B | ug/l | | | | | | |
| DICHLORPROP | 8151A | ug/l | | | | | 1.6 | UY |
| DIELDRIN | 8081A | ug/l | | | | | 0.2375 | UY |
| DIETHYLENE GLYCOL | 8015M | mg/l | 10 | U | 10 | U | 10 | U |
| DINITROBUTYL PHENOL | 8151A | ug/l | | | | | 1.6 | UY |
| EFH (C12-C14) | 8015B EFH | mg/l | 0.48 | U | 0.52 | U | 0.50 | U |
| EFH (C15-C20) | 8015B EFH | mg/l | 0.48 | U | 0.52 | U | 0.50 | U |
| EFH (C21-C30) | 8015B EFH | mg/l | 0.48 | U | 0.52 | U | 0.50 | U |
| EFH (C30-C40) | 8015B EFH | mg/l | 0.48 | U | 0.52 | U | 0.50 | U |
| EFH (C8-C11) | 8015B EFH | mg/l | 0.48 | U | 0.52 | U | 0.50 | U |
| ENDOSULFAN I | 8081A | ug/l | | | | | 0.2375 | UY |
| ENDOSULFAN II | 8081A | ug/l | | | | | 0.2375 | UY |
| ENDOSULFAN SULFATE | 8081A | ug/l | | | | | 0.2375 | UY |
| ENDRIN | 8081A | ug/l | | | | | 0.2375 | UY |
| ENDRIN ALDEHYDE | 8081A | ug/l | | | | | 0.2375 | UY |
| ENDRIN KETONE | 8081A | ug/l | | | | | 0.2375 | UY |
| ETHANOL | 8015B | ug/l | 1000 | U | 1000 | U | 1000 | U |
| ETHYLBENZENE | 8260B | ug/l | | | | | | |
| ETHYLENE GLYCOL | 8015M | mg/l | 10 | U | 10 | U | 10 | U |
| FLUORIDE | 300.0 | mg/l | 0.100 | U | 0.100 | U | 0.100 | U |
| FORMALDEHYDE | 8315A | ug/l | 50 | UJ | 50 | U | 50 | U |
| gamma-BHC (Lindane) | 8081A | ug/l | | | | | 0.2375 | UY |
| GASOLINE RANGE ORGANICS (C5-C12) | 8015B GRO | ug/l | 50 | U | 26 | J | 50 | U |
| HEPTACHLOR | 8081A | ug/l | | | | | 0.2375 | UY |
| HEPTACHLOR EPOXIDE | 8081A | ug/l | | | | | 0.2375 | UY |
| HEXACHLORO-1,3-BUTADIENE | 8260B | ug/l | | | | | | |
| HEXACHLORO-1,3-BUTADIENE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| HEXACHLOROBENZENE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| HEXACHLOROCYCLOPENTADIENE | 8270C | ug/l | 21 | U | 21 | U | 22 | U |
| HEXACHLOROETHANE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| IRON | 6020 | mg/l | 0.100 | U | 0.100 | U | 0.100 | U |
| ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID | 8015B | ug/l | 1000 | U | 1000 | U | 1000 | U |
| Isopropylbenzene | 8260B | ug/l | | | | | | |
| LEAD | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| LITHIUM | 6020 | mg/l | 0.00200 | U | 0.00200 | U | 0.00200 | U |
| M,P-XYLENE | 8260B | ug/l | | | | | | |
| MAGNESIUM | 6020 | mg/l | 0.100 | U | 0.100 | U | 0.100 | U |
| MANGANESE | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| MCPA (2-METHYL-4-CHLOROPHENOXYACETIC ACID) | 8151A | ug/l | | | | | 200 | UY |
| MCPP | 8151A | ug/l | | | | | 200 | UY |
| M-DINITROBENZENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| MERCURY | 7470A | mg/l | 0.000500 | U | 0.000500 | U | 0.000500 | U |
| METHANAMINE, N-METHYL-N-NITROSO | 1625C | ng/l | 0.954 | U | 2.31 | | 0.975 | U |
| METHANOL | 8015B | ug/l | 1000 | U | 1000 | U | 1000 | U |
| Methoxychlor | 8081A | ug/l | | | | | 2.375 | UY |
| METHYL TERT-BUTYL ETHER | 8260B | ug/l | | | | | | |
| METHYLENE CHLORIDE | 8260B | ug/l | | | | | | |
| MIREX | 8081A | ug/l | | | | | 0.2375 | UY |
| MOLYBDENUM | 6020 | mg/l | 0.00200 | U | 0.00200 | U | 0.00200 | U |
| m-Terphenyl | 8015B | mg/l | 0.24 | U | 0.26 | U | 0.24 | U |
| N-BUTYLBENZENE | 8260B | ug/l | | | | | | |
| NICKEL | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| Nitrate-NO3 | 300.0 | mg/l | 0.443 | U | 0.443 | U | 0.443 | U |
| Nitrite-NO2 | 300.0 | mg/l | | | | | 0.329 | U |
| NITROBENZENE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| NITROBENZENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| NITROGLYCERIN | 8332 | ug/l | 250 | U | 250 | U | 250 | U |
| N-NITROSO-DI-N-PROPYLAMINE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| N-NITROSODIPHENYLAMINE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| N-PROPYLBENZENE | 8260B | ug/l | | | | | | |
| OCDD | 1613B | pg/l | 18.9 | U | 21.0 | U | 19.7 | U |
| OCDF | 1613B | pg/l | 18.9 | UJ | 21.0 | U | 19.7 | U |
| OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| O-TERPHENYL | 8015B | mg/l | 0.24 | U | 0.26 | U | 0.24 | U |
| O-XYLENE | 8260B | ug/l | | | | | | |
| P-CHLOROANILINE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| PENTACHLOROPHENOL | 8270C | ug/l | 21 | U | 21 | U | 22 | U |
| PENTAERYTHRITOL TETRANITRATE | 8332 | ug/l | 250 | U | 250 | U | 250 | U |
| PERCHLORATE | 314.0 | ug/l | 2.00 | U | 2.00 | U | 2.00 | U |
| PH | 9040C | pH unit | 5.92 | | 5.56 | | 5.62 | |
| PHENOL | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| PHOSPHORUS | 6020 | mg/l | 0.0500 | U | 0.0500 | U | 0.0500 | U |
| P-NITROANILINE | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| POTASSIUM | 6020 | mg/l | 0.100 | U | 0.100 | U | 0.100 | U |
| Propylene glycol | 8015M | mg/l | 10 | U | 10 | U | 10 | U |
| p-Terphenyl | 8015B | mg/l | 0.24 | U | 0.26 | U | 0.24 | U |
| RDX | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| SELENIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| SILVER | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| SODIUM | 6020 | mg/l | 0.100 | U | 0.100 | U | 0.100 | U |
| STRONTIUM | 6020 | mg/l | 0.00200 | U | 0.00200 | U | 0.00200 | U |
| STYRENE | 8260B | ug/l | | | | | | |
| TERT-BUTYLBENZENE | 8260B | ug/l | | | | | | |
| TETRACHLOROETHENE | 8260B | ug/l | | | | | | |
| TETRALIN | 8270C | ug/l | 11 | U | 10 | U | 11 | U |
| TETRYL | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| THALLIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| TIN | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| TITANIUM METAL POWDER | 6020 | mg/l | 0.00200 | U | 0.00200 | U | 0.00200 | U |
| TOLUENE | 8260B | ug/l | | | | | | |
| TOTAL EFH(C8-C40) | 8015B EFH | mg/l | 0.48 | U | 0.52 | U | 0.50 | U |
| Toxaphene | 8081A | ug/l | | | | | 4.75 | UY |
| TRANS-1,2-DICHLOROETHENE | 8260B | ug/l | | | | | | |
| TRANS-1,3-DICHLOROPROPENE | 8260B | ug/l | | | | | | |
| TRICHLOROETHENE | 8260B | ug/l | | | | | | |
| TRICHLOROFLUOROMETHANE | 8260B | ug/l | | | | | | |
| VANADIUM (FUME OR DUST) | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| VINYL CHLORIDE | 8260B | ug/l | | | | | | |
| ZINC | 6020 | mg/l | 0.0146 | J | 0.0200 | U | 0.0200 | U |
| ZIRCONIUM | 6020 | mg/l | 0.00500 | U | 0.00500 | U | 0.00500 | U |

ug/L - microgram per liter
mg/L - milligram per liter
ng/L - nanogram per liter
pg/L - picogram per liter
U - Compound not detected above the reporting limit
(a) Some SVOC results had two values - one for SVOC and one for SVOC SIM. The validators used the value with the lowest detection limit for validation purposes.

Table C-2 - NBZ Equipment Rinsate Samples

| | | Sample Name: | EB-NBZ-SS-032112 | | EB-NBZ-SS-032712 | | EB-NBZ-SS-032912 | |
|---|---|---|---|---|---|---|---|---|
| | | Location: | EB-NBZ | | EB-NBZ | | EB-NBZ | |
| | | Sample Date: | 03/21/2012 | | 03/27/2012 | | 03/29/2012 | |
| | | Sample Type | EB | | EB | | EB | |
| Analyte | Analytic Method | Units | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer |
| 1,1,1,2-TETRACHLOROETHANE | 8260B | ug/l | | | | | | |
| 1,1,1-TRICHLOROETHANE | 8260B | ug/l | | | | | | |
| 1,1,2,2-TETRACHLOROETHANE | 8260B | ug/l | | | | | | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 8260B | ug/l | | | | | | |
| 1,1,2-TRICHLOROETHANE | 8260B | ug/l | | | | | | |
| 1,1-DICHLOROETHANE | 8260B | ug/l | | | | | | |
| 1,1-DICHLOROETHENE | 8260B | ug/l | | | | | | |
| 1,1-Dichloropropene | 8260B | ug/l | | | | | | |
| 1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 9.50 | U | 9.94 | U | 11.0 | U |
| 1,2,3,4,6,7,8-HPCDF | 1613B | pg/l | 9.50 | U | 9.94 | U | 11.0 | U |
| 1,2,3,4,7,8,9-HPCDF | 1613B | pg/l | 9.50 | U | 9.94 | U | 11.0 | U |
| 1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 9.50 | U | 9.94 | U | 11.0 | U |
| 1,2,3,4,7,8-HXCDF | 1613B | pg/l | 9.50 | U | 9.94 | U | 11.0 | U |
| 1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 9.50 | U | 9.94 | U | 11.0 | U |
| 1,2,3,6,7,8-HXCDF | 1613B | pg/l | 9.50 | U | 9.94 | U | 11.0 | U |
| 1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 9.50 | U | 9.94 | U | 11.0 | U |
| 1,2,3,7,8,9-HXCDF | 1613B | pg/l | 9.50 | U | 9.94 | U | 11.0 | U |
| 1,2,3,7,8-PENTACHLORODIBENZOFURAN | 1613B | pg/l | 9.50 | U | 9.94 | U | 11.0 | U |
| 1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 9.50 | U | 0.224 | J | 0.341 | J |
| 1,2,3-TRICHLOROBENZENE | 8260B | ug/l | | | | | | |
| 1,2,3-Trichloropropane | 8260B | ug/l | | | | | | |
| 1,2,4-TRICHLOROBENZENE | 8260B | ug/l | | | | | | |
| 1,2,4-TRICHLOROBENZENE | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| 1,2,4-TRIMETHYLBENZENE | 8260B | ug/l | | | | | | |
| 1,2-Dibromo-3-Chloropropane | 8260B | ug/l | | | | | | |
| 1,2-DIBROMOETHANE | 8260B | ug/l | | | | | | |
| 1,2-DICHLOROBENZENE | 8260B | ug/l | | | | | | |
| 1,2-DICHLOROBENZENE | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| 1,2-DICHLOROETHANE | 8260B | ug/l | | | | | | |
| 1,2-DICHLOROPROPANE | 8260B | ug/l | | | | | | |
| 1,2-DIPHENYLHYDRAZINE | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| 1,3,5-Trimethylbenzene | 8260B | ug/l | | | | | | |
| 1,3,5-TRINITROBENZENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,3-DICHLOROBENZENE | 8260B | ug/l | | | | | | |
| 1,3-DICHLOROBENZENE | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| 1,3-DICHLOROPROPANE | 8260B | ug/l | | | | | | |
| 1,4-DICHLOROBENZENE | 8260B | ug/l | | | | | | |
| 1,4-DICHLOROBENZENE | 8270C | ug/l | 11 | UJ | 10 | U | 10 | U |
| 1,4-DIOXANE | 8260B SIM | ug/l | | | | | | |
| 2,2-DICHLOR0PROPIONIC ACID | 8151A | ug/l | 1.6 | UY | 1.6 | UY | 1.6 | UY |
| 2,2-DICHLOROPROPANE | 8260B | ug/l | | | | | | |
| 2,3,4,6,7,8-HXCDF | 1613B | pg/l | 9.50 | U | 9.94 | U | 11.0 | U |
| 2,3,4,7,8-PECDF | 1613B | pg/l | 9.50 | U | 9.94 | U | 11.0 | U |
| 2,3,7,8-TCDD | 1613B | pg/l | 1.90 | U | 1.99 | U | 2.20 | U |
| 2,3,7,8-TETRACHLORODIBENZOFURAN | 1613B | pg/l | 1.90 | U | 0.210 | J | 2.20 | U |
| 2,4,5-T | 8151A | ug/l | 1.6 | UY | 1.6 | UY | 1.6 | UY |
| 2,4,5-TP (Silvex) | 8151A | ug/l | 1.6 | UY | 1.6 | UY | 1.6 | UY |
| 2,4,5-TRICHLOROPHENOL | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| 2,4,6-TRICHLOROPHENOL | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| 2,4,6-TRINITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 2,4-D | 8151A | ug/l | 1.6 | UY | 1.6 | UY | 1.6 | UY |
| 2,4-DB | 8151A | ug/l | 1.6 | UY | 1.6 | UY | 1.6 | UY |
| 2,4-DIAMINO-6-NITROTOLUENE | 8330A | ug/l | 2.0 | U | 2.0 | U | 2.0 | U |
| 2,4-DICHLOROPHENOL | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| 2,4-DIMETHYLPHENOL | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| 2,4-DINITROPHENOL | 8270C | ug/l | 21 | U | 21 | U | 20 | U |
| 2,4-DINITROTOLUENE | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| 2,4-DINITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 2,6-Diamino-4-nitrotoluene | 8330A | ug/l | 2.0 | U | 2.0 | U | 2.0 | U |
| 2,6-DINITROTOLUENE | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| 2,6-DINITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 2-AMINO-4,6-DINITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 2-Butanone (MEK) | 8260B | ug/l | | | | | | |
| 2-butoxy-Ethanol | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| 2-Chloro-1,1,1-trifluoroethane | 8260B | ug/l | | | | | | |
| 2-CHLOROETHYL VINYL ETHER | 8260B | ug/l | | | | | | |
| 2-CHLORONAPHTHALENE | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| 2-CHLOROPHENOL | 8270C | ug/l | 11 | UJ | 10 | U | 10 | U |
| 2-CHLOROTOLUENE | 8260B | ug/l | | | | | | |
| 2-Hexanone | 8260B | ug/l | | | | | | |
| 2-METHYLPHENOL | 8270C | ug/l | 11 | UJ | 10 | U | 10 | U |
| 2-NITROANILINE | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| 2-NITROPHENOL | 8270C | ug/l | 11 | UJ | 10 | U | 10 | U |
| 2-NITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 2-phenoxy-Ethanol | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| 2-PHENYLBUTANE | 8260B | ug/l | | | | | | |
| 3,3'-DICHLOROBENZIDINE | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| 3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| 3,5-Dimethylphenol | 8270C | ug/l | 21 | U | 21 | U | 20 | U |
| 3-NITROANILINE | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| 3-NITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 4,4'-DDD | 8081A | ug/l | 0.2375 | UY | 0.25 | UY | 0.2325 | UY |
| 4,4'-DDE | 8081A | ug/l | 0.2375 | UY | 0.25 | UY | 0.2325 | UY |
| 4,4'-DDT | 8081A | ug/l | 0.2375 | UY | 0.25 | UY | 0.2325 | UY |
| 4,6-DINITRO-2-METHYLPHENOL | 8270C | ug/l | 21 | U | 21 | U | 20 | U |
| 4-AMINO-2,6-DINITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 4-BROMOPHENYL PHENYL ETHER | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| 4-CHLORO-3-METHYLPHENOL | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| 4-CHLOROPHENYL PHENYL ETHER | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| 4-CHLOROTOLUENE | 8260B | ug/l | | | | | | |
| 4-Methyl-2-Pentanone (MIBK) | 8260B | ug/l | | | | | | |
| 4-METHYLPHENOL | 8270C | ug/l | 11 | UJ | 10 | U | 10 | U |
| 4-NITROPHENOL | 8270C | ug/l | 21 | U | 21 | U | 20 | U |
| 4-NITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| ACETONE | 8260B | ug/l | | | | | | |
| ALDRIN | 8081A | ug/l | 0.2375 | UY | 0.25 | UY | 0.2325 | UY |
| ALPHA-BHC | 8081A | ug/l | 0.2375 | UY | 0.25 | UY | 0.2325 | UY |
| ALUMINUM (FUME OR DUST) | 6020 | mg/l | 0.100 | U | 0.100 | U | 0.0266 | J |
| ANILINE | 8270C | ug/l | 21 | U | 21 | U | 20 | U |
| ANTIMONY | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| Aroclor 1016 | 8082 | ug/l | 2.375 | UY | 2.5 | UY | 2.325 | UY |
| Aroclor 1221 | 8082 | ug/l | 2.375 | UY | 2.5 | UY | 2.325 | UY |
| Aroclor 1232 | 8082 | ug/l | 2.375 | UY | 2.5 | UY | 2.325 | UY |
| Aroclor 1242 | 8082 | ug/l | 2.375 | UY | 2.5 | UY | 2.325 | UY |
| Aroclor 1248 | 8082 | ug/l | 2.375 | UY | 2.5 | UY | 2.325 | UY |
| Aroclor 1254 | 8082 | ug/l | 2.375 | UY | 2.5 | UY | 2.325 | UY |
| Aroclor 1260 | 8082 | ug/l | 2.375 | UY | 2.5 | UY | 2.325 | UY |
| Aroclor 1262 | 8082 | ug/l | 2.375 | UY | 2.5 | UY | 2.325 | UY |
| Aroclor 1268 | 8082 | ug/l | 2.375 | UY | 2.5 | UY | 2.325 | UY |
| Aroclor 5432 | 8082 | ug/l | 4.75 | UY | 5.25 | UY | 4.75 | UY |
| Aroclor 5442 | 8082 | ug/l | 4.75 | UY | 5.25 | UY | 4.75 | UY |
| Aroclor 5460 | 8082 | ug/l | 4.75 | UY | 5.25 | UY | 4.75 | UY |
| ARSENIC | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| BARIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| BENZENE | 8260B | ug/l | | | | | | |
| BENZIDINE | 8270C | ug/l | 52 | UJ | 52 | U | 50 | R |
| BENZOIC ACID | 8270C | ug/l | 42 | U | 41 | U | 40 | UJ |
| BENZYL ALCOHOL | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| BERYLLIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| BETA-BHC | 8081A | ug/l | 0.2375 | UY | 0.25 | UY | 0.2325 | UY |
| BIS(2-CHLOROETHOXY)METHANE | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| BIS(2-CHLOROETHYL) ETHER | 8270C | ug/l | 11 | UJ | 10 | U | 10 | U |
| BIS(2-CHLOROISOPROPYL) ETHER | 8270C | ug/l | 11 | UJ | 10 | U | 10 | U |
| BORON | 6020 | mg/l | 0.0100 | U | 0.0100 | U | 0.0100 | U |
| BROMOBENZENE | 8260B | ug/l | | | | | | |
| Bromochloromethane | 8260B | ug/l | | | | | | |
| BROMODICHLOROMETHANE | 8260B | ug/l | | | | | | |
| BROMOFORM | 8260B | ug/l | | | | | | |
| BROMOMETHANE | 8260B | ug/l | | | | | | |
| CADMIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| CALCIUM METAL | 6020 | mg/l | 0.100 | U | 0.100 | U | 0.100 | U |
| CARBAZOLE | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| CARBON TETRACHLORIDE | 8260B | ug/l | | | | | | |

Table C-2 - NBZ Equipment Rinsate Samples

| | | Sample Name: | EB-NBZ-SS-032112 | | EB-NBZ-SS-032712 | | EB-NBZ-SS-032912 | |
|---|---|---|---|---|---|---|---|---|
| | | Location: | EB-NBZ | | EB-NBZ | | EB-NBZ | |
| | | Sample Date: | 03/21/2012 | | 03/27/2012 | | 03/29/2012 | |
| | | Sample Type | EB | | EB | | EB | |
| Analyte | Analytic Method | Units | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer |
| Chlordane (technical) | 8081A | ug/l | 2.375 | UY | 2.5 | UY | 2.325 | UY |
| CHLOROBENZENE | 8260B | ug/l | | | | | | |
| CHLOROETHANE | 8260B | ug/l | | | | | | |
| CHLOROFORM | 8260B | ug/l | | | | | | |
| CHLOROMETHANE | 8260B | ug/l | | | | | | |
| Chlorotrifluoroethylene | 8260B | ug/l | | | | | | |
| CHROMIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| CHROMIUM (HEXAVALENT COMPOUNDS) | 7199 | ug/l | 0.200 | U | 0.200 | U | 0.200 | U |
| CIS-1,2-DICHLOROETHENE | 8260B | ug/l | | | | | | |
| CIS-1,3-DICHLOROPROPENE | 8260B | ug/l | | | | | | |
| COBALT | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| COPPER | 6020 | mg/l | 0.00100 | U | 0.000807 | J | 0.00108 | |
| CYANIDE | 9014 | mg/l | 0.0100 | U | 0.0100 | U | 0.0100 | U |
| CYMENE | 8260B | ug/l | | | | | | |
| DELTA-BHC | 8081A | ug/l | 0.2375 | UY | 0.25 | UY | 0.2325 | UY |
| DIBENZOFURAN | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| DIBROMOCHLOROMETHANE | 8260B | ug/l | | | | | | |
| DIBROMOMETHANE | 8260B | ug/l | | | | | | |
| DICAMBA | 8151A | ug/l | 1.6 | UY | 1.6 | UY | 1.6 | UY |
| DICHLORODIFLUOROMETHANE | 8260B | ug/l | | | | | | |
| DICHLORPROP | 8151A | ug/l | 1.6 | UY | 1.6 | UY | 1.6 | UY |
| DIELDRIN | 8081A | ug/l | 0.2375 | UY | 0.25 | UY | 0.2325 | UY |
| DIETHYLENE GLYCOL | 8015M | mg/l | 10 | U | 10 | U | 10 | U |
| DINITROBUTYL PHENOL | 8151A | ug/l | 1.6 | UY | 1.6 | UY | 1.6 | UY |
| EFH (C12-C14) | 8015B EFH | mg/l | 0.52 | U | 0.51 | U | 0.54 | U |
| EFH (C15-C20) | 8015B EFH | mg/l | 0.52 | U | 0.51 | U | 0.54 | U |
| EFH (C21-C30) | 8015B EFH | mg/l | 0.52 | U | 0.51 | U | 0.54 | U |
| EFH (C30-C40) | 8015B EFH | mg/l | 0.52 | U | 0.51 | U | 0.54 | U |
| EFH (C8-C11) | 8015B EFH | mg/l | 0.52 | U | 0.51 | U | 0.54 | U |
| ENDOSULFAN I | 8081A | ug/l | 0.2375 | UY | 0.25 | UY | 0.2325 | UY |
| ENDOSULFAN II | 8081A | ug/l | 0.2375 | UY | 0.25 | UY | 0.2325 | UY |
| ENDOSULFAN SULFATE | 8081A | ug/l | 0.2375 | UY | 0.25 | UY | 0.2325 | UY |
| ENDRIN | 8081A | ug/l | 0.2375 | UY | 0.25 | UY | 0.2325 | UY |
| ENDRIN ALDEHYDE | 8081A | ug/l | 0.2375 | UY | 0.25 | UY | 0.2325 | UY |
| ENDRIN KETONE | 8081A | ug/l | 0.2375 | UY | 0.25 | UY | 0.2325 | UY |
| ETHANOL | 8015B | ug/l | 1000 | U | 1000 | U | 1000 | U |
| ETHYLBENZENE | 8260B | ug/l | | | | | | |
| ETHYLENE GLYCOL | 8015M | mg/l | 10 | U | 10 | U | 10 | U |
| FLUORIDE | 300.0 | mg/l | 0.100 | U | 0.100 | U | 0.100 | U |
| FORMALDEHYDE | 8315A | ug/l | 50 | U | 230 | | 50 | U |
| gamma-BHC (Lindane) | 8081A | ug/l | 0.2375 | UY | 0.25 | UY | 0.2325 | UY |
| GASOLINE RANGE ORGANICS (C5-C12) | 8015B GRO | ug/l | | | | | | |
| HEPTACHLOR | 8081A | ug/l | 0.2375 | UY | 0.25 | UY | 0.2325 | UY |
| HEPTACHLOR EPOXIDE | 8081A | ug/l | 0.2375 | UY | 0.25 | UY | 0.2325 | UY |
| HEXACHLORO-1,3-BUTADIENE | 8260B | ug/l | | | | | | |
| HEXACHLORO-1,3-BUTADIENE | 8270C | ug/l | 11 | UJ | 10 | U | 10 | U |
| HEXACHLOROBENZENE | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| HEXACHLOROCYCLOPENTADIENE | 8270C | ug/l | 21 | U | 21 | U | 20 | U |
| HEXACHLOROETHANE | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| IRON | 6020 | mg/l | 0.100 | U | 0.100 | U | 0.100 | U |
| ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID | 8015B | ug/l | 1000 | U | 1000 | U | 1000 | U |
| Isopropylbenzene | 8260B | ug/l | | | | | | |
| LEAD | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| LITHIUM | 6020 | mg/l | 0.00200 | U | 0.00200 | U | 0.00200 | U |
| M,P-XYLENE | 8260B | ug/l | | | | | | |
| MAGNESIUM | 6020 | mg/l | 0.100 | U | 0.100 | U | 0.100 | U |
| MANGANESE | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| MCPA (2-METHYL-4-CHLOROPHENOXYACETIC ACID) | 8151A | ug/l | 200 | UY | 200 | UY | 200 | UY |
| MCPP | 8151A | ug/l | 200 | UY | 200 | UY | 200 | UY |
| M-DINITROBENZENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| MERCURY | 7470A | mg/l | 0.000500 | U | 0.000500 | U | 0.000500 | U |
| METHANAMINE, N-METHYL-N-NITROSO | 1625C | ng/l | 0.957 | U | 1.01 | U | 1.04 | U |
| METHANOL | 8015B | ug/l | 1000 | U | 1000 | U | 1000 | U |
| Methoxychlor | 8081A | ug/l | 2.375 | UY | 2.5 | UY | 2.325 | UY |
| METHYL TERT-BUTYL ETHER | 8260B | ug/l | | | | | | |
| METHYLENE CHLORIDE | 8260B | ug/l | | | | | | |
| MIREX | 8081A | ug/l | 0.2375 | UY | 0.25 | UY | 0.2325 | UY |
| MOLYBDENUM | 6020 | mg/l | 0.00200 | U | 0.00200 | U | 0.00200 | U |
| m-Terphenyl | 8015B | mg/l | 0.24 | U | 0.48 | U | 0.54 | U |
| N-BUTYLBENZENE | 8260B | ug/l | | | | | | |
| NICKEL | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| Nitrate-NO3 | 300.0 | mg/l | 0.443 | U | 0.490 | | 0.799 | |
| Nitrite-NO2 | 300.0 | mg/l | | | | | | |
| NITROBENZENE | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| NITROBENZENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| NITROGLYCERIN | 8332 | ug/l | 250 | U | 250 | U | 250 | U |
| N-NITROSO-DI-N-PROPYLAMINE | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| N-NITROSODIPHENYLAMINE | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| N-PROPYLBENZENE | 8260B | ug/l | | | | | | |
| OCDD | 1613B | pg/l | 19.0 | U | 19.9 | U | 22.0 | U |
| OCDF | 1613B | pg/l | 19.0 | U | 19.9 | U | 22.0 | U |
| OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE | 8330A | ug/l | 1.0 | U | 1.0 | U | 0.29 | J |
| O-TERPHENYL | 8015B | mg/l | 0.24 | U | 0.48 | U | 0.54 | U |
| O-XYLENE | 8260B | ug/l | | | | | | |
| P-CHLOROANILINE | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| PENTACHLOROPHENOL | 8270C | ug/l | 21 | U | 21 | U | 20 | U |
| PENTAERYTHRITOL TETRANITRATE | 8332 | ug/l | 250 | U | 250 | U | 250 | U |
| PERCHLORATE | 314.0 | ug/l | 2.00 | U | 2.00 | U | 2.00 | U |
| PH | 9040C | pH unit | 5.55 | | 5.05 | | 4.23 | |
| PHENOL | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| PHOSPHORUS | 6020 | mg/l | 0.0500 | U | 0.0500 | U | 0.0500 | U |
| P-NITROANILINE | 8270C | ug/l | 11 | UJ | 10 | U | 10 | U |
| POTASSIUM | 6020 | mg/l | 0.100 | U | 0.100 | U | 0.100 | U |
| Propylene glycol | 8015M | mg/l | 10 | U | 10 | U | 10 | U |
| p-Terphenyl | 8015B | mg/l | 0.24 | U | 0.48 | U | 0.54 | U |
| RDX | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| SELENIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| SILVER | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| SODIUM | 6020 | mg/l | 0.100 | U | 0.100 | U | 0.112 | |
| STRONTIUM | 6020 | mg/l | 0.00200 | U | 0.00200 | U | 0.00200 | U |
| STYRENE | 8260B | ug/l | | | | | | |
| TERT-BUTYLBENZENE | 8260B | ug/l | | | | | | |
| TETRACHLOROETHENE | 8260B | ug/l | | | | | | |
| TETRALIN | 8270C | ug/l | 11 | U | 10 | U | 10 | U |
| TETRYL | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| THALLIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| TIN | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| TITANIUM METAL POWDER | 6020 | mg/l | 0.00200 | U | 0.00200 | U | 0.00200 | U |
| TOLUENE | 8260B | ug/l | | | | | | |
| TOTAL EFH(C8-C40) | 8015B EFH | mg/l | 0.52 | U | 0.51 | U | 0.54 | U |
| Toxaphene | 8081A | ug/l | 4.75 | UY | 5.25 | UY | 4.75 | UY |
| TRANS-1,2-DICHLOROETHENE | 8260B | ug/l | | | | | | |
| TRANS-1,3-DICHLOROPROPENE | 8260B | ug/l | | | | | | |
| TRICHLOROETHENE | 8260B | ug/l | | | | | | |
| TRICHLOROFLUOROMETHANE | 8260B | ug/l | | | | | | |
| VANADIUM (FUME OR DUST) | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| VINYL CHLORIDE | 8260B | ug/l | | | | | | |
| ZINC | 6020 | mg/l | 0.0200 | U | 0.0200 | U | 0.0200 | U |
| ZIRCONIUM | 6020 | mg/l | 0.00500 | U | 0.00500 | U | 0.00500 | U |

ug/L - microgram per liter
mg/L - milligram per liter
ng/L - nanogram per liter
pg/L - picogram per liter
U - Compound not detected above the reporting limit
(a) Some SVOC results had two values - one for SVOC and one for SVOC SIM. The validators used the value with the lowest detection limit for validation purposes.

Table C-2 - NBZ Equipment Rinsate Samples

| | | Sample Name: | EB-NBZ-SS-040412 | | EB-NBZ-SS-041212 | | EB-NBZ-SS-041712 | |
|---|---|---|---|---|---|---|---|---|
| | | Location: | EB-NBZ | | EB-NBZ | | EB-NBZ | |
| | | Sample Date: | 04/04/2012 | | 04/12/2012 | | 04/17/2012 | |
| | | Sample Type | EB | | EB | | EB | |
| Analyte | Analytic Method | Units | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer |
| 1,1,1,2-TETRACHLOROETHANE | 8260B | ug/l | | | | | | |
| 1,1,1-TRICHLOROETHANE | 8260B | ug/l | | | | | | |
| 1,1,2,2-TETRACHLOROETHANE | 8260B | ug/l | | | | | | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 8260B | ug/l | | | | | | |
| 1,1,2-TRICHLOROETHANE | 8260B | ug/l | | | | | | |
| 1,1-DICHLOROETHANE | 8260B | ug/l | | | | | | |
| 1,1-DICHLOROETHENE | 8260B | ug/l | | | | | | |
| 1,1-Dichloropropene | 8260B | ug/l | | | | | | |
| 1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 9.42 | U | 10.5 | U | 10.8 | U |
| 1,2,3,4,6,7,8-HPCDF | 1613B | pg/l | 9.42 | U | 10.5 | U | 10.8 | U |
| 1,2,3,4,7,8,9-HPCDF | 1613B | pg/l | 9.42 | U | 10.5 | U | 10.8 | U |
| 1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 9.42 | U | 10.5 | U | 10.8 | U |
| 1,2,3,4,7,8-HXCDF | 1613B | pg/l | 9.42 | U | 10.5 | U | 10.8 | U |
| 1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 9.42 | U | 10.5 | U | 10.8 | U |
| 1,2,3,6,7,8-HXCDF | 1613B | pg/l | 9.42 | U | 10.5 | U | 10.8 | U |
| 1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 9.42 | U | 10.5 | U | 10.8 | U |
| 1,2,3,7,8,9-HXCDF | 1613B | pg/l | 9.42 | U | 10.5 | U | 10.8 | U |
| 1,2,3,7,8-PENTACHLORODIBENZOFURAN | 1613B | pg/l | 9.42 | U | 10.5 | U | 0.365 | J |
| 1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 9.42 | U | 10.5 | U | 10.8 | U |
| 1,2,3-TRICHLOROBENZENE | 8260B | ug/l | | | | | | |
| 1,2,3-Trichloropropane | 8260B | ug/l | | | | | | |
| 1,2,4-TRICHLOROBENZENE | 8260B | ug/l | | | | | | |
| 1,2,4-TRICHLOROBENZENE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 1,2,4-TRIMETHYLBENZENE | 8260B | ug/l | | | | | | |
| 1,2-Dibromo-3-Chloropropane | 8260B | ug/l | | | | | | |
| 1,2-DIBROMOETHANE | 8260B | ug/l | | | | | | |
| 1,2-DICHLOROBENZENE | 8260B | ug/l | | | | | | |
| 1,2-DICHLOROBENZENE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 1,2-DICHLOROETHANE | 8260B | ug/l | | | | | | |
| 1,2-DICHLOROPROPANE | 8260B | ug/l | | | | | | |
| 1,2-DIPHENYLHYDRAZINE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 1,3,5-Trimethylbenzene | 8260B | ug/l | | | | | | |
| 1,3,5-TRINITROBENZENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,3-DICHLOROBENZENE | 8260B | ug/l | | | | | | |
| 1,3-DICHLOROBENZENE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 1,3-DICHLOROPROPANE | 8260B | ug/l | | | | | | |
| 1,4-DICHLOROBENZENE | 8260B | ug/l | | | | | | |
| 1,4-DICHLOROBENZENE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 1,4-DIOXANE | 8260B SIM | ug/l | | | | | | |
| 2,2-DICHLOR0PROPIONIC ACID | 8151A | ug/l | 1.6 | UY | 1.6 | UY | 1.6 | UY |
| 2,2-DICHLOROPROPANE | 8260B | ug/l | | | | | | |
| 2,3,4,6,7,8-HXCDF | 1613B | pg/l | 9.42 | U | 10.5 | U | 10.8 | U |
| 2,3,4,7,8-PECDF | 1613B | pg/l | 9.42 | U | 10.5 | U | 10.8 | U |
| 2,3,7,8-TCDD | 1613B | pg/l | 1.88 | U | 2.09 | U | 2.16 | U |
| 2,3,7,8-TETRACHLORODIBENZOFURAN | 1613B | pg/l | 1.88 | U | 2.09 | U | 2.16 | U |
| 2,4,5-T | 8151A | ug/l | 1.6 | UY | 1.6 | UY | 1.6 | UY |
| 2,4,5-TP (Silvex) | 8151A | ug/l | 1.6 | UY | 1.6 | UY | 1.6 | UY |
| 2,4,5-TRICHLOROPHENOL | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 2,4,6-TRICHLOROPHENOL | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 2,4,6-TRINITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 2,4-D | 8151A | ug/l | 1.6 | UY | 1.6 | UY | 1.6 | UY |
| 2,4-DB | 8151A | ug/l | 1.6 | UY | 1.6 | UY | 1.6 | UY |
| 2,4-DIAMINO-6-NITROTOLUENE | 8330A | ug/l | 2.0 | U | 2.0 | U | 2.0 | U |
| 2,4-DICHLOROPHENOL | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 2,4-DIMETHYLPHENOL | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 2,4-DINITROPHENOL | 8270C | ug/l | 19 | U | 23 | U | 22 | U |
| 2,4-DINITROTOLUENE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 2,4-DINITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 2,6-Diamino-4-nitrotoluene | 8330A | ug/l | 2.0 | U | 2.0 | U | 2.0 | U |
| 2,6-DINITROTOLUENE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 2,6-DINITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 2-AMINO-4,6-DINITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 2-Butanone (MEK) | 8260B | ug/l | | | | | | |
| 2-butoxy-Ethanol | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 2-Chloro-1,1,1-trifluoroethane | 8260B | ug/l | | | | | | |
| 2-CHLOROETHYL VINYL ETHER | 8260B | ug/l | | | | | | |
| 2-CHLORONAPHTHALENE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 2-CHLOROPHENOL | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 2-CHLOROTOLUENE | 8260B | ug/l | | | | | | |
| 2-Hexanone | 8260B | ug/l | | | | | | |
| 2-METHYLPHENOL | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 2-NITROANILINE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 2-NITROPHENOL | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 2-NITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 2-phenoxy-Ethanol | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 2-PHENYLBUTANE | 8260B | ug/l | | | | | | |
| 3,3'-DICHLOROBENZIDINE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 3,5-Dimethylphenol | 8270C | ug/l | 19 | U | 23 | U | 22 | U |
| 3-NITROANILINE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 3-NITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 4,4'-DDD | 8081A | ug/l | 0.25 | UY | 0.25 | UY | 0.25 | UY |
| 4,4'-DDE | 8081A | ug/l | 0.25 | UY | 0.25 | UY | 0.25 | UY |
| 4,4'-DDT | 8081A | ug/l | 0.25 | UY | 0.25 | UY | 0.25 | UY |
| 4,6-DINITRO-2-METHYLPHENOL | 8270C | ug/l | 19 | U | 23 | U | 22 | U |
| 4-AMINO-2,6-DINITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| 4-BROMOPHENYL PHENYL ETHER | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 4-CHLORO-3-METHYLPHENOL | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 4-CHLOROPHENYL PHENYL ETHER | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 4-CHLOROTOLUENE | 8260B | ug/l | | | | | | |
| 4-Methyl-2-Pentanone (MIBK) | 8260B | ug/l | | | | | | |
| 4-METHYLPHENOL | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| 4-NITROPHENOL | 8270C | ug/l | 19 | U | 23 | U | 22 | U |
| 4-NITROTOLUENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| ACETONE | 8260B | ug/l | | | | | | |
| ALDRIN | 8081A | ug/l | 0.25 | UY | 0.25 | UY | 0.25 | UY |
| ALPHA-BHC | 8081A | ug/l | 0.25 | UY | 0.25 | UY | 0.25 | UY |
| ALUMINUM (FUME OR DUST) | 6020 | mg/l | 0.100 | U | 0.100 | U | 0.100 | U |
| ANILINE | 8270C | ug/l | 19 | U | 23 | U | 22 | U |
| ANTIMONY | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| Aroclor 1016 | 8082 | ug/l | 2.5 | UY | 2.5 | UY | 2.5 | UY |
| Aroclor 1221 | 8082 | ug/l | 2.5 | UY | 2.5 | UY | 2.5 | UY |
| Aroclor 1232 | 8082 | ug/l | 2.5 | UY | 2.5 | UY | 2.5 | UY |
| Aroclor 1242 | 8082 | ug/l | 2.5 | UY | 2.5 | UY | 2.5 | UY |
| Aroclor 1248 | 8082 | ug/l | 2.5 | UY | 2.5 | UY | 2.5 | UY |
| Aroclor 1254 | 8082 | ug/l | 2.5 | UY | 2.5 | UY | 2.5 | UY |
| Aroclor 1260 | 8082 | ug/l | 2.5 | UY | 2.5 | UY | 2.5 | UY |
| Aroclor 1262 | 8082 | ug/l | 2.5 | UY | 2.5 | UY | 2.5 | UY |
| Aroclor 1268 | 8082 | ug/l | 2.5 | UY | 2.5 | UY | 2.5 | UY |
| Aroclor 5432 | 8082 | ug/l | 5.25 | UY | 5.25 | UY | 5.25 | UY |
| Aroclor 5442 | 8082 | ug/l | 5.25 | UY | 5.25 | UY | 5.25 | UY |
| Aroclor 5460 | 8082 | ug/l | 5.25 | UY | 5.25 | UY | 5.25 | UY |
| ARSENIC | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| BARIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| BENZENE | 8260B | ug/l | | | | | | |
| BENZIDINE | 8270C | ug/l | 48 | U | 57 | U | 54 | R |
| BENZOIC ACID | 8270C | ug/l | 39 | U | 46 | U | 43 | U |
| BENZYL ALCOHOL | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| BERYLLIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| BETA-BHC | 8081A | ug/l | 0.25 | UY | 0.25 | UY | 0.25 | UY |
| BIS(2-CHLOROETHOXY)METHANE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| BIS(2-CHLOROETHYL) ETHER | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| BIS(2-CHLOROISOPROPYL) ETHER | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| BORON | 6020 | mg/l | 0.0100 | U | 0.0100 | U | 0.0100 | U |
| BROMOBENZENE | 8260B | ug/l | | | | | | |
| Bromochloromethane | 8260B | ug/l | | | | | | |
| BROMODICHLOROMETHANE | 8260B | ug/l | | | | | | |
| BROMOFORM | 8260B | ug/l | | | | | | |
| BROMOMETHANE | 8260B | ug/l | | | | | | |
| CADMIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| CALCIUM METAL | 6020 | mg/l | 0.100 | U | 0.0608 | J | 0.0492 | J |
| CARBAZOLE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| CARBON TETRACHLORIDE | 8260B | ug/l | | | | | | |

Table C-2 - NBZ Equipment Rinsate Samples

| | | Sample Name: | EB-NBZ-SS-040412 | | EB-NBZ-SS-041212 | | EB-NBZ-SS-041712 | |
|---|---|---|---|---|---|---|---|---|
| | | Location: | EB-NBZ | | EB-NBZ | | EB-NBZ | |
| | | Sample Date: | 04/04/2012 | | 04/12/2012 | | 04/17/2012 | |
| | | Sample Type | EB | | EB | | EB | |
| Analyte | Analytic Method | Units | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer |
| Chlordane (technical) | 8081A | ug/l | 2.5 | UY | 2.5 | UY | 2.5 | UY |
| CHLOROBENZENE | 8260B | ug/l | | | | | | |
| CHLOROETHANE | 8260B | ug/l | | | | | | |
| CHLOROFORM | 8260B | ug/l | | | | | | |
| CHLOROMETHANE | 8260B | ug/l | | | | | | |
| Chlorotrifluoroethylene | 8260B | ug/l | | | | | | |
| CHROMIUM | 6020 | mg/l | 0.000239 | J | 0.00100 | U | 0.00100 | U |
| CHROMIUM (HEXAVALENT COMPOUNDS) | 7199 | ug/l | 0.200 | U | 0.200 | U | 0.200 | U |
| CIS-1,2-DICHLOROETHENE | 8260B | ug/l | | | | | | |
| CIS-1,3-DICHLOROPROPENE | 8260B | ug/l | | | | | | |
| COBALT | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| COPPER | 6020 | mg/l | 0.000719 | J | 0.00100 | U | 0.000613 | J |
| CYANIDE | 9014 | mg/l | 0.0100 | U | 0.0100 | U | 0.0100 | U |
| CYMENE | 8260B | ug/l | | | | | | |
| DELTA-BHC | 8081A | ug/l | 0.25 | UY | 0.25 | UY | 0.25 | UY |
| DIBENZOFURAN | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| DIBROMOCHLOROMETHANE | 8260B | ug/l | | | | | | |
| DIBROMOMETHANE | 8260B | ug/l | | | | | | |
| DICAMBA | 8151A | ug/l | 1.6 | UY | 1.6 | UY | 1.6 | UY |
| DICHLORODIFLUOROMETHANE | 8260B | ug/l | | | | | | |
| DICHLORPROP | 8151A | ug/l | 1.6 | UY | 1.6 | UY | 1.6 | UY |
| DIELDRIN | 8081A | ug/l | 0.25 | UY | 0.25 | UY | 0.25 | UY |
| DIETHYLENE GLYCOL | 8015M | mg/l | 10 | U | 10 | U | 10 | U |
| DINITROBUTYL PHENOL | 8151A | ug/l | 1.6 | UJY | 1.6 | UY | 1.6 | UY |
| EFH (C12-C14) | 8015B EFH | mg/l | 0.57 | U | 0.57 | U | 0.55 | U |
| EFH (C15-C20) | 8015B EFH | mg/l | 0.57 | U | 0.57 | U | 0.55 | U |
| EFH (C21-C30) | 8015B EFH | mg/l | 0.57 | U | 0.57 | U | 0.55 | U |
| EFH (C30-C40) | 8015B EFH | mg/l | 0.57 | U | 0.57 | U | 0.55 | U |
| EFH (C8-C11) | 8015B EFH | mg/l | 0.57 | U | 0.57 | U | 0.55 | U |
| ENDOSULFAN I | 8081A | ug/l | 0.25 | UY | 0.25 | UY | 0.25 | UY |
| ENDOSULFAN II | 8081A | ug/l | 0.25 | UY | 0.25 | UY | 0.25 | UY |
| ENDOSULFAN SULFATE | 8081A | ug/l | 0.25 | UY | 0.25 | UY | 0.25 | UY |
| ENDRIN | 8081A | ug/l | 0.25 | UY | 0.25 | UY | 0.25 | UY |
| ENDRIN ALDEHYDE | 8081A | ug/l | 0.25 | UY | 0.25 | UY | 0.25 | UY |
| ENDRIN KETONE | 8081A | ug/l | 0.25 | UY | 0.25 | UY | 0.25 | UY |
| ETHANOL | 8015B | ug/l | 1000 | U | 1000 | U | 1000 | U |
| ETHYLBENZENE | 8260B | ug/l | | | | | | |
| ETHYLENE GLYCOL | 8015M | mg/l | 10 | U | 10 | U | 10 | U |
| FLUORIDE | 300.0 | mg/l | 0.100 | U | 0.100 | U | 0.100 | U |
| FORMALDEHYDE | 8315A | ug/l | 50 | U | 110 | U | 50 | U |
| gamma-BHC (Lindane) | 8081A | ug/l | 0.25 | UY | 0.25 | UY | 0.25 | UY |
| GASOLINE RANGE ORGANICS (C5-C12) | 8015B GRO | ug/l | | | | | | |
| HEPTACHLOR | 8081A | ug/l | 0.25 | UY | 0.25 | UY | 0.25 | UY |
| HEPTACHLOR EPOXIDE | 8081A | ug/l | 0.25 | UY | 0.25 | UY | 0.25 | UY |
| HEXACHLORO-1,3-BUTADIENE | 8260B | ug/l | | | | | | |
| HEXACHLORO-1,3-BUTADIENE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| HEXACHLOROBENZENE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| HEXACHLOROCYCLOPENTADIENE | 8270C | ug/l | 19 | U | 23 | U | 22 | U |
| HEXACHLOROETHANE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| IRON | 6020 | mg/l | 0.100 | U | 0.100 | U | 0.100 | U |
| ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID | 8015B | ug/l | 1000 | U | 1000 | U | 1000 | U |
| Isopropylbenzene | 8260B | ug/l | | | | | | |
| LEAD | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| LITHIUM | 6020 | mg/l | 0.00200 | U | 0.00200 | U | 0.00200 | U |
| M,P-XYLENE | 8260B | ug/l | | | | | | |
| MAGNESIUM | 6020 | mg/l | 0.100 | U | 0.100 | U | 0.100 | U |
| MANGANESE | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| MCPA (2-METHYL-4-CHLOROPHENOXYACETIC ACID) | 8151A | ug/l | 200 | UY | 200 | UY | 200 | UY |
| MCPP | 8151A | ug/l | 200 | UY | 200 | UY | 200 | UY |
| M-DINITROBENZENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| MERCURY | 7470A | mg/l | 0.000500 | U | 0.000500 | U | 0.000500 | U |
| METHANAMINE, N-METHYL-N-NITROSO | 1625C | ng/l | 0.951 | U | 6.67 | | 2.36 | |
| METHANOL | 8015B | ug/l | 1000 | U | 1000 | U | 1000 | U |
| Methoxychlor | 8081A | ug/l | 2.5 | UY | 2.5 | UY | 2.5 | UY |
| METHYL TERT-BUTYL ETHER | 8260B | ug/l | | | | | | |
| METHYLENE CHLORIDE | 8260B | ug/l | | | | | | |
| MIREX | 8081A | ug/l | 0.25 | UY | 0.25 | UY | 0.25 | UY |
| MOLYBDENUM | 6020 | mg/l | 0.00200 | U | 0.00200 | U | 0.00200 | U |
| m-Terphenyl | 8015B | mg/l | 0.24 | U | 0.52 | U | 0.25 | U |
| N-BUTYLBENZENE | 8260B | ug/l | | | | | | |
| NICKEL | 6020 | mg/l | 0.00100 | U | 0.000205 | J | 0.000255 | J |
| Nitrate-NO3 | 300.0 | mg/l | 0.443 | U | 0.443 | U | 0.443 | U |
| Nitrite-NO2 | 300.0 | mg/l | | | | | | |
| NITROBENZENE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| NITROBENZENE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| NITROGLYCERIN | 8332 | ug/l | 250 | U | 250 | U | 250 | U |
| N-NITROSO-DI-N-PROPYLAMINE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| N-NITROSODIPHENYLAMINE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| N-PROPYLBENZENE | 8260B | ug/l | | | | | | |
| OCDD | 1613B | pg/l | 18.8 | U | 20.9 | U | 21.6 | U |
| OCDF | 1613B | pg/l | 18.8 | U | 20.9 | U | 21.6 | U |
| OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| O-TERPHENYL | 8015B | mg/l | 0.24 | U | 0.52 | U | 0.25 | U |
| O-XYLENE | 8260B | ug/l | | | | | | |
| P-CHLOROANILINE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| PENTACHLOROPHENOL | 8270C | ug/l | 19 | U | 23 | U | 22 | U |
| PENTAERYTHRITOL TETRANITRATE | 8332 | ug/l | 250 | U | 250 | U | 250 | U |
| PERCHLORATE | 314.0 | ug/l | 2.00 | U | 2.00 | U | 2.00 | U |
| PH | 9040C | pH unit | 5.61 | | 4.72 | | 5.38 | |
| PHENOL | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| PHOSPHORUS | 6020 | mg/l | 0.0500 | U | 0.0500 | U | 0.0500 | U |
| P-NITROANILINE | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| POTASSIUM | 6020 | mg/l | 0.100 | U | 0.100 | U | 0.100 | U |
| Propylene glycol | 8015M | mg/l | 10 | U | 10 | U | 10 | U |
| p-Terphenyl | 8015B | mg/l | 0.24 | U | 0.52 | U | 0.25 | U |
| RDX | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| SELENIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| SILVER | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| SODIUM | 6020 | mg/l | 0.100 | U | 0.100 | U | 0.100 | U |
| STRONTIUM | 6020 | mg/l | 0.00200 | U | 0.00200 | U | 0.00200 | U |
| STYRENE | 8260B | ug/l | | | | | | |
| TERT-BUTYLBENZENE | 8260B | ug/l | | | | | | |
| TETRACHLOROETHENE | 8260B | ug/l | | | | | | |
| TETRALIN | 8270C | ug/l | 9.7 | U | 11 | U | 11 | U |
| TETRYL | 8330A | ug/l | 1.0 | U | 1.0 | U | 1.0 | U |
| THALLIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| TIN | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| TITANIUM METAL POWDER | 6020 | mg/l | 0.00200 | U | 0.00200 | U | 0.00200 | U |
| TOLUENE | 8260B | ug/l | | | | | | |
| TOTAL EFH(C8-C40) | 8015B EFH | mg/l | 0.57 | U | 0.57 | U | 0.55 | U |
| Toxaphene | 8081A | ug/l | 5.25 | UY | 5.25 | UY | 5.25 | UY |
| TRANS-1,2-DICHLOROETHENE | 8260B | ug/l | | | | | | |
| TRANS-1,3-DICHLOROPROPENE | 8260B | ug/l | | | | | | |
| TRICHLOROETHENE | 8260B | ug/l | | | | | | |
| TRICHLOROFLUOROMETHANE | 8260B | ug/l | | | | | | |
| VANADIUM (FUME OR DUST) | 6020 | mg/l | 0.00100 | U | 0.00100 | U | 0.00100 | U |
| VINYL CHLORIDE | 8260B | ug/l | | | | | | |
| ZINC | 6020 | mg/l | 0.0200 | U | 0.0200 | U | 0.0200 | U |
| ZIRCONIUM | 6020 | mg/l | 0.00500 | U | 0.00500 | U | 0.00500 | U |

ug/L - microgram per liter
mg/L - milligram per liter
ng/L - nanogram per liter
pg/L - picogram per liter
U - Compound not detected above the reporting limit
(a) Some SVOC results had two values - one for SVOC and one for SVOC SIM. The validators used the value with the lowest detection limit for validation purposes.

Table C-2 - NBZ Equipment Rinsate Samples

| | | Sample Name: | EB-NBZ-SS-042312 | |
|---|---|---|---|---|
| | | Location: | EB-NBZ | |
| | | Sample Date: | 04/23/2012 | |
| | | Sample Type | EB | |
| Analyte | Analytic Method | Units | Concentration | Final Qualifer |
| 1,1,1,2-TETRACHLOROETHANE | 8260B | ug/l | | |
| 1,1,1-TRICHLOROETHANE | 8260B | ug/l | | |
| 1,1,2,2-TETRACHLOROETHANE | 8260B | ug/l | | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 8260B | ug/l | | |
| 1,1,2-TRICHLOROETHANE | 8260B | ug/l | | |
| 1,1-DICHLOROETHANE | 8260B | ug/l | | |
| 1,1-DICHLOROETHENE | 8260B | ug/l | | |
| 1,1-Dichloropropene | 8260B | ug/l | | |
| 1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 10.3 | U |
| 1,2,3,4,6,7,8-HPCDF | 1613B | pg/l | 10.3 | U |
| 1,2,3,4,7,8,9-HPCDF | 1613B | pg/l | 10.3 | U |
| 1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 10.3 | U |
| 1,2,3,4,7,8-HXCDF | 1613B | pg/l | 10.3 | U |
| 1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 10.3 | U |
| 1,2,3,6,7,8-HXCDF | 1613B | pg/l | 10.3 | U |
| 1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 10.3 | U |
| 1,2,3,7,8,9-HXCDF | 1613B | pg/l | 10.3 | U |
| 1,2,3,7,8-PENTACHLORODIBENZOFURAN | 1613B | pg/l | 10.3 | U |
| 1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | 10.3 | U |
| 1,2,3-TRICHLOROBENZENE | 8260B | ug/l | | |
| 1,2,3-Trichloropropane | 8260B | ug/l | | |
| 1,2,4-TRICHLOROBENZENE | 8260B | ug/l | | |
| 1,2,4-TRICHLOROBENZENE | 8270C | ug/l | 10 | U |
| 1,2,4-TRIMETHYLBENZENE | 8260B | ug/l | | |
| 1,2-Dibromo-3-Chloropropane | 8260B | ug/l | | |
| 1,2-DIBROMOETHANE | 8260B | ug/l | | |
| 1,2-DICHLOROBENZENE | 8260B | ug/l | | |
| 1,2-DICHLOROBENZENE | 8270C | ug/l | 10 | U |
| 1,2-DICHLOROETHANE | 8260B | ug/l | | |
| 1,2-DICHLOROPROPANE | 8260B | ug/l | | |
| 1,2-DIPHENYLHYDRAZINE | 8270C | ug/l | 10 | U |
| 1,3,5-Trimethylbenzene | 8260B | ug/l | | |
| 1,3,5-TRINITROBENZENE | 8330A | ug/l | | |
| 1,3-DICHLOROBENZENE | 8260B | ug/l | | |
| 1,3-DICHLOROBENZENE | 8270C | ug/l | 10 | U |
| 1,3-DICHLOROPROPANE | 8260B | ug/l | | |
| 1,4-DICHLOROBENZENE | 8260B | ug/l | | |
| 1,4-DICHLOROBENZENE | 8270C | ug/l | 10 | U |
| 1,4-DIOXANE | 8260B SIM | ug/l | | |
| 2,2-DICHLOR0PROPIONIC ACID | 8151A | ug/l | 1.6 | UY |
| 2,2-DICHLOROPROPANE | 8260B | ug/l | | |
| 2,3,4,6,7,8-HXCDF | 1613B | pg/l | 10.3 | U |
| 2,3,4,7,8-PECDF | 1613B | pg/l | 10.3 | U |
| 2,3,7,8-TCDD | 1613B | pg/l | 2.07 | U |
| 2,3,7,8-TETRACHLORODIBENZOFURAN | 1613B | pg/l | 2.07 | U |
| 2,4,5-T | 8151A | ug/l | 1.6 | UY |
| 2,4,5-TP (Silvex) | 8151A | ug/l | 1.6 | UY |
| 2,4,5-TRICHLOROPHENOL | 8270C | ug/l | 10 | U |
| 2,4,6-TRICHLOROPHENOL | 8270C | ug/l | 10 | U |
| 2,4,6-TRINITROTOLUENE | 8330A | ug/l | | |
| 2,4-D | 8151A | ug/l | 1.6 | UY |
| 2,4-DB | 8151A | ug/l | 1.6 | UY |
| 2,4-DIAMINO-6-NITROTOLUENE | 8330A | ug/l | | |
| 2,4-DICHLOROPHENOL | 8270C | ug/l | 10 | U |
| 2,4-DIMETHYLPHENOL | 8270C | ug/l | 10 | U |
| 2,4-DINITROPHENOL | 8270C | ug/l | 20 | U |
| 2,4-DINITROTOLUENE | 8270C | ug/l | 10 | U |
| 2,4-DINITROTOLUENE | 8330A | ug/l | | |
| 2,6-Diamino-4-nitrotoluene | 8330A | ug/l | | |
| 2,6-DINITROTOLUENE | 8270C | ug/l | 10 | U |
| 2,6-DINITROTOLUENE | 8330A | ug/l | | |
| 2-AMINO-4,6-DINITROTOLUENE | 8330A | ug/l | | |
| 2-Butanone (MEK) | 8260B | ug/l | | |
| 2-butoxy-Ethanol | 8270C | ug/l | 10 | U |
| 2-Chloro-1,1,1-trifluoroethane | 8260B | ug/l | | |
| 2-CHLOROETHYL VINYL ETHER | 8260B | ug/l | | |
| 2-CHLORONAPHTHALENE | 8270C | ug/l | 10 | U |
| 2-CHLOROPHENOL | 8270C | ug/l | 10 | U |
| 2-CHLOROTOLUENE | 8260B | ug/l | | |
| 2-Hexanone | 8260B | ug/l | | |
| 2-METHYLPHENOL | 8270C | ug/l | 10 | U |
| 2-NITROANILINE | 8270C | ug/l | 10 | U |
| 2-NITROPHENOL | 8270C | ug/l | 10 | U |
| 2-NITROTOLUENE | 8330A | ug/l | | |
| 2-phenoxy-Ethanol | 8270C | ug/l | 10 | U |
| 2-PHENYLBUTANE | 8260B | ug/l | | |
| 3,3'-DICHLOROBENZIDINE | 8270C | ug/l | 10 | U |
| 3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE | 8270C | ug/l | 10 | U |
| 3,5-Dimethylphenol | 8270C | ug/l | 20 | U |
| 3-NITROANILINE | 8270C | ug/l | 10 | U |
| 3-NITROTOLUENE | 8330A | ug/l | | |
| 4,4'-DDD | 8081A | ug/l | 0.25 | UY |
| 4,4'-DDE | 8081A | ug/l | 0.25 | UY |
| 4,4'-DDT | 8081A | ug/l | 0.25 | UY |
| 4,6-DINITRO-2-METHYLPHENOL | 8270C | ug/l | 20 | U |
| 4-AMINO-2,6-DINITROTOLUENE | 8330A | ug/l | | |
| 4-BROMOPHENYL PHENYL ETHER | 8270C | ug/l | 10 | U |
| 4-CHLORO-3-METHYLPHENOL | 8270C | ug/l | 10 | U |
| 4-CHLOROPHENYL PHENYL ETHER | 8270C | ug/l | 10 | U |
| 4-CHLOROTOLUENE | 8260B | ug/l | | |
| 4-Methyl-2-Pentanone (MIBK) | 8260B | ug/l | | |
| 4-METHYLPHENOL | 8270C | ug/l | 10 | U |
| 4-NITROPHENOL | 8270C | ug/l | 20 | U |
| 4-NITROTOLUENE | 8330A | ug/l | | |
| ACETONE | 8260B | ug/l | | |
| ALDRIN | 8081A | ug/l | 0.25 | UY |
| ALPHA-BHC | 8081A | ug/l | 0.25 | UY |
| ALUMINUM (FUME OR DUST) | 6020 | mg/l | 0.100 | U |
| ANILINE | 8270C | ug/l | 20 | U |
| ANTIMONY | 6020 | mg/l | 0.00100 | U |
| Aroclor 1016 | 8082 | ug/l | 2.5 | UY |
| Aroclor 1221 | 8082 | ug/l | 2.5 | UY |
| Aroclor 1232 | 8082 | ug/l | 2.5 | UY |
| Aroclor 1242 | 8082 | ug/l | 2.5 | UY |
| Aroclor 1248 | 8082 | ug/l | 2.5 | UY |
| Aroclor 1254 | 8082 | ug/l | 2.5 | UY |
| Aroclor 1260 | 8082 | ug/l | 2.5 | UY |
| Aroclor 1262 | 8082 | ug/l | 2.5 | UY |
| Aroclor 1268 | 8082 | ug/l | 2.5 | UY |
| Aroclor 5432 | 8082 | ug/l | 5.25 | UY |
| Aroclor 5442 | 8082 | ug/l | 5.25 | UY |
| Aroclor 5460 | 8082 | ug/l | 5.25 | UY |
| ARSENIC | 6020 | mg/l | 0.00100 | U |
| BARIUM | 6020 | mg/l | 0.00100 | U |
| BENZENE | 8260B | ug/l | | |
| BENZIDINE | 8270C | ug/l | 51 | U |
| BENZOIC ACID | 8270C | ug/l | 41 | U |
| BENZYL ALCOHOL | 8270C | ug/l | 10 | U |
| BERYLLIUM | 6020 | mg/l | 0.00100 | U |
| BETA-BHC | 8081A | ug/l | 0.25 | UY |
| BIS(2-CHLOROETHOXY)METHANE | 8270C | ug/l | 10 | U |
| BIS(2-CHLOROETHYL) ETHER | 8270C | ug/l | 10 | U |
| BIS(2-CHLOROISOPROPYL) ETHER | 8270C | ug/l | 10 | U |
| BORON | 6020 | mg/l | 0.0100 | U |
| BROMOBENZENE | 8260B | ug/l | | |
| Bromochloromethane | 8260B | ug/l | | |
| BROMODICHLOROMETHANE | 8260B | ug/l | | |
| BROMOFORM | 8260B | ug/l | | |
| BROMOMETHANE | 8260B | ug/l | | |
| CADMIUM | 6020 | mg/l | 0.00100 | U |
| CALCIUM METAL | 6020 | mg/l | 0.0303 | J |
| CARBAZOLE | 8270C | ug/l | 10 | U |
| CARBON TETRACHLORIDE | 8260B | ug/l | | |

Table C-2 - NBZ Equipment Rinsate Samples

| | | Sample Name: | EB-NBZ-SS-042312 | |
|---|---|---|---|---|
| | | Location: | EB-NBZ | |
| | | Sample Date: | 04/23/2012 | |
| | | Sample Type | EB | |
| Analyte | Analytic Method | Units | Concentration | Final Qualifer |
| Chlordane (technical) | 8081A | ug/l | 2.5 | UY |
| CHLOROBENZENE | 8260B | ug/l | | |
| CHLOROETHANE | 8260B | ug/l | | |
| CHLOROFORM | 8260B | ug/l | | |
| CHLOROMETHANE | 8260B | ug/l | | |
| Chlorotrifluoroethylene | 8260B | ug/l | | |
| CHROMIUM | 6020 | mg/l | 0.00100 | U |
| CHROMIUM (HEXAVALENT COMPOUNDS) | 7199 | ug/l | 0.200 | U |
| CIS-1,2-DICHLOROETHENE | 8260B | ug/l | | |
| CIS-1,3-DICHLOROPROPENE | 8260B | ug/l | | |
| COBALT | 6020 | mg/l | 0.00100 | U |
| COPPER | 6020 | mg/l | 0.000579 | J |
| CYANIDE | 9014 | mg/l | | |
| CYMENE | 8260B | ug/l | | |
| DELTA-BHC | 8081A | ug/l | 0.25 | UY |
| DIBENZOFURAN | 8270C | ug/l | 10 | U |
| DIBROMOCHLOROMETHANE | 8260B | ug/l | | |
| DIBROMOMETHANE | 8260B | ug/l | | |
| DICAMBA | 8151A | ug/l | 1.6 | UY |
| DICHLORODIFLUOROMETHANE | 8260B | ug/l | | |
| DICHLORPROP | 8151A | ug/l | 1.6 | UY |
| DIELDRIN | 8081A | ug/l | 0.25 | UY |
| DIETHYLENE GLYCOL | 8015M | mg/l | | |
| DINITROBUTYL PHENOL | 8151A | ug/l | 1.6 | UY |
| EFH (C12-C14) | 8015B EFH | mg/l | | |
| EFH (C15-C20) | 8015B EFH | mg/l | | |
| EFH (C21-C30) | 8015B EFH | mg/l | | |
| EFH (C30-C40) | 8015B EFH | mg/l | | |
| EFH (C8-C11) | 8015B EFH | mg/l | | |
| ENDOSULFAN I | 8081A | ug/l | 0.25 | UY |
| ENDOSULFAN II | 8081A | ug/l | 0.25 | UY |
| ENDOSULFAN SULFATE | 8081A | ug/l | 0.25 | UY |
| ENDRIN | 8081A | ug/l | 0.25 | UY |
| ENDRIN ALDEHYDE | 8081A | ug/l | 0.25 | UY |
| ENDRIN KETONE | 8081A | ug/l | 0.25 | UY |
| ETHANOL | 8015B | ug/l | | |
| ETHYLBENZENE | 8260B | ug/l | | |
| ETHYLENE GLYCOL | 8015M | mg/l | | |
| FLUORIDE | 300.0 | mg/l | 0.100 | U |
| FORMALDEHYDE | 8315A | ug/l | | |
| gamma-BHC (Lindane) | 8081A | ug/l | 0.25 | UY |
| GASOLINE RANGE ORGANICS (C5-C12) | 8015B GRO | ug/l | | |
| HEPTACHLOR | 8081A | ug/l | 0.25 | UY |
| HEPTACHLOR EPOXIDE | 8081A | ug/l | 0.25 | UY |
| HEXACHLORO-1,3-BUTADIENE | 8260B | ug/l | | |
| HEXACHLORO-1,3-BUTADIENE | 8270C | ug/l | 10 | U |
| HEXACHLOROBENZENE | 8270C | ug/l | 10 | U |
| HEXACHLOROCYCLOPENTADIENE | 8270C | ug/l | 20 | U |
| HEXACHLOROETHANE | 8270C | ug/l | 10 | U |
| IRON | 6020 | mg/l | 0.100 | U |
| ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID | 8015B | ug/l | | |
| Isopropylbenzene | 8260B | ug/l | | |
| LEAD | 6020 | mg/l | 0.000106 | J |
| LITHIUM | 6020 | mg/l | 0.00200 | U |
| M,P-XYLENE | 8260B | ug/l | | |
| MAGNESIUM | 6020 | mg/l | 0.100 | U |
| MANGANESE | 6020 | mg/l | 0.00100 | U |
| MCPA (2-METHYL-4-CHLOROPHENOXYACETIC ACID) | 8151A | ug/l | 200 | UY |
| MCPP | 8151A | ug/l | 200 | UY |
| M-DINITROBENZENE | 8330A | ug/l | | |
| MERCURY | 7470A | mg/l | 0.000500 | U |
| METHANAMINE, N-METHYL-N-NITROSO | 1625C | ng/l | | |
| METHANOL | 8015B | ug/l | | |
| Methoxychlor | 8081A | ug/l | 2.5 | UY |
| METHYL TERT-BUTYL ETHER | 8260B | ug/l | | |
| METHYLENE CHLORIDE | 8260B | ug/l | | |
| MIREX | 8081A | ug/l | 0.25 | UY |
| MOLYBDENUM | 6020 | mg/l | 0.00200 | U |
| m-Terphenyl | 8015B | mg/l | | |
| N-BUTYLBENZENE | 8260B | ug/l | | |
| NICKEL | 6020 | mg/l | 0.00100 | U |
| Nitrate-NO3 | 300.0 | mg/l | | |
| Nitrite-NO2 | 300.0 | mg/l | | |
| NITROBENZENE | 8270C | ug/l | 10 | U |
| NITROBENZENE | 8330A | ug/l | | |
| NITROGLYCERIN | 8332 | ug/l | | |
| N-NITROSO-DI-N-PROPYLAMINE | 8270C | ug/l | 10 | U |
| N-NITROSODIPHENYLAMINE | 8270C | ug/l | 10 | U |
| N-PROPYLBENZENE | 8260B | ug/l | | |
| OCDD | 1613B | pg/l | 20.7 | U |
| OCDF | 1613B | pg/l | 20.7 | U |
| OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE | 8330A | ug/l | | |
| O-TERPHENYL | 8015B | mg/l | | |
| O-XYLENE | 8260B | ug/l | | |
| P-CHLOROANILINE | 8270C | ug/l | 10 | U |
| PENTACHLOROPHENOL | 8270C | ug/l | 20 | U |
| PENTAERYTHRITOL TETRANITRATE | 8332 | ug/l | | |
| PERCHLORATE | 314.0 | ug/l | 2.00 | U |
| PH | 9040C | pH unit | 5.93 | |
| PHENOL | 8270C | ug/l | 10 | U |
| PHOSPHORUS | 6020 | mg/l | 0.0500 | U |
| P-NITROANILINE | 8270C | ug/l | 10 | U |
| POTASSIUM | 6020 | mg/l | 0.100 | U |
| Propylene glycol | 8015M | mg/l | | |
| p-Terphenyl | 8015B | mg/l | | |
| RDX | 8330A | ug/l | | |
| SELENIUM | 6020 | mg/l | 0.00100 | U |
| SILVER | 6020 | mg/l | 0.00100 | U |
| SODIUM | 6020 | mg/l | 0.100 | U |
| STRONTIUM | 6020 | mg/l | 0.00200 | U |
| STYRENE | 8260B | ug/l | | |
| TERT-BUTYLBENZENE | 8260B | ug/l | | |
| TETRACHLOROETHENE | 8260B | ug/l | | |
| TETRALIN | 8270C | ug/l | 10 | U |
| TETRYL | 8330A | ug/l | | |
| THALLIUM | 6020 | mg/l | 0.00100 | U |
| TIN | 6020 | mg/l | 0.00100 | U |
| TITANIUM METAL POWDER | 6020 | mg/l | 0.00200 | U |
| TOLUENE | 8260B | ug/l | | |
| TOTAL EFH(C8-C40) | 8015B EFH | mg/l | | |
| Toxaphene | 8081A | ug/l | 5.25 | UY |
| TRANS-1,2-DICHLOROETHENE | 8260B | ug/l | | |
| TRANS-1,3-DICHLOROPROPENE | 8260B | ug/l | | |
| TRICHLOROETHENE | 8260B | ug/l | | |
| TRICHLOROFLUOROMETHANE | 8260B | ug/l | | |
| VANADIUM (FUME OR DUST) | 6020 | mg/l | 0.00100 | U |
| VINYL CHLORIDE | 8260B | ug/l | | |
| ZINC | 6020 | mg/l | 0.0200 | U |
| ZIRCONIUM | 6020 | mg/l | 0.00500 | U |

ug/L - microgram per liter
mg/L - milligram per liter
ng/L - nanogram per liter
pg/L - picogram per liter
U - Compound not detected above the reporting limit
(a) Some SVOC results had two values - one for SVOC and one for SVOC SIM. The validators used the value with the lowest detection limit for validation purposes.

Table C-3 - NBZ Field Blank Samples

| | | Sample Name: | FB-SA7-110111 | | FB-060512 | |
|---|---|---|---|---|---|---|
| | | Location: | FB-SA7 | | 5C_DG-FB | |
| | | Sample Date: | 11/01/2011 | | 06/05/2012 | |
| | | Sample Type | FB | | FB | |
| Analyte | Analytic Method | Units | Concentration | Final Qualifier | Concentration | Final Qualifier |
| 1,1,1,2-TETRACHLOROETHANE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 1,1,1-TRICHLOROETHANE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 1,1,2,2-TETRACHLOROETHANE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 1,1,2-TRICHLOROETHANE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 1,1'-Biphenyl | 8270C SIM | ug/l | | | 2.2 | U |
| 1,1-DICHLOROETHANE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 1,1-DICHLOROETHENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 1,1-Dichloropropene | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | | | 9.60 | U |
| 1,2,3,4,6,7,8-HPCDF | 1613B | pg/l | | | 9.60 | U |
| 1,2,3,4,7,8,9-HPCDF | 1613B | pg/l | | | 9.60 | U |
| 1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | | | 9.60 | U |
| 1,2,3,4,7,8-HXCDF | 1613B | pg/l | | | 9.60 | U |
| 1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | | | 9.60 | U |
| 1,2,3,6,7,8-HXCDF | 1613B | pg/l | | | 9.60 | U |
| 1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | | | 9.60 | U |
| 1,2,3,7,8,9-HXCDF | 1613B | pg/l | | | 9.60 | U |
| 1,2,3,7,8-PENTACHLORODIBENZOFURAN | 1613B | pg/l | | | 0.142 | J |
| 1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN | 1613B | pg/l | | | 9.60 | U |
| 1,2,3-TRICHLOROBENZENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 1,2,3-Trichloropropane | 8260B | ug/l | 2.0 | U | 2.0 | U |
| 1,2,4-TRICHLOROBENZENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 1,2,4-TRICHLOROBENZENE | 8270C | ug/l | 11 | U | 11 | UJ |
| 1,2,4-TRIMETHYLBENZENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 1,2-BENZPHENANTHRACENE | 8270C | ug/l | 11 | U | | |
| 1,2-BENZPHENANTHRACENE | 8270C SIM | ug/l | | | 0.22 | U |
| 1,2-Dibromo-3-Chloropropane | 8260B | ug/l | 2.0 | U | 2.0 | U |
| 1,2-DIBROMOETHANE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 1,2-DICHLOROBENZENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 1,2-DICHLOROBENZENE | 8270C | ug/l | 11 | U | 11 | UJ |
| 1,2-DICHLOROETHANE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 1,2-DICHLOROPROPANE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 1,2-DIPHENYLHYDRAZINE | 8270C | ug/l | 11 | U | 11 | UJ |
| 1,3,5-Trimethylbenzene | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 1,3,5-TRINITROBENZENE | 8330A | ug/l | 1.0 | U | 0.60 | U |
| 1,3-DICHLOROBENZENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 1,3-DICHLOROBENZENE | 8270C | ug/l | 11 | U | 11 | UJ |
| 1,3-DICHLOROPROPANE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 1,4-DICHLOROBENZENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 1,4-DICHLOROBENZENE | 8270C | ug/l | 11 | U | 11 | UJ |
| 1,4-DIOXANE | 8260B SIM | ug/l | 4.0 | U | 2.0 | U |
| 1-Chlorohexane | 8260B | ug/l | | | 1.0 | U |
| 1-METHYLNAPHTHALENE | 8270C | ug/l | 11 | U | | |
| 1-METHYLNAPHTHALENE | 8270C SIM | ug/l | | | 0.22 | U |
| 2,2-DICHLOR0PROPIONIC ACID | 8151A | ug/l | | | 0.80 | U |
| 2,2-DICHLOROPROPANE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 2,3,4,6,7,8-HXCDF | 1613B | pg/l | | | 9.60 | U |
| 2,3,4,7,8-PECDF | 1613B | pg/l | | | 9.60 | U |
| 2,3,7,8-TCDD | 1613B | pg/l | | | 1.92 | U |
| 2,3,7,8-TETRACHLORODIBENZOFURAN | 1613B | pg/l | | | 0.208 | J |
| 2,4,5-T | 8151A | ug/l | | | 0.80 | U |
| 2,4,5-TP (Silvex) | 8151A | ug/l | | | 0.80 | U |
| 2,4,5-TRICHLOROPHENOL | 8270C | ug/l | 11 | U | 11 | UJ |
| 2,4,6-TRICHLOROPHENOL | 8270C | ug/l | 11 | U | 11 | UJ |
| 2,4,6-TRINITROTOLUENE | 8330A | ug/l | 1.0 | U | 0.60 | U |
| 2,4-D | 8151A | ug/l | | | 0.80 | U |
| 2,4-DB | 8151A | ug/l | | | 0.80 | U |
| 2,4-DIAMINO-6-NITROTOLUENE | 8330A | ug/l | 2.0 | U | 2.0 | U |
| 2,4-DICHLOROPHENOL | 8270C | ug/l | 11 | U | 11 | UJ |
| 2,4-DIMETHYLPHENOL | 8270C | ug/l | 11 | U | 11 | UJ |
| 2,4-DINITROPHENOL | 8270C | ug/l | 22 | U | 21 | UJ |
| 2,4-DINITROTOLUENE | 8270C | ug/l | 11 | U | | |
| 2,4-DINITROTOLUENE | 8330A | ug/l | 1.0 | U | 0.60 | U |
| 2,6-Diamino-4-nitrotoluene | 8330A | ug/l | 2.0 | U | 2.0 | U |
| 2,6-DICHLOROPHENOL | 8270C | ug/l | | | 11 | UJ |
| 2,6-DINITROTOLUENE | 8270C | ug/l | 11 | U | | |
| 2,6-DINITROTOLUENE | 8330A | ug/l | 1.0 | U | 0.60 | U |
| 2-AMINO-4,6-DINITROTOLUENE | 8330A | ug/l | 1.0 | U | 0.60 | U |
| 2-Butanone (MEK) | 8260B | ug/l | 10 | U | 10 | U |
| 2-butoxy-Ethanol | 8270C | ug/l | 11 | U | 11 | UJ |
| 2-Chloro-1,1,1-trifluoroethane | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 2-CHLOROETHYL VINYL ETHER | 8260B | ug/l | 2.0 | U | 2.0 | U |
| 2-CHLORONAPHTHALENE | 8270C | ug/l | 11 | U | 11 | UJ |
| 2-CHLOROPHENOL | 8270C | ug/l | 11 | U | 11 | UJ |
| 2-CHLOROTOLUENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 2-Hexanone | 8260B | ug/l | 10 | U | 10 | U |
| 2-METHYLNAPHTHALENE | 8270C | ug/l | 11 | U | | |
| 2-METHYLNAPHTHALENE | 8270C SIM | ug/l | | | 0.22 | U |
| 2-METHYLPHENOL | 8270C | ug/l | 11 | U | 11 | UJ |
| 2-NITROANILINE | 8270C | ug/l | 11 | U | 11 | UJ |
| 2-NITROPHENOL | 8270C | ug/l | 11 | U | 11 | UJ |
| 2-NITROTOLUENE | 8330A | ug/l | 1.0 | U | 0.60 | U |
| 2-phenoxy-Ethanol | 8270C | ug/l | 11 | U | 11 | UJ |
| 2-PHENYLBUTANE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 3,3'-DICHLOROBENZIDINE | 8270C | ug/l | 11 | U | 11 | UJ |
| 3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE | 8270C | ug/l | 11 | U | 11 | UJ |
| 3,5-Dimethylphenol | 8270C | ug/l | 22 | U | 21 | UJ |
| 3-NITROANILINE | 8270C | ug/l | 11 | U | 11 | UJ |
| 3-NITROTOLUENE | 8330A | ug/l | 1.0 | U | 0.60 | U |
| 4,4'-DDD | 8081A | ug/l | | | 0.10 | U |
| 4,4'-DDE | 8081A | ug/l | | | 0.10 | U |
| 4,4'-DDT | 8081A | ug/l | | | 0.10 | U |
| 4,6-DINITRO-2-METHYLPHENOL | 8270C | ug/l | 22 | U | 21 | UJ |
| 4-AMINO-2,6-DINITROTOLUENE | 8330A | ug/l | 1.0 | U | 0.60 | U |
| 4-BROMOPHENYL PHENYL ETHER | 8270C | ug/l | 11 | U | 11 | UJ |
| 4-CHLORO-3-METHYLPHENOL | 8270C | ug/l | 11 | U | 11 | UJ |
| 4-CHLOROPHENYL PHENYL ETHER | 8270C | ug/l | 11 | U | 11 | U |
| 4-CHLOROTOLUENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| 4-Methyl-2-Pentanone (MIBK) | 8260B | ug/l | 10 | U | 10 | U |
| 4-METHYLPHENOL | 8270C | ug/l | 11 | U | 11 | UJ |
| 4-NITROPHENOL | 8270C | ug/l | 22 | U | 21 | UJ |
| 4-NITROTOLUENE | 8330A | ug/l | 1.0 | U | 0.60 | U |
| ACENAPHTHENE | 8270C | ug/l | 11 | U | | |
| ACENAPHTHENE | 8270C SIM | ug/l | | | 0.22 | U |
| ACENAPHTHYLENE | 8270C | ug/l | 11 | U | | |
| ACENAPHTHYLENE | 8270C SIM | ug/l | | | 0.22 | U |
| ACETONE | 8260B | ug/l | 10 | U | 26 | |
| ACROLEIN | 8260B | ug/l | | | 10 | U |
| ACRYLONITRILE | 8260B | ug/l | | | 10 | U |
| ALDRIN | 8081A | ug/l | | | 0.10 | U |
| ALPHA-BHC | 8081A | ug/l | | | 0.10 | U |
| ALUMINUM (FUME OR DUST) | 6020 | mg/l | 0.100 | U | 0.0270 | J |
| ANILINE | 8270C | ug/l | 22 | U | 21 | UJ |
| ANTHRACENE | 8270C | ug/l | 11 | U | | |
| ANTHRACENE | 8270C SIM | ug/l | | | 0.22 | U |
| ANTIMONY | 6020 | mg/l | 0.00100 | U | 0.00100 | U |
| Aroclor 1016 | 8082 | ug/l | 1.1 | U | 1.0 | U |
| Aroclor 1221 | 8082 | ug/l | 1.1 | U | 1.0 | U |
| Aroclor 1232 | 8082 | ug/l | 1.1 | U | 1.0 | U |
| Aroclor 1242 | 8082 | ug/l | 1.1 | U | 1.0 | U |
| Aroclor 1248 | 8082 | ug/l | 1.1 | U | 1.0 | U |
| Aroclor 1254 | 8082 | ug/l | 1.1 | U | 1.0 | U |
| Aroclor 1260 | 8082 | ug/l | 1.1 | U | 1.0 | U |
| Aroclor 1262 | 8082 | ug/l | 1.1 | U | 1.0 | U |
| Aroclor 1268 | 8082 | ug/l | 1.1 | U | 1.0 | U |
| Aroclor 5432 | 8082 | ug/l | 2.2 | U | 2.0 | U |
| Aroclor 5442 | 8082 | ug/l | 2.2 | U | 2.0 | U |
| Aroclor 5460 | 8082 | ug/l | 2.2 | U | 2.0 | U |
| ARSENIC | 6020 | mg/l | 0.00100 | U | 0.00100 | U |
| AZOBENZENE | 8270C SIM | ug/l | | | 1.1 | U |
| BARIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U |
| BENZENE | 8260B | ug/l | 1.0 | U | 1.0 | U |

Table C-3 - NBZ Field Blank Samples

| | | Sample Name: | FB-SA7-110111 | | FB-060512 | |
|---|---|---|---|---|---|---|
| | | Location: | FB-SA7 | | 5C_DG-FB | |
| | | Sample Date: | 11/01/2011 | | 06/05/2012 | |
| | | Sample Type | FB | | FB | |
| Analyte | Analytic Method | Units | Concentration | Final Qualifier | Concentration | Final Qualifier |
| BENZIDINE | 8270C | ug/l | 54 | U | 53 | UJ |
| BENZO(A)ANTHRACENE | 8270C | ug/l | 11 | U | | |
| BENZO(A)ANTHRACENE | 8270C SIM | ug/l | | | 0.22 | U |
| BENZO(A)PYRENE | 8270C | ug/l | 11 | U | | |
| BENZO(A)PYRENE | 8270C SIM | ug/l | | | 0.22 | U |
| BENZO(B)FLUORANTHENE | 8270C | ug/l | 11 | U | | |
| BENZO(B)FLUORANTHENE | 8270C SIM | ug/l | | | 0.22 | U |
| Benzo(e)pyrene | 8270C SIM | ug/l | | | 0.22 | U |
| BENZO(G,H,I)PERYLENE | 8270C | ug/l | 11 | U | | |
| BENZO(G,H,I)PERYLENE | 8270C SIM | ug/l | | | 0.22 | U |
| BENZO(K)FLUORANTHENE | 8270C | ug/l | 11 | U | | |
| BENZO(K)FLUORANTHENE | 8270C SIM | ug/l | | | 0.22 | U |
| BENZOIC ACID | 8270C | ug/l | 44 | U | 42 | UJ |
| BENZYL ALCOHOL | 8270C | ug/l | 11 | U | 11 | UJ |
| BENZYL BUTYL PHTHALATE | 8270C | ug/l | 11 | U | 11 | UJ |
| BERYLLIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U |
| BETA-BHC | 8081A | ug/l | | | 0.10 | U |
| BIS(2-CHLOROETHOXY)METHANE | 8270C | ug/l | 11 | U | 11 | UJ |
| BIS(2-CHLOROETHYL) ETHER | 8270C | ug/l | 11 | U | 11 | UJ |
| BIS(2-CHLOROISOPROPYL) ETHER | 8270C | ug/l | 11 | U | 11 | UJ |
| BIS(2-ETHYLHEXYL)PHTHALATE | 8270C | ug/l | 22 | U | 21 | UJ |
| BORON | 6020 | mg/l | 0.0100 | U | 0.0100 | U |
| BROMOBENZENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| Bromochloromethane | 8260B | ug/l | 1.0 | U | 1.0 | U |
| BROMODICHLOROMETHANE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| BROMOFORM | 8260B | ug/l | 1.0 | U | 1.0 | U |
| BROMOMETHANE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| CADMIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U |
| CALCIUM METAL | 6020 | mg/l | 0.100 | U | 0.0263 | J |
| CARBAZOLE | 8270C | ug/l | 11 | U | 11 | UJ |
| CARBON DISULFIDE | 8260B | ug/l | | | 1.0 | U |
| CARBON TETRACHLORIDE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| Chlordane (technical) | 8081A | ug/l | | | 1.0 | U |
| CHLOROBENZENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| CHLOROETHANE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| CHLOROFORM | 8260B | ug/l | 2.7 | | 1.0 | U |
| CHLOROMETHANE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| Chlorotrifluoroethylene | 8260B | ug/l | 1.0 | U | 1.0 | U |
| CHROMIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U |
| CHROMIUM (HEXAVALENT COMPOUNDS) | 7199 | ug/l | 0.200 | UJ | 0.200 | U |
| CIS-1,2-DICHLOROETHENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| CIS-1,3-DICHLOROPROPENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| COBALT | 6020 | mg/l | 0.00100 | U | 0.00100 | U |
| COPPER | 6020 | mg/l | 0.00100 | U | 0.000954 | J |
| CYANIDE | 9014 | mg/l | 0.0100 | U | | |
| CYMENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| DELTA-BHC | 8081A | ug/l | | | 0.10 | U |
| DIBENZO(A,H)ANTHRACENE | 8270C | ug/l | 11 | U | | |
| DIBENZO(A,H)ANTHRACENE | 8270C SIM | ug/l | | | 0.22 | U |
| DIBENZOFURAN | 8270C | ug/l | 11 | U | 11 | UJ |
| DIBROMOCHLOROMETHANE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| DIBROMOMETHANE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| DICAMBA | 8151A | ug/l | | | 0.80 | U |
| DICHLORODIFLUOROMETHANE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| DICHLORPROP | 8151A | ug/l | | | 0.80 | U |
| DIELDRIN | 8081A | ug/l | | | 0.10 | U |
| DIETHYL PHTHALATE | 8270C | ug/l | 11 | U | 11 | UJ |
| DIETHYLENE GLYCOL | 8015M | mg/l | 10 | U | 10 | U |
| DIISOPROPYL ETHER | 8260B | ug/l | | | 1.0 | U |
| DIMETHYL PHTHALATE | 8270C | ug/l | 11 | U | 11 | UJ |
| Di-n-butylphthalate | 8270C | ug/l | 11 | U | 11 | UJ |
| DINITROBUTYL PHENOL | 8151A | ug/l | | | 0.80 | U |
| Di-n-octylphthalate | 8270C | ug/l | 11 | U | 11 | UJ |
| EFH (C12-C14) | 8015B EFH | mg/l | 0.52 | U | 0.11 | U |
| EFH (C15-C20) | 8015B EFH | mg/l | 0.52 | U | 0.11 | U |
| EFH (C21-C30) | 8015B EFH | mg/l | 0.52 | U | 0.11 | U |
| EFH (C30-C40) | 8015B EFH | mg/l | 0.52 | U | 0.11 | U |
| EFH (C8-C11) | 8015B EFH | mg/l | 0.52 | U | 0.11 | U |
| ENDOSULFAN I | 8081A | ug/l | | | 0.10 | U |
| ENDOSULFAN II | 8081A | ug/l | | | 0.10 | U |
| ENDOSULFAN SULFATE | 8081A | ug/l | | | 0.10 | U |
| ENDRIN | 8081A | ug/l | | | 0.10 | U |
| ENDRIN ALDEHYDE | 8081A | ug/l | | | 0.10 | U |
| ENDRIN KETONE | 8081A | ug/l | | | 0.10 | U |
| ETHANOL | 8015B | ug/l | 1000 | U | 1000 | U |
| ETHYLBENZENE | 8260B | ug/l | 1.4 | | 1.0 | U |
| ETHYLENE GLYCOL | 8015M | mg/l | 10 | U | 10 | U |
| FLUORANTHENE | 8270C | ug/l | 11 | U | | |
| FLUORANTHENE | 8270C SIM | ug/l | | | 0.22 | U |
| FLUORENE | 8270C | ug/l | 11 | U | | |
| FLUORENE | 8270C SIM | ug/l | | | 0.22 | U |
| FLUORIDE | 300.0 | mg/l | 0.100 | U | | |
| FORMALDEHYDE | 8315A | ug/l | | | 12 | J |
| gamma-BHC (Lindane) | 8081A | ug/l | | | 0.10 | U |
| GASOLINE RANGE ORGANICS (C5-C12) | 8015B GRO | ug/l | 50 | U | 49 | J |
| HEPTACHLOR | 8081A | ug/l | | | 0.10 | U |
| HEPTACHLOR EPOXIDE | 8081A | ug/l | | | 0.10 | U |
| HEXACHLORO-1,3-BUTADIENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| HEXACHLORO-1,3-BUTADIENE | 8270C | ug/l | 11 | U | 11 | UJ |
| HEXACHLOROBENZENE | 8270C | ug/l | 11 | U | 11 | UJ |
| HEXACHLOROCYCLOPENTADIENE | 8270C | ug/l | 22 | U | 21 | UJ |
| HEXACHLOROETHANE | 8270C | ug/l | 11 | U | 11 | UJ |
| INDENO(1,2,3-CD)PYRENE | 8270C | ug/l | 11 | U | | |
| INDENO(1,2,3-CD)PYRENE | 8270C SIM | ug/l | | | 0.22 | U |
| IRON | 6020 | mg/l | 0.100 | U | 0.100 | U |
| ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID | 8015B | ug/l | 1000 | U | 1000 | U |
| Isopropylbenzene | 8260B | ug/l | 1.0 | U | 1.0 | U |
| LEAD | 6020 | mg/l | 0.00100 | U | 0.00100 | U |
| LITHIUM | 6020 | mg/l | 0.00200 | U | 0.00200 | U |
| M,P-XYLENE | 8260B | ug/l | 5.7 | | 2.0 | U |
| MAGNESIUM | 6020 | mg/l | 0.100 | U | 0.100 | U |
| MANGANESE | 6020 | mg/l | 0.00100 | U | 0.00100 | U |
| MCPA (2-METHYL-4-CHLOROPHENOXYACETIC ACID) | 8151A | ug/l | | | 100 | U |
| MCPP | 8151A | ug/l | | | 100 | U |
| M-DINITROBENZENE | 8330A | ug/l | 1.0 | U | 0.60 | U |
| MERCURY | 7470A | mg/l | 0.000500 | U | 0.000500 | U |
| METHANAMINE, N-METHYL-N-NITROSO | 8270C | ug/l | 11 | U | | |
| METHANAMINE, N-METHYL-N-NITROSO | 8270C SIM | ug/l | | | 1.1 | U |
| METHANOL | 8015B | ug/l | 1000 | U | 1000 | U |
| Methoxychlor | 8081A | ug/l | | | 1.0 | U |
| Methyl Iodide | 8260B | ug/l | | | 1.0 | U |
| METHYL TERT-BUTYL ETHER | 8260B | ug/l | 1.0 | U | 1.0 | U |
| METHYLENE CHLORIDE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| MIREX | 8081A | ug/l | | | 0.10 | U |
| MOLYBDENUM | 6020 | mg/l | 0.00200 | U | 0.00200 | U |
| m-Terphenyl | 8015B | mg/l | | | 0.26 | U |
| NAPHTHALENE | 8270C | ug/l | 11 | U | | |
| NAPHTHALENE | 8270C SIM | ug/l | | | 0.22 | U |
| N-BUTYLBENZENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| NICKEL | 6020 | mg/l | 0.00100 | U | 0.00100 | U |
| Nitrate-NO3 | 300.0 | mg/l | 0.443 | U | | |
| NITROBENZENE | 8270C | ug/l | 11 | U | 11 | UJ |
| NITROBENZENE | 8330A | ug/l | 1.0 | U | 0.60 | U |
| NITROGLYCERIN | 8332 | ug/l | 250 | U | 250 | U |
| N-NITROSO-DI-N-PROPYLAMINE | 8270C | ug/l | 11 | U | 11 | UJ |
| N-NITROSODIPHENYLAMINE | 8270C | ug/l | 11 | U | 11 | UJ |
| N-PROPYLBENZENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| OCDD | 1613B | pg/l | | | 19.2 | U |
| OCDF | 1613B | pg/l | | | 19.2 | U |
| OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE | 8330A | ug/l | 1.0 | U | 0.60 | U |
| O-TERPHENYL | 8015B | mg/l | | | 0.26 | U |
| O-XYLENE | 8260B | ug/l | 2.6 | | 1.0 | U |
| P-CHLOROANILINE | 8270C | ug/l | 11 | U | 11 | UJ |

Table C-3 - NBZ Field Blank Samples

| | | Sample Name: | FB-SA7-110111 | | FB-060512 | |
|---|---|---|---|---|---|---|
| | | Location: | FB-SA7 | | 5C_DG-FB | |
| | | Sample Date: | 11/01/2011 | | 06/05/2012 | |
| | | Sample Type | FB | | FB | |
| Analyte | Analytic Method | Units | Concentration | Final Qualifier | Concentration | Final Qualifier |
| PENTACHLOROPHENOL | 8270C | ug/l | 22 | U | 21 | UJ |
| PENTAERYTHRITOL TETRANITRATE | 8332 | ug/l | 250 | U | 250 | U |
| PERCHLORATE | 314.0 | ug/l | 2.00 | U | | |
| PERCHLORATE | 6850 | ug/l | | | 0.200 | U |
| PH | 9040C | pH unit | 5.77 | | 5.70 | |
| PHENANTHRENE | 8270C | ug/l | 11 | U | | |
| PHENANTHRENE | 8270C SIM | ug/l | | | 0.22 | U |
| PHENOL | 8270C | ug/l | 11 | U | 11 | UJ |
| PHOSPHORUS | 6020 | mg/l | 0.0500 | U | 0.0500 | U |
| P-NITROANILINE | 8270C | ug/l | 11 | U | 11 | UJ |
| POTASSIUM | 6020 | mg/l | 0.100 | U | 0.100 | U |
| Propylene glycol | 8015M | mg/l | 10 | U | 10 | U |
| p-Terphenyl | 8015B | mg/l | | | 0.26 | U |
| PYRENE | 8270C | ug/l | 11 | U | | |
| PYRENE | 8270C SIM | ug/l | | | 0.22 | U |
| RDX | 8330A | ug/l | 1.0 | U | 0.60 | U |
| SELENIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U |
| SILVER | 6020 | mg/l | 0.00100 | U | 0.00100 | U |
| SODIUM | 6020 | mg/l | 0.100 | U | 0.100 | U |
| STRONTIUM | 6020 | mg/l | 0.00200 | U | 0.00200 | U |
| STYRENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| Tert-Amyl-Methyl-Ether | 8260B | ug/l | | | 1.0 | U |
| TERT-BUTYL ALCOHOL | 8260B | ug/l | | | 10 | U |
| tert-Butyl ethyl ether | 8260B | ug/l | | | 1.0 | U |
| TERT-BUTYLBENZENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| TETRACHLOROETHENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| TETRALIN | 8270C | ug/l | 11 | U | 11 | UJ |
| TETRYL | 8330A | ug/l | 1.0 | U | 0.60 | U |
| THALLIUM | 6020 | mg/l | 0.00100 | U | 0.00100 | U |
| TIN | 6020 | mg/l | 0.00100 | U | 0.00100 | U |
| TITANIUM METAL POWDER | 6020 | mg/l | 0.00200 | U | 0.00200 | U |
| TOLUENE | 8260B | ug/l | 5.5 | | 1.0 | U |
| Toxaphene | 8081A | ug/l | | | 2.0 | U |
| TRANS-1,2-DICHLOROETHENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| TRANS-1,3-DICHLOROPROPENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| TRICHLOROETHENE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| TRICHLOROFLUOROMETHANE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| VANADIUM (FUME OR DUST) | 6020 | mg/l | 0.00100 | U | 0.00100 | U |
| VINYL ACETATE | 8260B | ug/l | | | 1.0 | U |
| VINYL CHLORIDE | 8260B | ug/l | 1.0 | U | 1.0 | U |
| ZINC | 6020 | mg/l | 0.0200 | U | 0.0200 | U |
| ZIRCONIUM | 6020 | mg/l | 0.00500 | U | 0.00500 | U |

ug/L - microgram per liter
mg/L - milligram per liter
ng/L - nanogram per liter
pg/L - picogram per liter
U - Compound not detected above the reporting limit
(a) Some SVOC results had two values - one for SVOC and one for SVOC SIM. The validators used the value with the lowest detection limit for validation purposes.

Table C-4 - NBZ Trip Blank Samples

| | | | Sample Name: | | TB-031212 | | TB-031312 | | TB-031412 | | TB-031512 | | TB-031612 | | TB-031912 | | TB-032012 | | TB-032112 | | TB-032212 | | TB-032312 | | TB-032612 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Location: | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Sample Date: | | 03/12/2012 | | 03/13/2012 | | 03/14/2012 | | 03/15/2012 | | 03/16/2012 | | 03/19/2012 | | 03/20/2012 | | 03/21/2012 | | 03/22/2012 | | 03/23/2012 | | 03/26/2012 | |
| | | | Sample Type | | TB | | TB | | TB | | TB | | TB | | TB | | TB | | TB | | TB | | TB | | TB | |
| Analyte | Analytic Method | Units | | | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer |
| 1,1,1,2-Tetrachloroethane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,2-Trichloroethane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloropropene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2,3-Trichlorobenzene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2,3-Trichloropropane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2-Dibromoethane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2-Dichloroethane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2-Dichloropropane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,3,5-Trimethylbenzene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,3-Dichlorobenzene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,3-Dichloropropane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,4-Dichlorobenzene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,4-Dioxane | 8260B SIM | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,2-Dichloropropane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Butanone (MEK) | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Chloro-1,1,1-trifluoroethane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Chloroethyl Vinyl Ether | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Chlorotoluene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Hexanone | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Phenylbutane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Chlorotoluene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Acetone | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Bromobenzene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Bromochloromethane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Bromodichloromethane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Bromoform | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Bromomethane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Carbon Tetrachloride | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Chlorobenzene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloroethane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloroform | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloromethane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Chlorotrifluoroethylene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| cis-1,2-Dichloroethene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| cis-1,3-Dichloropropene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Cymene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Dibromochloromethane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Dibromomethane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Dichlorodifluoromethane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethylbenzene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Gasoline Range Organics (C5-C12) | 8015B GRO | µg/L | 20 | J | 17 | J | 20 | J | 34 | J | 42 | J | 31 | J | 26 | J | 59 | U | 18 | J | 26 | J | 27 | J | | |
| Hexachloro-1,3-butadiene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Isopropylbenzene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| m,p-Xylene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Methyl Tert-Butyl Ether | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Methylene Chloride | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| n-Butylbenzene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| n-Propylbenzene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| o-Xylene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Styrene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| tert-Butylbenzene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Tetrachloroethene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Toluene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| trans-1,2-Dichloroethene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| trans-1,3-Dichloropropene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Trichloroethene | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Trichlorofluoromethane | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |
| Vinyl Chloride | 8260B | µg/L | | | | | | | | | | | | | | | | | | | | | | | | |

ug/L - microgram per liter

U - Compound not detected above the reporting limit

J - Estimated Value

Table C-4 - NBZ Trip Blank Samples

| | Sample Name: | TB-032712 | | TB-032812 | | TB-032912 | | TB-040312 | | TB-040412 | | TB-041812 | | TB-041912 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Location: | | | | | | | | | | | | | | |
| | Sample Date: | 03/27/2012 | | 03/28/2012 | | 03/29/2012 | | 04/03/2012 | | 04/04/2012 | | 04/18/2012 | | 04/19/2012 | |
| | Sample Type | TB | | TB | | TB | | TB | | TB | | TB | | TB | |
| Analyte | Analytic Method | Units | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer | Concentration | Final Qualifer |
| 1,1,1,2-Tetrachloroethane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 1,1,1-Trichloroethane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 1,1,2,2-Tetrachloroethane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 1,1,2-Trichloroethane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 1,1-Dichloroethane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 1,1-Dichloroethene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 1,1-Dichloropropene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 1,2,3-Trichlorobenzene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 1,2,3-Trichloropropane | 8260B | µg/L | 2 | U | | | | | | | 2 | U | | | 2 | U |
| 1,2,4-Trichlorobenzene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 1,2,4-Trimethylbenzene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 1,2-Dibromo-3-chloropropane | 8260B | µg/L | 2 | U | | | | | | | 2 | U | | | 2 | U |
| 1,2-Dibromoethane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 1,2-Dichlorobenzene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 1,2-Dichloroethane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 1,2-Dichloropropane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 1,3,5-Trimethylbenzene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 1,3-Dichlorobenzene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 1,3-Dichloropropane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 1,4-Dichlorobenzene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 1,4-Dioxane | 8260B SIM | µg/L | 4 | U | | | | | | | 4 | U | | | 4 | U |
| 2,2-Dichloropropane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 2-Butanone (MEK) | 8260B | µg/L | 10 | U | | | | | | | 10 | U | | | 10 | U |
| 2-Chloro-1,1,1-trifluoroethane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 2-Chloroethyl Vinyl Ether | 8260B | µg/L | 2 | U | | | | | | | 2 | U | | | 2 | U |
| 2-Chlorotoluene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 2-Hexanone | 8260B | µg/L | 10 | U | | | | | | | 10 | U | | | 10 | U |
| 2-Phenylbutane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 4-Chlorotoluene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| 4-Methyl-2-pentanone (MIBK) | 8260B | µg/L | 10 | U | | | | | | | 10 | U | | | 10 | U |
| Acetone | 8260B | µg/L | 10 | U | | | | | | | 10 | U | | | 10 | U |
| Benzene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Bromobenzene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Bromochloromethane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Bromodichloromethane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Bromoform | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Bromomethane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Carbon Tetrachloride | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Chlorobenzene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Chloroethane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Chloroform | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Chloromethane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Chlorotrifluoroethylene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| cis-1,2-Dichloroethene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| cis-1,3-Dichloropropene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Cymene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Dibromochloromethane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Dibromomethane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Dichlorodifluoromethane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Ethylbenzene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Gasoline Range Organics (C5-C12) | 8015B GRO | µg/L | 24 | J | 60 | | 15 | J | 27 | J | 19 | J | 37 | J | 14 | J |
| Hexachloro-1,3-butadiene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Isopropylbenzene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| m,p-Xylene | 8260B | µg/L | 2 | U | | | | | | | 2 | U | | | 2 | U |
| Methyl Tert-Butyl Ether | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Methylene Chloride | 8260B | µg/L | 0.53 | J | | | | | | | 1 | U | | | 1 | U |
| n-Butylbenzene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| n-Propylbenzene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| o-Xylene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Styrene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| tert-Butylbenzene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Tetrachloroethene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Toluene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| trans-1,2-Dichloroethene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| trans-1,3-Dichloropropene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Trichloroethene | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Trichlorofluoromethane | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |
| Vinyl Chloride | 8260B | µg/L | 1 | U | | | | | | | 1 | U | | | 1 | U |

ug/L - microgram per liter

U - Compound not detected above the reporting limit

J - Estimated Value

**Table C-5 - NBZ Field Duplicate Results**

| | | | | Location | SL-009-NBZ | | SL-009-NBZ | | RPD | SL-040-NBZ | | SL-040-NBZ | | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Name: | DUP-07-NBZ-QC-041012 | | SL-009-NBZ-SS-0.0-0.5 | | | DUP-03-NBZ-QC-032812 | | SL-040-NBZ-SB-2.5-3.5 | | |
| | | | | Sample Date: | 04/10/2012 | | 04/10/2012 | | | 03/28/2012 | | 03/28/2012 | | |
| | | | | Start Depth: | 0 | | 0 | | | 2.5 | | 2.5 | | |
| | | | | End Depth: | 0.5 | | 0.5 | | | 3.5 | | 3.5 | | |
| | | | | Area: | NBZ | | NBZ | | | NBZ | | NBZ | | |
| | | | | Matrix: | SO | | SO | | | SO | | SO | | |
| | | | | Sample Type: | FD | | N | | | FD | | N | | |
| MAG: | Chemical Name: | CAS No.: | Lab Method: | Result Unit | Result | Final Qualifiers | Result | Final Qualifiers | | Result | Final Qualifiers | Result | Final Qualifiers | |
| SSFL_VAL_Report_Inorganic | Aluminum | 7429-90-5 | 6020 | mg/kg | 9530 | | 10500 | | 9.69 | 8650 | J | 9610 | J | 10.51 |
| SSFL_VAL_Report_Inorganic | Antimony | 7440-36-0 | 6020 | mg/kg | 0.164 | J | 0.186 | J | 12.57 | 0.213 | | 0.193 | J | 9.85 |
| SSFL_VAL_Report_Inorganic | Arsenic | 7440-38-2 | 6020 | mg/kg | 14.4 | | 16.2 | | 11.76 | 3.93 | | 4.03 | | 2.51 |
| SSFL_VAL_Report_Inorganic | Barium | 7440-39-3 | 6020 | mg/kg | 89.7 | | 96.8 | | 7.61 | 63.5 | | 60.3 | | 5.17 |
| SSFL_VAL_Report_Inorganic | Beryllium | 7440-41-7 | 6020 | mg/kg | 0.347 | | 0.390 | | 11.67 | 0.395 | | 0.454 | | 13.90 |
| SSFL_VAL_Report_Inorganic | Boron | 7440-42-8 | 6020 | mg/kg | 5.74 | U | 5.79 | U | -- | 5.19 | UJ | 2.71 | J | 200.00 |
| SSFL_VAL_Report_Inorganic | Cadmium | 7440-43-9 | 6020 | mg/kg | 0.251 | | 0.257 | | 2.36 | 0.202 | | 0.178 | | 12.63 |
| SSFL_VAL_Report_Inorganic | Calcium | 7440-70-2 | 6020 | mg/kg | 3190 | | 3250 | | 1.86 | 2860 | | 2560 | | 11.07 |
| SSFL_VAL_Report_Inorganic | Chromium | 7440-47-3 | 6020 | mg/kg | 12.3 | | 13.1 | | 6.30 | 13.1 | | 13.2 | | 0.76 |
| SSFL_VAL_Report_Inorganic | Chromium VI | 18540-29-9 | 7199 | mg/kg | 1.15 | U | 1.16 | U | -- | 1.06 | U | 1.05 | U | -- |
| SSFL_VAL_Report_Inorganic | Cobalt | 7440-48-4 | 6020 | mg/kg | 4.33 | | 4.65 | | 7.13 | 4.16 | | 4.74 | | 13.03 |
| SSFL_VAL_Report_Inorganic | Copper | 7440-50-8 | 6020 | mg/kg | 7.33 | | 7.92 | | 7.74 | 5.56 | | 5.47 | | 1.63 |
| SSFL_VAL_Report_Inorganic | Cyanide | 57-12-5 | 9014 | mg/kg | 0.294 | J | 0.356 | J | 19.08 | 0.531 | U | 0.524 | U | -- |
| SSFL_VAL_Report_Inorganic | Fluoride | 16984-48-8 | 300.0 | mg/kg | 0.742 | J | 0.788 | J | 6.01 | 1.32 | | 1.52 | | 14.08 |
| SSFL_VAL_Report_Inorganic | Iron | 7439-89-6 | 6020 | mg/kg | 16000 | | 17100 | | 6.65 | 17400 | | 18000 | | 3.39 |
| SSFL_VAL_Report_Inorganic | Lead | 7439-92-1 | 6020 | mg/kg | 8.84 | | 9.42 | | 6.35 | 7.45 | | 8.02 | | 7.37 |
| SSFL_VAL_Report_Inorganic | Lithium | 7439-93-2 | 6020 | mg/kg | 22.1 | | 23.6 | | 6.56 | 19.3 | | 22.6 | | 15.75 |
| SSFL_VAL_Report_Inorganic | Magnesium | 7439-95-4 | 6020 | mg/kg | 4150 | | 4660 | | 11.58 | 3710 | | 3870 | | 4.22 |
| SSFL_VAL_Report_Inorganic | Manganese | 7439-96-5 | 6020 | mg/kg | 263 | | 285 | | 8.03 | 225 | | 252 | | 11.32 |
| SSFL_VAL_Report_Inorganic | Mercury | 7439-97-6 | 7471A | mg/kg | 0.102 | J | 0.0631 | J | 47.12 | 0.106 | U | 0.104 | U | -- |
| SSFL_VAL_Report_Inorganic | Molybdenum | 7439-98-7 | 6020 | mg/kg | 0.388 | | 0.389 | | 0.26 | 0.424 | | 0.464 | | 9.01 |
| SSFL_VAL_Report_Inorganic | Nickel | 7440-02-0 | 6020 | mg/kg | 8.73 | | 9.51 | | 8.55 | 7.47 | | 7.63 | | 2.12 |
| SSFL_VAL_Report_Inorganic | Nitrate | 14797-55-8 | 300.0 | mg/kg | 6.39 | | 6.36 | | 0.47 | 4.53 | | 4.81 | | 6.00 |
| SSFL_VAL_Report_Inorganic | Percent Moisture | MOIST | 160.3M | % | 12.8 | | 12.2 | | 4.80 | 8.1 | | 4.0 | | 67.77 |
| SSFL_VAL_Report_Inorganic | Perchlorate | 14797-73-0 | 314.0 | ug/kg | 23.0 | U | 23.1 | U | -- | 21.3 | U | 20.9 | U | -- |
| SSFL_VAL_Report_Inorganic | Perchlorate | 14797-73-0 | 6850 | ug/kg | 5.74 | U | | | -- | | | | | |
| SSFL_VAL_Report_Inorganic | pH | pH | 9045D | pH unit | 7.03 | | 7.14 | | 1.55 | 8.15 | | 7.64 | | 6.46 |
| SSFL_VAL_Report_Inorganic | Phosphorus | 7723-14-0 | 6020 | mg/kg | 488 | | 550 | | 11.95 | 284 | | 289 | | 1.75 |
| SSFL_VAL_Report_Inorganic | Potassium | 7440-09-7 | 6020 | mg/kg | 3530 | | 3920 | | 10.47 | 2550 | | 2830 | | 10.41 |
| SSFL_VAL_Report_Inorganic | Selenium | 7782-49-2 | 6020 | mg/kg | 0.459 | U | 0.463 | U | -- | 0.508 | J | 0.415 | UJ | 200.00 |
| SSFL_VAL_Report_Inorganic | Silver | 7440-22-4 | 6020 | mg/kg | 0.0909 | J | 0.0901 | J | 0.88 | 0.0639 | J | 0.104 | UJ | 200.00 |
| SSFL_VAL_Report_Inorganic | Sodium | 7440-23-5 | 6020 | mg/kg | 69.5 | J | 70.0 | J | 0.72 | 61.2 | J | 68.4 | J | 11.11 |
| SSFL_VAL_Report_Inorganic | Strontium | 7440-24-6 | 6020 | mg/kg | 16.9 | | 17.0 | | 0.59 | 13.1 | | 12.1 | | 7.94 |
| SSFL_VAL_Report_Inorganic | Thallium | 7440-28-0 | 6020 | mg/kg | 0.214 | | 0.229 | | 6.77 | 0.222 | | 0.247 | | 10.66 |
| SSFL_VAL_Report_Inorganic | Tin | 7440-31-5 | 6020 | mg/kg | 11.5 | U | 11.6 | U | -- | 10.4 | U | 10.4 | U | -- |
| SSFL_VAL_Report_Inorganic | Titanium | 7440-32-6 | 6020 | mg/kg | 806 | | 878 | | 8.55 | 776 | | 882 | | 12.79 |
| SSFL_VAL_Report_Inorganic | Vanadium | 7440-62-2 | 6020 | mg/kg | 25.7 | | 27.8 | | 7.85 | 26.9 | | 27.6 | | 2.57 |
| SSFL_VAL_Report_Inorganic | Zinc | 7440-66-6 | 6020 | mg/kg | 61.5 | | 66.9 | | 8.41 | 55.4 | | 59.4 | | 6.97 |
| SSFL_VAL_Report_Inorganic | Zirconium | 7440-67-7 | 6020 | mg/kg | 5.74 | UJ | 5.79 | UJ | -- | 5.19 | UJ | 5.18 | UJ | -- |
| SSFL_VAL_Report_Misc. Organics | 1,3,5-Trinitrobenzene | 99-35-4 | 8330A | ug/kg | 100 | U | 100 | U | -- | 100 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 2,4,6-Trinitrotoluene | 118-96-7 | 8330A | ug/kg | 100 | U | 100 | U | -- | 100 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 2,4-Diamino-6-nitrotoluene | 6629-29-4 | 8330A | ug/kg | 200 | U | 200 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 2,4-Dinitrotoluene | 121-14-2 | 8330A | ug/kg | 100 | U | 100 | U | -- | 100 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 2,6-Diamino-4-nitrotoluene | 59229-75-3 | 8330A | ug/kg | 200 | U | 200 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 2,6-Dinitrotoluene | 606-20-2 | 8330A | ug/kg | 100 | U | 100 | U | -- | 100 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 2-Amino-4,6-Dinitrotoluene | 35572-78-2 | 8330A | ug/kg | 100 | U | 100 | U | -- | 100 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 2-Nitrotoluene | 88-72-2 | 8330A | ug/kg | 100 | U | 100 | U | -- | 100 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 2-Propanol | 67-63-0 | 8015B | ug/kg | | | | | | 530 | U | 520 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 3-Nitrotoluene | 99-08-1 | 8330A | ug/kg | 100 | U | 100 | U | -- | 100 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 4-Amino-2,6-Dinitrotoluene | 19406-51-0 | 8330A | ug/kg | 100 | U | 100 | U | -- | 100 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 4-Nitrotoluene | 99-99-0 | 8330A | ug/kg | 100 | U | 100 | U | -- | 100 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | Diethylene Glycol | 111-46-6 | 8015M | mg/kg | | | | | | 16 | U | 16 | U | -- |
| SSFL_VAL_Report_Misc. Organics | Ethanol | 64-17-5 | 8015B | ug/kg | | | | | | 530 | U | 520 | U | -- |
| SSFL_VAL_Report_Misc. Organics | Ethylene Glycol | 107-21-1 | 8015M | mg/kg | | | | | | 11 | U | 10 | U | -- |
| SSFL_VAL_Report_Misc. Organics | Formaldehyde | 50-00-0 | 8315A | ug/kg | 1700 | U | 1700 | UJ | -- | 1600 | U | 1600 | U | -- |
| SSFL_VAL_Report_Misc. Organics | HMX | 2691-41-0 | 8330A | ug/kg | 100 | U | 100 | U | -- | 100 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | m-Dinitrobenzene | 99-65-0 | 8330A | ug/kg | 100 | U | 100 | U | -- | 100 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | Methanol | 67-56-1 | 8015B | ug/kg | | | | | | 530 | U | 520 | U | -- |
| SSFL_VAL_Report_Misc. Organics | m-Terphenyl | 92-06-8 | 8015B | mg/kg | 4.0 | U | 4.0 | U | -- | 3.8 | U | 3.6 | U | -- |
| SSFL_VAL_Report_Misc. Organics | Nitrobenzene | 98-95-3 | 8330A | ug/kg | 100 | U | 100 | U | -- | 100 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | Nitroglycerin | 55-63-0 | 8332 | ug/kg | 1000 | U | 1000 | U | -- | 1000 | U | 1000 | U | -- |
| SSFL_VAL_Report_Misc. Organics | o-Terphenyl | 84-15-1 | 8015B | mg/kg | 4.0 | U | 4.0 | U | -- | 3.8 | U | 3.6 | U | -- |
| SSFL_VAL_Report_Misc. Organics | PETN | 78-11-5 | 8332 | ug/kg | 1000 | U | 1000 | U | -- | 1000 | U | 1000 | U | -- |
| SSFL_VAL_Report_Misc. Organics | Propylene glycol | 57-55-6 | 8015M | mg/kg | | | | | | 11 | U | 10 | U | -- |
| SSFL_VAL_Report_Misc. Organics | p-Terphenyl | 92-94-4 | 8015B | mg/kg | 4.0 | U | 4.0 | U | -- | 3.8 | U | 3.6 | U | -- |
| SSFL_VAL_Report_Misc. Organics | RDX | 121-82-4 | 8330A | ug/kg | 100 | U | 100 | U | -- | 100 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | Tetryl | 479-45-8 | 8330A | ug/kg | 100 | U | 100 | U | -- | 100 | U | 100 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,6,7,8-HpCDD | 35822-46-9 | 1613B | ng/kg | 7.13 | | 7.21 | | 1.12 | 22.0 | J | 7.47 | J | 98.61 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,6,7,8-HpCDF | 67562-39-4 | 1613B | ng/kg | 1.21 | J | 1.24 | J | 2.45 | 4.42 | J | 3.91 | J | 12.24 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,7,8,9-HpCDF | 55673-89-7 | 1613B | ng/kg | 0.291 | J | 5.65 | UJ | 200.00 | 0.458 | J | 0.432 | J | 5.84 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,7,8-HxCDD | 39227-28-6 | 1613B | ng/kg | 0.182 | J | 0.218 | J | 18.00 | 5.38 | U | 5.14 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,7,8-HxCDF | 70648-26-9 | 1613B | ng/kg | 1.61 | J | 1.87 | J | 14.94 | 0.903 | J | 1.05 | J | 15.05 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,6,7,8-HxCDD | 57653-85-7 | 1613B | ng/kg | 0.413 | J | 0.490 | J | 17.05 | 0.592 | J | 0.556 | J | 6.27 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,6,7,8-HxCDF | 57117-44-9 | 1613B | ng/kg | 0.620 | J | 0.672 | J | 8.05 | 0.496 | J | 0.543 | J | 9.05 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,7,8,9-HxCDD | 19408-74-3 | 1613B | ng/kg | 0.409 | J | 0.384 | J | 6.31 | 0.439 | J | 0.367 | J | 17.87 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,7,8,9-HxCDF | 72918-21-9 | 1613B | ng/kg | 0.248 | J | 0.248 | J | 0.00 | 5.38 | U | 5.14 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,7,8-PeCDD | 40321-76-4 | 1613B | ng/kg | 5.71 | UJ | 0.266 | J | 200.00 | 5.38 | UJ | 0.152 | J | 200.00 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,7,8-PeCDF | 57117-41-6 | 1613B | ng/kg | 4.06 | J | 5.76 | | 34.62 | 1.14 | J | 0.905 | J | 22.98 |
| SSFL_VAL_Report_PCBs_Dioxins | 2,3,4,6,7,8-HxCDF | 60851-34-5 | 1613B | ng/kg | 0.362 | J | 0.364 | J | 0.55 | 0.256 | J | 5.14 | U | 200.00 |
| SSFL_VAL_Report_PCBs_Dioxins | 2,3,4,7,8-PeCDF | 57117-31-4 | 1613B | ng/kg | 1.23 | J | 1.52 | J | 21.09 | 5.38 | U | 5.14 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 2,3,7,8-TCDD | 1746-01-6 | 1613B | ng/kg | 1.14 | U | 1.13 | U | -- | 1.08 | UJ | 1.03 | UJ | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 2,3,7,8-TCDF | 51207-31-9 | 1613B | ng/kg | 1.27 | | 1.47 | | 14.60 | 0.276 | J | 0.197 | J | 33.40 |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1016 | 12674-11-2 | 8082 | ug/kg | 5 | UY | 5 | UY | -- | 450 | UY | 450 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1221 | 11104-28-2 | 8082 | ug/kg | 5 | UY | 5 | UY | -- | 450 | UY | 450 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1232 | 11141-16-5 | 8082 | ug/kg | 5 | UY | 5 | UY | -- | 450 | UY | 450 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1242 | 53469-21-9 | 8082 | ug/kg | 5 | UY | 5 | UY | -- | 450 | UY | 450 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1248 | 12672-29-6 | 8082 | ug/kg | 5 | UY | 5 | UY | -- | 450 | UY | 450 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1254 | 11097-69-1 | 8082 | ug/kg | 30 | | 41 | | 30.99 | 450 | UY | 450 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1260 | 11096-82-5 | 8082 | ug/kg | 5 | UY | 5 | UY | -- | 450 | UY | 450 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1262 | 37324-23-5 | 8082 | ug/kg | 5 | UY | 5 | UY | -- | 450 | UY | 450 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1268 | 11100-14-4 | 8082 | ug/kg | 5 | UY | 5 | UY | -- | 450 | UY | 450 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 5432 | 63496-31-1 | 8082 | ug/kg | 9.5 | UY | 9.5 | UY | -- | 875 | UY | 875 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 5442 | 12642-23-8 | 8082 | ug/kg | 9.5 | UY | 9.5 | UY | -- | 875 | UY | 875 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 5460 | 11126-42-4 | 8082 | ug/kg | 9.5 | UY | 9.5 | UY | -- | 875 | UY | 875 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | OCDD | 3268-87-9 | 1613B | ng/kg | 62.2 | | 63.9 | | 2.70 | 326 | J | 65.3 | J | 133.25 |
| SSFL_VAL_Report_PCBs_Dioxins | OCDF | 39001-02-0 | 1613B | ng/kg | 2.02 | J | 1.72 | J | 16.04 | 12.0 | J | 7.14 | J | 50.78 |
| SSFL_VAL_Report_Pesticides | 2,2-Dichlor-Propionic Acid | 75-99-0 | 8151A | ug/kg | 20 | UY | 20 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | 2,4 DB | 94-82-6 | 8151A | ug/kg | 4 | UY | 4 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | 2,4,5-T | 93-76-5 | 8151A | ug/kg | 0.4 | UY | 0.4 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | 2,4,5-TP | 93-72-1 | 8151A | ug/kg | 0.4 | UY | 0.4 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | 2,4-D | 94-75-7 | 8151A | ug/kg | 8.2 | UY | 8.4 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | 4,4'-DDD | 72-54-8 | 8081A | ug/kg | 0.975 | UY | 0.975 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | 4,4'-DDE | 72-55-9 | 8081A | ug/kg | 2.0 | | 1.5 | | 28.57 | | | | | |
| SSFL_VAL_Report_Pesticides | 4,4'-DDT | 50-29-3 | 8081A | ug/kg | 0.975 | UY | 0.975 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Aldrin | 309-00-2 | 8081A | ug/kg | 0.5 | UY | 0.5 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Alpha-BHC | 319-84-6 | 8081A | ug/kg | 0.5 | UY | 0.5 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Beta-BHC | 319-85-7 | 8081A | ug/kg | 0.5 | UY | 0.5 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Chlordane (technical) | 12789-03-6 | 8081A | ug/kg | 9.75 | UY | 9.75 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Delta-BHC | 319-86-8 | 8081A | ug/kg | 0.5 | UY | 0.5 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Dicamba | 1918-00-9 | 8151A | ug/kg | 2.8 | UY | 2.8 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Dichlorprop | 120-36-5 | 8151A | ug/kg | 5.6 | UY | 5.6 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Dieldrin | 60-57-1 | 8081A | ug/kg | 0.975 | UY | 0.975 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Dinitrobutyl Phenol | 88-85-7 | 8151A | ug/kg | 4 | UY | 4 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Endosulfan I | 959-98-8 | 8081A | ug/kg | 0.5 | UY | 0.5 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Endosulfan II | 33213-65-9 | 8081A | ug/kg | 0.975 | UY | 0.975 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Endosulfan Sulfate | 1031-07-8 | 8081A | ug/kg | 0.975 | UY | 0.975 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Endrin | 72-20-8 | 8081A | ug/kg | 0.975 | UY | 0.975 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Endrin Aldehyde | 7421-93-4 | 8081A | ug/kg | 1.3 | J | 0.975 | UJY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Endrin Ketone | 53494-70-5 | 8081A | ug/kg | 0.975 | UY | 0.975 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Gamma-BHC (Lindane) | 58-89-9 | 8081A | ug/kg | 0.5 | UY | 0.5 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Heptachlor | 76-44-8 | 8081A | ug/kg | 0.5 | UY | 0.5 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Heptachlor Epoxide | 1024-57-3 | 8081A | ug/kg | 0.66 | J | 0.5 | UJY | 200.00 | | | | | |
| SSFL_VAL_Report_Pesticides | MCPA | 94-74-6 | 8151A | ug/kg | 580 | UY | 580 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | MCPP | 93-65-2 | 8151A | ug/kg | 580 | UY | 580 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Methoxychlor | 72-43-5 | 8081A | ug/kg | 5 | UY | 5 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Mirex | 2385-85-5 | 8081A | ug/kg | 0.975 | UY | 0.975 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Toxaphene | 8001-35-2 | 8081A | ug/kg | 19 | UY | 19 | UY | -- | | | | | |
| SSFL_VAL_Report_Semivolatiles | 1,2,4-Trichlorobenzene | 120-82-1 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1,2-Dichlorobenzene | 95-50-1 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1,2-Diphenylhydrazine | 122-66-7 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1,3-Dichlorobenzene | 541-73-1 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | UJ | -- |
| SSFL_VAL_Report_Semivolatiles | 1,4-Dichlorobenzene | 106-46-7 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1-Methylnaphthalene | 90-12-0 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.8 | U | 1.8 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4,5-Trichlorophenol | 95-95-4 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4,6-Trichlorophenol | 88-06-2 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4-Dichlorophenol | 120-83-2 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4-Dimethylphenol | 105-67-9 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |

**Table C-5 - NBZ Field Duplicate Results**

| | | | | Location | SL-009-NBZ | | SL-009-NBZ | | RPD | SL-040-NBZ | | SL-040-NBZ | | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Name: | DUP-07-NBZ-QC-041012 | | SL-009-NBZ-SS-0.0-0.5 | | | DUP-03-NBZ-QC-032812 | | SL-040-NBZ-SB-2.5-3.5 | | |
| | | | | Sample Date: | 04/10/2012 | | 04/10/2012 | | | 03/28/2012 | | 03/28/2012 | | |
| | | | | Start Depth: | 0 | | 0 | | | 2.5 | | 2.5 | | |
| | | | | End Depth: | 0.5 | | 0.5 | | | 3.5 | | 3.5 | | |
| | | | | Area: | NBZ | | NBZ | | | NBZ | | NBZ | | |
| | | | | Matrix: | SO | | SO | | | SO | | SO | | |
| | | | | Sample Type: | FD | | N | | | FD | | N | | |
| MAG: | Chemical Name: | CAS No.: | Lab Method: | Result Unit | Result | Final Qualifiers | Result | Final Qualifiers | | Result | Final Qualifiers | Result | Final Qualifiers | |
| SSFL_VAL_Report_Semivolatiles | 2,4-Dinitrophenol | 51-28-5 | 8270C | ug/kg | 380 | U | 390 | U | -- | 350 | U | 350 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4-Dinitrotoluene | 121-14-2 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,6-Dinitrotoluene | 606-20-2 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-butoxy-Ethanol | 111-76-2 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Chloronaphthalene | 91-58-7 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Chlorophenol | 95-57-8 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Methylnaphthalene | 91-57-6 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.8 | U | 1.8 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Methylphenol | 95-48-7 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Nitroaniline | 88-74-4 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Nitrophenol | 88-75-5 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-phenoxy-Ethanol | 122-99-6 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 3,3`-Dichlorobenzidine | 91-94-1 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | UJ | 170 | UJ | -- |
| SSFL_VAL_Report_Semivolatiles | 3,5-Dimethylphenol | 108-68-9 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 3-Nitroaniline | 99-09-2 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4,6-Dinitro-2-Methylphenol | 534-52-1 | 8270C | ug/kg | 380 | U | 390 | U | -- | 350 | U | 350 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Bromophenyl Phenyl Ether | 101-55-3 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Chloro-3-Methylphenol | 59-50-7 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Chloroaniline | 106-47-8 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Chlorophenyl Phenylether | 7005-72-3 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Methylphenol | 106-44-5 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Nitroaniline | 100-01-6 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Nitrophenol | 100-02-7 | 8270C | ug/kg | 380 | U | 390 | U | -- | 350 | U | 350 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Acenaphthene | 83-32-9 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.8 | U | 1.8 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Acenaphthylene | 208-96-8 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.8 | U | 1.8 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Aniline | 62-53-3 | 8270C | ug/kg | 380 | U | 390 | U | -- | 350 | U | 350 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Anthracene | 120-12-7 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.8 | U | 1.8 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzidine | 92-87-5 | 8270C | ug/kg | 950 | U | 960 | R | -- | 880 | U | 870 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzo(a)anthracene | 56-55-3 | 8270C SIM | ug/kg | 0.99 | J | 1.7 | J | 52.79 | 1.8 | U | 1.8 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzo(a)pyrene | 50-32-8 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.8 | U | 1.8 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzo(b)fluoranthene | 205-99-2 | 8270C SIM | ug/kg | 1.5 | J | 1.8 | J | 18.18 | 1.8 | U | 1.8 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzo(g,h,i)perylene | 191-24-2 | 8270C SIM | ug/kg | 1.2 | J | 1.4 | J | 15.38 | 1.3 | J | 1.8 | UJ | 200.00 |
| SSFL_VAL_Report_Semivolatiles | Benzo(k)fluoranthene | 207-08-9 | 8270C SIM | ug/kg | 2.0 | UJ | 1.4 | J | 200.00 | 1.8 | U | 1.8 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzoic Acid | 65-85-0 | 8270C | ug/kg | 770 | U | 770 | U | -- | 710 | U | 700 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzyl Alcohol | 100-51-6 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Bis(2-Chloroethoxy) methane | 111-91-1 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Bis(2-Chloroethyl) ether | 111-44-4 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | bis(2-Chloroisopropyl) ether | 39638-32-9 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Bis(2-Ethylhexyl) phthalate | 117-81-7 | 8270C SIM | ug/kg | 18 | J | 18 | J | 0.00 | 65 | J | 250 | J | 117.46 |
| SSFL_VAL_Report_Semivolatiles | Butylbenzylphthalate | 85-68-7 | 8270C SIM | ug/kg | 19 | U | 19 | U | -- | 18 | U | 17 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Carbazole | 86-74-8 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Chrysene | 218-01-9 | 8270C SIM | ug/kg | 2.0 | UJ | 1.6 | J | 200.00 | 1.8 | U | 1.8 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Dibenzo(a,h)anthracene | 53-70-3 | 8270C SIM | ug/kg | 2.0 | UJ | 1.1 | J | 200.00 | 1.8 | U | 1.8 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Dibenzofuran | 132-64-9 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Diethylphthalate | 84-66-2 | 8270C SIM | ug/kg | 19 | U | 19 | U | -- | 18 | U | 17 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Dimethylphthalate | 131-11-3 | 8270C SIM | ug/kg | 19 | U | 19 | U | -- | 26 | J | 50 | J | 63.16 |
| SSFL_VAL_Report_Semivolatiles | Di-n-Butylphthalate | 84-74-2 | 8270C SIM | ug/kg | 19 | U | 19 | U | -- | 18 | U | 17 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Di-N-Octyl Phthalate | 117-84-0 | 8270C SIM | ug/kg | 19 | U | 19 | U | -- | 18 | U | 17 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Fluoranthene | 206-44-0 | 8270C SIM | ug/kg | 1.4 | J | 1.6 | J | 13.33 | 1.8 | U | 1.8 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Fluorene | 86-73-7 | 8270C SIM | ug/kg | 1.7 | J | 2.0 | UJ | 200.00 | 1.8 | U | 1.8 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Hexachlorobenzene | 118-74-1 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Hexachlorobutadiene | 87-68-3 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Hexachlorocyclopentadiene | 77-47-4 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Hexachloroethane | 67-72-1 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | UJ | -- |
| SSFL_VAL_Report_Semivolatiles | Indeno(1,2,3-Cd)Pyrene | 193-39-5 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.8 | U | 1.8 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Isophorone | 78-59-1 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Naphthalene | 91-20-3 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.8 | U | 1.8 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Nitrobenzene | 98-95-3 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | N-Nitrosodimethylamine | 62-75-9 | 1625C | ng/kg | 382 | U | 380 | U | -- | 363 | U | 347 | U | -- |
| SSFL_VAL_Report_Semivolatiles | N-Nitrosodimethylamine | 62-75-9 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.8 | U | 1.8 | U | -- |
| SSFL_VAL_Report_Semivolatiles | N-Nitroso-Di-N-Propylamine | 621-64-7 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | N-Nitrosodiphenylamine | 86-30-6 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Pentachlorophenol | 87-86-5 | 8270C | ug/kg | 380 | U | 390 | U | -- | 350 | U | 350 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Phenanthrene | 85-01-8 | 8270C SIM | ug/kg | 1.0 | J | 1.2 | J | 18.18 | 1.8 | U | 1.8 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Phenol | 108-95-2 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Pyrene | 129-00-0 | 8270C SIM | ug/kg | 1.3 | J | 1.5 | J | 14.29 | 1.8 | U | 1.8 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Tetralin | 119-64-2 | 8270C | ug/kg | 190 | U | 190 | U | -- | 180 | U | 170 | U | -- |
| SSFL_VAL_Report_Volatiles | EFH (C12-C14) | PHCC12C14 | 8015B EFH | mg/kg | 1.1 | U | 1.2 | U | -- | 0.90 | J | 0.85 | J | 5.71 |
| SSFL_VAL_Report_Volatiles | EFH (C15-C20) | PHCC15C20 | 8015B EFH | mg/kg | 2.5 | | 2.1 | | 17.39 | 37 | | 38 | | 2.67 |
| SSFL_VAL_Report_Volatiles | EFH (C21-C30) | PHCC21C30 | 8015B EFH | mg/kg | 17 | | 20 | | 16.22 | 43 | | 41 | | 4.76 |
| SSFL_VAL_Report_Volatiles | EFH (C30-C40) | PHCC30C40 | 8015B EFH | mg/kg | 34 | | 35 | | 2.90 | 8.3 | | 12 | | 36.45 |
| SSFL_VAL_Report_Volatiles | EFH (C8-C11) | PHCC8C11 | 8015B EFH | mg/kg | 1.1 | UJ | 0.65 | J | 200.00 | 0.55 | J | 0.53 | J | 3.70 |
| SSFL_VAL_Report_Volatiles | GRO (C5-C12) | GROC5C12 | 8015B GRO | mg/kg | | | | | -- | 1.0 | U | | | -- |

ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- - RPD not calculated when both field duplicate and normal samples were
200* - When one result is nondetect a 200% RPD is given and sample results are qualified as estimated "J" or "UJ" in the field duplicate samples only
Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

**Table C-5 - NBZ Field Duplicate Results**

| | | | | Location | SL-057-NBZ | | SL-057-NBZ | | RPD | SL-068-NBZ | | SL-068-NBZ | | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Name: | DUP-02-NBZ-QC-032312 | | SL-057-NBZ-SS-0.0-0.5 | | | DUP-01-NBZ-QC-031612 | | SL-068-NBZ-SB-2.5-3.5 | | |
| | | | | Sample Date: | 03/23/2012 | | 03/23/2012 | | | 03/16/2012 | | 03/16/2012 | | |
| | | | | Start Depth: | 0 | | 0 | | | 2.5 | | 2.5 | | |
| | | | | End Depth: | 0.5 | | 0.5 | | | 3.5 | | 3.5 | | |
| | | | | Area: | NBZ | | NBZ | | | NBZ | | NBZ | | |
| | | | | Matrix: | SO | | SO | | | SO | | SO | | |
| | | | | Sample Type: | FD | | N | | | FD | | N | | |
| MAG: | Chemical Name: | CAS No.: | Lab Method: | Result Unit | Result | Final Qualifiers | Result | Final Qualifiers | | Result | Final Qualifiers | Result | Final Qualifiers | |
| SSFL_VAL_Report_Inorganic | Aluminum | 7429-90-5 | 6020 | mg/kg | 12400 | | 12100 | | 2.45 | 12600 | | 11900 | | 5.71 |
| SSFL_VAL_Report_Inorganic | Antimony | 7440-36-0 | 6020 | mg/kg | 0.325 | | 0.387 | | 17.42 | 0.261 | J | 0.145 | J | 57.14 |
| SSFL_VAL_Report_Inorganic | Arsenic | 7440-38-2 | 6020 | mg/kg | 3.82 | | 4.19 | | 9.24 | 10.7 | J | 5.87 | J | 58.30 |
| SSFL_VAL_Report_Inorganic | Barium | 7440-39-3 | 6020 | mg/kg | 84.1 | | 92.4 | | 9.41 | 55.5 | J | 53.8 | J | 3.11 |
| SSFL_VAL_Report_Inorganic | Beryllium | 7440-41-7 | 6020 | mg/kg | 0.474 | | 0.488 | | 2.91 | 0.598 | | 0.647 | | 7.87 |
| SSFL_VAL_Report_Inorganic | Boron | 7440-42-8 | 6020 | mg/kg | 5.24 | U | 5.19 | U | -- | 5.31 | U | 5.42 | U | -- |
| SSFL_VAL_Report_Inorganic | Cadmium | 7440-43-9 | 6020 | mg/kg | 0.188 | | 0.226 | | 18.36 | 0.227 | J | 0.0747 | J | 100.96 |
| SSFL_VAL_Report_Inorganic | Calcium | 7440-70-2 | 6020 | mg/kg | 2350 | | 2450 | | 4.17 | 1670 | | 1530 | | 8.75 |
| SSFL_VAL_Report_Inorganic | Chromium | 7440-47-3 | 6020 | mg/kg | 18.1 | | 19.4 | | 6.93 | 13.8 | | 12.4 | | 10.69 |
| SSFL_VAL_Report_Inorganic | Chromium VI | 18540-29-9 | 7199 | mg/kg | 1.07 | U | 1.08 | U | -- | 1.10 | U | 1.10 | U | -- |
| SSFL_VAL_Report_Inorganic | Cobalt | 7440-48-4 | 6020 | mg/kg | 5.13 | | 5.29 | | 3.07 | 4.69 | | 4.42 | | 5.93 |
| SSFL_VAL_Report_Inorganic | Copper | 7440-50-8 | 6020 | mg/kg | 7.48 | | 8.03 | | 7.09 | 3.61 | | 3.85 | | 6.43 |
| SSFL_VAL_Report_Inorganic | Cyanide | 57-12-5 | 9014 | mg/kg | 0.534 | U | 0.539 | U | -- | 0.552 | U | 0.549 | U | -- |
| SSFL_VAL_Report_Inorganic | Fluoride | 16984-48-8 | 300.0 | mg/kg | 0.637 | J | 0.652 | J | 2.33 | 0.857 | J | 0.847 | J | 1.17 |
| SSFL_VAL_Report_Inorganic | Iron | 7439-89-6 | 6020 | mg/kg | 19200 | J | 20100 | J | 4.58 | 23100 | | 20000 | | 14.39 |
| SSFL_VAL_Report_Inorganic | Lead | 7439-92-1 | 6020 | mg/kg | 6.74 | | 9.74 | | 36.41 | 5.28 | | 4.58 | | 14.20 |
| SSFL_VAL_Report_Inorganic | Lithium | 7439-93-2 | 6020 | mg/kg | 29.9 | | 28.8 | | 3.75 | 18.3 | | 16.8 | | 8.55 |
| SSFL_VAL_Report_Inorganic | Magnesium | 7439-95-4 | 6020 | mg/kg | 5560 | | 5370 | | 3.48 | 3880 | | 3570 | | 8.32 |
| SSFL_VAL_Report_Inorganic | Manganese | 7439-96-5 | 6020 | mg/kg | 266 | | 280 | | 5.13 | 148 | J | 163 | J | 9.65 |
| SSFL_VAL_Report_Inorganic | Mercury | 7439-97-6 | 7471A | mg/kg | 0.106 | U | 0.107 | U | -- | 0.109 | U | 0.110 | U | -- |
| SSFL_VAL_Report_Inorganic | Molybdenum | 7439-98-7 | 6020 | mg/kg | 0.708 | | 0.840 | | 17.05 | 0.762 | J | 0.434 | J | 54.85 |
| SSFL_VAL_Report_Inorganic | Nickel | 7440-02-0 | 6020 | mg/kg | 11.4 | | 11.8 | | 3.45 | 5.33 | | 5.10 | | 4.41 |
| SSFL_VAL_Report_Inorganic | Nitrate | 14797-55-8 | 300.0 | mg/kg | 1.35 | J | 2.32 | J | 52.86 | 5.74 | | 4.19 | | 31.22 |
| SSFL_VAL_Report_Inorganic | Percent Moisture | MOIST | 160.3M | % | 7.2 | | 9.1 | | 23.31 | 8.5 | | 8.7 | | 2.33 |
| SSFL_VAL_Report_Inorganic | Perchlorate | 14797-73-0 | 314.0 | ug/kg | 21.4 | U | 21.6 | U | -- | 22.1 | U | 22.0 | U | -- |
| SSFL_VAL_Report_Inorganic | Perchlorate | 14797-73-0 | 6850 | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Inorganic | pH | pH | 9045D | pH unit | 6.87 | | 6.98 | | 1.59 | 6.57 | | 6.66 | | 1.36 |
| SSFL_VAL_Report_Inorganic | Phosphorus | 7723-14-0 | 6020 | mg/kg | 379 | | 399 | | 5.14 | 114 | | 130 | | 13.11 |
| SSFL_VAL_Report_Inorganic | Potassium | 7440-09-7 | 6020 | mg/kg | 3410 | | 3570 | | 4.58 | 1510 | | 1590 | | 5.16 |
| SSFL_VAL_Report_Inorganic | Selenium | 7782-49-2 | 6020 | mg/kg | 0.419 | U | 0.415 | U | -- | 0.225 | J | 0.434 | UJ | 200.00 |
| SSFL_VAL_Report_Inorganic | Silver | 7440-22-4 | 6020 | mg/kg | 0.105 | U | 0.104 | U | -- | 0.106 | U | 0.108 | U | -- |
| SSFL_VAL_Report_Inorganic | Sodium | 7440-23-5 | 6020 | mg/kg | 54.5 | J | 57.9 | J | 6.05 | 119 | | 105 | J | 12.50 |
| SSFL_VAL_Report_Inorganic | Strontium | 7440-24-6 | 6020 | mg/kg | 13.1 | | 13.8 | | 5.20 | 15.3 | | 13.7 | | 11.03 |
| SSFL_VAL_Report_Inorganic | Thallium | 7440-28-0 | 6020 | mg/kg | 0.232 | | 0.236 | | 1.71 | 0.229 | | 0.348 | | 41.25 |
| SSFL_VAL_Report_Inorganic | Tin | 7440-31-5 | 6020 | mg/kg | 10.5 | U | 10.4 | U | -- | 10.6 | U | 10.8 | U | -- |
| SSFL_VAL_Report_Inorganic | Titanium | 7440-32-6 | 6020 | mg/kg | 937 | | 954 | | 1.80 | 900 | | 832 | | 7.85 |
| SSFL_VAL_Report_Inorganic | Vanadium | 7440-62-2 | 6020 | mg/kg | 35.5 | | 36.1 | | 1.68 | 33.8 | | 30.5 | | 10.26 |
| SSFL_VAL_Report_Inorganic | Zinc | 7440-66-6 | 6020 | mg/kg | 51.0 | | 53.5 | | 4.78 | 40.0 | | 38.8 | | 3.05 |
| SSFL_VAL_Report_Inorganic | Zirconium | 7440-67-7 | 6020 | mg/kg | 5.24 | UJ | 5.19 | UJ | -- | 5.31 | UJ | 5.42 | UJ | -- |
| SSFL_VAL_Report_Misc. Organics | 1,3,5-Trinitrobenzene | 99-35-4 | 8330A | ug/kg | 100 | U | 100 | U | -- | 99 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 2,4,6-Trinitrotoluene | 118-96-7 | 8330A | ug/kg | 100 | U | 100 | U | -- | 99 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 2,4-Diamino-6-nitrotoluene | 6629-29-4 | 8330A | ug/kg | 200 | U | 200 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 2,4-Dinitrotoluene | 121-14-2 | 8330A | ug/kg | 100 | U | 100 | U | -- | 99 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 2,6-Diamino-4-nitrotoluene | 59229-75-3 | 8330A | ug/kg | 200 | U | 200 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 2,6-Dinitrotoluene | 606-20-2 | 8330A | ug/kg | 100 | U | 100 | U | -- | 99 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 2-Amino-4,6-Dinitrotoluene | 35572-78-2 | 8330A | ug/kg | 100 | U | 100 | U | -- | 99 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 2-Nitrotoluene | 88-72-2 | 8330A | ug/kg | 100 | U | 100 | U | -- | 99 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 2-Propanol | 67-63-0 | 8015B | ug/kg | 530 | U | 540 | U | -- | 550 | U | 550 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 3-Nitrotoluene | 99-08-1 | 8330A | ug/kg | 100 | U | 100 | U | -- | 99 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 4-Amino-2,6-Dinitrotoluene | 19406-51-0 | 8330A | ug/kg | 100 | U | 100 | U | -- | 99 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 4-Nitrotoluene | 99-99-0 | 8330A | ug/kg | 100 | U | 100 | U | -- | 99 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | Diethylene Glycol | 111-46-6 | 8015M | mg/kg | 16 | U | 16 | U | -- | 17 | U | 16 | U | -- |
| SSFL_VAL_Report_Misc. Organics | Ethanol | 64-17-5 | 8015B | ug/kg | 530 | U | 540 | U | -- | 550 | U | 550 | U | -- |
| SSFL_VAL_Report_Misc. Organics | Ethylene Glycol | 107-21-1 | 8015M | mg/kg | 11 | U | 11 | U | -- | 11 | U | 11 | U | -- |
| SSFL_VAL_Report_Misc. Organics | Formaldehyde | 50-00-0 | 8315A | ug/kg | 1600 | U | 1700 | U | -- | 1600 | U | 1600 | U | -- |
| SSFL_VAL_Report_Misc. Organics | HMX | 2691-41-0 | 8330A | ug/kg | 100 | U | 100 | U | -- | 99 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | m-Dinitrobenzene | 99-65-0 | 8330A | ug/kg | 100 | U | 100 | U | -- | 99 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | Methanol | 67-56-1 | 8015B | ug/kg | 530 | U | 540 | U | -- | 550 | U | 550 | U | -- |
| SSFL_VAL_Report_Misc. Organics | m-Terphenyl | 92-06-8 | 8015B | mg/kg | 3.8 | U | 3.9 | U | -- | 3.8 | U | | | -- |
| SSFL_VAL_Report_Misc. Organics | Nitrobenzene | 98-95-3 | 8330A | ug/kg | 100 | U | 100 | U | -- | 99 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | Nitroglycerin | 55-63-0 | 8332 | ug/kg | 1000 | U | 1000 | U | -- | 990 | U | 1000 | U | -- |
| SSFL_VAL_Report_Misc. Organics | o-Terphenyl | 84-15-1 | 8015B | mg/kg | 3.8 | U | 3.9 | U | -- | 3.8 | U | | | -- |
| SSFL_VAL_Report_Misc. Organics | PETN | 78-11-5 | 8332 | ug/kg | 1000 | U | 1000 | U | -- | 990 | U | 1000 | U | -- |
| SSFL_VAL_Report_Misc. Organics | Propylene glycol | 57-55-6 | 8015M | mg/kg | 11 | U | 11 | U | -- | 11 | U | 11 | U | -- |
| SSFL_VAL_Report_Misc. Organics | p-Terphenyl | 92-94-4 | 8015B | mg/kg | 5.4 | J | 4.7 | J | 13.86 | 3.8 | U | | | -- |
| SSFL_VAL_Report_Misc. Organics | RDX | 121-82-4 | 8330A | ug/kg | 100 | U | 100 | U | -- | 99 | U | 100 | U | -- |
| SSFL_VAL_Report_Misc. Organics | Tetryl | 479-45-8 | 8330A | ug/kg | 100 | U | 100 | U | -- | 99 | U | 100 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,6,7,8-HpCDD | 35822-46-9 | 1613B | ng/kg | 5.31 | UJ | 8.71 | J | 200.00 | 5.33 | U | 5.43 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,6,7,8-HpCDF | 67562-39-4 | 1613B | ng/kg | 0.836 | J | 8.06 | J | 162.41 | 5.33 | U | 5.43 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,7,8,9-HpCDF | 55673-89-7 | 1613B | ng/kg | 0.492 | J | 4.26 | J | 158.59 | 5.33 | UJ | 5.43 | UJ | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,7,8-HxCDD | 39227-28-6 | 1613B | ng/kg | 5.31 | UJ | 0.216 | J | 200.00 | 5.33 | U | 5.43 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,7,8-HxCDF | 70648-26-9 | 1613B | ng/kg | 1.99 | J | 15.9 | J | 155.51 | 0.210 | J | 5.43 | U | 200.00 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,6,7,8-HxCDD | 57653-85-7 | 1613B | ng/kg | 5.31 | UJ | 0.531 | J | 200.00 | 5.33 | U | 5.43 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,6,7,8-HxCDF | 57117-44-9 | 1613B | ng/kg | 0.882 | J | 7.24 | J | 156.56 | 5.33 | U | 5.43 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,7,8,9-HxCDD | 19408-74-3 | 1613B | ng/kg | 5.31 | UJ | 0.465 | J | 200.00 | 5.33 | U | 5.43 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,7,8,9-HxCDF | 72918-21-9 | 1613B | ng/kg | 0.361 | J | 5.48 | UJ | 200.00 | 5.33 | U | 5.43 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,7,8-PeCDD | 40321-76-4 | 1613B | ng/kg | 0.0948 | J | 0.260 | J | 93.12 | 0.252 | J | 0.148 | J | 52.00 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,7,8-PeCDF | 57117-41-6 | 1613B | ng/kg | 2.10 | J | 17.8 | J | 157.79 | 0.283 | J | 5.43 | UJ | 200.00 |
| SSFL_VAL_Report_PCBs_Dioxins | 2,3,4,6,7,8-HxCDF | 60851-34-5 | 1613B | ng/kg | 0.412 | J | 2.99 | J | 151.56 | 5.33 | U | 5.43 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 2,3,4,7,8-PeCDF | 57117-31-4 | 1613B | ng/kg | 2.70 | J | 23.2 | J | 158.30 | 5.33 | UJ | 5.43 | UJ | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 2,3,7,8-TCDD | 1746-01-6 | 1613B | ng/kg | 1.06 | UJ | 1.10 | UJ | -- | 1.07 | U | 1.09 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 2,3,7,8-TCDF | 51207-31-9 | 1613B | ng/kg | 1.78 | J | 10.3 | J | 141.06 | 1.07 | U | 1.09 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1016 | 12674-11-2 | 8082 | ug/kg | 4.5 | UY | 450 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1221 | 11104-28-2 | 8082 | ug/kg | 4.5 | UY | 450 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1232 | 11141-16-5 | 8082 | ug/kg | 4.5 | UY | 450 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1242 | 53469-21-9 | 8082 | ug/kg | 4.5 | UY | 450 | UJY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1248 | 12672-29-6 | 8082 | ug/kg | 4.5 | UJY | 4200 | J | 200.00 | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1254 | 11097-69-1 | 8082 | ug/kg | 4.5 | UY | 450 | UJY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1260 | 11096-82-5 | 8082 | ug/kg | 4.5 | UJY | 1500 | J | 200.00 | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1262 | 37324-23-5 | 8082 | ug/kg | 4.5 | UY | 450 | UJY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1268 | 11100-14-4 | 8082 | ug/kg | 4.5 | UY | 450 | UJY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 5432 | 63496-31-1 | 8082 | ug/kg | 8.75 | UY | 900 | UY | -- | 9 | UY | 9 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 5442 | 12642-23-8 | 8082 | ug/kg | 8.75 | UY | 900 | UY | -- | 9 | UY | 9 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 5460 | 11126-42-4 | 8082 | ug/kg | 8.75 | UJY | 26 | J | 200.00 | 9 | UY | 9 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | OCDD | 3268-87-9 | 1613B | ng/kg | 7.02 | J | 57.2 | J | 156.28 | 10.7 | U | 10.9 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | OCDF | 39001-02-0 | 1613B | ng/kg | 1.27 | J | 12.0 | J | 161.72 | 10.7 | U | 10.9 | U | -- |
| SSFL_VAL_Report_Pesticides | 2,2-Dichlor-Propionic Acid | 75-99-0 | 8151A | ug/kg | 19.2 | UY | 19.4 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | 2,4 DB | 94-82-6 | 8151A | ug/kg | 3.6 | UY | 3.6 | UJY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | 2,4,5-T | 93-76-5 | 8151A | ug/kg | 0.36 | UY | 0.36 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | 2,4,5-TP | 93-72-1 | 8151A | ug/kg | 0.36 | UY | 0.36 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | 2,4-D | 94-75-7 | 8151A | ug/kg | 7.6 | UY | 7.8 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | 4,4'-DDD | 72-54-8 | 8081A | ug/kg | 0.9 | UY | 0.925 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | 4,4'-DDE | 72-55-9 | 8081A | ug/kg | 0.9 | UJY | 11 | J | 200.00 | | | | | |
| SSFL_VAL_Report_Pesticides | 4,4'-DDT | 50-29-3 | 8081A | ug/kg | 0.9 | UY | 0.925 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Aldrin | 309-00-2 | 8081A | ug/kg | 0.45 | UY | 0.45 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Alpha-BHC | 319-84-6 | 8081A | ug/kg | 0.45 | UY | 0.45 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Beta-BHC | 319-85-7 | 8081A | ug/kg | 0.45 | UJY | 0.45 | UJY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Chlordane (technical) | 12789-03-6 | 8081A | ug/kg | 9 | UY | 9.25 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Delta-BHC | 319-86-8 | 8081A | ug/kg | 0.45 | UJY | 0.45 | UJY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Dicamba | 1918-00-9 | 8151A | ug/kg | 2.6 | UY | 2.6 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Dichlorprop | 120-36-5 | 8151A | ug/kg | 5.2 | UY | 5.2 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Dieldrin | 60-57-1 | 8081A | ug/kg | 0.9 | UJY | 2.6 | J | 200.00 | | | | | |
| SSFL_VAL_Report_Pesticides | Dinitrobutyl Phenol | 88-85-7 | 8151A | ug/kg | 3.6 | UY | 3.6 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Endosulfan I | 959-98-8 | 8081A | ug/kg | 1.1 | J | 0.45 | UJY | 200.00 | | | | | |
| SSFL_VAL_Report_Pesticides | Endosulfan II | 33213-65-9 | 8081A | ug/kg | 0.9 | UJY | 0.89 | J | 200.00 | | | | | |
| SSFL_VAL_Report_Pesticides | Endosulfan Sulfate | 1031-07-8 | 8081A | ug/kg | 0.9 | UJY | 0.32 | J | 200.00 | | | | | |
| SSFL_VAL_Report_Pesticides | Endrin | 72-20-8 | 8081A | ug/kg | 0.27 | J | 0.25 | J | 7.69 | | | | | |
| SSFL_VAL_Report_Pesticides | Endrin Aldehyde | 7421-93-4 | 8081A | ug/kg | 0.9 | UJY | 5.5 | J | 200.00 | | | | | |
| SSFL_VAL_Report_Pesticides | Endrin Ketone | 53494-70-5 | 8081A | ug/kg | 0.9 | UY | 0.925 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Gamma-BHC (Lindane) | 58-89-9 | 8081A | ug/kg | 0.45 | UJY | 0.45 | UJY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Heptachlor | 76-44-8 | 8081A | ug/kg | 0.45 | UJY | 0.45 | UJY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Heptachlor Epoxide | 1024-57-3 | 8081A | ug/kg | 5.6 | J | 0.45 | UJY | 200.00 | | | | | |
| SSFL_VAL_Report_Pesticides | MCPA | 94-74-6 | 8151A | ug/kg | 540 | UY | 540 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | MCPP | 93-65-2 | 8151A | ug/kg | 540 | UY | 540 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Methoxychlor | 72-43-5 | 8081A | ug/kg | 4.5 | UJY | 2.2 | J | 200.00 | | | | | |
| SSFL_VAL_Report_Pesticides | Mirex | 2385-85-5 | 8081A | ug/kg | 0.9 | UY | 0.925 | UY | -- | | | | | |
| SSFL_VAL_Report_Pesticides | Toxaphene | 8001-35-2 | 8081A | ug/kg | 17.75 | UY | 17.75 | UY | -- | | | | | |
| SSFL_VAL_Report_Semivolatiles | 1,2,4-Trichlorobenzene | 120-82-1 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1,2-Dichlorobenzene | 95-50-1 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | UJ | -- |
| SSFL_VAL_Report_Semivolatiles | 1,2-Diphenylhydrazine | 122-66-7 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1,3-Dichlorobenzene | 541-73-1 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | UJ | -- |
| SSFL_VAL_Report_Semivolatiles | 1,4-Dichlorobenzene | 106-46-7 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1-Methylnaphthalene | 90-12-0 | 8270C SIM | ug/kg | 1.8 | U | 1.8 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4,5-Trichlorophenol | 95-95-4 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4,6-Trichlorophenol | 88-06-2 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4-Dichlorophenol | 120-83-2 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4-Dimethylphenol | 105-67-9 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |

**Table C-5 - NBZ Field Duplicate Results**

| | | | | Location | SL-057-NBZ | | SL-057-NBZ | | RPD | SL-068-NBZ | | SL-068-NBZ | | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Name: | DUP-02-NBZ-QC-032312 | | SL-057-NBZ-SS-0.0-0.5 | | | DUP-01-NBZ-QC-031612 | | SL-068-NBZ-SB-2.5-3.5 | | |
| | | | | Sample Date: | 03/23/2012 | | 03/23/2012 | | | 03/16/2012 | | 03/16/2012 | | |
| | | | | Start Depth: | 0 | | 0 | | | 2.5 | | 2.5 | | |
| | | | | End Depth: | 0.5 | | 0.5 | | | 3.5 | | 3.5 | | |
| | | | | Area: | NBZ | | NBZ | | | NBZ | | NBZ | | |
| | | | | Matrix: | SO | | SO | | | SO | | SO | | |
| | | | | Sample Type: | FD | | N | | | FD | | N | | |
| MAG: | Chemical Name: | CAS No.: | Lab Method: | Result Unit | Result | Final Qualifiers | Result | Final Qualifiers | | Result | Final Qualifiers | Result | Final Qualifiers | |
| SSFL_VAL_Report_Semivolatiles | 2,4-Dinitrophenol | 51-28-5 | 8270C | ug/kg | 360 | U | 360 | U | -- | 370 | U | 370 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4-Dinitrotoluene | 121-14-2 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,6-Dinitrotoluene | 606-20-2 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-butoxy-Ethanol | 111-76-2 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Chloronaphthalene | 91-58-7 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Chlorophenol | 95-57-8 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Methylnaphthalene | 91-57-6 | 8270C SIM | ug/kg | 1.8 | U | 1.8 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Methylphenol | 95-48-7 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Nitroaniline | 88-74-4 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Nitrophenol | 88-75-5 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-phenoxy-Ethanol | 122-99-6 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 3,3`-Dichlorobenzidine | 91-94-1 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 3,5-Dimethylphenol | 108-68-9 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 3-Nitroaniline | 99-09-2 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4,6-Dinitro-2-Methylphenol | 534-52-1 | 8270C | ug/kg | 360 | U | 360 | U | -- | 370 | U | 370 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Bromophenyl Phenyl Ether | 101-55-3 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Chloro-3-Methylphenol | 59-50-7 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Chloroaniline | 106-47-8 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Chlorophenyl Phenylether | 7005-72-3 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Methylphenol | 106-44-5 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Nitroaniline | 100-01-6 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Nitrophenol | 100-02-7 | 8270C | ug/kg | 360 | U | 360 | U | -- | 370 | U | 370 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Acenaphthene | 83-32-9 | 8270C SIM | ug/kg | 1.4 | J | 1.8 | UJ | 200.00 | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Acenaphthylene | 208-96-8 | 8270C SIM | ug/kg | 3.5 | J | 1.1 | J | 104.35 | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Aniline | 62-53-3 | 8270C | ug/kg | 360 | U | 360 | U | -- | 370 | U | 370 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Anthracene | 120-12-7 | 8270C SIM | ug/kg | 7.6 | J | 1.8 | UJ | 200.00 | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzidine | 92-87-5 | 8270C | ug/kg | 890 | U | 900 | R | -- | 920 | U | 910 | R | -- |
| SSFL_VAL_Report_Semivolatiles | Benzo(a)anthracene | 56-55-3 | 8270C SIM | ug/kg | 120 | J | 15 | J | 155.56 | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzo(a)pyrene | 50-32-8 | 8270C SIM | ug/kg | 190 | J | 25 | J | 153.49 | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzo(b)fluoranthene | 205-99-2 | 8270C SIM | ug/kg | 250 | J | 29 | J | 158.42 | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzo(g,h,i)perylene | 191-24-2 | 8270C SIM | ug/kg | 150 | J | 23 | J | 146.82 | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzo(k)fluoranthene | 207-08-9 | 8270C SIM | ug/kg | 80 | J | 11 | J | 151.65 | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzoic Acid | 65-85-0 | 8270C | ug/kg | 710 | U | 720 | U | -- | 740 | U | 730 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzyl Alcohol | 100-51-6 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Bis(2-Chloroethoxy) methane | 111-91-1 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Bis(2-Chloroethyl) ether | 111-44-4 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | bis(2-Chloroisopropyl) ether | 39638-32-9 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Bis(2-Ethylhexyl) phthalate | 117-81-7 | 8270C SIM | ug/kg | 21 | J | 62 | J | 98.80 | 18 | U | 18 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Butylbenzylphthalate | 85-68-7 | 8270C SIM | ug/kg | 14 | J | 14 | J | 0.00 | 18 | U | 18 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Carbazole | 86-74-8 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Chrysene | 218-01-9 | 8270C SIM | ug/kg | 150 | J | 52 | J | 97.03 | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Dibenzo(a,h)anthracene | 53-70-3 | 8270C SIM | ug/kg | 45 | J | 5.3 | J | 157.85 | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Dibenzofuran | 132-64-9 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Diethylphthalate | 84-66-2 | 8270C SIM | ug/kg | 18 | U | 18 | U | -- | 18 | U | 18 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Dimethylphthalate | 131-11-3 | 8270C SIM | ug/kg | 18 | U | 18 | U | -- | 18 | U | 18 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Di-n-Butylphthalate | 84-74-2 | 8270C SIM | ug/kg | 18 | U | 18 | U | -- | 18 | U | 18 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Di-N-Octyl Phthalate | 117-84-0 | 8270C SIM | ug/kg | 18 | U | 18 | U | -- | 18 | U | 18 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Fluoranthene | 206-44-0 | 8270C SIM | ug/kg | 100 | J | 22 | J | 127.87 | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Fluorene | 86-73-7 | 8270C SIM | ug/kg | 1.8 | U | 1.8 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Hexachlorobenzene | 118-74-1 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Hexachlorobutadiene | 87-68-3 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Hexachlorocyclopentadiene | 77-47-4 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Hexachloroethane | 67-72-1 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Indeno(1,2,3-Cd)Pyrene | 193-39-5 | 8270C SIM | ug/kg | 110 | J | 19 | J | 141.09 | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Isophorone | 78-59-1 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Naphthalene | 91-20-3 | 8270C SIM | ug/kg | 1.8 | UJ | 1.0 | J | 200.00 | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Nitrobenzene | 98-95-3 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | N-Nitrosodimethylamine | 62-75-9 | 1625C | ng/kg | 35.9 | U | 367 | U | -- | 36.3 | U | 37.1 | U | -- |
| SSFL_VAL_Report_Semivolatiles | N-Nitrosodimethylamine | 62-75-9 | 8270C SIM | ug/kg | 1.8 | U | 1.8 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | N-Nitroso-Di-N-Propylamine | 621-64-7 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | N-Nitrosodiphenylamine | 86-30-6 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Pentachlorophenol | 87-86-5 | 8270C | ug/kg | 360 | U | 360 | U | -- | 370 | U | 370 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Phenanthrene | 85-01-8 | 8270C SIM | ug/kg | 25 | J | 6.4 | J | 118.47 | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Phenol | 108-95-2 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Pyrene | 129-00-0 | 8270C SIM | ug/kg | 140 | J | 24 | J | 141.46 | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Tetralin | 119-64-2 | 8270C | ug/kg | 180 | U | 180 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Volatiles | EFH (C12-C14) | PHCC12C14 | 8015B EFH | mg/kg | 1.1 | U | 1.1 | U | -- | 1.1 | U | 1.1 | U | -- |
| SSFL_VAL_Report_Volatiles | EFH (C15-C20) | PHCC15C20 | 8015B EFH | mg/kg | 0.67 | J | 0.68 | J | 1.48 | 1.1 | U | 1.1 | U | -- |
| SSFL_VAL_Report_Volatiles | EFH (C21-C30) | PHCC21C30 | 8015B EFH | mg/kg | 2.3 | | 3.0 | | 26.42 | 1.1 | U | 1.1 | U | -- |
| SSFL_VAL_Report_Volatiles | EFH (C30-C40) | PHCC30C40 | 8015B EFH | mg/kg | 2.8 | | 4.4 | | 44.44 | 0.73 | J | 1.3 | J | 56.16 |
| SSFL_VAL_Report_Volatiles | EFH (C8-C11) | PHCC8C11 | 8015B EFH | mg/kg | 0.62 | J | 0.73 | J | 16.30 | 1.1 | U | 1.1 | U | -- |
| SSFL_VAL_Report_Volatiles | GRO (C5-C12) | GROC5C12 | 8015B GRO | mg/kg | | | | | | 1.1 | U | | | -- |

ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- - RPD not calculated when both field duplicate and normal samples were
200* - When one result is nondetect a 200% RPD is given and sample results are qualified as estimated "J" or "UJ" in the field duplicate samples only
Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

**Table C-5 - NBZ Field Duplicate Results**

| | | | | | Location | SL-092-NBZ | | SL-092-NBZ | | RPD | SL-118-NBZ | | SL-118-NBZ | | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Sample Name: | DUP-05-NBZ-QC-032912 | | SL-092-NBZ-SS-0.0-0.5 | | | DUP-04-NBZ-QC-032912 | | SL-118-NBZ-SS-0.0-0.5 | | |
| | | | | | Sample Date: | 03/29/2012 | | 03/29/2012 | | | 03/29/2012 | | 03/29/2012 | | |
| | | | | | Start Depth: | 0 | | 0 | | | 0 | | 0 | | |
| | | | | | End Depth: | 0.5 | | 0.5 | | | 0.5 | | 0.5 | | |
| | | | | | Area: | NBZ | | NBZ | | | NBZ | | NBZ | | |
| | | | | | Matrix: | SO | | SO | | | SO | | SO | | |
| | | | | | Sample Type: | FD | | N | | | FD | | N | | |
| MAG: | Chemical Name: | CAS No.: | Lab Method: | Result Unit | Result | Final Qualifiers | Result | Final Qualifiers | | Result | Final Qualifiers | Result | Final Qualifiers | |
| SSFL_VAL_Report_Inorganic | Aluminum | 7429-90-5 | 6020 | mg/kg | 12400 | | 12400 | | 0.00 | 11300 | | 11000 | | 2.69 |
| SSFL_VAL_Report_Inorganic | Antimony | 7440-36-0 | 6020 | mg/kg | 0.158 | J | 0.215 | J | 30.56 | 0.199 | J | 0.226 | J | 12.71 |
| SSFL_VAL_Report_Inorganic | Arsenic | 7440-38-2 | 6020 | mg/kg | 4.25 | | 4.10 | | 3.59 | 4.36 | | 4.10 | | 6.15 |
| SSFL_VAL_Report_Inorganic | Barium | 7440-39-3 | 6020 | mg/kg | 84.2 | | 83.6 | J | 0.72 | 72.2 | | 78.0 | | 7.72 |
| SSFL_VAL_Report_Inorganic | Beryllium | 7440-41-7 | 6020 | mg/kg | 0.466 | | 0.457 | | 1.95 | 0.399 | | 0.395 | | 1.01 |
| SSFL_VAL_Report_Inorganic | Boron | 7440-42-8 | 6020 | mg/kg | 5.80 | U | 5.69 | U | -- | 5.48 | U | 5.23 | U | -- |
| SSFL_VAL_Report_Inorganic | Cadmium | 7440-43-9 | 6020 | mg/kg | 0.198 | | 0.215 | | 8.23 | 0.201 | | 0.213 | | 5.80 |
| SSFL_VAL_Report_Inorganic | Calcium | 7440-70-2 | 6020 | mg/kg | 2730 | | 2690 | | 1.48 | 2580 | | 2930 | | 12.70 |
| SSFL_VAL_Report_Inorganic | Chromium | 7440-47-3 | 6020 | mg/kg | 16.3 | | 16.3 | | 0.00 | 17.8 | | 17.0 | | 4.60 |
| SSFL_VAL_Report_Inorganic | Chromium VI | 18540-29-9 | 7199 | mg/kg | 1.19 | U | 1.17 | U | -- | 1.10 | U | 1.10 | U | -- |
| SSFL_VAL_Report_Inorganic | Cobalt | 7440-48-4 | 6020 | mg/kg | 4.51 | | 4.36 | | 3.38 | 4.96 | | 4.97 | | 0.20 |
| SSFL_VAL_Report_Inorganic | Copper | 7440-50-8 | 6020 | mg/kg | 6.16 | | 6.33 | | 2.72 | 7.81 | | 7.96 | | 1.90 |
| SSFL_VAL_Report_Inorganic | Cyanide | 57-12-5 | 9014 | mg/kg | 0.500 | U | 0.500 | U | -- | | | | | -- |
| SSFL_VAL_Report_Inorganic | Fluoride | 16984-48-8 | 300.0 | mg/kg | 1.00 | U | 1.00 | U | -- | 1.00 | U | 1.00 | U | -- |
| SSFL_VAL_Report_Inorganic | Iron | 7439-89-6 | 6020 | mg/kg | 18000 | | 17700 | | 1.68 | 19100 | | 19300 | | 1.04 |
| SSFL_VAL_Report_Inorganic | Lead | 7439-92-1 | 6020 | mg/kg | 6.26 | | 6.38 | | 1.90 | 9.09 | | 10.2 | | 11.51 |
| SSFL_VAL_Report_Inorganic | Lithium | 7439-93-2 | 6020 | mg/kg | 30.4 | | 30.1 | | 0.99 | 25.4 | | 25.7 | | 1.17 |
| SSFL_VAL_Report_Inorganic | Magnesium | 7439-95-4 | 6020 | mg/kg | 4400 | | 4310 | | 2.07 | 5680 | | 5680 | | 0.00 |
| SSFL_VAL_Report_Inorganic | Manganese | 7439-96-5 | 6020 | mg/kg | 311 | | 294 | J | 5.62 | 247 | | 255 | | 3.19 |
| SSFL_VAL_Report_Inorganic | Mercury | 7439-97-6 | 7471A | mg/kg | 0.119 | U | 0.117 | U | -- | 0.108 | U | 0.110 | U | -- |
| SSFL_VAL_Report_Inorganic | Molybdenum | 7439-98-7 | 6020 | mg/kg | 0.479 | | 0.458 | | 4.48 | 0.376 | | 0.398 | | 5.68 |
| SSFL_VAL_Report_Inorganic | Nickel | 7440-02-0 | 6020 | mg/kg | 9.57 | | 9.68 | | 1.14 | 10.9 | | 10.8 | | 0.92 |
| SSFL_VAL_Report_Inorganic | Nitrate | 14797-55-8 | 300.0 | mg/kg | 3.86 | | 3.42 | | 12.09 | | | | | |
| SSFL_VAL_Report_Inorganic | Percent Moisture | MOIST | 160.3M | % | 20.4 | | 15.2 | | 29.21 | 8.6 | | 9.0 | | 4.55 |
| SSFL_VAL_Report_Inorganic | Perchlorate | 14797-73-0 | 314.0 | ug/kg | 23.8 | U | 23.4 | U | -- | 21.9 | U | 22.0 | U | -- |
| SSFL_VAL_Report_Inorganic | Perchlorate | 14797-73-0 | 6850 | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Inorganic | pH | pH | 9045D | pH unit | 7.24 | | 7.38 | | 1.92 | 6.91 | | 6.83 | | 1.16 |
| SSFL_VAL_Report_Inorganic | Phosphorus | 7723-14-0 | 6020 | mg/kg | 300 | | 283 | | 5.83 | 349 | | 458 | J | 27.01 |
| SSFL_VAL_Report_Inorganic | Potassium | 7440-09-7 | 6020 | mg/kg | 2950 | | 2930 | | 0.68 | 2850 | | 3130 | | 9.36 |
| SSFL_VAL_Report_Inorganic | Selenium | 7782-49-2 | 6020 | mg/kg | 0.464 | UJ | 0.228 | J | 200.00 | 0.438 | U | 0.418 | U | -- |
| SSFL_VAL_Report_Inorganic | Silver | 7440-22-4 | 6020 | mg/kg | 0.116 | U | 0.114 | U | -- | 0.110 | U | 0.105 | U | -- |
| SSFL_VAL_Report_Inorganic | Sodium | 7440-23-5 | 6020 | mg/kg | 79.7 | J | 81.8 | J | 2.60 | 56.0 | J | 55.8 | J | 0.36 |
| SSFL_VAL_Report_Inorganic | Strontium | 7440-24-6 | 6020 | mg/kg | 20.2 | | 20.0 | | 1.00 | 11.8 | | 13.6 | | 14.17 |
| SSFL_VAL_Report_Inorganic | Thallium | 7440-28-0 | 6020 | mg/kg | 0.216 | | 0.212 | | 1.87 | 0.230 | | 0.232 | | 0.87 |
| SSFL_VAL_Report_Inorganic | Tin | 7440-31-5 | 6020 | mg/kg | 11.6 | U | 11.4 | U | -- | 11.0 | U | 10.5 | U | -- |
| SSFL_VAL_Report_Inorganic | Titanium | 7440-32-6 | 6020 | mg/kg | 875 | | 858 | | 1.96 | 1040 | | 1040 | | 0.00 |
| SSFL_VAL_Report_Inorganic | Vanadium | 7440-62-2 | 6020 | mg/kg | 31.6 | | 31.3 | | 0.95 | 38.6 | | 37.4 | | 3.16 |
| SSFL_VAL_Report_Inorganic | Zinc | 7440-66-6 | 6020 | mg/kg | 44.4 | | 43.7 | | 1.59 | 51.6 | | 54.8 | | 6.02 |
| SSFL_VAL_Report_Inorganic | Zirconium | 7440-67-7 | 6020 | mg/kg | 5.80 | U | 5.69 | UJ | -- | 5.48 | U | 5.23 | U | -- |
| SSFL_VAL_Report_Misc. Organics | 1,3,5-Trinitrobenzene | 99-35-4 | 8330A | ug/kg | 99 | U | 100 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2,4,6-Trinitrotoluene | 118-96-7 | 8330A | ug/kg | 99 | U | 100 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2,4-Diamino-6-nitrotoluene | 6629-29-4 | 8330A | ug/kg | 200 | U | 200 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2,4-Dinitrotoluene | 121-14-2 | 8330A | ug/kg | 99 | U | 100 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2,6-Diamino-4-nitrotoluene | 59229-75-3 | 8330A | ug/kg | 200 | U | 200 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2,6-Dinitrotoluene | 606-20-2 | 8330A | ug/kg | 99 | U | 100 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2-Amino-4,6-Dinitrotoluene | 35572-78-2 | 8330A | ug/kg | 99 | U | 100 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2-Nitrotoluene | 88-72-2 | 8330A | ug/kg | 99 | U | 100 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2-Propanol | 67-63-0 | 8015B | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 3-Nitrotoluene | 99-08-1 | 8330A | ug/kg | 99 | U | 100 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | 4-Amino-2,6-Dinitrotoluene | 19406-51-0 | 8330A | ug/kg | 99 | U | 100 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | 4-Nitrotoluene | 99-99-0 | 8330A | ug/kg | 99 | U | 100 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | Diethylene Glycol | 111-46-6 | 8015M | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Ethanol | 64-17-5 | 8015B | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Ethylene Glycol | 107-21-1 | 8015M | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Formaldehyde | 50-00-0 | 8315A | ug/kg | 190000 | U | 180000 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | HMX | 2691-41-0 | 8330A | ug/kg | 99 | U | 100 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | m-Dinitrobenzene | 99-65-0 | 8330A | ug/kg | 99 | U | 100 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | Methanol | 67-56-1 | 8015B | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | m-Terphenyl | 92-06-8 | 8015B | mg/kg | 4.4 | U | 4.1 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | Nitrobenzene | 98-95-3 | 8330A | ug/kg | 99 | U | 100 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | Nitroglycerin | 55-63-0 | 8332 | ug/kg | 990 | U | 1000 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | o-Terphenyl | 84-15-1 | 8015B | mg/kg | 4.4 | U | 4.1 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | PETN | 78-11-5 | 8332 | ug/kg | 990 | U | 1000 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | Propylene glycol | 57-55-6 | 8015M | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | p-Terphenyl | 92-94-4 | 8015B | mg/kg | 4.4 | U | 4.1 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | RDX | 121-82-4 | 8330A | ug/kg | 99 | U | 100 | U | -- | | | | | |
| SSFL_VAL_Report_Misc. Organics | Tetryl | 479-45-8 | 8330A | ug/kg | 99 | U | 100 | U | -- | | | | | |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,6,7,8-HpCDD | 35822-46-9 | 1613B | ng/kg | 241 | J | 101 | J | 81.87 | 2.60 | J | 2.70 | J | 3.77 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,6,7,8-HpCDF | 67562-39-4 | 1613B | ng/kg | 38.5 | J | 18.2 | J | 71.60 | 5.38 | U | 0.718 | J | 200.00 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,7,8,9-HpCDF | 55673-89-7 | 1613B | ng/kg | 4.44 | J | 1.71 | J | 88.78 | 5.38 | UJ | 5.47 | UJ | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,7,8-HxCDD | 39227-28-6 | 1613B | ng/kg | 1.38 | J | 0.255 | J | 137.61 | 0.313 | J | 5.47 | UJ | 200.00 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,7,8-HxCDF | 70648-26-9 | 1613B | ng/kg | 1.26 | J | 0.600 | J | 70.97 | 5.38 | UJ | 0.331 | J | 200.00 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,6,7,8-HxCDD | 57653-85-7 | 1613B | ng/kg | 8.94 | J | 2.71 | J | 106.95 | 5.38 | U | 5.47 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,6,7,8-HxCDF | 57117-44-9 | 1613B | ng/kg | 1.20 | J | 0.451 | J | 90.73 | 5.38 | UJ | 5.47 | UJ | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,7,8,9-HxCDD | 19408-74-3 | 1613B | ng/kg | 2.95 | J | 0.837 | J | 111.59 | 5.38 | U | 0.372 | J | 200.00 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,7,8,9-HxCDF | 72918-21-9 | 1613B | ng/kg | 0.425 | J | 5.72 | UJ | 200.00 | 5.38 | UJ | 0.200 | J | 200.00 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,7,8-PeCDD | 40321-76-4 | 1613B | ng/kg | 0.669 | J | 5.72 | UJ | 200.00 | 5.38 | U | 5.47 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,7,8-PeCDF | 57117-41-6 | 1613B | ng/kg | 0.646 | J | 0.228 | J | 95.65 | 5.38 | U | 0.487 | J | 200.00 |
| SSFL_VAL_Report_PCBs_Dioxins | 2,3,4,6,7,8-HxCDF | 60851-34-5 | 1613B | ng/kg | 2.20 | J | 0.890 | J | 84.79 | 5.38 | U | 5.47 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 2,3,4,7,8-PeCDF | 57117-31-4 | 1613B | ng/kg | 0.414 | J | 5.72 | UJ | 200.00 | 5.38 | U | 5.47 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 2,3,7,8-TCDD | 1746-01-6 | 1613B | ng/kg | 0.104 | J | 0.0537 | J | 63.79 | 0.0737 | J | 0.0407 | J | 57.69 |
| SSFL_VAL_Report_PCBs_Dioxins | 2,3,7,8-TCDF | 51207-31-9 | 1613B | ng/kg | 0.165 | J | 1.14 | UJ | 200.00 | 0.148 | J | 0.269 | J | 58.03 |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1016 | 12674-11-2 | 8082 | ug/kg | 5 | UY | 5 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1221 | 11104-28-2 | 8082 | ug/kg | 5 | UY | 5 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1232 | 11141-16-5 | 8082 | ug/kg | 5 | UY | 5 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1242 | 53469-21-9 | 8082 | ug/kg | 5 | UY | 5 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1248 | 12672-29-6 | 8082 | ug/kg | 5 | UY | 5 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1254 | 11097-69-1 | 8082 | ug/kg | 5 | UY | 5 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1260 | 11096-82-5 | 8082 | ug/kg | 3.3 | J | 5 | UJY | 200.00 | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1262 | 37324-23-5 | 8082 | ug/kg | 5 | UY | 5 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1268 | 11100-14-4 | 8082 | ug/kg | 5 | UY | 5 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 5432 | 63496-31-1 | 8082 | ug/kg | 9.75 | UY | 9.75 | UY | -- | 9 | UY | 9 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 5442 | 12642-23-8 | 8082 | ug/kg | 9.75 | UY | 9.75 | UY | -- | 9 | UY | 9 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 5460 | 11126-42-4 | 8082 | ug/kg | 5.6 | J | 9.75 | UJY | 200.00 | 9 | UY | 9 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | OCDD | 3268-87-9 | 1613B | ng/kg | 2260 | J | 1100 | J | 69.05 | 17.3 | | 21.9 | | 23.47 |
| SSFL_VAL_Report_PCBs_Dioxins | OCDF | 39001-02-0 | 1613B | ng/kg | 95.0 | J | 41.4 | J | 78.59 | 1.13 | J | 1.15 | J | 1.75 |
| SSFL_VAL_Report_Pesticides | 2,2-Dichlor-Propionic Acid | 75-99-0 | 8151A | ug/kg | 22 | UY | 22 | UY | -- | 19.8 | UY | 19.8 | UY | -- |
| SSFL_VAL_Report_Pesticides | 2,4 DB | 94-82-6 | 8151A | ug/kg | 4 | UY | 4 | UY | -- | 3.8 | UY | 3.8 | UY | -- |
| SSFL_VAL_Report_Pesticides | 2,4,5-T | 93-76-5 | 8151A | ug/kg | 0.4 | UY | 0.4 | UY | -- | 0.38 | UY | 0.38 | UY | -- |
| SSFL_VAL_Report_Pesticides | 2,4,5-TP | 93-72-1 | 8151A | ug/kg | 0.4 | UY | 0.4 | UY | -- | 0.38 | UY | 0.38 | UY | -- |
| SSFL_VAL_Report_Pesticides | 2,4-D | 94-75-7 | 8151A | ug/kg | 8.6 | UY | 8.4 | UY | -- | 7.8 | UY | 8 | UY | -- |
| SSFL_VAL_Report_Pesticides | 4,4'-DDD | 72-54-8 | 8081A | ug/kg | 1 | UY | 1 | UY | -- | 0.925 | UY | 0.925 | UY | -- |
| SSFL_VAL_Report_Pesticides | 4,4'-DDE | 72-55-9 | 8081A | ug/kg | 1 | UY | 1 | UY | -- | 0.75 | J | 0.23 | J | 106.12 |
| SSFL_VAL_Report_Pesticides | 4,4'-DDT | 50-29-3 | 8081A | ug/kg | 1 | UY | 1 | UY | -- | 2.6 | J | 0.925 | UJY | 200.00 |
| SSFL_VAL_Report_Pesticides | Aldrin | 309-00-2 | 8081A | ug/kg | 0.5 | UY | 0.5 | UY | -- | 0.475 | UY | 0.475 | UY | -- |
| SSFL_VAL_Report_Pesticides | Alpha-BHC | 319-84-6 | 8081A | ug/kg | 0.5 | UY | 0.5 | UY | -- | 0.475 | UY | 0.475 | UY | -- |
| SSFL_VAL_Report_Pesticides | Beta-BHC | 319-85-7 | 8081A | ug/kg | 0.5 | UY | 0.5 | UY | -- | 0.475 | UY | 0.475 | UY | -- |
| SSFL_VAL_Report_Pesticides | Chlordane (technical) | 12789-03-6 | 8081A | ug/kg | 10 | UY | 10 | UY | -- | 9.25 | UY | 9.25 | UY | -- |
| SSFL_VAL_Report_Pesticides | Delta-BHC | 319-86-8 | 8081A | ug/kg | 0.5 | UY | 0.5 | UY | -- | 0.475 | UY | 0.475 | UY | -- |
| SSFL_VAL_Report_Pesticides | Dicamba | 1918-00-9 | 8151A | ug/kg | 2.8 | UY | 2.8 | UJY | -- | 2.6 | UY | 2.6 | UJY | -- |
| SSFL_VAL_Report_Pesticides | Dichlorprop | 120-36-5 | 8151A | ug/kg | 5.8 | UY | 5.6 | UY | -- | 5.2 | UY | 5.2 | UY | -- |
| SSFL_VAL_Report_Pesticides | Dieldrin | 60-57-1 | 8081A | ug/kg | 1 | UY | 1 | UY | -- | 0.925 | UY | 0.925 | UY | -- |
| SSFL_VAL_Report_Pesticides | Dinitrobutyl Phenol | 88-85-7 | 8151A | ug/kg | 4 | UY | 4 | UY | -- | 3.8 | UY | 3.8 | UY | -- |
| SSFL_VAL_Report_Pesticides | Endosulfan I | 959-98-8 | 8081A | ug/kg | 0.5 | UY | 0.5 | UY | -- | 0.475 | UY | 0.475 | UY | -- |
| SSFL_VAL_Report_Pesticides | Endosulfan II | 33213-65-9 | 8081A | ug/kg | 1 | UY | 1 | UY | -- | 0.925 | UY | 0.925 | UY | -- |
| SSFL_VAL_Report_Pesticides | Endosulfan Sulfate | 1031-07-8 | 8081A | ug/kg | 1 | UY | 1 | UY | -- | 0.925 | UY | 0.925 | UY | -- |
| SSFL_VAL_Report_Pesticides | Endrin | 72-20-8 | 8081A | ug/kg | 1 | UY | 1 | UY | -- | 0.925 | UY | 0.925 | UY | -- |
| SSFL_VAL_Report_Pesticides | Endrin Aldehyde | 7421-93-4 | 8081A | ug/kg | 1 | UY | 1 | UY | -- | 0.925 | UY | 0.925 | UY | -- |
| SSFL_VAL_Report_Pesticides | Endrin Ketone | 53494-70-5 | 8081A | ug/kg | 1 | UY | 1 | UY | -- | 0.925 | UY | 0.925 | UY | -- |
| SSFL_VAL_Report_Pesticides | Gamma-BHC (Lindane) | 58-89-9 | 8081A | ug/kg | 0.5 | UY | 0.5 | UY | -- | 0.475 | UY | 0.475 | UY | -- |
| SSFL_VAL_Report_Pesticides | Heptachlor | 76-44-8 | 8081A | ug/kg | 0.5 | UY | 0.5 | UY | -- | 0.475 | UY | 0.475 | UY | -- |
| SSFL_VAL_Report_Pesticides | Heptachlor Epoxide | 1024-57-3 | 8081A | ug/kg | 0.5 | UY | 0.5 | UY | -- | 0.475 | UY | 0.475 | UY | -- |
| SSFL_VAL_Report_Pesticides | MCPA | 94-74-6 | 8151A | ug/kg | 600 | UY | 580 | UY | -- | 540 | UY | 540 | UY | -- |
| SSFL_VAL_Report_Pesticides | MCPP | 93-65-2 | 8151A | ug/kg | 600 | UY | 580 | UY | -- | 540 | UY | 540 | UY | -- |
| SSFL_VAL_Report_Pesticides | Methoxychlor | 72-43-5 | 8081A | ug/kg | 5 | UY | 5 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_Pesticides | Mirex | 2385-85-5 | 8081A | ug/kg | 1 | UY | 1 | UY | -- | 0.925 | UY | 0.925 | UY | -- |
| SSFL_VAL_Report_Pesticides | Toxaphene | 8001-35-2 | 8081A | ug/kg | 19.5 | UY | 19.25 | UY | -- | 18 | UY | 18 | UY | -- |
| SSFL_VAL_Report_Semivolatiles | 1,2,4-Trichlorobenzene | 120-82-1 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1,2-Dichlorobenzene | 95-50-1 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1,2-Diphenylhydrazine | 122-66-7 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1,3-Dichlorobenzene | 541-73-1 | 8270C | ug/kg | 200 | U | 200 | UJ | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1,4-Dichlorobenzene | 106-46-7 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1-Methylnaphthalene | 90-12-0 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4,5-Trichlorophenol | 95-95-4 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4,6-Trichlorophenol | 88-06-2 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4-Dichlorophenol | 120-83-2 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4-Dimethylphenol | 105-67-9 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |

**Table C-5 - NBZ Field Duplicate Results**

| | | | | Location | SL-092-NBZ | | SL-092-NBZ | | RPD | SL-118-NBZ | | SL-118-NBZ | | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Name: | DUP-05-NBZ-QC-032912 | | SL-092-NBZ-SS-0.0-0.5 | | | DUP-04-NBZ-QC-032912 | | SL-118-NBZ-SS-0.0-0.5 | | |
| | | | | Sample Date: | 03/29/2012 | | 03/29/2012 | | | 03/29/2012 | | 03/29/2012 | | |
| | | | | Start Depth: | 0 | | 0 | | | 0 | | 0 | | |
| | | | | End Depth: | 0.5 | | 0.5 | | | 0.5 | | 0.5 | | |
| | | | | Area: | NBZ | | NBZ | | | NBZ | | NBZ | | |
| | | | | Matrix: | SO | | SO | | | SO | | SO | | |
| | | | | Sample Type: | FD | | N | | | FD | | N | | |
| MAG: | Chemical Name: | CAS No.: | Lab Method: | Result Unit | Result | Final Qualifiers | Result | Final Qualifiers | | Result | Final Qualifiers | Result | Final Qualifiers | |
| SSFL_VAL_Report_Semivolatiles | 2,4-Dinitrophenol | 51-28-5 | 8270C | ug/kg | 400 | U | 390 | U | -- | 360 | U | 370 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4-Dinitrotoluene | 121-14-2 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,6-Dinitrotoluene | 606-20-2 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-butoxy-Ethanol | 111-76-2 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Chloronaphthalene | 91-58-7 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Chlorophenol | 95-57-8 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Methylnaphthalene | 91-57-6 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Methylphenol | 95-48-7 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Nitroaniline | 88-74-4 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Nitrophenol | 88-75-5 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-phenoxy-Ethanol | 122-99-6 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 3,3`-Dichlorobenzidine | 91-94-1 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 3,5-Dimethylphenol | 108-68-9 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 3-Nitroaniline | 99-09-2 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4,6-Dinitro-2-Methylphenol | 534-52-1 | 8270C | ug/kg | 400 | U | 390 | U | -- | 360 | U | 370 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Bromophenyl Phenyl Ether | 101-55-3 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Chloro-3-Methylphenol | 59-50-7 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Chloroaniline | 106-47-8 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Chlorophenyl Phenylether | 7005-72-3 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Methylphenol | 106-44-5 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Nitroaniline | 100-01-6 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Nitrophenol | 100-02-7 | 8270C | ug/kg | 400 | U | 390 | U | -- | 360 | U | 370 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Acenaphthene | 83-32-9 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Acenaphthylene | 208-96-8 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Aniline | 62-53-3 | 8270C | ug/kg | 400 | U | 390 | U | -- | 360 | U | 370 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Anthracene | 120-12-7 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzidine | 92-87-5 | 8270C | ug/kg | 990 | U | 970 | UJ | -- | 910 | U | 910 | UJ | -- |
| SSFL_VAL_Report_Semivolatiles | Benzo(a)anthracene | 56-55-3 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzo(a)pyrene | 50-32-8 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzo(b)fluoranthene | 205-99-2 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzo(g,h,i)perylene | 191-24-2 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzo(k)fluoranthene | 207-08-9 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzoic Acid | 65-85-0 | 8270C | ug/kg | 790 | U | 780 | U | -- | 730 | U | 730 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzyl Alcohol | 100-51-6 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Bis(2-Chloroethoxy) methane | 111-91-1 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Bis(2-Chloroethyl) ether | 111-44-4 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | bis(2-Chloroisopropyl) ether | 39638-32-9 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Bis(2-Ethylhexyl) phthalate | 117-81-7 | 8270C SIM | ug/kg | 17 | J | 16 | J | 6.06 | 21 | | 22 | | 4.65 |
| SSFL_VAL_Report_Semivolatiles | Butylbenzylphthalate | 85-68-7 | 8270C SIM | ug/kg | 20 | U | 20 | U | -- | 18 | U | 18 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Carbazole | 86-74-8 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Chrysene | 218-01-9 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Dibenzo(a,h)anthracene | 53-70-3 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Dibenzofuran | 132-64-9 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Diethylphthalate | 84-66-2 | 8270C SIM | ug/kg | 20 | U | 20 | U | -- | 18 | U | 18 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Dimethylphthalate | 131-11-3 | 8270C SIM | ug/kg | 20 | U | 20 | U | -- | 18 | U | 18 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Di-n-Butylphthalate | 84-74-2 | 8270C SIM | ug/kg | 20 | U | 20 | U | -- | 18 | U | 18 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Di-N-Octyl Phthalate | 117-84-0 | 8270C SIM | ug/kg | 20 | U | 20 | U | -- | 18 | U | 18 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Fluoranthene | 206-44-0 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.2 | J | 1.9 | UJ | 200.00 |
| SSFL_VAL_Report_Semivolatiles | Fluorene | 86-73-7 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Hexachlorobenzene | 118-74-1 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Hexachlorobutadiene | 87-68-3 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Hexachlorocyclopentadiene | 77-47-4 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Hexachloroethane | 67-72-1 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Indeno(1,2,3-Cd)Pyrene | 193-39-5 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Isophorone | 78-59-1 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Naphthalene | 91-20-3 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Nitrobenzene | 98-95-3 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | N-Nitrosodimethylamine | 62-75-9 | 1625C | ng/kg | 419 | U | 39.3 | U | -- | | | | | |
| SSFL_VAL_Report_Semivolatiles | N-Nitrosodimethylamine | 62-75-9 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | N-Nitroso-Di-N-Propylamine | 621-64-7 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | N-Nitrosodiphenylamine | 86-30-6 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Pentachlorophenol | 87-86-5 | 8270C | ug/kg | 400 | U | 390 | U | -- | 360 | U | 370 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Phenanthrene | 85-01-8 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Phenol | 108-95-2 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Pyrene | 129-00-0 | 8270C SIM | ug/kg | 2.0 | U | 2.0 | U | -- | 1.2 | J | 1.9 | UJ | 200.00 |
| SSFL_VAL_Report_Semivolatiles | Tetralin | 119-64-2 | 8270C | ug/kg | 200 | U | 200 | U | -- | 180 | U | 180 | U | -- |
| SSFL_VAL_Report_Volatiles | EFH (C12-C14) | PHCC12C14 | 8015B EFH | mg/kg | 1.2 | UJ | 1.9 | J | 200.00 | | | | | |
| SSFL_VAL_Report_Volatiles | EFH (C15-C20) | PHCC15C20 | 8015B EFH | mg/kg | 1.2 | UJ | 0.84 | J | 200.00 | | | | | |
| SSFL_VAL_Report_Volatiles | EFH (C21-C30) | PHCC21C30 | 8015B EFH | mg/kg | 4.2 | | 6.6 | | 44.44 | | | | | |
| SSFL_VAL_Report_Volatiles | EFH (C30-C40) | PHCC30C40 | 8015B EFH | mg/kg | 8.6 | | 9.7 | | 12.02 | | | | | |
| SSFL_VAL_Report_Volatiles | EFH (C8-C11) | PHCC8C11 | 8015B EFH | mg/kg | 0.61 | J | 1.7 | J | 94.37 | | | | | |
| SSFL_VAL_Report_Volatiles | GRO (C5-C12) | GROC5C12 | 8015B GRO | mg/kg | | | | | | | | | | |

ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- - RPD not calculated when both field duplicate and normal samples were
200* - When one result is nondetect a 200% RPD is given and sample results are qualified as estimated "J" or "UJ" in the field duplicate samples only
Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

**Table C-5 - NBZ Field Duplicate Results**

| | | | | Location | SL-160-NBZ | | SL-160-NBZ | | RPD | SL-173-NBZ | | SL-173-NBZ | | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Name: | DUP-10-NBZ-QC-041612 | | SL-160-NBZ-SS-0.0-0.5 | | | DUP-08-NBZ-QC-041612 | | SL-173-NBZ-SS-0.0-0.5 | | |
| | | | | Sample Date: | 04/16/2012 | | 04/16/2012 | | | 04/16/2012 | | 04/16/2012 | | |
| | | | | Start Depth: | 0 | | 0 | | | 0 | | 0 | | |
| | | | | End Depth: | 0.5 | | 0.5 | | | 0.5 | | 0.5 | | |
| | | | | Area: | NBZ | | NBZ | | | NBZ | | NBZ | | |
| | | | | Matrix: | SO | | SO | | | SO | | SO | | |
| | | | | Sample Type: | FD | | N | | | FD | | N | | |
| MAG: | Chemical Name: | CAS No.: | Lab Method: | Result Unit | Result | Final Qualifiers | Result | Final Qualifiers | | Result | Final Qualifiers | Result | Final Qualifiers | |
| SSFL_VAL_Report_Inorganic | Aluminum | 7429-90-5 | 6020 | mg/kg | 9610 | | 9850 | J | 2.47 | 10700 | J | 11500 | J | 7.21 |
| SSFL_VAL_Report_Inorganic | Antimony | 7440-36-0 | 6020 | mg/kg | 0.164 | J | 0.123 | J | 28.57 | 0.160 | J | 0.206 | J | 25.14 |
| SSFL_VAL_Report_Inorganic | Arsenic | 7440-38-2 | 6020 | mg/kg | 4.70 | | 4.36 | | 7.51 | 3.43 | | 3.90 | | 12.82 |
| SSFL_VAL_Report_Inorganic | Barium | 7440-39-3 | 6020 | mg/kg | 60.5 | | 51.9 | J | 15.30 | 74.0 | J | 82.0 | J | 10.26 |
| SSFL_VAL_Report_Inorganic | Beryllium | 7440-41-7 | 6020 | mg/kg | 0.494 | | 0.424 | | 15.25 | 0.394 | | 0.473 | | 18.22 |
| SSFL_VAL_Report_Inorganic | Boron | 7440-42-8 | 6020 | mg/kg | 5.47 | U | 5.58 | U | -- | 5.87 | U | 5.93 | U | -- |
| SSFL_VAL_Report_Inorganic | Cadmium | 7440-43-9 | 6020 | mg/kg | 0.205 | | 0.167 | | 20.43 | 0.206 | | 0.226 | | 9.26 |
| SSFL_VAL_Report_Inorganic | Calcium | 7440-70-2 | 6020 | mg/kg | 2290 | | 2340 | | 2.16 | 2800 | | 3280 | | 15.79 |
| SSFL_VAL_Report_Inorganic | Chromium | 7440-47-3 | 6020 | mg/kg | 11.2 | | 10.4 | | 7.41 | 10.6 | | 11.6 | | 9.01 |
| SSFL_VAL_Report_Inorganic | Chromium VI | 18540-29-9 | 7199 | mg/kg | 1.12 | U | 1.12 | U | -- | 1.19 | U | 1.21 | U | -- |
| SSFL_VAL_Report_Inorganic | Cobalt | 7440-48-4 | 6020 | mg/kg | 4.81 | | 4.59 | | 4.68 | 4.38 | | 4.87 | | 10.59 |
| SSFL_VAL_Report_Inorganic | Copper | 7440-50-8 | 6020 | mg/kg | 6.78 | | 6.03 | | 11.71 | 5.98 | | 6.69 | | 11.21 |
| SSFL_VAL_Report_Inorganic | Cyanide | 57-12-5 | 9014 | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Inorganic | Fluoride | 16984-48-8 | 300.0 | mg/kg | 1.12 | U | 1.12 | U | -- | 1.19 | U | 1.21 | U | -- |
| SSFL_VAL_Report_Inorganic | Iron | 7439-89-6 | 6020 | mg/kg | 20100 | | 19300 | | 4.06 | 18400 | | 19600 | | 6.32 |
| SSFL_VAL_Report_Inorganic | Lead | 7439-92-1 | 6020 | mg/kg | 9.49 | | 7.04 | | 29.64 | 12.1 | | 13.8 | | 13.13 |
| SSFL_VAL_Report_Inorganic | Lithium | 7439-93-2 | 6020 | mg/kg | 28.6 | | 28.2 | | 1.41 | 26.5 | | 28.9 | | 8.66 |
| SSFL_VAL_Report_Inorganic | Magnesium | 7439-95-4 | 6020 | mg/kg | 4160 | | 4150 | | 0.24 | 3810 | | 4110 | | 7.58 |
| SSFL_VAL_Report_Inorganic | Manganese | 7439-96-5 | 6020 | mg/kg | 260 | | 254 | | 2.33 | 268 | | 292 | | 8.57 |
| SSFL_VAL_Report_Inorganic | Mercury | 7439-97-6 | 7471A | mg/kg | 0.112 | U | 0.111 | U | -- | 0.118 | U | 0.120 | U | -- |
| SSFL_VAL_Report_Inorganic | Molybdenum | 7439-98-7 | 6020 | mg/kg | 0.359 | | 0.352 | | 1.97 | 0.424 | | 0.476 | | 11.56 |
| SSFL_VAL_Report_Inorganic | Nickel | 7440-02-0 | 6020 | mg/kg | 7.36 | | 6.55 | | 11.65 | 6.90 | | 7.65 | | 10.31 |
| SSFL_VAL_Report_Inorganic | Nitrate | 14797-55-8 | 300.0 | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Inorganic | Percent Moisture | MOIST | 160.3M | % | | | 10.2 | | -- | 15.9 | | 16.7 | | 4.91 |
| SSFL_VAL_Report_Inorganic | Perchlorate | 14797-73-0 | 314.0 | ug/kg | 22.4 | U | 22.3 | U | -- | 23.8 | U | 24.2 | U | -- |
| SSFL_VAL_Report_Inorganic | Perchlorate | 14797-73-0 | 6850 | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Inorganic | pH | pH | 9045D | pH unit | 6.25 | | 6.36 | | 1.74 | 6.55 | | 6.82 | | 4.04 |
| SSFL_VAL_Report_Inorganic | Phosphorus | 7723-14-0 | 6020 | mg/kg | 395 | | 326 | J | 19.14 | 364 | J | 397 | J | 8.67 |
| SSFL_VAL_Report_Inorganic | Potassium | 7440-09-7 | 6020 | mg/kg | 2720 | | 2460 | J | 10.04 | 3440 | J | 3670 | J | 6.47 |
| SSFL_VAL_Report_Inorganic | Selenium | 7782-49-2 | 6020 | mg/kg | 0.887 | | 0.687 | | 25.41 | 0.284 | J | 0.330 | J | 14.98 |
| SSFL_VAL_Report_Inorganic | Silver | 7440-22-4 | 6020 | mg/kg | 0.109 | U | 0.112 | U | -- | 0.117 | U | 0.119 | U | -- |
| SSFL_VAL_Report_Inorganic | Sodium | 7440-23-5 | 6020 | mg/kg | 109 | U | 57.0 | J | 200.00 | 62.9 | J | 72.2 | J | 13.77 |
| SSFL_VAL_Report_Inorganic | Strontium | 7440-24-6 | 6020 | mg/kg | 10.3 | | 9.24 | | 10.85 | 17.6 | | 20.3 | | 14.25 |
| SSFL_VAL_Report_Inorganic | Thallium | 7440-28-0 | 6020 | mg/kg | 0.253 | | 0.224 | | 12.16 | 0.228 | | 0.247 | | 8.00 |
| SSFL_VAL_Report_Inorganic | Tin | 7440-31-5 | 6020 | mg/kg | 10.9 | U | 11.2 | U | -- | 11.7 | U | 11.9 | U | -- |
| SSFL_VAL_Report_Inorganic | Titanium | 7440-32-6 | 6020 | mg/kg | 785 | | 780 | | 0.64 | 834 | | 900 | | 7.61 |
| SSFL_VAL_Report_Inorganic | Vanadium | 7440-62-2 | 6020 | mg/kg | 25.7 | | 23.4 | | 9.37 | 24.3 | | 26.8 | | 9.78 |
| SSFL_VAL_Report_Inorganic | Zinc | 7440-66-6 | 6020 | mg/kg | 59.1 | | 57.1 | | 3.44 | 56.9 | | 60.6 | | 6.30 |
| SSFL_VAL_Report_Inorganic | Zirconium | 7440-67-7 | 6020 | mg/kg | 5.47 | U | 5.58 | UJ | -- | 5.87 | UJ | 5.93 | UJ | -- |
| SSFL_VAL_Report_Misc. Organics | 1,3,5-Trinitrobenzene | 99-35-4 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2,4,6-Trinitrotoluene | 118-96-7 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2,4-Diamino-6-nitrotoluene | 6629-29-4 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2,4-Dinitrotoluene | 121-14-2 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2,6-Diamino-4-nitrotoluene | 59229-75-3 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2,6-Dinitrotoluene | 606-20-2 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2-Amino-4,6-Dinitrotoluene | 35572-78-2 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2-Nitrotoluene | 88-72-2 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2-Propanol | 67-63-0 | 8015B | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 3-Nitrotoluene | 99-08-1 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 4-Amino-2,6-Dinitrotoluene | 19406-51-0 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 4-Nitrotoluene | 99-99-0 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Diethylene Glycol | 111-46-6 | 8015M | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Ethanol | 64-17-5 | 8015B | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Ethylene Glycol | 107-21-1 | 8015M | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Formaldehyde | 50-00-0 | 8315A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | HMX | 2691-41-0 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | m-Dinitrobenzene | 99-65-0 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Methanol | 67-56-1 | 8015B | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | m-Terphenyl | 92-06-8 | 8015B | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Nitrobenzene | 98-95-3 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Nitroglycerin | 55-63-0 | 8332 | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | o-Terphenyl | 84-15-1 | 8015B | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | PETN | 78-11-5 | 8332 | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Propylene glycol | 57-55-6 | 8015M | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | p-Terphenyl | 92-94-4 | 8015B | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | RDX | 121-82-4 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Tetryl | 479-45-8 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,6,7,8-HpCDD | 35822-46-9 | 1613B | ng/kg | 1.97 | J | 1.94 | J | 1.53 | 2.89 | J | 3.96 | J | 31.24 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,6,7,8-HpCDF | 67562-39-4 | 1613B | ng/kg | 0.492 | J | 0.474 | J | 3.73 | 0.802 | J | 0.926 | J | 14.35 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,7,8,9-HpCDF | 55673-89-7 | 1613B | ng/kg | 5.61 | U | 5.47 | U | -- | 5.85 | U | 5.98 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,7,8-HxCDD | 39227-28-6 | 1613B | ng/kg | 5.61 | U | 5.47 | U | -- | 0.164 | J | 0.289 | J | 55.19 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,7,8-HxCDF | 70648-26-9 | 1613B | ng/kg | 0.238 | J | 5.47 | U | 200.00 | 5.85 | U | 0.405 | J | 200.00 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,6,7,8-HxCDD | 57653-85-7 | 1613B | ng/kg | 5.61 | U | 5.47 | U | -- | 0.466 | J | 0.629 | J | 29.77 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,6,7,8-HxCDF | 57117-44-9 | 1613B | ng/kg | 0.159 | J | 5.47 | U | 200.00 | 0.267 | J | 0.426 | J | 45.89 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,7,8,9-HxCDD | 19408-74-3 | 1613B | ng/kg | 0.247 | J | 5.47 | U | 200.00 | 0.635 | J | 0.717 | J | 12.13 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,7,8,9-HxCDF | 72918-21-9 | 1613B | ng/kg | 5.61 | U | 5.47 | U | -- | 5.85 | U | 5.98 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,7,8-PeCDD | 40321-76-4 | 1613B | ng/kg | 0.108 | J | 5.47 | U | 200.00 | 0.313 | J | 0.415 | J | 28.02 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,7,8-PeCDF | 57117-41-6 | 1613B | ng/kg | 0.253 | J | 0.139 | J | 58.16 | 0.368 | J | 0.617 | J | 50.56 |
| SSFL_VAL_Report_PCBs_Dioxins | 2,3,4,6,7,8-HxCDF | 60851-34-5 | 1613B | ng/kg | 0.225 | J | 5.47 | U | 200.00 | 5.85 | U | 0.371 | J | 200.00 |
| SSFL_VAL_Report_PCBs_Dioxins | 2,3,4,7,8-PeCDF | 57117-31-4 | 1613B | ng/kg | 0.605 | J | 5.47 | U | 200.00 | 0.659 | J | 0.817 | J | 21.41 |
| SSFL_VAL_Report_PCBs_Dioxins | 2,3,7,8-TCDD | 1746-01-6 | 1613B | ng/kg | 1.12 | U | 1.09 | U | -- | 1.17 | U | 1.20 | U | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 2,3,7,8-TCDF | 51207-31-9 | 1613B | ng/kg | 0.208 | J | 1.09 | U | 200.00 | 0.202 | J | 0.277 | J | 31.32 |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1016 | 12674-11-2 | 8082 | ug/kg | 4.75 | UY | 4.75 | UY | -- | 5 | UY | 5.25 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1221 | 11104-28-2 | 8082 | ug/kg | 4.75 | UY | 4.75 | UY | -- | 5 | UY | 5.25 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1232 | 11141-16-5 | 8082 | ug/kg | 4.75 | UY | 4.75 | UY | -- | 5 | UY | 5.25 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1242 | 53469-21-9 | 8082 | ug/kg | 4.75 | UY | 4.75 | UY | -- | 5 | UY | 5.25 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1248 | 12672-29-6 | 8082 | ug/kg | 4.75 | UY | 4.75 | UY | -- | 5 | UY | 5.25 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1254 | 11097-69-1 | 8082 | ug/kg | 4.75 | UY | 4.75 | UY | -- | 5 | UY | 5.25 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1260 | 11096-82-5 | 8082 | ug/kg | 4.75 | UY | 4.75 | UY | -- | 5 | UY | 5.25 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1262 | 37324-23-5 | 8082 | ug/kg | 4.75 | UY | 4.75 | UY | -- | 5 | UY | 5.25 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1268 | 11100-14-4 | 8082 | ug/kg | 4.75 | UY | 4.75 | UY | -- | 5 | UY | 5.25 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 5432 | 63496-31-1 | 8082 | ug/kg | 9.25 | UY | 9.25 | UY | -- | 9.75 | UY | 10 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 5442 | 12642-23-8 | 8082 | ug/kg | 9.25 | UY | 9.25 | UY | -- | 9.75 | UY | 10 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 5460 | 11126-42-4 | 8082 | ug/kg | 9.25 | UY | 9.25 | UY | -- | 9.75 | UY | 10 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | OCDD | 3268-87-9 | 1613B | ng/kg | 10.7 | J | 12.9 | | 18.64 | 18.7 | | 22.3 | | 17.56 |
| SSFL_VAL_Report_PCBs_Dioxins | OCDF | 39001-02-0 | 1613B | ng/kg | 0.826 | J | 0.711 | J | 14.96 | 1.35 | J | 1.36 | J | 0.74 |
| SSFL_VAL_Report_Pesticides | 2,2-Dichlor-Propionic Acid | 75-99-0 | 8151A | ug/kg | 20 | UY | 20 | UY | -- | 22 | UY | 22 | UY | -- |
| SSFL_VAL_Report_Pesticides | 2,4 DB | 94-82-6 | 8151A | ug/kg | 3.8 | UY | 3.8 | UY | -- | 4 | UY | 4.2 | UY | -- |
| SSFL_VAL_Report_Pesticides | 2,4,5-T | 93-76-5 | 8151A | ug/kg | 0.38 | UY | 0.38 | UY | -- | 0.4 | UY | 0.42 | UY | -- |
| SSFL_VAL_Report_Pesticides | 2,4,5-TP | 93-72-1 | 8151A | ug/kg | 0.38 | UY | 0.38 | UY | -- | 0.4 | UY | 0.42 | UY | -- |
| SSFL_VAL_Report_Pesticides | 2,4-D | 94-75-7 | 8151A | ug/kg | 8 | UY | 8 | UY | -- | 8.6 | UY | 8.8 | UY | -- |
| SSFL_VAL_Report_Pesticides | 4,4'-DDD | 72-54-8 | 8081A | ug/kg | 0.95 | UY | 0.95 | UY | -- | 1.025 | UY | 1.025 | UY | -- |
| SSFL_VAL_Report_Pesticides | 4,4'-DDE | 72-55-9 | 8081A | ug/kg | 1.1 | | 0.92 | | 17.82 | 0.52 | | 0.72 | | 32.26 |
| SSFL_VAL_Report_Pesticides | 4,4'-DDT | 50-29-3 | 8081A | ug/kg | 1.7 | | 0.35 | J | 131.71 | 0.55 | J | 1.1 | J | 66.67 |
| SSFL_VAL_Report_Pesticides | Aldrin | 309-00-2 | 8081A | ug/kg | 0.475 | UY | 0.475 | UY | -- | 0.5 | UY | 0.525 | UY | -- |
| SSFL_VAL_Report_Pesticides | Alpha-BHC | 319-84-6 | 8081A | ug/kg | 0.475 | UY | 0.475 | UY | -- | 0.5 | UY | 0.525 | UY | -- |
| SSFL_VAL_Report_Pesticides | Beta-BHC | 319-85-7 | 8081A | ug/kg | 0.475 | UY | 0.475 | UY | -- | 0.5 | UY | 0.525 | UY | -- |
| SSFL_VAL_Report_Pesticides | Chlordane (technical) | 12789-03-6 | 8081A | ug/kg | 9.5 | UY | 9.5 | UY | -- | 10.25 | UY | 10.25 | UY | -- |
| SSFL_VAL_Report_Pesticides | Delta-BHC | 319-86-8 | 8081A | ug/kg | 0.475 | UY | 0.475 | UY | -- | 0.5 | UY | 0.525 | UY | -- |
| SSFL_VAL_Report_Pesticides | Dicamba | 1918-00-9 | 8151A | ug/kg | 2.6 | UY | 2.6 | UY | -- | 2.8 | UY | 3 | UY | -- |
| SSFL_VAL_Report_Pesticides | Dichlorprop | 120-36-5 | 8151A | ug/kg | 5.4 | UY | 5.4 | UY | -- | 5.8 | UY | 5.8 | UY | -- |
| SSFL_VAL_Report_Pesticides | Dieldrin | 60-57-1 | 8081A | ug/kg | 0.95 | UY | 0.95 | UY | -- | 1.025 | UY | 1.025 | UY | -- |
| SSFL_VAL_Report_Pesticides | Dinitrobutyl Phenol | 88-85-7 | 8151A | ug/kg | 3.8 | UY | 3.8 | UY | -- | 4 | UY | 4.2 | UY | -- |
| SSFL_VAL_Report_Pesticides | Endosulfan I | 959-98-8 | 8081A | ug/kg | 0.475 | UY | 0.475 | UY | -- | 0.5 | UY | 0.525 | UY | -- |
| SSFL_VAL_Report_Pesticides | Endosulfan II | 33213-65-9 | 8081A | ug/kg | 0.95 | UY | 0.95 | UY | -- | 1.025 | UY | 1.025 | UY | -- |
| SSFL_VAL_Report_Pesticides | Endosulfan Sulfate | 1031-07-8 | 8081A | ug/kg | 0.95 | UY | 0.95 | UY | -- | 1.025 | UY | 1.025 | UY | -- |
| SSFL_VAL_Report_Pesticides | Endrin | 72-20-8 | 8081A | ug/kg | 0.95 | UY | 0.95 | UY | -- | 1.025 | UY | 1.025 | UY | -- |
| SSFL_VAL_Report_Pesticides | Endrin Aldehyde | 7421-93-4 | 8081A | ug/kg | 0.95 | UY | 0.95 | UY | -- | 1.025 | UY | 1.025 | UY | -- |
| SSFL_VAL_Report_Pesticides | Endrin Ketone | 53494-70-5 | 8081A | ug/kg | 0.95 | UY | 0.95 | UY | -- | 1.025 | UY | 1.025 | UY | -- |
| SSFL_VAL_Report_Pesticides | Gamma-BHC (Lindane) | 58-89-9 | 8081A | ug/kg | 0.475 | UY | 0.475 | UY | -- | 0.5 | UY | 0.525 | UY | -- |
| SSFL_VAL_Report_Pesticides | Heptachlor | 76-44-8 | 8081A | ug/kg | 0.475 | UY | 0.475 | UY | -- | 0.5 | UY | 0.525 | UY | -- |
| SSFL_VAL_Report_Pesticides | Heptachlor Epoxide | 1024-57-3 | 8081A | ug/kg | 0.475 | UY | 0.475 | UY | -- | 0.5 | UY | 0.525 | UY | -- |
| SSFL_VAL_Report_Pesticides | MCPA | 94-74-6 | 8151A | ug/kg | 560 | UY | 560 | UY | -- | 600 | UY | 600 | UY | -- |
| SSFL_VAL_Report_Pesticides | MCPP | 93-65-2 | 8151A | ug/kg | 560 | UY | 560 | UY | -- | 600 | UY | 600 | UY | -- |
| SSFL_VAL_Report_Pesticides | Methoxychlor | 72-43-5 | 8081A | ug/kg | 4.75 | UY | 4.75 | UY | -- | 5 | UY | 5.25 | UY | -- |
| SSFL_VAL_Report_Pesticides | Mirex | 2385-85-5 | 8081A | ug/kg | 0.95 | UY | 0.95 | UY | -- | 1.025 | UY | 1.025 | UY | -- |
| SSFL_VAL_Report_Pesticides | Toxaphene | 8001-35-2 | 8081A | ug/kg | 18.5 | UY | 18.5 | UY | -- | 19.75 | UY | 20 | UY | -- |
| SSFL_VAL_Report_Semivolatiles | 1,2,4-Trichlorobenzene | 120-82-1 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1,2-Dichlorobenzene | 95-50-1 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1,2-Diphenylhydrazine | 122-66-7 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1,3-Dichlorobenzene | 541-73-1 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1,4-Dichlorobenzene | 106-46-7 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1-Methylnaphthalene | 90-12-0 | 8270C SIM | ug/kg | 1.9 | U | 1.9 | U | -- | 2.0 | U | 2.1 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4,5-Trichlorophenol | 95-95-4 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4,6-Trichlorophenol | 88-06-2 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4-Dichlorophenol | 120-83-2 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4-Dimethylphenol | 105-67-9 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |

**Table C-5 - NBZ Field Duplicate Results**

| | | | | Location | SL-160-NBZ | | SL-160-NBZ | | RPD | SL-173-NBZ | | SL-173-NBZ | | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Name: | DUP-10-NBZ-QC-041612 | | SL-160-NBZ-SS-0.0-0.5 | | | DUP-08-NBZ-QC-041612 | | SL-173-NBZ-SS-0.0-0.5 | | |
| | | | | Sample Date: | 04/16/2012 | | 04/16/2012 | | | 04/16/2012 | | 04/16/2012 | | |
| | | | | Start Depth: | 0 | | 0 | | | 0 | | 0 | | |
| | | | | End Depth: | 0.5 | | 0.5 | | | 0.5 | | 0.5 | | |
| | | | | Area: | NBZ | | NBZ | | | NBZ | | NBZ | | |
| | | | | Matrix: | SO | | SO | | | SO | | SO | | |
| | | | | Sample Type: | FD | | N | | | FD | | N | | |
| MAG: | Chemical Name: | CAS No.: | Lab Method: | Result Unit | Result | Final Qualifiers | Result | Final Qualifiers | | Result | Final Qualifiers | Result | Final Qualifiers | |
| SSFL_VAL_Report_Semivolatiles | 2,4-Dinitrophenol | 51-28-5 | 8270C | ug/kg | 370 | U | 370 | U | -- | 400 | U | 400 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4-Dinitrotoluene | 121-14-2 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,6-Dinitrotoluene | 606-20-2 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-butoxy-Ethanol | 111-76-2 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Chloronaphthalene | 91-58-7 | 8270C | ug/kg | 190 | UJ | 190 | UJ | -- | 200 | UJ | 200 | UJ | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Chlorophenol | 95-57-8 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Methylnaphthalene | 91-57-6 | 8270C SIM | ug/kg | 1.9 | U | 1.9 | U | -- | 2.0 | U | 2.1 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Methylphenol | 95-48-7 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Nitroaniline | 88-74-4 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Nitrophenol | 88-75-5 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-phenoxy-Ethanol | 122-99-6 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 3,3`-Dichlorobenzidine | 91-94-1 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 3,5-Dimethylphenol | 108-68-9 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 3-Nitroaniline | 99-09-2 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4,6-Dinitro-2-Methylphenol | 534-52-1 | 8270C | ug/kg | 370 | U | 370 | U | -- | 400 | U | 400 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Bromophenyl Phenyl Ether | 101-55-3 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Chloro-3-Methylphenol | 59-50-7 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Chloroaniline | 106-47-8 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Chlorophenyl Phenylether | 7005-72-3 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Methylphenol | 106-44-5 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Nitroaniline | 100-01-6 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Nitrophenol | 100-02-7 | 8270C | ug/kg | 370 | U | 370 | U | -- | 400 | U | 400 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Acenaphthene | 83-32-9 | 8270C SIM | ug/kg | 1.9 | U | 1.9 | U | -- | 2.0 | U | 2.1 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Acenaphthylene | 208-96-8 | 8270C SIM | ug/kg | 1.9 | U | 1.9 | U | -- | 2.0 | U | 2.1 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Aniline | 62-53-3 | 8270C | ug/kg | 370 | UJ | 370 | UJ | -- | 400 | UJ | 400 | UJ | -- |
| SSFL_VAL_Report_Semivolatiles | Anthracene | 120-12-7 | 8270C SIM | ug/kg | 1.9 | U | 1.9 | U | -- | 2.0 | U | 2.1 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzidine | 92-87-5 | 8270C | ug/kg | 930 | U | 930 | U | -- | 990 | U | 1000 | R | -- |
| SSFL_VAL_Report_Semivolatiles | Benzo(a)anthracene | 56-55-3 | 8270C SIM | ug/kg | 1.9 | U | 1.4 | J | 200.00 | 1.5 | J | 2.3 | | 42.11 |
| SSFL_VAL_Report_Semivolatiles | Benzo(a)pyrene | 50-32-8 | 8270C SIM | ug/kg | 1.9 | U | 1.9 | U | -- | 2.0 | UJ | 3.0 | J | 200.00 |
| SSFL_VAL_Report_Semivolatiles | Benzo(b)fluoranthene | 205-99-2 | 8270C SIM | ug/kg | 1.9 | U | 1.9 | U | -- | 1.4 | J | 4.5 | J | 105.08 |
| SSFL_VAL_Report_Semivolatiles | Benzo(g,h,i)perylene | 191-24-2 | 8270C SIM | ug/kg | 1.9 | U | 1.9 | U | -- | 2.0 | UJ | 3.4 | J | 200.00 |
| SSFL_VAL_Report_Semivolatiles | Benzo(k)fluoranthene | 207-08-9 | 8270C SIM | ug/kg | 1.9 | U | 1.9 | U | -- | 2.0 | U | 2.1 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzoic Acid | 65-85-0 | 8270C | ug/kg | 750 | U | 740 | U | -- | 790 | U | 810 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzyl Alcohol | 100-51-6 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Bis(2-Chloroethoxy) methane | 111-91-1 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Bis(2-Chloroethyl) ether | 111-44-4 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | bis(2-Chloroisopropyl) ether | 39638-32-9 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Bis(2-Ethylhexyl) phthalate | 117-81-7 | 8270C SIM | ug/kg | 19 | U | 13 | J | 200.00 | 11 | J | 13 | J | 16.67 |
| SSFL_VAL_Report_Semivolatiles | Butylbenzylphthalate | 85-68-7 | 8270C SIM | ug/kg | 9.6 | J | 9.4 | J | 2.11 | 20 | U | 20 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Carbazole | 86-74-8 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Chrysene | 218-01-9 | 8270C SIM | ug/kg | 1.9 | U | 1.9 | U | -- | 2.0 | UJ | 2.7 | J | 200.00 |
| SSFL_VAL_Report_Semivolatiles | Dibenzo(a,h)anthracene | 53-70-3 | 8270C SIM | ug/kg | 1.9 | U | 1.9 | U | -- | 2.0 | UJ | 2.2 | J | 200.00 |
| SSFL_VAL_Report_Semivolatiles | Dibenzofuran | 132-64-9 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Diethylphthalate | 84-66-2 | 8270C SIM | ug/kg | 19 | U | 19 | U | -- | 20 | U | 20 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Dimethylphthalate | 131-11-3 | 8270C SIM | ug/kg | 19 | U | 19 | U | -- | 20 | U | 20 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Di-n-Butylphthalate | 84-74-2 | 8270C SIM | ug/kg | 19 | U | 19 | U | -- | 20 | U | 20 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Di-N-Octyl Phthalate | 117-84-0 | 8270C SIM | ug/kg | 19 | U | 19 | U | -- | 20 | U | 20 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Fluoranthene | 206-44-0 | 8270C SIM | ug/kg | 1.9 | U | 1.9 | U | -- | 2.0 | UJ | 4.1 | J | 200.00 |
| SSFL_VAL_Report_Semivolatiles | Fluorene | 86-73-7 | 8270C SIM | ug/kg | 1.9 | U | 1.9 | U | -- | 2.0 | U | 2.1 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Hexachlorobenzene | 118-74-1 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Hexachlorobutadiene | 87-68-3 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Hexachlorocyclopentadiene | 77-47-4 | 8270C | ug/kg | 190 | UJ | 190 | UJ | -- | 200 | UJ | 200 | R | -- |
| SSFL_VAL_Report_Semivolatiles | Hexachloroethane | 67-72-1 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Indeno(1,2,3-Cd)Pyrene | 193-39-5 | 8270C SIM | ug/kg | 1.9 | U | 1.9 | U | -- | 2.0 | UJ | 4.0 | J | 200.00 |
| SSFL_VAL_Report_Semivolatiles | Isophorone | 78-59-1 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Naphthalene | 91-20-3 | 8270C SIM | ug/kg | 1.9 | U | 1.9 | U | -- | 2.0 | U | 2.1 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Nitrobenzene | 98-95-3 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | N-Nitrosodimethylamine | 62-75-9 | 1625C | ng/kg | | | | | | | | | | |
| SSFL_VAL_Report_Semivolatiles | N-Nitrosodimethylamine | 62-75-9 | 8270C SIM | ug/kg | 1.9 | U | 1.9 | U | -- | 2.0 | U | 2.1 | U | -- |
| SSFL_VAL_Report_Semivolatiles | N-Nitroso-Di-N-Propylamine | 621-64-7 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | N-Nitrosodiphenylamine | 86-30-6 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Pentachlorophenol | 87-86-5 | 8270C | ug/kg | 370 | U | 370 | U | -- | 400 | U | 400 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Phenanthrene | 85-01-8 | 8270C SIM | ug/kg | 1.9 | U | 1.9 | U | -- | 2.0 | UJ | 1.7 | J | 200.00 |
| SSFL_VAL_Report_Semivolatiles | Phenol | 108-95-2 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Pyrene | 129-00-0 | 8270C SIM | ug/kg | 1.9 | U | 1.9 | U | -- | 2.0 | UJ | 3.6 | J | 200.00 |
| SSFL_VAL_Report_Semivolatiles | Tetralin | 119-64-2 | 8270C | ug/kg | 190 | U | 190 | U | -- | 200 | U | 200 | U | -- |
| SSFL_VAL_Report_Volatiles | EFH (C12-C14) | PHCC12C14 | 8015B EFH | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Volatiles | EFH (C15-C20) | PHCC15C20 | 8015B EFH | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Volatiles | EFH (C21-C30) | PHCC21C30 | 8015B EFH | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Volatiles | EFH (C30-C40) | PHCC30C40 | 8015B EFH | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Volatiles | EFH (C8-C11) | PHCC8C11 | 8015B EFH | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Volatiles | GRO (C5-C12) | GROC5C12 | 8015B GRO | mg/kg | | | | | | | | | | |

ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- - RPD not calculated when both field duplicate and normal samples were
200* - When one result is nondetect a 200% RPD is given and sample results are qualified as estimated "J" or "UJ" in the field duplicate samples only
Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

**Table C-5 - NBZ Field Duplicate Results**

| | | | | | Location | SL-191-NBZ | | SL-191-NBZ | | RPD | SL-193-NBZ | | SL-193-NBZ | | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Sample Name: | DUP-06-NBZ-QC-040912 | | SL-191-NBZ-SS-0.0-0.5 | | | DUP-09-NBZ-QC-041912 | | SL-193-NBZ-SS-0.0-0.5 | | |
| | | | | | Sample Date: | 04/09/2012 | | 04/09/2012 | | | 04/19/2012 | | 04/19/2012 | | |
| | | | | | Start Depth: | 0 | | 0 | | | 0 | | 0 | | |
| | | | | | End Depth: | 0.5 | | 0.5 | | | 0.5 | | 0.5 | | |
| | | | | | Area: | NBZ | | NBZ | | | NBZ | | NBZ | | |
| | | | | | Matrix: | SO | | SO | | | SO | | SO | | |
| | | | | | Sample Type: | FD | | N | | | FD | | N | | |
| MAG: | Chemical Name: | CAS No.: | Lab Method: | Result Unit | Result | Final Qualifiers | Result | Final Qualifiers | | Result | Final Qualifiers | Result | Final Qualifiers | |
| SSFL_VAL_Report_Inorganic | Aluminum | 7429-90-5 | 6020 | mg/kg | 15600 | | 18600 | | 17.54 | 10700 | | 10100 | | 5.77 |
| SSFL_VAL_Report_Inorganic | Antimony | 7440-36-0 | 6020 | mg/kg | 0.330 | | 0.249 | J | 27.98 | 0.222 | UJ | 0.147 | J | 200.00 |
| SSFL_VAL_Report_Inorganic | Arsenic | 7440-38-2 | 6020 | mg/kg | 8.97 | | 7.37 | | 19.58 | 5.75 | | 5.99 | | 4.09 |
| SSFL_VAL_Report_Inorganic | Barium | 7440-39-3 | 6020 | mg/kg | 109 | | 127 | J | 15.25 | 74.7 | | 77.5 | | 3.68 |
| SSFL_VAL_Report_Inorganic | Beryllium | 7440-41-7 | 6020 | mg/kg | 0.692 | | 0.857 | | 21.30 | 0.394 | | 0.400 | | 1.51 |
| SSFL_VAL_Report_Inorganic | Boron | 7440-42-8 | 6020 | mg/kg | 5.41 | U | 5.47 | U | -- | 5.56 | U | 5.59 | U | -- |
| SSFL_VAL_Report_Inorganic | Cadmium | 7440-43-9 | 6020 | mg/kg | 0.231 | | 0.234 | | 1.29 | 0.202 | | 0.212 | | 4.83 |
| SSFL_VAL_Report_Inorganic | Calcium | 7440-70-2 | 6020 | mg/kg | 3830 | | 3870 | | 1.04 | 2120 | | 2420 | | 13.22 |
| SSFL_VAL_Report_Inorganic | Chromium | 7440-47-3 | 6020 | mg/kg | 17.5 | | 19.6 | | 11.32 | 11.3 | | 10.7 | | 5.45 |
| SSFL_VAL_Report_Inorganic | Chromium VI | 18540-29-9 | 7199 | mg/kg | 1.08 | U | 1.09 | U | -- | 1.12 | U | 1.12 | U | -- |
| SSFL_VAL_Report_Inorganic | Cobalt | 7440-48-4 | 6020 | mg/kg | 7.19 | | 8.26 | | 13.85 | 4.26 | | 4.31 | | 1.17 |
| SSFL_VAL_Report_Inorganic | Copper | 7440-50-8 | 6020 | mg/kg | 12.7 | | 14.4 | | 12.55 | 5.18 | | 5.49 | | 5.81 |
| SSFL_VAL_Report_Inorganic | Cyanide | 57-12-5 | 9014 | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Inorganic | Fluoride | 16984-48-8 | 300.0 | mg/kg | 1.49 | | 1.50 | | 0.67 | 1.12 | U | 1.12 | U | -- |
| SSFL_VAL_Report_Inorganic | Iron | 7439-89-6 | 6020 | mg/kg | 26400 | | 27700 | | 4.81 | 17400 | | 16800 | | 3.51 |
| SSFL_VAL_Report_Inorganic | Lead | 7439-92-1 | 6020 | mg/kg | 12.0 | | 14.1 | | 16.09 | 4.20 | | 6.82 | | 47.55 |
| SSFL_VAL_Report_Inorganic | Lithium | 7439-93-2 | 6020 | mg/kg | 34.0 | | 35.6 | | 4.60 | 27.2 | | 26.4 | | 2.99 |
| SSFL_VAL_Report_Inorganic | Magnesium | 7439-95-4 | 6020 | mg/kg | 6010 | | 6580 | | 9.05 | 4130 | | 4010 | | 2.95 |
| SSFL_VAL_Report_Inorganic | Manganese | 7439-96-5 | 6020 | mg/kg | 286 | | 311 | | 8.38 | 256 | | 260 | | 1.55 |
| SSFL_VAL_Report_Inorganic | Mercury | 7439-97-6 | 7471A | mg/kg | 0.109 | U | 0.109 | U | -- | 0.113 | U | 0.112 | U | -- |
| SSFL_VAL_Report_Inorganic | Molybdenum | 7439-98-7 | 6020 | mg/kg | 0.622 | | 0.622 | | 0.00 | 0.353 | | 0.368 | | 4.16 |
| SSFL_VAL_Report_Inorganic | Nickel | 7440-02-0 | 6020 | mg/kg | 12.5 | | 13.5 | | 7.69 | 7.42 | | 7.65 | | 3.05 |
| SSFL_VAL_Report_Inorganic | Nitrate | 14797-55-8 | 300.0 | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Inorganic | Percent Moisture | MOIST | 160.3M | % | 7.5 | | 8.6 | | 13.66 | 11.0 | | 11.2 | | 1.80 |
| SSFL_VAL_Report_Inorganic | Perchlorate | 14797-73-0 | 314.0 | ug/kg | 21.6 | U | 21.9 | U | -- | 22.3 | U | 22.5 | U | -- |
| SSFL_VAL_Report_Inorganic | Perchlorate | 14797-73-0 | 6850 | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Inorganic | pH | pH | 9045D | pH unit | 6.75 | | 6.77 | | 0.30 | 6.42 | | 6.24 | | 2.84 |
| SSFL_VAL_Report_Inorganic | Phosphorus | 7723-14-0 | 6020 | mg/kg | 495 | | 486 | | 1.83 | 299 | | 311 | | 3.93 |
| SSFL_VAL_Report_Inorganic | Potassium | 7440-09-7 | 6020 | mg/kg | 3060 | | 3020 | | 1.32 | 3600 | | 3440 | | 4.55 |
| SSFL_VAL_Report_Inorganic | Selenium | 7782-49-2 | 6020 | mg/kg | 0.433 | | 0.437 | J | 0.92 | 0.445 | U | 0.447 | U | -- |
| SSFL_VAL_Report_Inorganic | Silver | 7440-22-4 | 6020 | mg/kg | 0.0726 | J | 0.0774 | J | 6.40 | 0.111 | U | 0.112 | U | -- |
| SSFL_VAL_Report_Inorganic | Sodium | 7440-23-5 | 6020 | mg/kg | 89.7 | J | 83.6 | J | 7.04 | 57.6 | J | 112 | UJ | 200.00 |
| SSFL_VAL_Report_Inorganic | Strontium | 7440-24-6 | 6020 | mg/kg | 17.7 | | 22.8 | | 25.19 | 14.3 | | 16.6 | | 14.89 |
| SSFL_VAL_Report_Inorganic | Thallium | 7440-28-0 | 6020 | mg/kg | 0.397 | | 0.348 | | 13.15 | 0.237 | | 0.223 | | 6.09 |
| SSFL_VAL_Report_Inorganic | Tin | 7440-31-5 | 6020 | mg/kg | 10.8 | U | 10.9 | U | -- | 11.1 | U | 11.2 | U | -- |
| SSFL_VAL_Report_Inorganic | Titanium | 7440-32-6 | 6020 | mg/kg | 924 | | 989 | | 6.80 | 868 | | 807 | | 7.28 |
| SSFL_VAL_Report_Inorganic | Vanadium | 7440-62-2 | 6020 | mg/kg | 38.4 | | 41.6 | | 8.00 | 25.7 | | 25.1 | | 2.36 |
| SSFL_VAL_Report_Inorganic | Zinc | 7440-66-6 | 6020 | mg/kg | 81.0 | | 86.5 | | 6.57 | 47.2 | | 48.2 | | 2.10 |
| SSFL_VAL_Report_Inorganic | Zirconium | 7440-67-7 | 6020 | mg/kg | 5.41 | UJ | 5.47 | UJ | -- | 5.56 | UJ | 5.59 | UJ | -- |
| SSFL_VAL_Report_Misc. Organics | 1,3,5-Trinitrobenzene | 99-35-4 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2,4,6-Trinitrotoluene | 118-96-7 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2,4-Diamino-6-nitrotoluene | 6629-29-4 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2,4-Dinitrotoluene | 121-14-2 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2,6-Diamino-4-nitrotoluene | 59229-75-3 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2,6-Dinitrotoluene | 606-20-2 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2-Amino-4,6-Dinitrotoluene | 35572-78-2 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2-Nitrotoluene | 88-72-2 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 2-Propanol | 67-63-0 | 8015B | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 3-Nitrotoluene | 99-08-1 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 4-Amino-2,6-Dinitrotoluene | 19406-51-0 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | 4-Nitrotoluene | 99-99-0 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Diethylene Glycol | 111-46-6 | 8015M | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Ethanol | 64-17-5 | 8015B | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Ethylene Glycol | 107-21-1 | 8015M | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Formaldehyde | 50-00-0 | 8315A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | HMX | 2691-41-0 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | m-Dinitrobenzene | 99-65-0 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Methanol | 67-56-1 | 8015B | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | m-Terphenyl | 92-06-8 | 8015B | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Nitrobenzene | 98-95-3 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Nitroglycerin | 55-63-0 | 8332 | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | o-Terphenyl | 84-15-1 | 8015B | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | PETN | 78-11-5 | 8332 | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Propylene glycol | 57-55-6 | 8015M | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | p-Terphenyl | 92-94-4 | 8015B | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | RDX | 121-82-4 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_Misc. Organics | Tetryl | 479-45-8 | 8330A | ug/kg | | | | | | | | | | |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,6,7,8-HpCDD | 35822-46-9 | 1613B | ng/kg | 2.13 | J | 5.44 | U | 200.00 | 1.86 | J | 2.44 | J | 26.98 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,6,7,8-HpCDF | 67562-39-4 | 1613B | ng/kg | 5.30 | UJ | 5.44 | UJ | -- | 0.441 | J | 0.444 | J | 0.68 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,7,8,9-HpCDF | 55673-89-7 | 1613B | ng/kg | 5.30 | U | 5.44 | U | -- | 5.46 | UJ | 5.53 | UJ | -- |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,7,8-HxCDD | 39227-28-6 | 1613B | ng/kg | 0.112 | J | 0.102 | J | 9.35 | 0.149 | J | 0.0890 | J | 50.42 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,4,7,8-HxCDF | 70648-26-9 | 1613B | ng/kg | 5.30 | U | 5.44 | U | -- | 0.239 | J | 0.197 | J | 19.27 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,6,7,8-HxCDD | 57653-85-7 | 1613B | ng/kg | 0.741 | J | 5.44 | UJ | 200.00 | 0.241 | J | 0.163 | J | 38.61 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,6,7,8-HxCDF | 57117-44-9 | 1613B | ng/kg | 0.655 | J | 5.44 | UJ | 200.00 | 0.198 | J | 0.150 | J | 27.59 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,7,8,9-HxCDD | 19408-74-3 | 1613B | ng/kg | 0.676 | J | 0.353 | J | 62.78 | 0.213 | J | 0.202 | J | 5.30 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,7,8,9-HxCDF | 72918-21-9 | 1613B | ng/kg | 5.30 | U | 5.44 | U | -- | 0.143 | J | 5.53 | UJ | 200.00 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,7,8-PeCDD | 40321-76-4 | 1613B | ng/kg | 5.30 | U | 5.44 | U | -- | 0.196 | J | 5.53 | U | 200.00 |
| SSFL_VAL_Report_PCBs_Dioxins | 1,2,3,7,8-PeCDF | 57117-41-6 | 1613B | ng/kg | 0.607 | J | 0.456 | J | 28.41 | 0.317 | J | 0.298 | J | 6.18 |
| SSFL_VAL_Report_PCBs_Dioxins | 2,3,4,6,7,8-HxCDF | 60851-34-5 | 1613B | ng/kg | 5.30 | U | 5.44 | U | -- | 0.168 | J | 0.190 | J | 12.29 |
| SSFL_VAL_Report_PCBs_Dioxins | 2,3,4,7,8-PeCDF | 57117-31-4 | 1613B | ng/kg | 5.30 | U | 5.44 | U | -- | 0.761 | J | 0.905 | J | 17.29 |
| SSFL_VAL_Report_PCBs_Dioxins | 2,3,7,8-TCDD | 1746-01-6 | 1613B | ng/kg | 1.06 | U | 1.09 | U | -- | 0.0624 | J | 0.0297 | J | 71.01 |
| SSFL_VAL_Report_PCBs_Dioxins | 2,3,7,8-TCDF | 51207-31-9 | 1613B | ng/kg | 0.248 | J | 0.168 | J | 38.46 | 0.139 | J | 0.190 | J | 31.00 |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1016 | 12674-11-2 | 8082 | ug/kg | 4.5 | UY | 4.75 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1221 | 11104-28-2 | 8082 | ug/kg | 4.5 | UY | 4.75 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1232 | 11141-16-5 | 8082 | ug/kg | 4.5 | UY | 4.75 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1242 | 53469-21-9 | 8082 | ug/kg | 4.5 | UY | 4.75 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1248 | 12672-29-6 | 8082 | ug/kg | 4.5 | UY | 4.75 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1254 | 11097-69-1 | 8082 | ug/kg | 4.5 | UY | 4.75 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1260 | 11096-82-5 | 8082 | ug/kg | 4.5 | UY | 4.75 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1262 | 37324-23-5 | 8082 | ug/kg | 4.5 | UY | 4.75 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 1268 | 11100-14-4 | 8082 | ug/kg | 4.5 | UY | 4.75 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 5432 | 63496-31-1 | 8082 | ug/kg | 9 | UJY | 9 | UJY | -- | 9.25 | UY | 9.25 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 5442 | 12642-23-8 | 8082 | ug/kg | 9 | UJY | 9 | UJY | -- | 9.25 | UY | 9.25 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | Aroclor 5460 | 11126-42-4 | 8082 | ug/kg | 9 | UJY | 7.5 | J | 200.00 | 9.25 | UY | 9.25 | UY | -- |
| SSFL_VAL_Report_PCBs_Dioxins | OCDD | 3268-87-9 | 1613B | ng/kg | 12.9 | J | 7.61 | J | 51.58 | 12.4 | | 17.2 | | 32.43 |
| SSFL_VAL_Report_PCBs_Dioxins | OCDF | 39001-02-0 | 1613B | ng/kg | 1.37 | J | 10.9 | UJ | 200.00 | 0.809 | J | 0.843 | J | 4.12 |
| SSFL_VAL_Report_Pesticides | 2,2-Dichlor-Propionic Acid | 75-99-0 | 8151A | ug/kg | 19.4 | UY | 19.6 | UY | -- | 20 | UY | 20 | UY | -- |
| SSFL_VAL_Report_Pesticides | 2,4 DB | 94-82-6 | 8151A | ug/kg | 3.6 | UY | 3.8 | UY | -- | 3.8 | UY | 3.8 | UY | -- |
| SSFL_VAL_Report_Pesticides | 2,4,5-T | 93-76-5 | 8151A | ug/kg | 0.36 | UY | 0.38 | UY | -- | 0.38 | UY | 0.38 | UY | -- |
| SSFL_VAL_Report_Pesticides | 2,4,5-TP | 93-72-1 | 8151A | ug/kg | 0.36 | UY | 0.38 | UY | -- | 0.38 | UY | 0.38 | UY | -- |
| SSFL_VAL_Report_Pesticides | 2,4-D | 94-75-7 | 8151A | ug/kg | 7.8 | UY | 7.8 | UY | -- | 8 | UY | 8 | UY | -- |
| SSFL_VAL_Report_Pesticides | 4,4'-DDD | 72-54-8 | 8081A | ug/kg | 0.925 | UY | 0.925 | UY | -- | 0.95 | UY | 0.95 | UY | -- |
| SSFL_VAL_Report_Pesticides | 4,4'-DDE | 72-55-9 | 8081A | ug/kg | 0.925 | UY | 0.925 | UY | -- | 0.21 | J | 1.7 | J | 156.02 |
| SSFL_VAL_Report_Pesticides | 4,4'-DDT | 50-29-3 | 8081A | ug/kg | 0.44 | J | 0.925 | UJY | 200.00 | 0.95 | UJY | 1.8 | J | 200.00 |
| SSFL_VAL_Report_Pesticides | Aldrin | 309-00-2 | 8081A | ug/kg | 0.45 | UY | 0.475 | UY | -- | 0.475 | UY | 0.475 | UY | -- |
| SSFL_VAL_Report_Pesticides | Alpha-BHC | 319-84-6 | 8081A | ug/kg | 0.45 | UY | 0.475 | UY | -- | 0.475 | UY | 0.475 | UY | -- |
| SSFL_VAL_Report_Pesticides | Beta-BHC | 319-85-7 | 8081A | ug/kg | 0.45 | UY | 0.475 | UY | -- | 0.475 | UY | 0.475 | UY | -- |
| SSFL_VAL_Report_Pesticides | Chlordane (technical) | 12789-03-6 | 8081A | ug/kg | 9.25 | UY | 9.25 | UY | -- | 9.5 | UY | 9.5 | UY | -- |
| SSFL_VAL_Report_Pesticides | Delta-BHC | 319-86-8 | 8081A | ug/kg | 0.45 | UY | 0.475 | UY | -- | 0.475 | UY | 0.475 | UY | -- |
| SSFL_VAL_Report_Pesticides | Dicamba | 1918-00-9 | 8151A | ug/kg | 2.6 | UY | 2.6 | UY | -- | 2.6 | UY | 2.6 | UY | -- |
| SSFL_VAL_Report_Pesticides | Dichlorprop | 120-36-5 | 8151A | ug/kg | 5.2 | UY | 5.2 | UY | -- | 5.4 | UY | 5.4 | UY | -- |
| SSFL_VAL_Report_Pesticides | Dieldrin | 60-57-1 | 8081A | ug/kg | 0.925 | UY | 0.925 | UY | -- | 0.95 | UY | 0.95 | UY | -- |
| SSFL_VAL_Report_Pesticides | Dinitrobutyl Phenol | 88-85-7 | 8151A | ug/kg | 3.6 | UY | 3.8 | UY | -- | 3.8 | UY | 3.8 | UY | -- |
| SSFL_VAL_Report_Pesticides | Endosulfan I | 959-98-8 | 8081A | ug/kg | 0.45 | UY | 0.475 | UY | -- | 0.475 | UY | 0.475 | UY | -- |
| SSFL_VAL_Report_Pesticides | Endosulfan II | 33213-65-9 | 8081A | ug/kg | 0.925 | UY | 0.925 | UY | -- | 0.95 | UY | 0.95 | UY | -- |
| SSFL_VAL_Report_Pesticides | Endosulfan Sulfate | 1031-07-8 | 8081A | ug/kg | 0.925 | UY | 0.925 | UY | -- | 0.95 | UY | 0.95 | UY | -- |
| SSFL_VAL_Report_Pesticides | Endrin | 72-20-8 | 8081A | ug/kg | 0.925 | UY | 0.925 | UY | -- | 0.95 | UY | 0.95 | UY | -- |
| SSFL_VAL_Report_Pesticides | Endrin Aldehyde | 7421-93-4 | 8081A | ug/kg | 0.925 | UY | 0.925 | UY | -- | 0.95 | UY | 0.95 | UY | -- |
| SSFL_VAL_Report_Pesticides | Endrin Ketone | 53494-70-5 | 8081A | ug/kg | 0.925 | UY | 0.925 | UY | -- | 0.95 | UY | 0.95 | UY | -- |
| SSFL_VAL_Report_Pesticides | Gamma-BHC (Lindane) | 58-89-9 | 8081A | ug/kg | 0.45 | UY | 0.475 | UY | -- | 0.475 | UY | 0.475 | UY | -- |
| SSFL_VAL_Report_Pesticides | Heptachlor | 76-44-8 | 8081A | ug/kg | 0.45 | UY | 0.475 | UY | -- | 0.475 | UY | 0.475 | UY | -- |
| SSFL_VAL_Report_Pesticides | Heptachlor Epoxide | 1024-57-3 | 8081A | ug/kg | 0.45 | UY | 0.475 | UY | -- | 0.475 | UY | 0.475 | UY | -- |
| SSFL_VAL_Report_Pesticides | MCPA | 94-74-6 | 8151A | ug/kg | 540 | UY | 540 | UY | -- | 560 | UY | 560 | UY | -- |
| SSFL_VAL_Report_Pesticides | MCPP | 93-65-2 | 8151A | ug/kg | 540 | UY | 540 | UY | -- | 560 | UY | 560 | UY | -- |
| SSFL_VAL_Report_Pesticides | Methoxychlor | 72-43-5 | 8081A | ug/kg | 4.5 | UY | 4.75 | UY | -- | 4.75 | UY | 4.75 | UY | -- |
| SSFL_VAL_Report_Pesticides | Mirex | 2385-85-5 | 8081A | ug/kg | 0.925 | UY | 0.925 | UY | -- | 0.95 | UY | 0.95 | UY | -- |
| SSFL_VAL_Report_Pesticides | Toxaphene | 8001-35-2 | 8081A | ug/kg | 17.75 | UY | 18 | UY | -- | 18.5 | UY | 18.5 | UY | -- |
| SSFL_VAL_Report_Semivolatiles | 1,2,4-Trichlorobenzene | 120-82-1 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1,2-Dichlorobenzene | 95-50-1 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1,2-Diphenylhydrazine | 122-66-7 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1,3-Dichlorobenzene | 541-73-1 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1,4-Dichlorobenzene | 106-46-7 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 1-Methylnaphthalene | 90-12-0 | 8270C SIM | ug/kg | 2.2 | J | 1.9 | UJ | 200.00 | 1.9 | UJ | 0.98 | J | 200.00 |
| SSFL_VAL_Report_Semivolatiles | 2,4,5-Trichlorophenol | 95-95-4 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4,6-Trichlorophenol | 88-06-2 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4-Dichlorophenol | 120-83-2 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4-Dimethylphenol | 105-67-9 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |

**Table C-5 - NBZ Field Duplicate Results**

| | | | | Location | SL-191-NBZ | | SL-191-NBZ | | RPD | SL-193-NBZ | | SL-193-NBZ | | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Name: | DUP-06-NBZ-QC-040912 | | SL-191-NBZ-SS-0.0-0.5 | | | DUP-09-NBZ-QC-041912 | | SL-193-NBZ-SS-0.0-0.5 | | |
| | | | | Sample Date: | 04/09/2012 | | 04/09/2012 | | | 04/19/2012 | | 04/19/2012 | | |
| | | | | Start Depth: | 0 | | 0 | | | 0 | | 0 | | |
| | | | | End Depth: | 0.5 | | 0.5 | | | 0.5 | | 0.5 | | |
| | | | | Area: | NBZ | | NBZ | | | NBZ | | NBZ | | |
| | | | | Matrix: | SO | | SO | | | SO | | SO | | |
| | | | | Sample Type: | FD | | N | | | FD | | N | | |
| MAG: | Chemical Name: | CAS No.: | Lab Method: | Result Unit | Result | Final Qualifiers | Result | Final Qualifiers | | Result | Final Qualifiers | Result | Final Qualifiers | |
| SSFL_VAL_Report_Semivolatiles | 2,4-Dinitrophenol | 51-28-5 | 8270C | ug/kg | 360 | U | 360 | U | -- | 370 | U | 370 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,4-Dinitrotoluene | 121-14-2 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2,6-Dinitrotoluene | 606-20-2 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-butoxy-Ethanol | 111-76-2 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Chloronaphthalene | 91-58-7 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Chlorophenol | 95-57-8 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Methylnaphthalene | 91-57-6 | 8270C SIM | ug/kg | 2.0 | J | 1.9 | UJ | 200.00 | 1.9 | UJ | 1.2 | J | 200.00 |
| SSFL_VAL_Report_Semivolatiles | 2-Methylphenol | 95-48-7 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Nitroaniline | 88-74-4 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-Nitrophenol | 88-75-5 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 2-phenoxy-Ethanol | 122-99-6 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 3,3`-Dichlorobenzidine | 91-94-1 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 3,5-Dimethylphenol | 108-68-9 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 3-Nitroaniline | 99-09-2 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4,6-Dinitro-2-Methylphenol | 534-52-1 | 8270C | ug/kg | 360 | U | 360 | U | -- | 370 | U | 370 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Bromophenyl Phenyl Ether | 101-55-3 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Chloro-3-Methylphenol | 59-50-7 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Chloroaniline | 106-47-8 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Chlorophenyl Phenylether | 7005-72-3 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Methylphenol | 106-44-5 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Nitroaniline | 100-01-6 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | 4-Nitrophenol | 100-02-7 | 8270C | ug/kg | 360 | U | 360 | U | -- | 370 | U | 370 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Acenaphthene | 83-32-9 | 8270C SIM | ug/kg | 2.3 | J | 1.9 | UJ | 200.00 | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Acenaphthylene | 208-96-8 | 8270C SIM | ug/kg | 2.3 | J | 1.9 | UJ | 200.00 | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Aniline | 62-53-3 | 8270C | ug/kg | 360 | U | 360 | U | -- | 370 | U | 370 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Anthracene | 120-12-7 | 8270C SIM | ug/kg | 1.8 | U | 1.9 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzidine | 92-87-5 | 8270C | ug/kg | 900 | U | 910 | UJ | -- | 930 | U | 930 | R | -- |
| SSFL_VAL_Report_Semivolatiles | Benzo(a)anthracene | 56-55-3 | 8270C SIM | ug/kg | 1.8 | U | 1.9 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzo(a)pyrene | 50-32-8 | 8270C SIM | ug/kg | 1.8 | U | 1.9 | U | -- | 1.9 | UJ | 1.2 | J | 200.00 |
| SSFL_VAL_Report_Semivolatiles | Benzo(b)fluoranthene | 205-99-2 | 8270C SIM | ug/kg | 1.8 | U | 1.9 | U | -- | 1.3 | J | 2.1 | | 47.06 |
| SSFL_VAL_Report_Semivolatiles | Benzo(g,h,i)perylene | 191-24-2 | 8270C SIM | ug/kg | 1.8 | U | 1.9 | U | -- | 1.9 | UJ | 1.5 | J | 200.00 |
| SSFL_VAL_Report_Semivolatiles | Benzo(k)fluoranthene | 207-08-9 | 8270C SIM | ug/kg | 1.8 | U | 1.9 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzoic Acid | 65-85-0 | 8270C | ug/kg | 720 | U | 730 | U | -- | 750 | U | 750 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Benzyl Alcohol | 100-51-6 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Bis(2-Chloroethoxy) methane | 111-91-1 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Bis(2-Chloroethyl) ether | 111-44-4 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | bis(2-Chloroisopropyl) ether | 39638-32-9 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Bis(2-Ethylhexyl) phthalate | 117-81-7 | 8270C SIM | ug/kg | 16 | J | 21 | | 27.03 | 19 | | 22 | | 14.63 |
| SSFL_VAL_Report_Semivolatiles | Butylbenzylphthalate | 85-68-7 | 8270C SIM | ug/kg | 18 | U | 18 | U | -- | 21 | | 13 | J | 47.06 |
| SSFL_VAL_Report_Semivolatiles | Carbazole | 86-74-8 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Chrysene | 218-01-9 | 8270C SIM | ug/kg | 1.8 | U | 1.9 | U | -- | 1.3 | J | 1.4 | J | 7.41 |
| SSFL_VAL_Report_Semivolatiles | Dibenzo(a,h)anthracene | 53-70-3 | 8270C SIM | ug/kg | 1.8 | U | 1.9 | U | -- | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Dibenzofuran | 132-64-9 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Diethylphthalate | 84-66-2 | 8270C SIM | ug/kg | 18 | U | 18 | U | -- | 19 | U | 19 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Dimethylphthalate | 131-11-3 | 8270C SIM | ug/kg | 18 | U | 18 | U | -- | 19 | U | 19 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Di-n-Butylphthalate | 84-74-2 | 8270C SIM | ug/kg | 18 | U | 18 | U | -- | 19 | U | 19 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Di-N-Octyl Phthalate | 117-84-0 | 8270C SIM | ug/kg | 18 | U | 18 | U | -- | 19 | U | 19 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Fluoranthene | 206-44-0 | 8270C SIM | ug/kg | 1.3 | J | 1.9 | UJ | 200.00 | 1.3 | J | 1.7 | J | 26.67 |
| SSFL_VAL_Report_Semivolatiles | Fluorene | 86-73-7 | 8270C SIM | ug/kg | 2.0 | J | 1.9 | UJ | 200.00 | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Hexachlorobenzene | 118-74-1 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Hexachlorobutadiene | 87-68-3 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Hexachlorocyclopentadiene | 77-47-4 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Hexachloroethane | 67-72-1 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Indeno(1,2,3-Cd)Pyrene | 193-39-5 | 8270C SIM | ug/kg | 1.8 | U | 1.9 | U | -- | 1.9 | UJ | 1.2 | J | 200.00 |
| SSFL_VAL_Report_Semivolatiles | Isophorone | 78-59-1 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Naphthalene | 91-20-3 | 8270C SIM | ug/kg | 2.0 | J | 1.9 | UJ | 200.00 | 1.9 | UJ | 1.1 | J | 200.00 |
| SSFL_VAL_Report_Semivolatiles | Nitrobenzene | 98-95-3 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | N-Nitrosodimethylamine | 62-75-9 | 1625C | ng/kg | | | | | | | | | | |
| SSFL_VAL_Report_Semivolatiles | N-Nitrosodimethylamine | 62-75-9 | 8270C SIM | ug/kg | 2.7 | J | 1.9 | UJ | 200.00 | 1.9 | U | 1.9 | U | -- |
| SSFL_VAL_Report_Semivolatiles | N-Nitroso-Di-N-Propylamine | 621-64-7 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | N-Nitrosodiphenylamine | 86-30-6 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Pentachlorophenol | 87-86-5 | 8270C | ug/kg | 360 | U | 360 | U | -- | 370 | U | 370 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Phenanthrene | 85-01-8 | 8270C SIM | ug/kg | 1.2 | J | 1.9 | UJ | 200.00 | 1.9 | UJ | 1.1 | J | 200.00 |
| SSFL_VAL_Report_Semivolatiles | Phenol | 108-95-2 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Semivolatiles | Pyrene | 129-00-0 | 8270C SIM | ug/kg | 1.1 | J | 1.9 | UJ | 200.00 | 1.6 | J | 1.7 | J | 6.06 |
| SSFL_VAL_Report_Semivolatiles | Tetralin | 119-64-2 | 8270C | ug/kg | 180 | U | 180 | U | -- | 190 | U | 190 | U | -- |
| SSFL_VAL_Report_Volatiles | EFH (C12-C14) | PHCC12C14 | 8015B EFH | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Volatiles | EFH (C15-C20) | PHCC15C20 | 8015B EFH | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Volatiles | EFH (C21-C30) | PHCC21C30 | 8015B EFH | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Volatiles | EFH (C30-C40) | PHCC30C40 | 8015B EFH | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Volatiles | EFH (C8-C11) | PHCC8C11 | 8015B EFH | mg/kg | | | | | | | | | | |
| SSFL_VAL_Report_Volatiles | GRO (C5-C12) | GROC5C12 | 8015B GRO | mg/kg | | | | | | | | | | |

ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- - RPD not calculated when both field duplicate and normal samples were
200* - When one result is nondetect a 200% RPD is given and sample results are qualified as estimated "J" or "UJ" in the field duplicate samples only
Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

**Table C-6 Summary of Data Completeness Following Data Validation – NBZ**

| Analyte | Number of Analyte Detections Without Qualifiers | Number of Estimated Results | Number of Rejected Results | Number of Nondetect Results | Number of Estimated Nondetect Results | Total Analytes Detect and Nondetect | Percent of Analyte Results Judged Valid Versus Total Analyte Results Collected |
|---|---|---|---|---|---|---|---|
| Dioxins | 276 | 1,502 | | 1,840 | 20 | 3,638 | 100 |
| NDMA | 3 | | | 108 | 2 | 113 | 100 |
| Formaldehyde | | 2 | | 110 | 1 | 113 | 100 |
| Cyanide | 3 | 8 | | 99 | | 110 | 100 |
| Fluoride, Nitrate | 115 | 69 | | 174 | | 358 | 100 |
| Hexavalent Chromium | | | | 214 | | 214 | 100 |
| Mercury | 8 | 5 | | 201 | | 214 | 100 |
| Metals – 6010B | | | | | | | 100 |
| Metals – 6020 | 4,792 | 606 | | 828 | 194 | 6,420 | 100 |
| Perchlorate-314 | 1 | | | 213 | | 214 | 100 |
| Perchlorate-6850 | | | | 39 | | 39 | 100 |
| Alcohols, terphenyls | | 1 | | 584 | | 585 | 100 |
| Energetics | | | | 1,980 | | 1,980 | 100 |
| Total Petroleum Hydrocarbons, glycols | | | | 249 | | 249 | 100 |
| Total Petroleum Hydrocarbons, EFH | 314 | 117 | | 229 | | 660 | 100 |
| Total Petroleum Hydrocarbons, GRO | 3 | | | 47 | | 50 | 100 |
| PCBs/PCTs | 73 | 29 | | 2,390 | 76 | 2,568 | 100 |
| Pesticides | 224 | 74 | | 3,173 | 36 | 3,507 | 100 |
| Herbicides | 3 | | | 1,635 | 32 | 1,670 | 100 |
| Volatiles | | 1 | | 266 | 1 | 268 | 100 |
| Volatiles – 1,4 Dioxane | | | | 4 | | 4 | 100 |
| Semivolatiles | | 1 | 10 | 10,613 | 76 | 10,700 | 99.91 |
| Semivolatiles SIM | 493 | 503 | | 4,338 | 16 | 5,350 | 100 |
| **Completeness Total for All NBZ Samples Collected and Judged Valid** | | | | | | | **99.91** |

**Appendix C. Samples by SDG for NBZ**

| Task Code | System Sample Code | Lab SDG | Matrix Code | Sample Date | Sample Source |
|---|---|---|---|---|---|
| SA7 | FB-SA7-110111 | 11K007 | WQ | 11/1/2011 | FIELD |
| NBZ | SL-002-NBZ-SB-4.0-5.0 | 12C096 | SO | 3/12/2012 | FIELD |
| NBZ | SL-002-NBZ-SB-4.5 | 12C096 | SO | 3/12/2012 | FIELD |
| NBZ | SL-002-NBZ-SB-7.5-8.5 | 12C096 | SO | 3/12/2012 | FIELD |
| NBZ | SL-002-NBZ-SB-8.0 | 12C096 | SO | 3/12/2012 | FIELD |
| NBZ | SL-002-NBZ-SS-0.0-0.5 | 12C096 | SO | 3/12/2012 | FIELD |
| NBZ | SL-003-NBZ-SB-4.0-5.0 | 12C096 | SO | 3/12/2012 | FIELD |
| NBZ | SL-003-NBZ-SB-4.5 | 12C096 | SO | 3/12/2012 | FIELD |
| NBZ | SL-003-NBZ-SS-0.0-0.5 | 12C096 | SO | 3/12/2012 | FIELD |
| NBZ | SL-007-NBZ-SB-4.0-5.0 | 12C096 | SO | 3/12/2012 | FIELD |
| NBZ | SL-007-NBZ-SB-4.5 | 12C096 | SO | 3/12/2012 | FIELD |
| NBZ | SL-007-NBZ-SB-9.0-10.0 | 12C096 | SO | 3/12/2012 | FIELD |
| NBZ | SL-007-NBZ-SB-9.5 | 12C096 | SO | 3/12/2012 | FIELD |
| NBZ | SL-010-NBZ-SB-4.0-5.0 | 12C096 | SO | 3/12/2012 | FIELD |
| NBZ | SL-010-NBZ-SB-4.5 | 12C096 | SO | 3/12/2012 | FIELD |
| | TB-031212 | 12C096 | WQ | 3/12/2012 | FIELD |
| NBZ | SL-005-NBZ-SB-4.0-5.0 | 12C106 | SO | 3/13/2012 | FIELD |
| NBZ | SL-005-NBZ-SB-4.5 | 12C106 | SO | 3/13/2012 | FIELD |
| NBZ | SL-006-NBZ-SB-3.0-4.0 | 12C106 | SO | 3/13/2012 | FIELD |
| NBZ | SL-006-NBZ-SB-3.5 | 12C106 | SO | 3/13/2012 | FIELD |
| NBZ | SL-015-NBZ-SS-0.0-0.5 | 12C106 | SO | 3/13/2012 | FIELD |
| NBZ | SL-019-NBZ-SB-3.0-4.0 | 12C106 | SO | 3/13/2012 | FIELD |
| NBZ | SL-019-NBZ-SB-3.5 | 12C106 | SO | 3/13/2012 | FIELD |
| NBZ | SL-019-NBZ-SS-0.0-0.5 | 12C106 | SO | 3/13/2012 | FIELD |
| NBZ | SL-021-NBZ-SB-4.0-5.0 | 12C106 | SO | 3/13/2012 | FIELD |
| NBZ | SL-021-NBZ-SB-4.5 | 12C106 | SO | 3/13/2012 | FIELD |
| NBZ | SL-021-NBZ-SS-0.0-0.5 | 12C106 | SO | 3/13/2012 | FIELD |
| | TB-031312 | 12C106 | WQ | 3/13/2012 | FIELD |
| NBZ | SL-022-NBZ-SB-4.0-5.0 | 12C121 | SO | 3/14/2012 | FIELD |
| NBZ | SL-022-NBZ-SB-4.5 | 12C121 | SO | 3/14/2012 | FIELD |
| NBZ | SL-022-NBZ-SB-9.0-10.0 | 12C121 | SO | 3/14/2012 | FIELD |
| NBZ | SL-022-NBZ-SB-9.5 | 12C121 | SO | 3/14/2012 | FIELD |
| NBZ | SL-022-NBZ-SS-0.0-0.5 | 12C121 | SO | 3/14/2012 | FIELD |
| NBZ | SL-023-NBZ-SB-4.0-5.0 | 12C121 | SO | 3/14/2012 | FIELD |
| NBZ | SL-023-NBZ-SB-4.5 | 12C121 | SO | 3/14/2012 | FIELD |
| NBZ | SL-023-NBZ-SB-8.5-9.5 | 12C121 | SO | 3/14/2012 | FIELD |
| NBZ | SL-023-NBZ-SB-9.0 | 12C121 | SO | 3/14/2012 | FIELD |
| NBZ | SL-023-NBZ-SS-0.0-0.5 | 12C121 | SO | 3/14/2012 | FIELD |
| NBZ | SL-024-NBZ-SS-0.0-0.5 | 12C121 | SO | 3/14/2012 | FIELD |
| NBZ | SL-030-NBZ-SS-0.0-0.5 | 12C121 | SO | 3/14/2012 | FIELD |
| | TB-031412 | 12C121 | WQ | 3/14/2012 | FIELD |
| NBZ | EB-NBZ-SB-031512 | 12C135 | WQ | 3/15/2012 | FIELD |
| NBZ | EB-NBZ-SS-031512 | 12C135 | WQ | 3/15/2012 | FIELD |
| NBZ | SL-029-NBZ-SS-0.0-0.5 | 12C135 | SO | 3/15/2012 | FIELD |
| NBZ | SL-052-NBZ-SS-0.0-0.5 | 12C135 | SO | 3/15/2012 | FIELD |
| NBZ | SL-053-NBZ-SB-3.5-4.5 | 12C135 | SO | 3/15/2012 | FIELD |
| NBZ | SL-053-NBZ-SB-4.0 | 12C135 | SO | 3/15/2012 | FIELD |
| NBZ | SL-053-NBZ-SS-0.0-0.5 | 12C135 | SO | 3/15/2012 | FIELD |
| NBZ | SL-056-NBZ-SB-3.0-4.0 | 12C135 | SO | 3/15/2012 | FIELD |
| NBZ | SL-056-NBZ-SB-3.5 | 12C135 | SO | 3/15/2012 | FIELD |
| NBZ | SL-056-NBZ-SS-0.0-0.5 | 12C135 | SO | 3/15/2012 | FIELD |
| NBZ | SL-058-NBZ-SB-4.0-5.0 | 12C135 | SO | 3/15/2012 | FIELD |
| NBZ | SL-058-NBZ-SB-4.5 | 12C135 | SO | 3/15/2012 | FIELD |
| | TB-031512 | 12C135 | WQ | 3/15/2012 | FIELD |
| NBZ | DUP-01-NBZ-QC-031612 | 12C156 | SO | 3/16/2012 | FIELD |
| NBZ | SL-067-NBZ-SB-1.5-2.5 | 12C156 | SO | 3/16/2012 | FIELD |
| NBZ | SL-067-NBZ-SB-2.0 | 12C156 | SO | 3/16/2012 | FIELD |
| NBZ | SL-068-NBZ-SB-2.5-3.5 | 12C156 | SO | 3/16/2012 | FIELD |
| NBZ | SL-068-NBZ-SB-3.0 | 12C156 | SO | 3/16/2012 | FIELD |
| NBZ | SL-072-NBZ-SB-4.0-5.0 | 12C156 | SO | 3/16/2012 | FIELD |
| NBZ | SL-072-NBZ-SB-4.5 | 12C156 | SO | 3/16/2012 | FIELD |
| | TB-031612 | 12C156 | WQ | 3/16/2012 | FIELD |
| NBZ | SL-071-NBZ-SB-4.0-5.0 | 12C164 | SO | 3/19/2012 | FIELD |

**Appendix C. Samples by SDG for NBZ**

| Task Code | System Sample Code | Lab SDG | Matrix Code | Sample Date | Sample Source |
|---|---|---|---|---|---|
| NBZ | SL-071-NBZ-SB-4.5 | 12C164 | SO | 3/19/2012 | FIELD |
| NBZ | SL-073-NBZ-SB-4.0-5.0 | 12C164 | SO | 3/19/2012 | FIELD |
| NBZ | SL-073-NBZ-SB-4.5 | 12C164 | SO | 3/19/2012 | FIELD |
| NBZ | SL-073-NBZ-SB-9.0-10.0 | 12C164 | SO | 3/19/2012 | FIELD |
| NBZ | SL-073-NBZ-SB-9.5 | 12C164 | SO | 3/19/2012 | FIELD |
| NBZ | SL-074-NBZ-SB-0.5-1.5 | 12C164 | SO | 3/19/2012 | FIELD |
| NBZ | SL-074-NBZ-SB-1.0 | 12C164 | SO | 3/19/2012 | FIELD |
| | TB-031912 | 12C164 | WQ | 3/19/2012 | FIELD |
| NBZ | SL-069-NBZ-SB-3.0-4.0 | 12C182 | SO | 3/20/2012 | FIELD |
| NBZ | SL-069-NBZ-SB-3.5 | 12C182 | SO | 3/20/2012 | FIELD |
| NBZ | SL-070-NBZ-SS-0.0-0.5 | 12C182 | SO | 3/20/2012 | FIELD |
| NBZ | SL-075-NBZ-SS-0.0-0.5 | 12C182 | SO | 3/20/2012 | FIELD |
| NBZ | SL-076-NBZ-SS-0.0-0.5 | 12C182 | SO | 3/20/2012 | FIELD |
| NBZ | SL-077-NBZ-SB-2.5-3.5 | 12C182 | SO | 3/20/2012 | FIELD |
| NBZ | SL-077-NBZ-SB-3.0 | 12C182 | SO | 3/20/2012 | FIELD |
| NBZ | SL-077-NBZ-SS-0.0-0.5 | 12C182 | SO | 3/20/2012 | FIELD |
| | TB-032012 | 12C182 | WQ | 3/20/2012 | FIELD |
| NBZ | EB-NBZ-SS-032112 | 12C209 | WQ | 3/21/2012 | FIELD |
| NBZ | SL-062-NBZ-SB-2.5-3.5 | 12C209 | SO | 3/21/2012 | FIELD |
| NBZ | SL-062-NBZ-SB-3.0 | 12C209 | SO | 3/21/2012 | FIELD |
| NBZ | SL-063-NBZ-SB-0.5-1.5 | 12C209 | SO | 3/21/2012 | FIELD |
| NBZ | SL-063-NBZ-SB-1.0 | 12C209 | SO | 3/21/2012 | FIELD |
| NBZ | SL-064-NBZ-SB-0.5-1.5 | 12C209 | SO | 3/21/2012 | FIELD |
| NBZ | SL-064-NBZ-SB-1.0 | 12C209 | SO | 3/21/2012 | FIELD |
| NBZ | SL-065-NBZ-SB-1.0-2.0 | 12C209 | SO | 3/21/2012 | FIELD |
| NBZ | SL-065-NBZ-SB-1.5 | 12C209 | SO | 3/21/2012 | FIELD |
| NBZ | SL-066-NBZ-SB-2.0-3.0 | 12C209 | SO | 3/21/2012 | FIELD |
| NBZ | SL-066-NBZ-SB-2.5 | 12C209 | SO | 3/21/2012 | FIELD |
| NBZ | SL-105-NBZ-SS-0.0-0.5 | 12C209 | SO | 3/21/2012 | FIELD |
| | TB-032112 | 12C209 | WQ | 3/21/2012 | FIELD |
| NBZ | EB-NBZ-SB-032212 | 12C229 | WQ | 3/22/2012 | FIELD |
| NBZ | SL-054-NBZ-SS-0.0-0.5 | 12C229 | SO | 3/22/2012 | FIELD |
| NBZ | SL-055-NBZ-SS-0.0-0.5 | 12C229 | SO | 3/22/2012 | FIELD |
| NBZ | SL-059-NBZ-SS-0.0-0.5 | 12C229 | SO | 3/22/2012 | FIELD |
| NBZ | SL-060-NBZ-SS-0.0-0.5 | 12C229 | SO | 3/22/2012 | FIELD |
| NBZ | SL-061-NBZ-SB-1.0-2.0 | 12C229 | SO | 3/22/2012 | FIELD |
| NBZ | SL-061-NBZ-SB-1.5 | 12C229 | SO | 3/22/2012 | FIELD |
| NBZ | SL-116-NBZ-SS-0.0-0.5 | 12C229 | SO | 3/22/2012 | FIELD |
| | TB-032212 | 12C229 | WQ | 3/22/2012 | FIELD |
| NBZ | DUP-02-NBZ-QC-032312 | 12C254 | SO | 3/23/2012 | FIELD |
| NBZ | SL-047-NBZ-SB-4.0-5.0 | 12C254 | SO | 3/23/2012 | FIELD |
| NBZ | SL-047-NBZ-SB-4.5 | 12C254 | SO | 3/23/2012 | FIELD |
| NBZ | SL-048-NBZ-SB-4.0-5.0 | 12C254 | SO | 3/23/2012 | FIELD |
| NBZ | SL-048-NBZ-SB-4.5 | 12C254 | SO | 3/23/2012 | FIELD |
| NBZ | SL-048-NBZ-SS-0.0-0.5 | 12C254 | SO | 3/23/2012 | FIELD |
| NBZ | SL-049-NBZ-SB-2.0-3.0 | 12C254 | SO | 3/23/2012 | FIELD |
| NBZ | SL-049-NBZ-SB-2.5 | 12C254 | SO | 3/23/2012 | FIELD |
| NBZ | SL-051-NBZ-SB-1.5-2.5 | 12C254 | SO | 3/23/2012 | FIELD |
| NBZ | SL-051-NBZ-SB-2.0 | 12C254 | SO | 3/23/2012 | FIELD |
| NBZ | SL-057-NBZ-SS-0.0-0.5 | 12C254 | SO | 3/23/2012 | FIELD |
| | TB-032312 | 12C254 | WQ | 3/23/2012 | FIELD |
| NBZ | SL-042-NBZ-SS-0.0-0.5 | 12C261 | SO | 3/26/2012 | FIELD |
| NBZ | SL-043-NBZ-SS-0.0-0.5 | 12C261 | SO | 3/26/2012 | FIELD |
| NBZ | SL-045-NBZ-SB-4.0-5.0 | 12C261 | SO | 3/26/2012 | FIELD |
| NBZ | SL-045-NBZ-SB-4.5 | 12C261 | SO | 3/26/2012 | FIELD |
| NBZ | SL-045-NBZ-SS-0.0-0.5 | 12C261 | SO | 3/26/2012 | FIELD |
| NBZ | SL-046-NBZ-SB-4.0-5.0 | 12C261 | SO | 3/26/2012 | FIELD |
| NBZ | SL-046-NBZ-SB-4.5 | 12C261 | SO | 3/26/2012 | FIELD |
| NBZ | SL-046-NBZ-SS-0.0-0.5 | 12C261 | SO | 3/26/2012 | FIELD |
| NBZ | SL-050-NBZ-SS-0.0-0.5 | 12C261 | SO | 3/26/2012 | FIELD |
| NBZ | SL-123-NBZ-SS-0.0-0.5 | 12C261 | SO | 3/26/2012 | FIELD |
| NBZ | SL-124-NBZ-SS-0.0-0.5 | 12C261 | SO | 3/26/2012 | FIELD |
| NBZ | SL-126-NBZ-SS-0.0-0.5 | 12C261 | SO | 3/26/2012 | FIELD |

**Appendix C. Samples by SDG for NBZ**

| Task Code | System Sample Code | Lab SDG | Matrix Code | Sample Date | Sample Source |
|---|---|---|---|---|---|
| NBZ | SL-133-NBZ-SS-0.0-0.5 | 12C261 | SO | 3/26/2012 | FIELD |
| NBZ | SL-195-NBZ-SS-0.0-0.5 | 12C261 | SO | 3/26/2012 | FIELD |
| NBZ | SL-196-NBZ-SS-0.0-0.5 | 12C261 | SO | 3/26/2012 | FIELD |
| | TB-032612 | 12C261 | WQ | 3/26/2012 | FIELD |
| NBZ | EB-NBZ-SB-032712 | 12C273 | WQ | 3/27/2012 | FIELD |
| NBZ | EB-NBZ-SS-032712 | 12C273 | WQ | 3/27/2012 | FIELD |
| NBZ | SL-038-NBZ-SS-0.0-0.5 | 12C273 | SO | 3/27/2012 | FIELD |
| NBZ | SL-039-NBZ-SB-2.0-3.0 | 12C273 | SO | 3/28/2012 | FIELD |
| NBZ | SL-039-NBZ-SB-2.5 | 12C273 | SO | 3/27/2012 | FIELD |
| NBZ | SL-078-NBZ-SS-0.0-0.5 | 12C273 | SO | 3/27/2012 | FIELD |
| NBZ | SL-095-NBZ-SS-0.0-0.5 | 12C273 | SO | 3/27/2012 | FIELD |
| NBZ | SL-102-NBZ-SS-0.0-0.5 | 12C273 | SO | 3/27/2012 | FIELD |
| NBZ | SL-109-NBZ-SS-0.0-0.5 | 12C273 | SO | 3/27/2012 | FIELD |
| NBZ | SL-119-NBZ-SS-0.0-0.5 | 12C273 | SO | 3/27/2012 | FIELD |
| NBZ | SL-129-NBZ-SS-0.0-0.5 | 12C273 | SO | 3/27/2012 | FIELD |
| NBZ | SL-130-NBZ-SS-0.0-0.5 | 12C273 | SO | 3/27/2012 | FIELD |
| | TB-032712 | 12C273 | WQ | 3/27/2012 | FIELD |
| NBZ | DUP-03-NBZ-QC-032812 | 12C285 | SO | 3/28/2012 | FIELD |
| NBZ | SL-036-NBZ-SB-4.0-5.0 | 12C285 | SO | 3/28/2012 | FIELD |
| NBZ | SL-036-NBZ-SB-4.5 | 12C285 | SO | 3/28/2012 | FIELD |
| NBZ | SL-036-NBZ-SB-7.5-8.5 | 12C285 | SO | 3/28/2012 | FIELD |
| NBZ | SL-036-NBZ-SB-8.0 | 12C285 | SO | 3/28/2012 | FIELD |
| NBZ | SL-037-NBZ-SB-3.0-4.0 | 12C285 | SO | 3/28/2012 | FIELD |
| NBZ | SL-037-NBZ-SB-3.5 | 12C285 | SO | 3/28/2012 | FIELD |
| NBZ | SL-040-NBZ-SB-2.5-3.5 | 12C285 | SO | 3/28/2012 | FIELD |
| NBZ | SL-040-NBZ-SB-3.0 | 12C285 | SO | 3/28/2012 | FIELD |
| NBZ | SL-040-NBZ-SS-0.0-0.5 | 12C285 | SO | 3/28/2012 | FIELD |
| NBZ | SL-094-NBZ-SS-0.0-0.5 | 12C285 | SO | 3/28/2012 | FIELD |
| NBZ | SL-096-NBZ-SS-0.0-0.5 | 12C285 | SO | 3/28/2012 | FIELD |
| NBZ | SL-135-NBZ-SS-0.0-0.5 | 12C285 | SO | 3/28/2012 | FIELD |
| NBZ | SL-136-NBZ-SS-0.0-0.5 | 12C285 | SO | 3/28/2012 | FIELD |
| NBZ | SL-139-NBZ-SS-0.0-0.5 | 12C285 | SO | 3/28/2012 | FIELD |
| NBZ | SL-141-NBZ-SS-0.0-0.5 | 12C285 | SO | 3/28/2012 | FIELD |
| NBZ | SL-143-NBZ-SS-0.0-0.5 | 12C285 | SO | 3/28/2012 | FIELD |
| | TB-032812 | 12C285 | WQ | 3/28/2012 | FIELD |
| NBZ | DUP-04-NBZ-QC-032912 | 12C305 | SO | 3/29/2012 | FIELD |
| NBZ | DUP-05-NBZ-QC-032912 | 12C305 | SO | 3/29/2012 | FIELD |
| NBZ | EB-NBZ-SB-032912 | 12C305 | WQ | 3/29/2012 | FIELD |
| NBZ | EB-NBZ-SS-032912 | 12C305 | WQ | 3/29/2012 | FIELD |
| NBZ | SL-044-NBZ-SS-0.0-0.5 | 12C305 | SO | 3/29/2012 | FIELD |
| NBZ | SL-091-NBZ-SB-4.0-5.0 | 12C305 | SO | 3/29/2012 | FIELD |
| NBZ | SL-091-NBZ-SB-4.5 | 12C305 | SO | 3/29/2012 | FIELD |
| NBZ | SL-091-NBZ-SS-0.0-0.5 | 12C305 | SO | 3/29/2012 | FIELD |
| NBZ | SL-092-NBZ-SS-0.0-0.5 | 12C305 | SO | 3/29/2012 | FIELD |
| NBZ | SL-101-NBZ-SS-0.0-0.5 | 12C305 | SO | 3/29/2012 | FIELD |
| NBZ | SL-103-NBZ-SS-0.0-0.5 | 12C305 | SO | 3/29/2012 | FIELD |
| NBZ | SL-118-NBZ-SS-0.0-0.5 | 12C305 | SO | 3/29/2012 | FIELD |
| NBZ | SL-131-NBZ-SS-0.0-0.5 | 12C305 | SO | 3/29/2012 | FIELD |
| NBZ | SL-197-NBZ-SS-0.0-0.5 | 12C305 | SO | 3/29/2012 | FIELD |
| | TB-032912 | 12C305 | WQ | 3/29/2012 | FIELD |
| NBZ | SL-079-NBZ-SS-0.0-0.5 | 12C321 | SO | 3/30/2012 | FIELD |
| NBZ | SL-121-NBZ-SS-0.0-0.5 | 12C321 | SO | 3/30/2012 | FIELD |
| NBZ | SL-134-NBZ-SS-0.0-0.5 | 12C321 | SO | 3/30/2012 | FIELD |
| NBZ | SL-025-NBZ-SS-0.0-0.5 | 12D004 | SO | 4/2/2012 | FIELD |
| NBZ | SL-026-NBZ-SS-0.0-0.5 | 12D004 | SO | 4/2/2012 | FIELD |
| NBZ | SL-027-NBZ-SS-0.0-0.5 | 12D004 | SO | 4/2/2012 | FIELD |
| NBZ | SL-028-NBZ-SS-0.0-0.5 | 12D004 | SO | 4/2/2012 | FIELD |
| NBZ | SL-107-NBZ-SS-0.0-0.5 | 12D004 | SO | 4/2/2012 | FIELD |
| NBZ | SL-111-NBZ-SS-0.0-0.5 | 12D004 | SO | 4/2/2012 | FIELD |
| NBZ | SL-112-NBZ-SS-0.0-0.5 | 12D004 | SO | 4/2/2012 | FIELD |
| NBZ | SL-113-NBZ-SS-0.0-0.5 | 12D004 | SO | 4/2/2012 | FIELD |
| NBZ | SL-138-NBZ-SS-0.0-0.5 | 12D004 | SO | 4/2/2012 | FIELD |
| NBZ | SL-194-NBZ-SS-0.0-0.5 | 12D004 | SO | 4/2/2012 | FIELD |

**Appendix C. Samples by SDG for NBZ**

| Task Code | System Sample Code | Lab SDG | Matrix Code | Sample Date | Sample Source |
|---|---|---|---|---|---|
| NBZ | SL-031-NBZ-SS-0.0-0.5 | 12D018 | SO | 4/3/2012 | FIELD |
| NBZ | SL-032-NBZ-SS-0.0-0.5 | 12D018 | SO | 4/3/2012 | FIELD |
| NBZ | SL-033-NBZ-SS-0.0-0.5 | 12D018 | SO | 4/3/2012 | FIELD |
| NBZ | SL-034-NBZ-SS-0.0-0.5 | 12D018 | SO | 4/3/2012 | FIELD |
| NBZ | SL-035-NBZ-SB-2.0-3.0 | 12D018 | SO | 4/3/2012 | FIELD |
| NBZ | SL-035-NBZ-SB-2.5 | 12D018 | SO | 4/3/2012 | FIELD |
| NBZ | SL-035-NBZ-SS-0.0-0.5 | 12D018 | SO | 4/3/2012 | FIELD |
| NBZ | SL-108-NBZ-SS-0.0-0.5 | 12D018 | SO | 4/3/2012 | FIELD |
| NBZ | SL-115-NBZ-SS-0.0-0.5 | 12D018 | SO | 4/3/2012 | FIELD |
| NBZ | SL-122-NBZ-SS-0.0-0.5 | 12D018 | SO | 4/3/2012 | FIELD |
| NBZ | SL-127-NBZ-SS-0.0-0.5 | 12D018 | SO | 4/3/2012 | FIELD |
| NBZ | SL-140-NBZ-SS-0.0-0.5 | 12D018 | SO | 4/3/2012 | FIELD |
| NBZ | SL-169-NBZ-SS-0.0-0.5 | 12D018 | SO | 4/3/2012 | FIELD |
| NBZ | SL-198-NBZ-SS-0.0-0.5 | 12D018 | SO | 4/3/2012 | FIELD |
| | TB-040312 | 12D018 | WQ | 4/3/2012 | FIELD |
| NBZ | EB-NBZ-SB-040412 | 12D031 | WQ | 4/4/2012 | FIELD |
| NBZ | EB-NBZ-SS-040412 | 12D031 | WQ | 4/4/2012 | FIELD |
| NBZ | SL-020-NBZ-SB-2.5-3.5 | 12D031 | SO | 4/4/2012 | FIELD |
| NBZ | SL-020-NBZ-SB-3.0 | 12D031 | SO | 4/4/2012 | FIELD |
| NBZ | SL-020-NBZ-SS-0.0-0.5 | 12D031 | SO | 4/4/2012 | FIELD |
| NBZ | SL-097-NBZ-SS-0.0-0.5 | 12D031 | SO | 4/4/2012 | FIELD |
| NBZ | SL-099-NBZ-SS-0.0-0.5 | 12D031 | SO | 4/4/2012 | FIELD |
| NBZ | SL-100-NBZ-SS-0.0-0.5 | 12D031 | SO | 4/4/2012 | FIELD |
| NBZ | SL-104-NBZ-SS-0.0-0.5 | 12D031 | SO | 4/4/2012 | FIELD |
| NBZ | SL-110-NBZ-SS-0.0-0.5 | 12D031 | SO | 4/4/2012 | FIELD |
| NBZ | SL-114-NBZ-SS-0.0-0.5 | 12D031 | SO | 4/4/2012 | FIELD |
| NBZ | SL-120-NBZ-SS-0.0-0.5 | 12D031 | SO | 4/4/2012 | FIELD |
| NBZ | SL-155-NBZ-SS-0.0-0.5 | 12D031 | SO | 4/4/2012 | FIELD |
| NBZ | SL-181-NBZ-SS-0.0-0.5 | 12D031 | SO | 4/4/2012 | FIELD |
| NBZ | SL-187-NBZ-SS-0.0-0.5 | 12D031 | SO | 4/4/2012 | FIELD |
| | TB-040412 | 12D031 | WQ | 4/4/2012 | FIELD |
| NBZ | SL-149-NBZ-SS-0.0-0.5 | 12D048 | SO | 4/5/2012 | FIELD |
| NBZ | SL-165-NBZ-SS-0.0-0.5 | 12D048 | SO | 4/5/2012 | FIELD |
| NBZ | SL-175-NBZ-SS-0.0-0.5 | 12D048 | SO | 4/5/2012 | FIELD |
| NBZ | SL-190-NBZ-SS-0.0-0.5 | 12D048 | SO | 4/5/2012 | FIELD |
| NBZ | DUP-06-NBZ-QC-040912 | 12D084 | SO | 4/9/2012 | FIELD |
| NBZ | SL-001-NBZ-SS-0.0-0.5 | 12D084 | SO | 4/9/2012 | FIELD |
| NBZ | SL-151-NBZ-SS-0.0-0.5 | 12D084 | SO | 4/9/2012 | FIELD |
| NBZ | SL-157-NBZ-SS-0.0-0.5 | 12D084 | SO | 4/9/2012 | FIELD |
| NBZ | SL-167-NBZ-SS-0.0-0.5 | 12D084 | SO | 4/9/2012 | FIELD |
| NBZ | SL-174-NBZ-SS-0.0-0.5 | 12D084 | SO | 4/9/2012 | FIELD |
| NBZ | SL-185-NBZ-SS-0.0-0.5 | 12D084 | SO | 4/9/2012 | FIELD |
| NBZ | SL-191-NBZ-SS-0.0-0.5 | 12D084 | SO | 4/9/2012 | FIELD |
| NBZ | DUP-07-NBZ-QC-041012 | 12D092 | SO | 4/10/2012 | FIELD |
| NBZ | SL-009-NBZ-SS-0.0-0.5 | 12D092 | SO | 4/10/2012 | FIELD |
| NBZ | SL-084-NBZ-SS-0.0-0.5 | 12D092 | SO | 4/10/2012 | FIELD |
| NBZ | SL-085-NBZ-SS-0.0-0.5 | 12D092 | SO | 4/10/2012 | FIELD |
| NBZ | SL-177-NBZ-SS-0.0-0.5 | 12D092 | SO | 4/10/2012 | FIELD |
| NBZ | SL-186-NBZ-SS-0.0-0.5 | 12D092 | SO | 4/10/2012 | FIELD |
| NBZ | SL-188-NBZ-SS-0.0-0.5 | 12D092 | SO | 4/10/2012 | FIELD |
| NBZ | SL-004-NBZ-SS-0.0-0.5 | 12D106 | SO | 4/11/2012 | FIELD |
| NBZ | SL-145-NBZ-SS-0.0-0.5 | 12D106 | SO | 4/11/2012 | FIELD |
| NBZ | SL-148-NBZ-SS-0.0-0.5 | 12D106 | SO | 4/11/2012 | FIELD |
| NBZ | SL-154-NBZ-SS-0.0-0.5 | 12D106 | SO | 4/11/2012 | FIELD |
| NBZ | SL-163-NBZ-SS-0.0-0.5 | 12D106 | SO | 4/11/2012 | FIELD |
| NBZ | SL-168-NBZ-SS-0.0-0.5 | 12D106 | SO | 4/11/2012 | FIELD |
| NBZ | SL-176-NBZ-SS-0.0-0.5 | 12D106 | SO | 4/11/2012 | FIELD |
| NBZ | SL-182-NBZ-SS-0.0-0.5 | 12D106 | SO | 4/11/2012 | FIELD |
| NBZ | EB-NBZ-SS-041212 | 12D122 | WQ | 4/12/2012 | FIELD |
| NBZ | SL-011-NBZ-SS-0.0-0.5 | 12D122 | SO | 4/12/2012 | FIELD |
| NBZ | SL-144-NBZ-SS-0.0-0.5 | 12D122 | SO | 4/12/2012 | FIELD |
| NBZ | SL-152-NBZ-SS-0.0-0.5 | 12D122 | SO | 4/12/2012 | FIELD |
| NBZ | SL-158-NBZ-SS-0.0-0.5 | 12D122 | SO | 4/12/2012 | FIELD |

**Appendix C. Samples by SDG for NBZ**

| Task Code | System Sample Code | Lab SDG | Matrix Code | Sample Date | Sample Source |
|---|---|---|---|---|---|
| NBZ | SL-172-NBZ-SS-0.0-0.5 | 12D122 | SO | 4/12/2012 | FIELD |
| NBZ | SL-180-NBZ-SS-0.0-0.5 | 12D135 | SO | 4/13/2012 | FIELD |
| NBZ | SL-183-NBZ-SS-0.0-0.5 | 12D135 | SO | 4/13/2012 | FIELD |
| NBZ | DUP-08-NBZ-QC-041612 | 12D146 | SO | 4/16/2012 | FIELD |
| NBZ | SL-013-NBZ-SS-0.0-0.5 | 12D146 | SO | 4/16/2012 | FIELD |
| NBZ | SL-159-NBZ-SS-0.0-0.5 | 12D146 | SO | 4/16/2012 | FIELD |
| NBZ | SL-160-NBZ-SS-0.0-0.5 | 12D146 | SO | 4/16/2012 | FIELD |
| NBZ | SL-164-NBZ-SS-0.0-0.5 | 12D146 | SO | 4/16/2012 | FIELD |
| NBZ | SL-173-NBZ-SS-0.0-0.5 | 12D146 | SO | 4/16/2012 | FIELD |
| NBZ | EB-NBZ-SB-041712 | 12D154 | WQ | 4/17/2012 | FIELD |
| NBZ | EB-NBZ-SS-041712 | 12D154 | WQ | 4/17/2012 | FIELD |
| NBZ | SL-014-NBZ-SS-0.0-0.5 | 12D154 | SO | 4/17/2012 | FIELD |
| NBZ | SL-088-NBZ-SS-0.0-0.5 | 12D154 | SO | 4/17/2012 | FIELD |
| NBZ | SL-090-NBZ-SS-0.0-0.5 | 12D154 | SO | 4/17/2012 | FIELD |
| NBZ | SL-147-NBZ-SS-0.0-0.5 | 12D154 | SO | 4/17/2012 | FIELD |
| NBZ | SL-156-NBZ-SS-0.0-0.5 | 12D154 | SO | 4/17/2012 | FIELD |
| NBZ | SL-161-NBZ-SS-0.0-0.5 | 12D154 | SO | 4/17/2012 | FIELD |
| NBZ | SL-162-NBZ-SS-0.0-0.5 | 12D154 | SO | 4/17/2012 | FIELD |
| NBZ | SL-166-NBZ-SS-0.0-0.5 | 12D154 | SO | 4/17/2012 | FIELD |
| NBZ | DUP-10-NBZ-QC-041612 | 12D166 | SO | 4/16/2012 | FIELD |
| NBZ | SL-008-NBZ-SB-4.0-5.0 | 12D166 | SO | 4/18/2012 | FIELD |
| NBZ | SL-008-NBZ-SB-4.5 | 12D166 | SO | 4/18/2012 | FIELD |
| NBZ | SL-081-NBZ-SS-0.0-0.5 | 12D166 | SO | 4/18/2012 | FIELD |
| NBZ | SL-082-NBZ-SB-2.5-3.5 | 12D166 | SO | 4/18/2012 | FIELD |
| NBZ | SL-082-NBZ-SB-3.0 | 12D166 | SO | 4/18/2012 | FIELD |
| NBZ | SL-082-NBZ-SS-0.0-0.5 | 12D166 | SO | 4/18/2012 | FIELD |
| NBZ | SL-083-NBZ-SS-0.0-0.5 | 12D166 | SO | 4/18/2012 | FIELD |
| NBZ | SL-146-NBZ-SS-0.0-0.5 | 12D166 | SO | 4/18/2012 | FIELD |
| NBZ | SL-189-NBZ-SS-0.0-0.5 | 12D166 | SO | 4/18/2012 | FIELD |
| | TB-041812 | 12D166 | WQ | 4/18/2012 | FIELD |
| NBZ | DUP-09-NBZ-QC-041912 | 12D176 | SO | 4/19/2012 | FIELD |
| NBZ | SL-012-NBZ-SB-0.5-1.5 | 12D176 | SO | 4/19/2012 | FIELD |
| NBZ | SL-012-NBZ-SB-1.0 | 12D176 | SO | 4/19/2012 | FIELD |
| NBZ | SL-012-NBZ-SS-0.0-0.5 | 12D176 | SO | 4/19/2012 | FIELD |
| NBZ | SL-017-NBZ-SS-0.0-0.5 | 12D176 | SO | 4/19/2012 | FIELD |
| NBZ | SL-086-NBZ-SS-0.0-0.5 | 12D176 | SO | 4/19/2012 | FIELD |
| NBZ | SL-087-NBZ-SS-0.0-0.5 | 12D176 | SO | 4/19/2012 | FIELD |
| NBZ | SL-087-NBZ-SS-0.5 | 12D176 | SO | 4/19/2012 | FIELD |
| NBZ | SL-150-NBZ-SS-0.0-0.5 | 12D176 | SO | 4/19/2012 | FIELD |
| NBZ | SL-178-NBZ-SS-0.0-0.5 | 12D176 | SO | 4/19/2012 | FIELD |
| NBZ | SL-179-NBZ-SS-0.0-0.5 | 12D176 | SO | 4/19/2012 | FIELD |
| NBZ | SL-184-NBZ-SS-0.0-0.5 | 12D176 | SO | 4/19/2012 | FIELD |
| NBZ | SL-193-NBZ-SS-0.0-0.5 | 12D176 | SO | 4/19/2012 | FIELD |
| | TB-041912 | 12D176 | WQ | 4/19/2012 | FIELD |
| NBZ | SL-016-NBZ-SS-0.0-0.5 | 12D192 | SO | 4/20/2012 | FIELD |
| NBZ | SL-018-NBZ-SS-0.0-0.5 | 12D192 | SO | 4/20/2012 | FIELD |
| NBZ | SL-080-NBZ-SS-0.0-0.5 | 12D192 | SO | 4/20/2012 | FIELD |
| NBZ | SL-089-NBZ-SS-0.0-0.5 | 12D192 | SO | 4/20/2012 | FIELD |
| NBZ | SL-170-NBZ-SS-0.0-0.5 | 12D192 | SO | 4/20/2012 | FIELD |
| NBZ | SL-171-NBZ-SS-0.0-0.5 | 12D192 | SO | 4/20/2012 | FIELD |
| NBZ | SL-202-NBZ-SS-0.0-0.5 | 12D192 | SO | 4/20/2012 | FIELD |
| NBZ | EB-NBZ-SS-042312 | 12D197 | WQ | 4/23/2012 | FIELD |
| NBZ | SL-199-NBZ-SS-0.0-0.5 | 12D197 | SO | 4/23/2012 | FIELD |
| NBZ | SL-200-NBZ-SS-0.0-0.5 | 12D197 | SO | 4/23/2012 | FIELD |
| NBZ | SL-201-NBZ-SS-0.0-0.5 | 12D197 | SO | 4/23/2012 | FIELD |
| NBZ | SL-002-NBZ-SB-4.0-5.0 | DE296 | SO | 3/12/2012 | FIELD |
| NBZ | SL-002-NBZ-SB-7.5-8.5 | DE296 | SO | 3/12/2012 | FIELD |
| NBZ | SL-002-NBZ-SS-0.0-0.5 | DE296 | SO | 3/12/2012 | FIELD |
| NBZ | SL-003-NBZ-SB-4.0-5.0 | DE296 | SO | 3/12/2012 | FIELD |
| NBZ | SL-003-NBZ-SS-0.0-0.5 | DE296 | SO | 3/12/2012 | FIELD |
| NBZ | SL-005-NBZ-SB-4.0-5.0 | DE296 | SO | 3/13/2012 | FIELD |
| NBZ | SL-006-NBZ-SB-3.0-4.0 | DE296 | SO | 3/13/2012 | FIELD |
| NBZ | SL-007-NBZ-SB-4.0-5.0 | DE296 | SO | 3/12/2012 | FIELD |

**Appendix C. Samples by SDG for NBZ**

| Task Code | System Sample Code | Lab SDG | Matrix Code | Sample Date | Sample Source |
|---|---|---|---|---|---|
| NBZ | SL-007-NBZ-SB-9.0-10.0 | DE296 | SO | 3/12/2012 | FIELD |
| NBZ | SL-010-NBZ-SB-4.0-5.0 | DE296 | SO | 3/12/2012 | FIELD |
| NBZ | SL-015-NBZ-SS-0.0-0.5 | DE296 | SO | 3/13/2012 | FIELD |
| NBZ | SL-021-NBZ-SB-4.0-5.0 | DE296 | SO | 3/13/2012 | FIELD |
| NBZ | SL-021-NBZ-SS-0.0-0.5 | DE296 | SO | 3/13/2012 | FIELD |
| NBZ | EB-NBZ-SB-031512 | DE297 | WQ | 3/15/2012 | FIELD |
| NBZ | EB-NBZ-SS-031512 | DE297 | WQ | 3/15/2012 | FIELD |
| NBZ | SL-019-NBZ-SB-3.0-4.0 | DE297 | SO | 3/13/2012 | FIELD |
| NBZ | SL-019-NBZ-SS-0.0-0.5 | DE297 | SO | 3/13/2012 | FIELD |
| NBZ | SL-022-NBZ-SB-4.0-5.0 | DE297 | SO | 3/14/2012 | FIELD |
| NBZ | SL-022-NBZ-SB-9.0-10.0 | DE297 | SO | 3/14/2012 | FIELD |
| NBZ | SL-022-NBZ-SS-0.0-0.5 | DE297 | SO | 3/14/2012 | FIELD |
| NBZ | SL-023-NBZ-SB-4.0-5.0 | DE297 | SO | 3/14/2012 | FIELD |
| NBZ | SL-023-NBZ-SB-8.5-9.5 | DE297 | SO | 3/14/2012 | FIELD |
| NBZ | SL-023-NBZ-SS-0.0-0.5 | DE297 | SO | 3/14/2012 | FIELD |
| NBZ | SL-024-NBZ-SS-0.0-0.5 | DE297 | SO | 3/14/2012 | FIELD |
| NBZ | SL-029-NBZ-SS-0.0-0.5 | DE297 | SO | 3/15/2012 | FIELD |
| NBZ | SL-030-NBZ-SS-0.0-0.5 | DE297 | SO | 3/14/2012 | FIELD |
| NBZ | SL-052-NBZ-SS-0.0-0.5 | DE297 | SO | 3/15/2012 | FIELD |
| NBZ | SL-058-NBZ-SS-0.0-0.5 | DE297 | SO | 3/15/2012 | FIELD |
| NBZ | DUP-01-NBZ-QC-031612 | DE298 | SO | 3/16/2012 | FIELD |
| NBZ | SL-053-NBZ-SB-3.5-4.5 | DE298 | SO | 3/15/2012 | FIELD |
| NBZ | SL-053-NBZ-SS-0.0-0.5 | DE298 | SO | 3/15/2012 | FIELD |
| NBZ | SL-056-NBZ-SB-3.0-4.0 | DE298 | SO | 3/15/2012 | FIELD |
| NBZ | SL-056-NBZ-SS-0.0-0.5 | DE298 | SO | 3/15/2012 | FIELD |
| NBZ | SL-067-NBZ-SB-1.5-2.5 | DE298 | SO | 3/16/2012 | FIELD |
| NBZ | SL-068-NBZ-SB-2.5-3.5 | DE298 | SO | 3/16/2012 | FIELD |
| NBZ | SL-072-NBZ-SB-4.0-5.0 | DE298 | SO | 3/16/2012 | FIELD |
| NBZ | EB-NBZ-SS-032112 | DE299 | WQ | 3/21/2012 | FIELD |
| NBZ | SL-065-NBZ-SB-1.0-2.0 | DE299 | SO | 3/21/2012 | FIELD |
| NBZ | SL-066-NBZ-SB-2.0-3.0 | DE299 | SO | 3/21/2012 | FIELD |
| NBZ | SL-069-NBZ-SB-3.0-4.0 | DE299 | SO | 3/20/2012 | FIELD |
| NBZ | SL-070-NBZ-SS-0.0-0.5 | DE299 | SO | 3/20/2012 | FIELD |
| NBZ | SL-071-NBZ-SB-4.0-5.0 | DE299 | SO | 3/19/2012 | FIELD |
| NBZ | SL-073-NBZ-SB-4.0-5.0 | DE299 | SO | 3/19/2012 | FIELD |
| NBZ | SL-073-NBZ-SB-9.0-10.0 | DE299 | SO | 3/19/2012 | FIELD |
| NBZ | SL-074-NBZ-SB-0.5-1.5 | DE299 | SO | 3/19/2012 | FIELD |
| NBZ | SL-075-NBZ-SS-0.0-0.5 | DE299 | SO | 3/20/2012 | FIELD |
| NBZ | SL-076-NBZ-SS-0.0-0.5 | DE299 | SO | 3/20/2012 | FIELD |
| NBZ | SL-077-NBZ-SB-2.5-3.5 | DE299 | SO | 3/20/2012 | FIELD |
| NBZ | SL-077-NBZ-SS-0.0-0.5 | DE299 | SO | 3/20/2012 | FIELD |
| NBZ | EB-NBZ-SB-032212 | DE300 | WQ | 3/22/2012 | FIELD |
| NBZ | SL-054-NBZ-SS-0.0-0.5 | DE300 | SO | 3/22/2012 | FIELD |
| NBZ | SL-055-NBZ-SS-0.0-0.5 | DE300 | SO | 3/22/2012 | FIELD |
| NBZ | SL-059-NBZ-SS-0.0-0.5 | DE300 | SO | 3/22/2012 | FIELD |
| NBZ | SL-060-NBZ-SS-0.0-0.5 | DE300 | SO | 3/22/2012 | FIELD |
| NBZ | SL-061-NBZ-SB-1.0-2.0 | DE300 | SO | 3/22/2012 | FIELD |
| NBZ | SL-062-NBZ-SB-2.5-3.5 | DE300 | SO | 3/21/2012 | FIELD |
| NBZ | SL-063-NBZ-SB-0.5-1.5 | DE300 | SO | 3/21/2012 | FIELD |
| NBZ | SL-064-NBZ-SB-0.5-1.5 | DE300 | SO | 3/21/2012 | FIELD |
| NBZ | DUP-02-NBZ-QC-032312 | DE301 | SO | 3/23/2012 | FIELD |
| NBZ | SL-047-NBZ-SB-4.0-5.0 | DE301 | SO | 3/23/2012 | FIELD |
| NBZ | SL-048-NBZ-SB-4.0-5.0 | DE301 | SO | 3/23/2012 | FIELD |
| NBZ | SL-048-NBZ-SS-0.0-0.5 | DE301 | SO | 3/23/2012 | FIELD |
| NBZ | SL-049-NBZ-SB-2.0-3.0 | DE301 | SO | 3/23/2012 | FIELD |
| NBZ | SL-051-NBZ-SB-1.5-2.5 | DE301 | SO | 3/23/2012 | FIELD |
| NBZ | SL-057-NBZ-SS-0.0-0.5 | DE301 | SO | 3/23/2012 | FIELD |
| NBZ | EB-NBZ-SB-032712 | DE302 | WQ | 3/27/2012 | FIELD |
| NBZ | EB-NBZ-SS-032712 | DE302 | WQ | 3/27/2012 | FIELD |
| NBZ | SL-038-NBZ-SS-0.0-0.5 | DE302 | SO | 3/27/2012 | FIELD |
| NBZ | SL-042-NBZ-SS-0.0-0.5 | DE302 | SO | 3/26/2012 | FIELD |
| NBZ | SL-043-NBZ-SS-0.0-0.5 | DE302 | SO | 3/26/2012 | FIELD |
| NBZ | SL-045-NBZ-SB-4.0-5.0 | DE302 | SO | 3/26/2012 | FIELD |

**Appendix C. Samples by SDG for NBZ**

| Task Code | System Sample Code | Lab SDG | Matrix Code | Sample Date | Sample Source |
|---|---|---|---|---|---|
| NBZ | SL-045-NBZ-SS-0.0-0.5 | DE302 | SO | 3/26/2012 | FIELD |
| NBZ | SL-046-NBZ-SB-4.0-5.0 | DE302 | SO | 3/26/2012 | FIELD |
| NBZ | SL-046-NBZ-SS-0.0-0.5 | DE302 | SO | 3/26/2012 | FIELD |
| NBZ | SL-050-NBZ-SS-0.0-0.5 | DE302 | SO | 3/26/2012 | FIELD |
| NBZ | SL-078-NBZ-SS-0.0-0.5 | DE302 | SO | 3/27/2012 | FIELD |
| NBZ | DUP-03-NBZ-QC-032812 | DE303 | SO | 3/28/2012 | FIELD |
| NBZ | SL-036-NBZ-SB-4.0-5.0 | DE303 | SO | 3/28/2012 | FIELD |
| NBZ | SL-036-NBZ-SB-7.5-8.5 | DE303 | SO | 3/28/2012 | FIELD |
| NBZ | SL-037-NBZ-SB-3.0-4.0 | DE303 | SO | 3/28/2012 | FIELD |
| NBZ | SL-039-NBZ-SB-2.0-3.0 | DE303 | SO | 3/28/2012 | FIELD |
| NBZ | SL-040-NBZ-SB-2.5-3.5 | DE303 | SO | 3/28/2012 | FIELD |
| NBZ | SL-040-NBZ-SS-0.0-0.5 | DE303 | SO | 3/28/2012 | FIELD |
| NBZ | DUP-05-NBZ-QC-032912 | DE304 | SO | 3/29/2012 | FIELD |
| NBZ | EB-NBZ-SB-032912 | DE304 | WQ | 3/29/2012 | FIELD |
| NBZ | EB-NBZ-SS-032912 | DE304 | WQ | 3/29/2012 | FIELD |
| NBZ | SL-044-NBZ-SS-0.0-0.5 | DE304 | SO | 3/29/2012 | FIELD |
| NBZ | SL-091-NBZ-SB-4.0-5.0 | DE304 | SO | 3/29/2012 | FIELD |
| NBZ | SL-091-NBZ-SS-0.0-0.5 | DE304 | SO | 3/29/2012 | FIELD |
| NBZ | SL-092-NBZ-SS-0.0-0.5 | DE304 | SO | 3/29/2012 | FIELD |
| NBZ | SL-079-NBZ-SS-0.0-0.5 | DE305 | SO | 3/30/2012 | FIELD |
| NBZ | EB-NBZ-SB-040412 | DE306 | WQ | 4/4/2012 | FIELD |
| NBZ | EB-NBZ-SS-040412 | DE306 | WQ | 4/4/2012 | FIELD |
| NBZ | SL-020-NBZ-SB-2.5-3.5 | DE306 | SO | 4/4/2012 | FIELD |
| NBZ | SL-025-NBZ-SS-0.0-0.5 | DE306 | SO | 4/2/2012 | FIELD |
| NBZ | SL-026-NBZ-SS-0.0-0.5 | DE306 | SO | 4/2/2012 | FIELD |
| NBZ | SL-027-NBZ-SS-0.0-0.5 | DE306 | SO | 4/2/2012 | FIELD |
| NBZ | SL-028-NBZ-SS-0.0-0.5 | DE306 | SO | 4/2/2012 | FIELD |
| NBZ | SL-031-NBZ-SS-0.0-0.5 | DE306 | SO | 4/3/2012 | FIELD |
| NBZ | SL-032-NBZ-SS-0.0-0.5 | DE306 | SO | 4/3/2012 | FIELD |
| NBZ | SL-033-NBZ-SS-0.0-0.5 | DE306 | SO | 4/3/2012 | FIELD |
| NBZ | SL-034-NBZ-SS-0.0-0.5 | DE306 | SO | 4/3/2012 | FIELD |
| NBZ | SL-035-NBZ-SB-2.0-3.0 | DE306 | SO | 4/3/2012 | FIELD |
| NBZ | SL-035-NBZ-SS-0.0-0.5 | DE306 | SO | 4/3/2012 | FIELD |
| NBZ | SL-020-NBZ-SS-0.0-0.5 | DE307 | SO | 4/4/2012 | FIELD |
| NBZ | DUP-07-NBZ-QC-041012 | DE308 | SO | 4/10/2012 | FIELD |
| NBZ | SL-001-NBZ-SS-0.0-0.5 | DE308 | SO | 4/9/2012 | FIELD |
| NBZ | SL-009-NBZ-SS-0.0-0.5 | DE308 | SO | 4/10/2012 | FIELD |
| NBZ | EB-NBZ-SS-041212 | DE309 | WQ | 4/12/2012 | FIELD |
| NBZ | SL-011-NBZ-SS-0.0-0.5 | DE309 | SO | 4/12/2012 | FIELD |
| NBZ | SL-085-NBZ-SS-0.0-0.5 | DE309 | SO | 4/10/2012 | FIELD |
| NBZ | EB-NBZ-SB-041712 | DE310 | WQ | 4/17/2012 | FIELD |
| NBZ | EB-NBZ-SS-041712 | DE310 | WQ | 4/17/2012 | FIELD |
| NBZ | SL-013-NBZ-SS-0.0-0.5 | DE310 | SO | 4/16/2012 | FIELD |
| NBZ | SL-014-NBZ-SS-0.0-0.5 | DE310 | SO | 4/17/2012 | FIELD |
| NBZ | SL-088-NBZ-SS-0.0-0.5 | DE310 | SO | 4/17/2012 | FIELD |
| NBZ | SL-008-NBZ-SB-4.0-5.0 | DE311 | SO | 4/18/2012 | FIELD |
| NBZ | SL-081-NBZ-SS-0.0-0.5 | DE311 | SO | 4/18/2012 | FIELD |
| NBZ | SL-082-NBZ-SB-2.5-3.5 | DE311 | SO | 4/18/2012 | FIELD |
| NBZ | SL-082-NBZ-SS-0.0-0.5 | DE311 | SO | 4/18/2012 | FIELD |
| NBZ | SL-083-NBZ-SS-0.0-0.5 | DE311 | SO | 4/18/2012 | FIELD |
| NBZ | SL-090-NBZ-SS-0.0-0.5 | DE311 | SO | 4/17/2012 | FIELD |
| NBZ | SL-012-NBZ-SB-0.5-1.5 | DE312 | SO | 4/19/2012 | FIELD |
| NBZ | SL-012-NBZ-SS-0.0-0.5 | DE312 | SO | 4/19/2012 | FIELD |
| NBZ | SL-086-NBZ-SS-0.0-0.5 | DE312 | SO | 4/19/2012 | FIELD |
| NBZ | SL-087-NBZ-SS-0.0-0.5 | DE312 | SO | 4/19/2012 | FIELD |
| NBZ | SL-016-NBZ-SS-0.0-0.5 | DE313 | SO | 4/20/2012 | FIELD |
| NBZ | SL-017-NBZ-SS-0.0-0.5 | DE313 | SO | 4/19/2012 | FIELD |
| NBZ | SL-018-NBZ-SS-0.0-0.5 | DE313 | SO | 4/20/2012 | FIELD |
| NBZ | SL-080-NBZ-SS-0.0-0.5 | DE313 | SO | 4/20/2012 | FIELD |
| NBZ | SL-089-NBZ-SS-0.0-0.5 | DE313 | SO | 4/20/2012 | FIELD |
| NBZ | SL-002-NBZ-SB-4.0-5.0 | DX159 | SO | 3/12/2012 | FIELD |
| NBZ | SL-002-NBZ-SB-7.5-8.5 | DX159 | SO | 3/12/2012 | FIELD |
| NBZ | SL-002-NBZ-SS-0.0-0.5 | DX159 | SO | 3/12/2012 | FIELD |

**Appendix C. Samples by SDG for NBZ**

| Task Code | System Sample Code | Lab SDG | Matrix Code | Sample Date | Sample Source |
|---|---|---|---|---|---|
| NBZ | SL-003-NBZ-SB-4.0-5.0 | DX159 | SO | 3/12/2012 | FIELD |
| NBZ | SL-003-NBZ-SS-0.0-0.5 | DX159 | SO | 3/12/2012 | FIELD |
| NBZ | SL-005-NBZ-SB-4.0-5.0 | DX159 | SO | 3/13/2012 | FIELD |
| NBZ | SL-006-NBZ-SB-3.0-4.0 | DX159 | SO | 3/13/2012 | FIELD |
| NBZ | SL-007-NBZ-SB-4.0-5.0 | DX159 | SO | 3/12/2012 | FIELD |
| NBZ | SL-007-NBZ-SB-9.0-10.0 | DX159 | SO | 3/12/2012 | FIELD |
| NBZ | SL-010-NBZ-SB-4.0-5.0 | DX159 | SO | 3/12/2012 | FIELD |
| NBZ | SL-015-NBZ-SS-0.0-0.5 | DX159 | SO | 3/13/2012 | FIELD |
| NBZ | SL-021-NBZ-SB-4.0-5.0 | DX159 | SO | 3/13/2012 | FIELD |
| NBZ | SL-021-NBZ-SS-0.0-0.5 | DX159 | SO | 3/13/2012 | FIELD |
| NBZ | EB-NBZ-SB-031512 | DX160 | WQ | 3/15/2012 | FIELD |
| NBZ | EB-NBZ-SS-031512 | DX160 | WQ | 3/15/2012 | FIELD |
| NBZ | SL-019-NBZ-SB-3.0-4.0 | DX160 | SO | 3/13/2012 | FIELD |
| NBZ | SL-019-NBZ-SS-0.0-0.5 | DX160 | SO | 3/13/2012 | FIELD |
| NBZ | SL-022-NBZ-SB-4.0-5.0 | DX160 | SO | 3/14/2012 | FIELD |
| NBZ | SL-022-NBZ-SB-9.0-10.0 | DX160 | SO | 3/14/2012 | FIELD |
| NBZ | SL-022-NBZ-SS-0.0-0.5 | DX160 | SO | 3/14/2012 | FIELD |
| NBZ | SL-023-NBZ-SB-4.0-5.0 | DX160 | SO | 3/14/2012 | FIELD |
| NBZ | SL-023-NBZ-SB-8.5-9.5 | DX160 | SO | 3/14/2012 | FIELD |
| NBZ | SL-023-NBZ-SS-0.0-0.5 | DX160 | SO | 3/14/2012 | FIELD |
| NBZ | SL-024-NBZ-SS-0.0-0.5 | DX160 | SO | 3/14/2012 | FIELD |
| NBZ | SL-029-NBZ-SS-0.0-0.5 | DX160 | SO | 3/15/2012 | FIELD |
| NBZ | SL-030-NBZ-SS-0.0-0.5 | DX160 | SO | 3/14/2012 | FIELD |
| NBZ | SL-052-NBZ-SS-0.0-0.5 | DX160 | SO | 3/15/2012 | FIELD |
| NBZ | SL-058-NBZ-SB-4.0-5.0 | DX160 | SO | 3/15/2012 | FIELD |
| NBZ | DUP-01-NBZ-QC-031612 | DX161 | SO | 3/16/2012 | FIELD |
| NBZ | EB-NBZ-SS-032112 | DX161 | WQ | 3/21/2012 | FIELD |
| NBZ | SL-053-NBZ-SB-3.5-4.5 | DX161 | SO | 3/15/2012 | FIELD |
| NBZ | SL-053-NBZ-SS-0.0-0.5 | DX161 | SO | 3/15/2012 | FIELD |
| NBZ | SL-056-NBZ-SB-3.0-4.0 | DX161 | SO | 3/15/2012 | FIELD |
| NBZ | SL-056-NBZ-SS-0.0-0.5 | DX161 | SO | 3/15/2012 | FIELD |
| NBZ | SL-065-NBZ-SB-1.0-2.0 | DX161 | SO | 3/21/2012 | FIELD |
| NBZ | SL-066-NBZ-SB-2.0-3.0 | DX161 | SO | 3/21/2012 | FIELD |
| NBZ | SL-067-NBZ-SB-1.5-2.5 | DX161 | SO | 3/16/2012 | FIELD |
| NBZ | SL-068-NBZ-SB-2.5-3.5 | DX161 | SO | 3/16/2012 | FIELD |
| NBZ | SL-069-NBZ-SB-3.0-4.0 | DX161 | SO | 3/20/2012 | FIELD |
| NBZ | SL-070-NBZ-SS-0.0-0.5 | DX161 | SO | 3/20/2012 | FIELD |
| NBZ | SL-071-NBZ-SB-4.0-5.0 | DX161 | SO | 3/19/2012 | FIELD |
| NBZ | SL-072-NBZ-SB-4.0-5.0 | DX161 | SO | 3/16/2012 | FIELD |
| NBZ | SL-073-NBZ-SB-4.0-5.0 | DX161 | SO | 3/19/2012 | FIELD |
| NBZ | SL-073-NBZ-SB-9.0-10.0 | DX161 | SO | 3/19/2012 | FIELD |
| NBZ | SL-074-NBZ-SB-0.5-1.5 | DX161 | SO | 3/19/2012 | FIELD |
| NBZ | SL-075-NBZ-SS-0.0-0.5 | DX161 | SO | 3/20/2012 | FIELD |
| NBZ | SL-076-NBZ-SS-0.0-0.5 | DX161 | SO | 3/20/2012 | FIELD |
| NBZ | SL-077-NBZ-SB-2.5-3.5 | DX161 | SO | 3/20/2012 | FIELD |
| NBZ | SL-077-NBZ-SS-0.0-0.5 | DX161 | SO | 3/20/2012 | FIELD |
| NBZ | DUP-02-NBZ-QC-032312 | DX162 | SO | 3/23/2012 | FIELD |
| NBZ | EB-NBZ-SB-032212 | DX162 | WQ | 3/22/2012 | FIELD |
| NBZ | SL-047-NBZ-SB-4.0-5.0 | DX162 | SO | 3/23/2012 | FIELD |
| NBZ | SL-048-NBZ-SB-4.0-5.0 | DX162 | SO | 3/23/2012 | FIELD |
| NBZ | SL-048-NBZ-SS-0.0-0.5 | DX162 | SO | 3/23/2012 | FIELD |
| NBZ | SL-049-NBZ-SB-2.0-3.0 | DX162 | SO | 3/23/2012 | FIELD |
| NBZ | SL-051-NBZ-SB-1.5-2.5 | DX162 | SO | 3/23/2012 | FIELD |
| NBZ | SL-054-NBZ-SS-0.0-0.5 | DX162 | SO | 3/22/2012 | FIELD |
| NBZ | SL-055-NBZ-SS-0.0-0.5 | DX162 | SO | 3/22/2012 | FIELD |
| NBZ | SL-057-NBZ-SS-0.0-0.5 | DX162 | SO | 3/23/2012 | FIELD |
| NBZ | SL-059-NBZ-SS-0.0-0.5 | DX162 | SO | 3/22/2012 | FIELD |
| NBZ | SL-060-NBZ-SS-0.0-0.5 | DX162 | SO | 3/22/2012 | FIELD |
| NBZ | SL-061-NBZ-SB-1.0-2.0 | DX162 | SO | 3/22/2012 | FIELD |
| NBZ | SL-062-NBZ-SB-2.5-3.5 | DX162 | SO | 3/21/2012 | FIELD |
| NBZ | SL-063-NBZ-SB-0.5-1.5 | DX162 | SO | 3/21/2012 | FIELD |
| NBZ | SL-064-NBZ-SB-0.5-1.5 | DX162 | SO | 3/21/2012 | FIELD |
| NBZ | SL-105-NBZ-SS-0.0-0.5 | DX162 | SO | 3/21/2012 | FIELD |

**Appendix C. Samples by SDG for NBZ**

| Task Code | System Sample Code | Lab SDG | Matrix Code | Sample Date | Sample Source |
|---|---|---|---|---|---|
| NBZ | SL-116-NBZ-SS-0.0-0.5 | DX162 | SO | 3/22/2012 | FIELD |
| NBZ | EB-NBZ-SB-032712 | DX163 | WQ | 3/27/2012 | FIELD |
| NBZ | EB-NBZ-SS-032712 | DX163 | WQ | 3/27/2012 | FIELD |
| NBZ | SL-038-NBZ-SS-0.0-0.5 | DX163 | SO | 3/27/2012 | FIELD |
| NBZ | SL-042-NBZ-SS-0.0-0.5 | DX163 | SO | 3/26/2012 | FIELD |
| NBZ | SL-043-NBZ-SS-0.0-0.5 | DX163 | SO | 3/26/2012 | FIELD |
| NBZ | SL-045-NBZ-SB-4.0-5.0 | DX163 | SO | 3/26/2012 | FIELD |
| NBZ | SL-045-NBZ-SS-0.0-0.5 | DX163 | SO | 3/26/2012 | FIELD |
| NBZ | SL-046-NBZ-SB-4.0-5.0 | DX163 | SO | 3/26/2012 | FIELD |
| NBZ | SL-046-NBZ-SS-0.0-0.5 | DX163 | SO | 3/26/2012 | FIELD |
| NBZ | SL-050-NBZ-SS-0.0-0.5 | DX163 | SO | 3/26/2012 | FIELD |
| NBZ | SL-078-NBZ-SS-0.0-0.5 | DX163 | SO | 3/27/2012 | FIELD |
| NBZ | SL-095-NBZ-SS-0.0-0.5 | DX163 | SO | 3/27/2012 | FIELD |
| NBZ | SL-119-NBZ-SS-0.0-0.5 | DX163 | SO | 3/27/2012 | FIELD |
| NBZ | SL-123-NBZ-SS-0.0-0.5 | DX163 | SO | 3/26/2012 | FIELD |
| NBZ | SL-124-NBZ-SS-0.0-0.5 | DX163 | SO | 3/26/2012 | FIELD |
| NBZ | SL-126-NBZ-SS-0.0-0.5 | DX163 | SO | 3/26/2012 | FIELD |
| NBZ | SL-130-NBZ-SS-0.0-0.5 | DX163 | SO | 3/27/2012 | FIELD |
| NBZ | SL-133-NBZ-SS-0.0-0.5 | DX163 | SO | 3/26/2012 | FIELD |
| NBZ | SL-195-NBZ-SS-0.0-0.5 | DX163 | SO | 3/26/2012 | FIELD |
| NBZ | SL-196-NBZ-SS-0.0-0.5 | DX163 | SO | 3/26/2012 | FIELD |
| NBZ | DUP-03-NBZ-QC-032812 | DX164 | SO | 3/28/2012 | FIELD |
| NBZ | SL-036-NBZ-SB-4.0-5.0 | DX164 | SO | 3/28/2012 | FIELD |
| NBZ | SL-036-NBZ-SB-7.5-8.5 | DX164 | SO | 3/28/2012 | FIELD |
| NBZ | SL-037-NBZ-SB-3.0-4.0 | DX164 | SO | 3/28/2012 | FIELD |
| NBZ | SL-039-NBZ-SB-2.0-3.0 | DX164 | SO | 3/28/2012 | FIELD |
| NBZ | SL-040-NBZ-SB-2.5-3.5 | DX164 | SO | 3/28/2012 | FIELD |
| NBZ | SL-040-NBZ-SS-0.0-0.5 | DX164 | SO | 3/28/2012 | FIELD |
| NBZ | SL-094-NBZ-SS-0.0-0.5 | DX164 | SO | 3/28/2012 | FIELD |
| NBZ | SL-096-NBZ-SS-0.0-0.5 | DX164 | SO | 3/28/2012 | FIELD |
| NBZ | SL-102-NBZ-SS-0.0-0.5 | DX164 | SO | 3/27/2012 | FIELD |
| NBZ | SL-109-NBZ-SS-0.0-0.5 | DX164 | SO | 3/27/2012 | FIELD |
| NBZ | SL-129-NBZ-SS-0.0-0.5 | DX164 | SO | 3/27/2012 | FIELD |
| NBZ | SL-135-NBZ-SS-0.0-0.5 | DX164 | SO | 3/28/2012 | FIELD |
| NBZ | SL-136-NBZ-SS-0.0-0.5 | DX164 | SO | 3/28/2012 | FIELD |
| NBZ | SL-139-NBZ-SS-0.0-0.5 | DX164 | SO | 3/28/2012 | FIELD |
| NBZ | SL-141-NBZ-SS-0.0-0.5 | DX164 | SO | 3/28/2012 | FIELD |
| NBZ | SL-143-NBZ-SS-0.0-0.5 | DX164 | SO | 3/28/2012 | FIELD |
| NBZ | DUP-05-NBZ-QC-032912 | DX165 | SO | 3/29/2012 | FIELD |
| NBZ | EB-NBZ-SB-032912 | DX165 | WQ | 3/29/2012 | FIELD |
| NBZ | EB-NBZ-SS-032912 | DX165 | WQ | 3/29/2012 | FIELD |
| NBZ | SL-025-NBZ-SS-0.0-0.5 | DX165 | SO | 4/2/2012 | FIELD |
| NBZ | SL-026-NBZ-SS-0.0-0.5 | DX165 | SO | 4/2/2012 | FIELD |
| NBZ | SL-027-NBZ-SS-0.0-0.5 | DX165 | SO | 4/2/2012 | FIELD |
| NBZ | SL-028-NBZ-SS-0.0-0.5 | DX165 | SO | 4/2/2012 | FIELD |
| NBZ | SL-031-NBZ-SS-0.0-0.5 | DX165 | SO | 4/3/2012 | FIELD |
| NBZ | SL-033-NBZ-SS-0.0-0.5 | DX165 | SO | 4/3/2012 | FIELD |
| NBZ | SL-034-NBZ-SS-0.0-0.5 | DX165 | SO | 4/3/2012 | FIELD |
| NBZ | SL-044-NBZ-SS-0.0-0.5 | DX165 | SO | 3/29/2012 | FIELD |
| NBZ | SL-091-NBZ-SB-4.0-5.0 | DX165 | SO | 3/29/2012 | FIELD |
| NBZ | SL-091-NBZ-SS-0.0-0.5 | DX165 | SO | 3/29/2012 | FIELD |
| NBZ | SL-092-NBZ-SS-0.0-0.5 | DX165 | SO | 3/29/2012 | FIELD |
| NBZ | SL-107-NBZ-SS-0.0-0.5 | DX165 | SO | 4/2/2012 | FIELD |
| NBZ | SL-108-NBZ-SS-0.0-0.5 | DX165 | SO | 4/3/2012 | FIELD |
| NBZ | SL-111-NBZ-SS-0.0-0.5 | DX165 | SO | 4/2/2012 | FIELD |
| NBZ | SL-112-NBZ-SS-0.0-0.5 | DX165 | SO | 4/2/2012 | FIELD |
| NBZ | SL-113-NBZ-SS-0.0-0.5 | DX165 | SO | 4/2/2012 | FIELD |
| NBZ | SL-122-NBZ-SS-0.0-0.5 | DX165 | SO | 4/3/2012 | FIELD |
| NBZ | SL-138-NBZ-SS-0.0-0.5 | DX165 | SO | 4/2/2012 | FIELD |
| NBZ | SL-194-NBZ-SS-0.0-0.5 | DX165 | SO | 4/2/2012 | FIELD |
| NBZ | DUP-04-NBZ-QC-032912 | DX166 | SO | 3/29/2012 | FIELD |
| NBZ | SL-020-NBZ-SB-2.5-3.5 | DX166 | SO | 4/4/2012 | FIELD |
| NBZ | SL-032-NBZ-SS-0.0-0.5 | DX166 | SO | 4/3/2012 | FIELD |

**Appendix C. Samples by SDG for NBZ**

| Task Code | System Sample Code | Lab SDG | Matrix Code | Sample Date | Sample Source |
|---|---|---|---|---|---|
| NBZ | SL-035-NBZ-SB-2.0-3.0 | DX166 | SO | 4/3/2012 | FIELD |
| NBZ | SL-035-NBZ-SS-0.0-0.5 | DX166 | SO | 4/3/2012 | FIELD |
| NBZ | SL-079-NBZ-SS-0.0-0.5 | DX166 | SO | 3/30/2012 | FIELD |
| NBZ | SL-097-NBZ-SS-0.0-0.5 | DX166 | SO | 4/4/2012 | FIELD |
| NBZ | SL-101-NBZ-SS-0.0-0.5 | DX166 | SO | 3/29/2012 | FIELD |
| NBZ | SL-103-NBZ-SS-0.0-0.5 | DX166 | SO | 3/29/2012 | FIELD |
| NBZ | SL-115-NBZ-SS-0.0-0.5 | DX166 | SO | 4/3/2012 | FIELD |
| NBZ | SL-118-NBZ-SS-0.0-0.5 | DX166 | SO | 3/29/2012 | FIELD |
| NBZ | SL-121-NBZ-SS-0.0-0.5 | DX166 | SO | 3/30/2012 | FIELD |
| NBZ | SL-127-NBZ-SS-0.0-0.5 | DX166 | SO | 4/3/2012 | FIELD |
| NBZ | SL-131-NBZ-SS-0.0-0.5 | DX166 | SO | 3/29/2012 | FIELD |
| NBZ | SL-134-NBZ-SS-0.0-0.5 | DX166 | SO | 3/30/2012 | FIELD |
| NBZ | SL-140-NBZ-SS-0.0-0.5 | DX166 | SO | 4/3/2012 | FIELD |
| NBZ | SL-169-NBZ-SS-0.0-0.5 | DX166 | SO | 4/3/2012 | FIELD |
| NBZ | SL-197-NBZ-SS-0.0-0.5 | DX166 | SO | 3/29/2012 | FIELD |
| NBZ | SL-198-NBZ-SS-0.0-0.5 | DX166 | SO | 4/3/2012 | FIELD |
| NBZ | DUP-07-NBZ-QC-041012 | DX167 | SO | 4/10/2012 | FIELD |
| NBZ | EB-NBZ-SB-040412 | DX167 | WQ | 4/4/2012 | FIELD |
| NBZ | EB-NBZ-SS-040412 | DX167 | WQ | 4/4/2012 | FIELD |
| NBZ | SL-009-NBZ-SS-0.0-0.5 | DX167 | SO | 4/10/2012 | FIELD |
| NBZ | SL-020-NBZ-SS-0.0-0.5 | DX167 | SO | 4/4/2012 | FIELD |
| NBZ | SL-084-NBZ-SS-0.0-0.5 | DX167 | SO | 4/10/2012 | FIELD |
| NBZ | SL-099-NBZ-SS-0.0-0.5 | DX167 | SO | 4/4/2012 | FIELD |
| NBZ | SL-100-NBZ-SS-0.0-0.5 | DX167 | SO | 4/4/2012 | FIELD |
| NBZ | SL-104-NBZ-SS-0.0-0.5 | DX167 | SO | 4/4/2012 | FIELD |
| NBZ | SL-110-NBZ-SS-0.0-0.5 | DX167 | SO | 4/4/2012 | FIELD |
| NBZ | SL-114-NBZ-SS-0.0-0.5 | DX167 | SO | 4/4/2012 | FIELD |
| NBZ | SL-120-NBZ-SS-0.0-0.5 | DX167 | SO | 4/4/2012 | FIELD |
| NBZ | SL-149-NBZ-SS-0.0-0.5 | DX167 | SO | 4/5/2012 | FIELD |
| NBZ | SL-155-NBZ-SS-0.0-0.5 | DX167 | SO | 4/4/2012 | FIELD |
| NBZ | SL-165-NBZ-SS-0.0-0.5 | DX167 | SO | 4/5/2012 | FIELD |
| NBZ | SL-175-NBZ-SS-0.0-0.5 | DX167 | SO | 4/5/2012 | FIELD |
| NBZ | SL-181-NBZ-SS-0.0-0.5 | DX167 | SO | 4/4/2012 | FIELD |
| NBZ | SL-186-NBZ-SS-0.0-0.5 | DX167 | SO | 4/10/2012 | FIELD |
| NBZ | SL-187-NBZ-SS-0.0-0.5 | DX167 | SO | 4/4/2012 | FIELD |
| NBZ | SL-190-NBZ-SS-0.0-0.5 | DX167 | SO | 4/5/2012 | FIELD |
| NBZ | DUP-06-NBZ-QC-040912 | DX168 | SO | 4/9/2012 | FIELD |
| NBZ | SL-001-NBZ-SS-0.0-0.5 | DX168 | SO | 4/9/2012 | FIELD |
| NBZ | SL-004-NBZ-SS-0.0-0.5 | DX168 | SO | 4/11/2012 | FIELD |
| NBZ | SL-011-NBZ-SS-0.0-0.5 | DX168 | SO | 4/12/2012 | FIELD |
| NBZ | SL-085-NBZ-SS-0.0-0.5 | DX168 | SO | 4/10/2012 | FIELD |
| NBZ | SL-145-NBZ-SS-0.0-0.5 | DX168 | SO | 4/11/2012 | FIELD |
| NBZ | SL-148-NBZ-SS-0.0-0.5 | DX168 | SO | 4/11/2012 | FIELD |
| NBZ | SL-151-NBZ-SS-0.0-0.5 | DX168 | SO | 4/9/2012 | FIELD |
| NBZ | SL-154-NBZ-SS-0.0-0.5 | DX168 | SO | 4/11/2012 | FIELD |
| NBZ | SL-157-NBZ-SS-0.0-0.5 | DX168 | SO | 4/9/2012 | FIELD |
| NBZ | SL-163-NBZ-SS-0.0-0.5 | DX168 | SO | 4/11/2012 | FIELD |
| NBZ | SL-167-NBZ-SS-0.0-0.5 | DX168 | SO | 4/9/2012 | FIELD |
| NBZ | SL-168-NBZ-SS-0.0-0.5 | DX168 | SO | 4/11/2012 | FIELD |
| NBZ | SL-174-NBZ-SS-0.0-0.5 | DX168 | SO | 4/9/2012 | FIELD |
| NBZ | SL-176-NBZ-SS-0.0-0.5 | DX168 | SO | 4/11/2012 | FIELD |
| NBZ | SL-177-NBZ-SS-0.0-0.5 | DX168 | SO | 4/10/2012 | FIELD |
| NBZ | SL-182-NBZ-SS-0.0-0.5 | DX168 | SO | 4/11/2012 | FIELD |
| NBZ | SL-185-NBZ-SS-0.0-0.5 | DX168 | SO | 4/9/2012 | FIELD |
| NBZ | SL-188-NBZ-SS-0.0-0.5 | DX168 | SO | 4/10/2012 | FIELD |
| NBZ | SL-191-NBZ-SS-0.0-0.5 | DX168 | SO | 4/9/2012 | FIELD |
| NBZ | DUP-08-NBZ-QC-041612 | DX169 | SO | 4/16/2012 | FIELD |
| NBZ | EB-NBZ-SB-041712 | DX169 | WQ | 4/17/2012 | FIELD |
| NBZ | EB-NBZ-SS-041212 | DX169 | WQ | 4/12/2012 | FIELD |
| NBZ | EB-NBZ-SS-041712 | DX169 | WQ | 4/17/2012 | FIELD |
| NBZ | SL-013-NBZ-SS-0.0-0.5 | DX169 | SO | 4/16/2012 | FIELD |
| NBZ | SL-014-NBZ-SS-0.0-0.5 | DX169 | SO | 4/17/2012 | FIELD |
| NBZ | SL-088-NBZ-SS-0.0-0.5 | DX169 | SO | 4/17/2012 | FIELD |

**Appendix C. Samples by SDG for NBZ**

| Task Code | System Sample Code | Lab SDG | Matrix Code | Sample Date | Sample Source |
|---|---|---|---|---|---|
| NBZ | SL-144-NBZ-SS-0.0-0.5 | DX169 | SO | 4/12/2012 | FIELD |
| NBZ | SL-152-NBZ-SS-0.0-0.5 | DX169 | SO | 4/12/2012 | FIELD |
| NBZ | SL-156-NBZ-SS-0.0-0.5 | DX169 | SO | 4/17/2012 | FIELD |
| NBZ | SL-159-NBZ-SS-0.0-0.5 | DX169 | SO | 4/16/2012 | FIELD |
| NBZ | SL-160-NBZ-SS-0.0-0.5 | DX169 | SO | 4/16/2012 | FIELD |
| NBZ | SL-161-NBZ-SS-0.0-0.5 | DX169 | SO | 4/17/2012 | FIELD |
| NBZ | SL-162-NBZ-SS-0.0-0.5 | DX169 | SO | 4/17/2012 | FIELD |
| NBZ | SL-164-NBZ-SS-0.0-0.5 | DX169 | SO | 4/16/2012 | FIELD |
| NBZ | SL-166-NBZ-SS-0.0-0.5 | DX169 | SO | 4/17/2012 | FIELD |
| NBZ | SL-173-NBZ-SS-0.0-0.5 | DX169 | SO | 4/16/2012 | FIELD |
| NBZ | DUP-10-NBZ-QC-041612 | DX170 | SO | 4/16/2012 | FIELD |
| NBZ | SL-008-NBZ-SB-4.0-5.0 | DX170 | SO | 4/18/2012 | FIELD |
| NBZ | SL-012-NBZ-SB-0.5-1.5 | DX170 | SO | 4/19/2012 | FIELD |
| NBZ | SL-012-NBZ-SS-0.0-0.5 | DX170 | SO | 4/19/2012 | FIELD |
| NBZ | SL-081-NBZ-SS-0.0-0.5 | DX170 | SO | 4/18/2012 | FIELD |
| NBZ | SL-082-NBZ-SB-2.5-3.5 | DX170 | SO | 4/18/2012 | FIELD |
| NBZ | SL-082-NBZ-SS-0.0-0.5 | DX170 | SO | 4/18/2012 | FIELD |
| NBZ | SL-083-NBZ-SS-0.0-0.5 | DX170 | SO | 4/18/2012 | FIELD |
| NBZ | SL-086-NBZ-SS-0.0-0.5 | DX170 | SO | 4/19/2012 | FIELD |
| NBZ | SL-087-NBZ-SS-0.0-0.5 | DX170 | SO | 4/19/2012 | FIELD |
| NBZ | SL-090-NBZ-SS-0.0-0.5 | DX170 | SO | 4/17/2012 | FIELD |
| NBZ | SL-146-NBZ-SS-0.0-0.5 | DX170 | SO | 4/18/2012 | FIELD |
| NBZ | SL-147-NBZ-SS-0.0-0.5 | DX170 | SO | 4/17/2012 | FIELD |
| NBZ | SL-158-NBZ-SS-0.0-0.5 | DX170 | SO | 4/12/2012 | FIELD |
| NBZ | SL-172-NBZ-SS-0.0-0.5 | DX170 | SO | 4/12/2012 | FIELD |
| NBZ | SL-180-NBZ-SS-0.0-0.5 | DX170 | SO | 4/13/2012 | FIELD |
| NBZ | SL-183-NBZ-SS-0.0-0.5 | DX170 | SO | 4/13/2012 | FIELD |
| NBZ | SL-189-NBZ-SS-0.0-0.5 | DX170 | SO | 4/18/2012 | FIELD |
| NBZ | DUP-09-NBZ-QC-041912 | DX171 | SO | 4/19/2012 | FIELD |
| NBZ | EB-NBZ-SS-042312 | DX171 | WQ | 4/23/2012 | FIELD |
| NBZ | SL-016-NBZ-SS-0.0-0.5 | DX171 | SO | 4/20/2012 | FIELD |
| NBZ | SL-017-NBZ-SS-0.0-0.5 | DX171 | SO | 4/19/2012 | FIELD |
| NBZ | SL-018-NBZ-SS-0.0-0.5 | DX171 | SO | 4/20/2012 | FIELD |
| NBZ | SL-080-NBZ-SS-0.0-0.5 | DX171 | SO | 4/20/2012 | FIELD |
| NBZ | SL-089-NBZ-SS-0.0-0.5 | DX171 | SO | 4/20/2012 | FIELD |
| NBZ | SL-150-NBZ-SS-0.0-0.5 | DX171 | SO | 4/19/2012 | FIELD |
| NBZ | SL-170-NBZ-SS-0.0-0.5 | DX171 | SO | 4/20/2012 | FIELD |
| NBZ | SL-171-NBZ-SS-0.0-0.5 | DX171 | SO | 4/20/2012 | FIELD |
| NBZ | SL-178-NBZ-SS-0.0-0.5 | DX171 | SO | 4/19/2012 | FIELD |
| NBZ | SL-179-NBZ-SS-0.0-0.5 | DX171 | SO | 4/19/2012 | FIELD |
| NBZ | SL-184-NBZ-SS-0.0-0.5 | DX171 | SO | 4/19/2012 | FIELD |
| NBZ | SL-193-NBZ-SS-0.0-0.5 | DX171 | SO | 4/19/2012 | FIELD |
| NBZ | SL-199-NBZ-SS-0.0-0.5 | DX171 | SO | 4/23/2012 | FIELD |
| NBZ | SL-200-NBZ-SS-0.0-0.5 | DX171 | SO | 4/23/2012 | FIELD |
| NBZ | SL-201-NBZ-SS-0.0-0.5 | DX171 | SO | 4/23/2012 | FIELD |
| NBZ | SL-202-NBZ-SS-0.0-0.5 | DX171 | SO | 4/20/2012 | FIELD |
| 3_DG | FB-060512 | 12F037 | WQ | 6/5/2012 | FIELD |
| 3_DG | FB-060512 | PH011 | WQ | 6/5/2012 | FIELD |
| 3_DG | FB-060512 | PT009 | WQ | 6/5/2012 | FIELD |

# SAMPLE DELIVERY GROUP

# 12C096

# Attachment I

# Sample ID Cross Reference and Data Review Level

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 12-Mar-2012 | TB-031212 | C096-13 | TB | 5030B | 8015B GRO | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5 | C096-15 | N | 3550B | 8015B EFH | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5 | C096-15 | N | 3550B | 8081A | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5 | C096-15 | N | 3550B | 8082 | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5 | C096-15 | N | 3550B | 8270C | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5 | C096-15 | N | 3550B | 8270C SIM | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5 | C096-15 | N | 7471A | 7471A | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5 | C096-15 | N | GEN PREP | 300.0 | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5 | C096-15 | N | GEN PREP | 314.0 | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5 | C096-15 | N | GEN PREP | 7199 | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5 | C096-15 | N | GEN PREP | 8015B | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5 | C096-15 | N | GEN PREP | 8151A | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5 | C096-15 | N | GEN PREP | 8330A | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5 | C096-15 | N | GEN PREP | 8332 | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5 | C096-15 | N | GEN PREP | 9014 | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5DUP | C096-15D | DUP | GEN PREP | 9014 | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5MS | C096-15M | MS | 3550B | 8015B EFH | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5MS | C096-15M | MS | GEN PREP | 6020 | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5MS | C096-15M | MS | GEN PREP | 9014 | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5 | C096-15R | N | GEN PREP | 7199 | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5MSD | C096-15S | MSD | 3550B | 8015B EFH | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5MSD | C096-15S | MSD | GEN PREP | 6020 | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5 | C096-15W | N | GEN PREP | 6020 | III |
| 12-Mar-2012 | SL-003-NBZ-SS-0.0-0.5 | C096-15W | N | GEN PREP | 8015M | III |
| 12-Mar-2012 | SL-003-NBZ-SB-4.5 | C096-06 | N | 5035 | 8015B GRO | III |
| 12-Mar-2012 | SL-003-NBZ-SB-4.0-5.0 | C096-05 | N | 3550B | 8015B EFH | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 12-Mar-2012 | SL-003-NBZ-SB-4.0-5.0 | C096-05 | N | 3550B | 8082 | III |
| 12-Mar-2012 | SL-003-NBZ-SB-4.0-5.0 | C096-05 | N | 3550B | 8270C | III |
| 12-Mar-2012 | SL-003-NBZ-SB-4.0-5.0 | C096-05 | N | 3550B | 8270C SIM | III |
| 12-Mar-2012 | SL-003-NBZ-SB-4.0-5.0 | C096-05 | N | 7471A | 7471A | III |
| 12-Mar-2012 | SL-003-NBZ-SB-4.0-5.0 | C096-05 | N | GEN PREP | 300.0 | III |
| 12-Mar-2012 | SL-003-NBZ-SB-4.0-5.0 | C096-05 | N | GEN PREP | 314.0 | III |
| 12-Mar-2012 | SL-003-NBZ-SB-4.0-5.0 | C096-05 | N | GEN PREP | 6020 | III |
| 12-Mar-2012 | SL-003-NBZ-SB-4.0-5.0 | C096-05 | N | GEN PREP | 7199 | III |
| 12-Mar-2012 | SL-003-NBZ-SB-4.0-5.0 | C096-05 | N | GEN PREP | 8015B | III |
| 12-Mar-2012 | SL-003-NBZ-SB-4.0-5.0 | C096-05 | N | GEN PREP | 8330A | III |
| 12-Mar-2012 | SL-003-NBZ-SB-4.0-5.0 | C096-05 | N | GEN PREP | 8332 | III |
| 12-Mar-2012 | SL-003-NBZ-SB-4.0-5.0 | C096-05 | N | GEN PREP | 9014 | III |
| 12-Mar-2012 | SL-003-NBZ-SB-4.0-5.0 | C096-05R | N | GEN PREP | 7199 | III |
| 12-Mar-2012 | SL-003-NBZ-SB-4.0-5.0 | C096-05W | N | GEN PREP | 8015M | III |
| 12-Mar-2012 | SL-002-NBZ-SS-0.0-0.5 | C096-14 | N | 3550B | 8015B EFH | III |
| 12-Mar-2012 | SL-002-NBZ-SS-0.0-0.5 | C096-14 | N | 3550B | 8081A | III |
| 12-Mar-2012 | SL-002-NBZ-SS-0.0-0.5 | C096-14 | N | 3550B | 8082 | III |
| 12-Mar-2012 | SL-002-NBZ-SS-0.0-0.5 | C096-14 | N | 3550B | 8270C | III |
| 12-Mar-2012 | SL-002-NBZ-SS-0.0-0.5 | C096-14 | N | 3550B | 8270C SIM | III |
| 12-Mar-2012 | SL-002-NBZ-SS-0.0-0.5 | C096-14 | N | 7471A | 7471A | III |
| 12-Mar-2012 | SL-002-NBZ-SS-0.0-0.5 | C096-14 | N | GEN PREP | 300.0 | III |
| 12-Mar-2012 | SL-002-NBZ-SS-0.0-0.5 | C096-14 | N | GEN PREP | 314.0 | III |
| 12-Mar-2012 | SL-002-NBZ-SS-0.0-0.5 | C096-14 | N | GEN PREP | 6020 | III |
| 12-Mar-2012 | SL-002-NBZ-SS-0.0-0.5 | C096-14 | N | GEN PREP | 7199 | III |
| 12-Mar-2012 | SL-002-NBZ-SS-0.0-0.5 | C096-14 | N | GEN PREP | 8015B | III |
| 12-Mar-2012 | SL-002-NBZ-SS-0.0-0.5 | C096-14 | N | GEN PREP | 8151A | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 12-Mar-2012 | SL-002-NBZ-SS-0.0-0.5 | C096-14 | N | GEN PREP | 8330A | III |
| 12-Mar-2012 | SL-002-NBZ-SS-0.0-0.5 | C096-14 | N | GEN PREP | 8332 | III |
| 12-Mar-2012 | SL-002-NBZ-SS-0.0-0.5 | C096-14 | N | GEN PREP | 9014 | III |
| 12-Mar-2012 | SL-002-NBZ-SS-0.0-0.5 | C096-14R | N | GEN PREP | 7199 | III |
| 12-Mar-2012 | SL-002-NBZ-SS-0.0-0.5 | C096-14W | N | GEN PREP | 8015M | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0 | C096-01 | N | 3550B | 8015B EFH | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0 | C096-01 | N | 3550B | 8082 | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0 | C096-01 | N | 3550B | 8270C | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0 | C096-01 | N | 7471A | 7471A | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0 | C096-01 | N | GEN PREP | 300.0 | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0 | C096-01 | N | GEN PREP | 314.0 | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0 | C096-01 | N | GEN PREP | 6020 | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0 | C096-01 | N | GEN PREP | 7199 | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0 | C096-01 | N | GEN PREP | 8015B | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0 | C096-01 | N | GEN PREP | 8330A | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0 | C096-01 | N | GEN PREP | 8332 | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0 | C096-01 | N | GEN PREP | 9014 | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0MS | C096-01M | MS | 3550B | 8270C | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0MS | C096-01M | MS | 3550B | 8270C SIM | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0MS | C096-01M | MS | 7471A | 7471A | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0MS | C096-01M | MS | GEN PREP | 8330A | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0MS | C096-01M | MS | GEN PREP | 8332 | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0 | C096-01R | N | GEN PREP | 7199 | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0MSD | C096-01S | MSD | 3550B | 8270C | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0MSD | C096-01S | MSD | 3550B | 8270C SIM | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0MSD | C096-01S | MSD | 7471A | 7471A | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0MSD | C096-01S | MSD | GEN PREP | 8330A | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0MSD | C096-01S | MSD | GEN PREP | 8332 | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0 | C096-01W | N | 3550B | 8270C SIM | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.0-5.0 | C096-01W | N | GEN PREP | 8015M | III |
| 12-Mar-2012 | SL-002-NBZ-SB-4.5 | C096-02 | N | 5035 | 8015B GRO | III |
| 12-Mar-2012 | SL-002-NBZ-SB-7.5-8.5 | C096-03 | N | 3550B | 8015B EFH | III |
| 12-Mar-2012 | SL-002-NBZ-SB-7.5-8.5 | C096-03 | N | 3550B | 8082 | III |
| 12-Mar-2012 | SL-002-NBZ-SB-7.5-8.5 | C096-03 | N | 3550B | 8270C | III |
| 12-Mar-2012 | SL-002-NBZ-SB-7.5-8.5 | C096-03 | N | 3550B | 8270C SIM | III |
| 12-Mar-2012 | SL-002-NBZ-SB-7.5-8.5 | C096-03 | N | 7471A | 7471A | III |
| 12-Mar-2012 | SL-002-NBZ-SB-7.5-8.5 | C096-03 | N | GEN PREP | 300.0 | III |
| 12-Mar-2012 | SL-002-NBZ-SB-7.5-8.5 | C096-03 | N | GEN PREP | 314.0 | III |
| 12-Mar-2012 | SL-002-NBZ-SB-7.5-8.5 | C096-03 | N | GEN PREP | 6020 | III |
| 12-Mar-2012 | SL-002-NBZ-SB-7.5-8.5 | C096-03 | N | GEN PREP | 7199 | III |
| 12-Mar-2012 | SL-002-NBZ-SB-7.5-8.5 | C096-03 | N | GEN PREP | 8015B | III |
| 12-Mar-2012 | SL-002-NBZ-SB-7.5-8.5 | C096-03 | N | GEN PREP | 8330A | III |
| 12-Mar-2012 | SL-002-NBZ-SB-7.5-8.5 | C096-03 | N | GEN PREP | 8332 | III |
| 12-Mar-2012 | SL-002-NBZ-SB-7.5-8.5 | C096-03 | N | GEN PREP | 9014 | III |
| 12-Mar-2012 | SL-002-NBZ-SB-7.5-8.5 | C096-03R | N | GEN PREP | 7199 | III |
| 12-Mar-2012 | SL-002-NBZ-SB-7.5-8.5 | C096-03T | N | GEN PREP | 6020 | III |
| 12-Mar-2012 | SL-002-NBZ-SB-7.5-8.5 | C096-03W | N | GEN PREP | 8015M | III |
| 12-Mar-2012 | SL-002-NBZ-SB-8.0 | C096-04 | N | 5035 | 8015B GRO | III |
| 12-Mar-2012 | SL-010-NBZ-SB-4.0-5.0 | C096-11 | N | 3550B | 8015B EFH | III |
| 12-Mar-2012 | SL-010-NBZ-SB-4.0-5.0 | C096-11 | N | 3550B | 8082 | III |
| 12-Mar-2012 | SL-010-NBZ-SB-4.0-5.0 | C096-11 | N | 3550B | 8270C | III |
| 12-Mar-2012 | SL-010-NBZ-SB-4.0-5.0 | C096-11 | N | 3550B | 8270C SIM | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 12-Mar-2012 | SL-010-NBZ-SB-4.0-5.0 | C096-11 | N | 7471A | 7471A | III |
| 12-Mar-2012 | SL-010-NBZ-SB-4.0-5.0 | C096-11 | N | GEN PREP | 300.0 | III |
| 12-Mar-2012 | SL-010-NBZ-SB-4.0-5.0 | C096-11 | N | GEN PREP | 314.0 | III |
| 12-Mar-2012 | SL-010-NBZ-SB-4.0-5.0 | C096-11 | N | GEN PREP | 6020 | III |
| 12-Mar-2012 | SL-010-NBZ-SB-4.0-5.0 | C096-11 | N | GEN PREP | 7199 | III |
| 12-Mar-2012 | SL-010-NBZ-SB-4.0-5.0 | C096-11 | N | GEN PREP | 8015B | III |
| 12-Mar-2012 | SL-010-NBZ-SB-4.0-5.0 | C096-11 | N | GEN PREP | 8330A | III |
| 12-Mar-2012 | SL-010-NBZ-SB-4.0-5.0 | C096-11 | N | GEN PREP | 8332 | III |
| 12-Mar-2012 | SL-010-NBZ-SB-4.0-5.0 | C096-11 | N | GEN PREP | 9014 | III |
| 12-Mar-2012 | SL-010-NBZ-SB-4.0-5.0 | C096-11R | N | GEN PREP | 7199 | III |
| 12-Mar-2012 | SL-010-NBZ-SB-4.0-5.0 | C096-11W | N | GEN PREP | 8015M | III |
| 12-Mar-2012 | SL-010-NBZ-SB-4.5 | C096-12 | N | 5035 | 8015B GRO | III |
| 12-Mar-2012 | SL-007-NBZ-SB-4.5 | C096-08 | N | 5035 | 8015B GRO | III |
| 12-Mar-2012 | SL-007-NBZ-SB-4.0-5.0 | C096-07 | N | 3550B | 8015B EFH | III |
| 12-Mar-2012 | SL-007-NBZ-SB-4.0-5.0 | C096-07 | N | 3550B | 8082 | III |
| 12-Mar-2012 | SL-007-NBZ-SB-4.0-5.0 | C096-07 | N | 3550B | 8270C | III |
| 12-Mar-2012 | SL-007-NBZ-SB-4.0-5.0 | C096-07 | N | 3550B | 8270C SIM | III |
| 12-Mar-2012 | SL-007-NBZ-SB-4.0-5.0 | C096-07 | N | 7471A | 7471A | III |
| 12-Mar-2012 | SL-007-NBZ-SB-4.0-5.0 | C096-07 | N | GEN PREP | 300.0 | III |
| 12-Mar-2012 | SL-007-NBZ-SB-4.0-5.0 | C096-07 | N | GEN PREP | 314.0 | III |
| 12-Mar-2012 | SL-007-NBZ-SB-4.0-5.0 | C096-07 | N | GEN PREP | 6020 | III |
| 12-Mar-2012 | SL-007-NBZ-SB-4.0-5.0 | C096-07 | N | GEN PREP | 7199 | III |
| 12-Mar-2012 | SL-007-NBZ-SB-4.0-5.0 | C096-07 | N | GEN PREP | 8015B | III |
| 12-Mar-2012 | SL-007-NBZ-SB-4.0-5.0 | C096-07 | N | GEN PREP | 8330A | III |
| 12-Mar-2012 | SL-007-NBZ-SB-4.0-5.0 | C096-07 | N | GEN PREP | 8332 | III |
| 12-Mar-2012 | SL-007-NBZ-SB-4.0-5.0 | C096-07 | N | GEN PREP | 9014 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 12-Mar-2012 | SL-007-NBZ-SB-4.0-5.0 | C096-07R | N | GEN PREP | 7199 | III |
| 12-Mar-2012 | SL-007-NBZ-SB-4.0-5.0 | C096-07W | N | GEN PREP | 8015M | III |
| 12-Mar-2012 | SL-007-NBZ-SB-9.5 | C096-10 | N | 5035 | 8015B GRO | III |
| 12-Mar-2012 | SL-007-NBZ-SB-9.0-10.0 | C096-09 | N | 3550B | 8015B EFH | III |
| 12-Mar-2012 | SL-007-NBZ-SB-9.0-10.0 | C096-09 | N | 3550B | 8082 | III |
| 12-Mar-2012 | SL-007-NBZ-SB-9.0-10.0 | C096-09 | N | 3550B | 8270C | III |
| 12-Mar-2012 | SL-007-NBZ-SB-9.0-10.0 | C096-09 | N | 3550B | 8270C SIM | III |
| 12-Mar-2012 | SL-007-NBZ-SB-9.0-10.0 | C096-09 | N | 7471A | 7471A | III |
| 12-Mar-2012 | SL-007-NBZ-SB-9.0-10.0 | C096-09 | N | GEN PREP | 300.0 | III |
| 12-Mar-2012 | SL-007-NBZ-SB-9.0-10.0 | C096-09 | N | GEN PREP | 314.0 | III |
| 12-Mar-2012 | SL-007-NBZ-SB-9.0-10.0 | C096-09 | N | GEN PREP | 6020 | III |
| 12-Mar-2012 | SL-007-NBZ-SB-9.0-10.0 | C096-09 | N | GEN PREP | 7199 | III |
| 12-Mar-2012 | SL-007-NBZ-SB-9.0-10.0 | C096-09 | N | GEN PREP | 8015B | III |
| 12-Mar-2012 | SL-007-NBZ-SB-9.0-10.0 | C096-09 | N | GEN PREP | 8330A | III |
| 12-Mar-2012 | SL-007-NBZ-SB-9.0-10.0 | C096-09 | N | GEN PREP | 8332 | III |
| 12-Mar-2012 | SL-007-NBZ-SB-9.0-10.0 | C096-09 | N | GEN PREP | 9014 | III |
| 12-Mar-2012 | SL-007-NBZ-SB-9.0-10.0 | C096-09R | N | GEN PREP | 7199 | III |
| 12-Mar-2012 | SL-007-NBZ-SB-9.0-10.0 | C096-09W | N | GEN PREP | 8015M | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Attachment II

# Overall Data Qualification Summary

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C096** **Laboratory: EMXT**

**EDD Filename: Prep12C096R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: GENCHEM**

**Method: 300.0** **Matrix: SO**

*Sample ID:* SL-002-NBZ-SS-0.0-0.5 *Collected:* 3/12/2012 11:15:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.871 | J | 0.517 | MDL | 1.03 | PQL | MG/KG | J | Z |
| Nitrate-NO3 | 0.966 | J | 0.775 | MDL | 1.55 | PQL | MG/KG | J | Z |

*Sample ID:* SL-003-NBZ-SB-4.0-5.0 *Collected:* 3/12/2012 9:50:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.847 | J | 0.529 | MDL | 1.06 | PQL | MG/KG | J | Z |

*Sample ID:* SL-007-NBZ-SB-4.0-5.0 *Collected:* 3/12/2012 3:50:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.756 | J | 0.544 | MDL | 1.09 | PQL | MG/KG | J | Z |

*Sample ID:* SL-007-NBZ-SB-9.0-10.0 *Collected:* 3/12/2012 4:00:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | 1.36 | J | 0.819 | MDL | 1.64 | PQL | MG/KG | J | Z |

*Sample ID:* SL-010-NBZ-SB-4.0-5.0 *Collected:* 3/12/2012 2:25:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | 1.06 | J | 0.809 | MDL | 1.62 | PQL | MG/KG | J | Z |

**Method Category: GENCHEM**

**Method: 9014** **Matrix: SO**

*Sample ID:* SL-002-NBZ-SB-7.5-8.5 *Collected:* 3/12/2012 11:40:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| CYANIDE | 0.513 | J | 0.270 | MDL | 0.541 | PQL | MG/KG | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C096** **Laboratory: EMXT**

**EDD Filename: Prep12C096R** **eQAPP Name: CDM_SSFL_120730_EMAX**

***Method Category:*** **METALS**

***Method:*** **6020** ***Matrix:*** **SO**

***Sample ID:*** **SL-002-NBZ-SB-4.0-5.0** ***Collected:*** **3/12/2012 11:30:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **0.976**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.139 | J | 0.106 | MDL | 0.211 | PQL | MG/KG | J | Z, Q |
| SILVER | 0.0559 | J | 0.0528 | MDL | 0.106 | PQL | MG/KG | J | Z |
| SODIUM | 56.3 | J | 52.8 | MDL | 106 | PQL | MG/KG | J | Z |
| Zirconium | 5.28 | U | 2.64 | MDL | 5.28 | PQL | MG/KG | UJ | Q |

***Sample ID:*** **SL-002-NBZ-SB-7.5-8.5** ***Collected:*** **3/12/2012 11:40:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **0.995**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.113 | J | 0.108 | MDL | 0.215 | PQL | MG/KG | J | Z, Q |
| Zirconium | 5.38 | U | 2.69 | MDL | 5.38 | PQL | MG/KG | UJ | Q |

***Sample ID:*** **SL-002-NBZ-SS-0.0-0.5** ***Collected:*** **3/12/2012 11:15:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **0.913**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.262 | | 0.0943 | MDL | 0.189 | PQL | MG/KG | J | Q |
| BORON | 2.85 | J | 2.36 | MDL | 4.72 | PQL | MG/KG | J | Z |
| SELENIUM | 0.265 | J | 0.189 | MDL | 0.377 | PQL | MG/KG | J | Z |
| SODIUM | 65.6 | J | 47.2 | MDL | 94.3 | PQL | MG/KG | J | Z |
| Zirconium | 4.72 | U | 2.36 | MDL | 4.72 | PQL | MG/KG | UJ | Q |

***Sample ID:*** **SL-003-NBZ-SB-4.0-5.0** ***Collected:*** **3/12/2012 9:50:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **0.980**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.256 | | 0.104 | MDL | 0.207 | PQL | MG/KG | J | Q |
| SODIUM | 65.0 | J | 51.8 | MDL | 104 | PQL | MG/KG | J | Z |
| Zirconium | 5.18 | U | 2.59 | MDL | 5.18 | PQL | MG/KG | UJ | Q |

***Sample ID:*** **SL-003-NBZ-SS-0.0-0.5** ***Collected:*** **3/12/2012 8:50:00** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **0.943**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.293 | | 0.0985 | MDL | 0.197 | PQL | MG/KG | J | Q |
| BORON | 4.28 | J | 2.46 | MDL | 4.93 | PQL | MG/KG | J | Z |
| SELENIUM | 0.268 | J | 0.197 | MDL | 0.394 | PQL | MG/KG | J | Z |
| SODIUM | 74.4 | J | 49.3 | MDL | 98.5 | PQL | MG/KG | J | Z |
| Zirconium | 3.09 | J | 2.46 | MDL | 4.93 | PQL | MG/KG | J | Z, Q |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C096** **Laboratory: EMXT**

**EDD Filename: Prep12C096R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: METALS**

**Method: 6020** **Matrix: SO**

*Sample ID:* SL-007-NBZ-SB-4.0-5.0 *Collected:* 3/12/2012 3:50:00 *Analysis Type:* RES/TOT *Dilution:* 0.962

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.119 | J | 0.105 | MDL | 0.209 | PQL | MG/KG | J | Z, Q |
| SODIUM | 64.5 | J | 52.3 | MDL | 105 | PQL | MG/KG | J | Z |
| Zirconium | 5.23 | U | 2.62 | MDL | 5.23 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-007-NBZ-SB-9.0-10.0 *Collected:* 3/12/2012 4:00:00 *Analysis Type:* RES/TOT *Dilution:* 0.990

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.118 | J | 0.108 | MDL | 0.216 | PQL | MG/KG | J | Z, Q |
| SODIUM | 56.8 | J | 54.0 | MDL | 108 | PQL | MG/KG | J | Z |
| Zirconium | 5.40 | U | 2.70 | MDL | 5.40 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-010-NBZ-SB-4.0-5.0 *Collected:* 3/12/2012 2:25:00 *Analysis Type:* RES/TOT *Dilution:* 0.995

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.127 | J | 0.107 | MDL | 0.215 | PQL | MG/KG | J | Z, Q |
| SILVER | 0.0648 | J | 0.0537 | MDL | 0.107 | PQL | MG/KG | J | Z |
| SODIUM | 62.0 | J | 53.7 | MDL | 107 | PQL | MG/KG | J | Z |
| Zirconium | 5.37 | U | 2.68 | MDL | 5.37 | PQL | MG/KG | UJ | Q |

**Method Category: SVOA**

**Method: 8015B EFH** **Matrix: SO**

*Sample ID:* SL-002-NBZ-SB-4.0-5.0 *Collected:* 3/12/2012 11:30:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C8-C11) | 0.58 | J | 0.54 | MDL | 1.1 | PQL | MG/KG | J | Z |
| TOTAL EFH(C8-C40) | 0.58 | J | 0.54 | MDL | 1.1 | PQL | MG/KG | J | Z |

*Sample ID:* SL-002-NBZ-SS-0.0-0.5 *Collected:* 3/12/2012 11:15:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C15-C20) | 0.81 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |
| EFH(C8-C11) | 0.52 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C096** **Laboratory: EMXT**

**EDD Filename: Prep12C096R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: SVOA**

**Method: 8015B EFH** **Matrix: SO**

*Sample ID:* SL-003-NBZ-SB-4.0-5.0 *Collected:* 3/12/2012 9:50:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C8-C11) | 0.53 | J | 0.53 | MDL | 1.1 | PQL | MG/KG | J | Z |
| TOTAL EFH(C8-C40) | 1.0 | J | 0.53 | MDL | 1.1 | PQL | MG/KG | J | Z |

*Sample ID:* SL-003-NBZ-SS-0.0-0.5 *Collected:* 3/12/2012 8:50:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C15-C20) | 0.56 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |
| EFH(C8-C11) | 0.56 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |

*Sample ID:* SL-007-NBZ-SB-4.0-5.0 *Collected:* 3/12/2012 3:50:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C8-C11) | 0.62 | J | 0.54 | MDL | 1.1 | PQL | MG/KG | J | Z |
| TOTAL EFH(C8-C40) | 0.62 | J | 0.54 | MDL | 1.1 | PQL | MG/KG | J | Z |

*Sample ID:* SL-007-NBZ-SB-9.0-10.0 *Collected:* 3/12/2012 4:00:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C30-C40) | 0.74 | J | 0.55 | MDL | 1.1 | PQL | MG/KG | J | Z |
| EFH(C8-C11) | 0.61 | J | 0.55 | MDL | 1.1 | PQL | MG/KG | J | Z |

*Sample ID:* SL-010-NBZ-SB-4.0-5.0 *Collected:* 3/12/2012 2:25:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C8-C11) | 0.55 | J | 0.54 | MDL | 1.1 | PQL | MG/KG | J | Z |
| TOTAL EFH(C8-C40) | 0.55 | J | 0.54 | MDL | 1.1 | PQL | MG/KG | J | Z |

**Method Category: VOA**

**Method: 8015B GRO** **Matrix: AQ**

*Sample ID:* TB-031212 *Collected:* 3/12/2012 8:00:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 20 | J | 10 | MDL | 50 | PQL | UG/L | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# *Data Qualifier Summary*

**Lab Reporting Batch ID: 12C096** **Laboratory: EMXT**

**EDD Filename: Prep12C096R** **eQAPP Name: CDM_SSFL_120730_EMAX**

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C096** **Laboratory: EMXT**

**EDD Filename: Prep12C096R** **eQAPP Name: CDM_SSFL_120730_EMAX**

## Reason Code Legend

| *Reason Code* | *Description* |
|---|---|
| Q | Matrix Spike Lower Estimation |
| Q | Matrix Spike Upper Estimation |
| S | Surrogate/Tracer Recovery Lower Estimation |
| Z | Reporting Limit Trace Value |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Enclosure I

# Level III ADR Outliers
# (including Manual Review Outliers)

# Quality Control
# Outlier Reports

# 12C096

# Matrix Spike/Matrix Spike Duplicate Outlier Report

**Lab Reporting Batch ID: 12C096** **Laboratory: EMXT**

**EDD Filename: 12C096R** **eQAPP Name: CDM_SSFL_120730_EMAX**

***Method:*** **6020**
***Matrix:*** **SO**

| *QC Sample ID (Associated Samples)* | *Compound* | *MS %R* | *MSD %R* | *%R Limits* | *RPD (Limits)* | *Affected Compounds* | *Flag* |
|---|---|---|---|---|---|---|---|
| **SL-003-NBZ-SS-0.0-0.5MS (TOT)**<br>**SL-003-NBZ-SS-0.0-0.5MSD (TOT)**<br>(SL-002-NBZ-SB-4.0-5.0<br>SL -002-NBZ-SB-7.5-8.5<br>SL -002-NBZ-SS-0.0-0.5<br>SL -003-NBZ-SB-4.0-5.0<br>SL -003-NBZ-SS-0.0-0.5<br>SL -007-NBZ-SB-4.0-5.0<br>SL -007-NBZ-SB-9.0-10.0<br>SL -010-NBZ-SB-4.0-5.0) | MANGANESE<br>TITANIUM | -<br>187 | 165<br>320 | 75.00-125.00<br>75.00-125.00 | -<br>- | MANGANESE<br>TITANIUM | No Qual, >4X |
| **SL-003-NBZ-SS-0.0-0.5MS (TOT)**<br>**SL-003-NBZ-SS-0.0-0.5MSD (TOT)**<br>(SL-002-NBZ-SB-4.0-5.0<br>SL -002-NBZ-SB-7.5-8.5<br>SL -002-NBZ-SS-0.0-0.5<br>SL -003-NBZ-SB-4.0-5.0<br>SL -003-NBZ-SS-0.0-0.5<br>SL -007-NBZ-SB-4.0-5.0<br>SL -007-NBZ-SB-9.0-10.0<br>SL -010-NBZ-SB-4.0-5.0) | ANTIMONY<br>Zirconium | 60<br>62 | 61<br>65 | 75.00-125.00<br>75.00-125.00 | -<br>- | ANTIMONY<br>Zirconium | J(all detects)<br>UJ(all non-detects) |

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Reporting Limit Outliers

**Lab Reporting Batch ID: 12C096** **Laboratory: EMXT**

**EDD Filename: 12C096R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 8015B GRO**

**Matrix: AQ**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| TB-031212 | GASOLINE RANGE ORGANICS (C5-C12) | J | 20 | 50 | PQL | UG/L | J (all detects) |

**Method: 300.0**

**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-002-NBZ-SS-0.0-0.5 | FLUORIDE | J | 0.871 | 1.03 | PQL | MG/KG | J (all detects) |
| | Nitrate-NO3 | J | 0.966 | 1.55 | PQL | MG/KG | |
| SL-003-NBZ-SB-4.0-5.0 | FLUORIDE | J | 0.847 | 1.06 | PQL | MG/KG | J (all detects) |
| SL-007-NBZ-SB-4.0-5.0 | FLUORIDE | J | 0.756 | 1.09 | PQL | MG/KG | J (all detects) |
| SL-007-NBZ-SB-9.0-10.0 | Nitrate-NO3 | J | 1.36 | 1.64 | PQL | MG/KG | J (all detects) |
| SL-010-NBZ-SB-4.0-5.0 | Nitrate-NO3 | J | 1.06 | 1.62 | PQL | MG/KG | J (all detects) |

**Method: 6020**

**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-002-NBZ-SB-4.0-5.0 | ANTIMONY | J | 0.139 | 0.211 | PQL | MG/KG | J (all detects) |
| | SILVER | J | 0.0559 | 0.106 | PQL | MG/KG | |
| | SODIUM | J | 56.3 | 106 | PQL | MG/KG | |
| SL-002-NBZ-SB-7.5-8.5 | ANTIMONY | J | 0.113 | 0.215 | PQL | MG/KG | J (all detects) |
| SL-002-NBZ-SS-0.0-0.5 | BORON | J | 2.85 | 4.72 | PQL | MG/KG | J (all detects) |
| | SELENIUM | J | 0.265 | 0.377 | PQL | MG/KG | |
| | SODIUM | J | 65.6 | 94.3 | PQL | MG/KG | |
| SL-003-NBZ-SB-4.0-5.0 | SODIUM | J | 65.0 | 104 | PQL | MG/KG | J (all detects) |
| SL-003-NBZ-SS-0.0-0.5 | BORON | J | 4.28 | 4.93 | PQL | MG/KG | J (all detects) |
| | SELENIUM | J | 0.268 | 0.394 | PQL | MG/KG | |
| | SODIUM | J | 74.4 | 98.5 | PQL | MG/KG | |
| | Zirconium | J | 3.09 | 4.93 | PQL | MG/KG | |
| SL-007-NBZ-SB-4.0-5.0 | ANTIMONY | J | 0.119 | 0.209 | PQL | MG/KG | J (all detects) |
| | SODIUM | J | 64.5 | 105 | PQL | MG/KG | |
| SL-007-NBZ-SB-9.0-10.0 | ANTIMONY | J | 0.118 | 0.216 | PQL | MG/KG | J (all detects) |
| | SODIUM | J | 56.8 | 108 | PQL | MG/KG | |
| SL-010-NBZ-SB-4.0-5.0 | ANTIMONY | J | 0.127 | 0.215 | PQL | MG/KG | J (all detects) |
| | SILVER | J | 0.0648 | 0.107 | PQL | MG/KG | |
| | SODIUM | J | 62.0 | 107 | PQL | MG/KG | |

# Reporting Limit Outliers

**Lab Reporting Batch ID: 12C096** **Laboratory: EMXT**

**EDD Filename: 12C096R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 8015B EFH**

**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-002-NBZ-SB-4.0-5.0 | EFH(C8-C11)<br>TOTAL EFH(C8-C40) | J<br>J | 0.58<br>0.58 | 1.1<br>1.1 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-002-NBZ-SS-0.0-0.5 | EFH(C15-C20)<br>EFH(C8-C11) | J<br>J | 0.81<br>0.52 | 1.0<br>1.0 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-003-NBZ-SB-4.0-5.0 | EFH(C8-C11)<br>TOTAL EFH(C8-C40) | J<br>J | 0.53<br>1.0 | 1.1<br>1.1 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-003-NBZ-SS-0.0-0.5 | EFH(C15-C20)<br>EFH(C8-C11) | J<br>J | 0.56<br>0.56 | 1.0<br>1.0 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-007-NBZ-SB-4.0-5.0 | EFH(C8-C11)<br>TOTAL EFH(C8-C40) | J<br>J | 0.62<br>0.62 | 1.1<br>1.1 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-007-NBZ-SB-9.0-10.0 | EFH(C30-C40)<br>EFH(C8-C11) | J<br>J | 0.74<br>0.61 | 1.1<br>1.1 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-010-NBZ-SB-4.0-5.0 | EFH(C8-C11)<br>TOTAL EFH(C8-C40) | J<br>J | 0.55<br>0.55 | 1.1<br>1.1 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |

**Method: 9014**

**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-002-NBZ-SB-7.5-8.5 | CYANIDE | J | 0.513 | 0.541 | PQL | MG/KG | J (all detects) |

LDC #: 29230G4
SDG #: 12C096
Laboratory: EMAX Laboratories, Inc.

# VALIDATION COMPLETENESS WORKSHEET

ADR
7471A

Date: 2/22/13
Page: 1 of 1
Reviewer: a
2nd Reviewer: A

**METHOD:** Metals (EPA SW 846 Method ~~6010B~~/6020~~A~~/~~7000~~)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|---|---|---|---|
| I. | Technical holding times | A | Sampling dates: 3/12/12 |
| II. | ICP/MS Tune | — | |
| III. | Calibration | — | |
| IV. | Blanks | — | |
| V. | ICP Interference Check Sample (ICS) Analysis | A | |
| VI. | Matrix Spike Analysis | N | MS/D (Mn, Ti: 74x) |
| VII. | Duplicate Sample Analysis | N | |
| VIII. | Laboratory Control Samples (LCS) | N | LCS/D |
| IX. | Internal Standard (ICP-MS) | N | |
| X. | Furnace Atomic Absorption QC | N | |
| XI. | ICP Serial Dilution | A | |
| XII. | Sample Result Verification | N | |
| XIII. | Overall Assessment of Data | N | |
| XIV. | Field Duplicates | N | |
| XV | Field Blanks | SW | EB = EB-NBZ-SB-031512 \| 12C135 =EB-NBZ-SS-031512 / |

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: 50; 1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | SL-002-NBZ-SB-4.0-5.0 | 11 | SL-003-NBZ-SS-0.0-0.5MS | 21 | | 31 | |
| 2 | SL-002-NBZ-SB-7.5-8.5 | 12 | SL-003-NBZ-SS-0.0-0.5MSD | 22 | | 32 | |
| 3 | SL-003-NBZ-SB-4.0-5.0 | 13 | | 23 | | 33 | |
| 4 | SL-007-NBZ-SB-4.0-5.0 | 14 | | 24 | | 34 | |
| 5 | SL-007-NBZ-SB-9.0-10.0 | 15 | | 25 | | 35 | |
| 6 | SL-010-BNZ-SB-4.0-5.0 | 16 | | 26 | | 36 | |
| 7 | SL-002-NBZ-SS-0.0-0.5 | 17 | | 27 | | 37 | |
| 8 | SL-003-NBZ-SS-0.0-0.5 | 18 | | 28 | | 38 | |
| 9 | SL-002-NBZ-SB-4.0-5.0MS (MS) | 19 | | 29 | | 39 | |
| 10 | SL-002-NBZ-SB-4.0-5.0MSD (MS) | 20 | | 30 | | 40 | |

Notes: _____

LDC #: 29230G4

# VALIDATION FINDINGS WORKSHEET
## Field Blanks


Reviewer:
2nd Reviewer:

**METHOD:** Trace Metals (EPA SW846 6010B/7000)

**Blank units:** mg/L **Associated sample units:** mg/Kg
**Sampling date:** 3/15/12 Soil factor applied 50x
**Field blank type:** (circle one) Field Blank / Rinsate / Other: Associated Samples: 1-6

| Analyte | Blank ID | Sample Identification | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EB-NBZ-SB-031512 | Action Limit | No Qualifiers | | | | | | | | | | |
| Al | 0.0225 | 5.625 | | | | | | | | | | | |
| Cu | 0.000785 | 0.19625 | | | | | | | | | | | |

**Sampling date:** 3/15/12 Soil factor applied 50x
**Field blank type:** (circle one) Field Blank / Rinsate / Other: Associated Samples: 7, 8

| Analyte | Blank ID | Sample Identification | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EB-NBZ-SS-031512 | Action Limit | No Qualifiers | | | | | | | | | | |
| Al | 0.0277 | 6.925 | | | | | | | | | | | |
| Cu | 0.00115 | 0.2875 | | | | | | | | | | | |

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

## Ye Myint

**From:** Ye Myint
**Sent:** Wednesday, March 14, 2012 11:07 AM
**To:** 'Zakowski, Cherie'
**Cc:** Hartman, Pamela; Burgesser, Todd
**Subject:** RE: NBZ Sampling

☆ No validation quals applied. SLL 3/18/13

Hello Cherie,

Yes, we can add an "S" as a qualifier to the affected data. (cw96-14 and -15 only)
- 8270C, 8270SIM and 8082

Thanks, Cherie.

ym
3/14/12

Ye
310-618-8889 x121

-----Original Message-----
From: Zakowski, Cherie [mailto:ZakowskiCA@cdmsmith.com]
Sent: Wednesday, March 14, 2012 10:29 AM
To: Ye Myint
Cc: Hartman, Pamela; Burgesser, Todd
Subject: RE: NBZ Sampling

Hello Ye: Do you think you folks could add a qualifier in your lab qualifier column - like an "S" for example? This would help us identify these sampled affected below?

Please let us know.

Thanks

Cherie Zakowski
Project Manager/Scientist
CDM Smith
555 17th Street, Suite 1100
Denver, CO 80202
Direct Phone: 720-264-1109
Main Phone: 303-383-2300
Fax: 303-308-3003

-----Original Message-----
From: Burgesser, Todd
Sent: 2012-03-14 8:53 AM
To: Ye Myint
Cc: Zakowski, Cherie; Hartman, Pamela
Subject: RE: NBZ Sampling

Ye, based on Pam's response I think the only option is to proceed and discuss this in the case narrative. In addition to the case narrative and additional note/flag should be appended to the affected results that will serve to immediately alert the data users/reviewers of this situation so we can flag/qualify the results appropriately. I think Cherie can direct you to the appropriate note or qualifier for this exercise.

Thanks for the immediate notification, this type of feedback is invaluable. Please continue to inform us on all issues (calibrations, MS, LCS, holding times issues) so we can make decisions on re-analysis in a timely manner.

-----Original Message-----
From: Ye Myint [mailto:YMyint@emaxlabs.com]
Sent: Tuesday, March 13, 2012 7:40 PM
To: Burgesser, Todd
Cc: Zakowski, Cherie; Hartman, Pamela
Subject: RE: NBZ Sampling

Hi Todd,

We received the first batch of samples yesterday. Attached please find the COCs. Two out of 15 samples had sleeves collected for SVOCs/SIM and PCBs. We understand that the sleeves should not be disturbed or homogenized for these 3 analyses when specifically requested to perform on sleeves samples. I regret to notify you that the lab overlooked this requirement stated in the project set-up and inadvertently homogenized the sleeves this morning.

Would it be possible that Pam can go back and recollect the sleeves for these two samples or could we proceed with extraction/analysis on the homogenized sleeves samples and discuss it in our case narratives?

I apologize for the inconvenience. Please let me know if you have any questions. Thanks.

Ye
310-618-8889 x121

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdmsmith.com]
Sent: Monday, March 12, 2012 4:32 PM
To: 'Laura Rainey'; Bloisa, Peggy; Zakowski, Cherie; Burgesser, Todd; Ye Myint
Subject: NBZ Sampling

We started collocated sampling in the NBZ today. We collected 2 surface sample and 6 subsurface samples. Subsurface samples were collected with the DPT rig and HGL predicts having enough accessible locations for the remainder of the week.

Please see attached COCs

Thanks and welcome back everyone!

Pam

Pamela Hartman
CDM Smith
532 W 6th St #400
Los Angeles, CA 90014
Cell- 714-514-4042
Direct 818-466-8007

# SAMPLE DELIVERY GROUP

# 12C106

**Laboratory Data Consultants, Inc.**

**7750 El Camino Real, Ste. 2L Carlsbad, CA 92009**

**Phone** 760.634.0437 **Web** www.lab-data.com **Fax** 760.634.0439

CDM
555 17th Street, Suite 1100
Denver, CO 80202
ATTN: Mrs. Cherie Zakowski

March 8, 2013

SUBJECT: Santa Susana Field Laboratory, Data Validation

Dear Mrs. Zakowski,

Enclosed is the final validation report for the fractions listed below. This SDG was received on September 24, 2012. Note this LDC job was previously on hold at client request.

**LDC project# 28468:**

| SDG # | Fraction |
|---|---|
| 12C106 | Semivolatiles (EPA SW 846 Method 8270C)<br>Semivolatiles (EPA SW 846 Method 8270C-SIM)<br>Chlorinated Pesticides (EPA SW 846 Method 8081A)<br>PCBs (EPA SW 846 Method 8082)<br>Metals (EPA SW 846 Method 6020A/7471A)<br>Herbicides (EPA 846 Method 8151A)<br>Perchlorate (EPA SW 846 Method 6850)<br>TPH-G (EPA SW 846 Method 8015B)<br>TPH-E (EPA SW 846 Method 8015B)<br>Glycols (EPA SW 846 Method 8015B)<br>Alcohols (EPA SW 846 Method 8015B)<br>Explosives (EPA SW 846 Method 8330A)<br>Nitrogen & PETN (EPA SW 846 Method 8332)<br>Wet Chemistry (EPA SW 846 Method 7199 and 9014 and EPA Method 300.0 and 314.0) |

The following deliverables are submitted under this report:

- Attachment I Sample ID Cross Reference and Data Review Level
- Attachment II Overall Data Qualification Summary
- Enclosure I Level III ADR Outliers (including manual review outliers)

The data validation was performed in accordance to the Quality Assurance Project Plan for Santa Susana Field Laboratory, RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008) and for Inorganic Data Review (January 2010). Where specific guidance is not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience. The following items were evaluated during the review::

- Holding Times
- Sample Preservation
- Cooler Temperatures
- Initial Calibration (Level IV only)
- Continuing Calibration (Level IV only)
- Blanks
- Surrogates
- Matrix Spike/Matrix Spike Duplicates
- Laboratory Duplicates
- Laboratory Control Samples
- Internal Standards (Level IV only)
- ICP Serial Dilution (Manual Review)
- Detection and Quantitation Limits
- Field QC Samples

Please feel free to contact us if you have any questions.

Sincerely,

Andrew Kong
Project Manager/Chemist

# Attachment I

# Sample ID Cross Reference and Data Review Level

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 13-Mar-2012 | TB-031312 | C106-12 | TB | 5030B | 8015B GRO | III |
| 13-Mar-2012 | SL-006-NBZ-SB-3.0-4.0 | C106-04 | N | 3550B | 8015B EFH | III |
| 13-Mar-2012 | SL-006-NBZ-SB-3.0-4.0 | C106-04 | N | 3550B | 8082 | III |
| 13-Mar-2012 | SL-006-NBZ-SB-3.0-4.0 | C106-04 | N | 3550B | 8270C | III |
| 13-Mar-2012 | SL-006-NBZ-SB-3.0-4.0 | C106-04 | N | 3550B | 8270C SIM | III |
| 13-Mar-2012 | SL-006-NBZ-SB-3.0-4.0 | C106-04 | N | 7471A | 7471A | III |
| 13-Mar-2012 | SL-006-NBZ-SB-3.0-4.0 | C106-04 | N | GEN PREP | 300.0 | III |
| 13-Mar-2012 | SL-006-NBZ-SB-3.0-4.0 | C106-04 | N | GEN PREP | 314.0 | III |
| 13-Mar-2012 | SL-006-NBZ-SB-3.0-4.0 | C106-04 | N | GEN PREP | 6020 | III |
| 13-Mar-2012 | SL-006-NBZ-SB-3.0-4.0 | C106-04 | N | GEN PREP | 7199 | III |
| 13-Mar-2012 | SL-006-NBZ-SB-3.0-4.0 | C106-04 | N | GEN PREP | 8015B | III |
| 13-Mar-2012 | SL-006-NBZ-SB-3.0-4.0 | C106-04 | N | GEN PREP | 8330A | III |
| 13-Mar-2012 | SL-006-NBZ-SB-3.0-4.0 | C106-04 | N | GEN PREP | 8332 | III |
| 13-Mar-2012 | SL-006-NBZ-SB-3.0-4.0 | C106-04 | N | GEN PREP | 9014 | III |
| 13-Mar-2012 | SL-006-NBZ-SB-3.0-4.0 | C106-04R | N | GEN PREP | 7199 | III |
| 13-Mar-2012 | SL-006-NBZ-SB-3.0-4.0 | C106-04W | N | GEN PREP | 8015M | III |
| 13-Mar-2012 | SL-006-NBZ-SB-3.5 | C106-03 | N | 5035 | 8015B GRO | III |
| 13-Mar-2012 | SL-005-NBZ-SB-4.0-5.0 | C106-02 | N | 3550B | 8015B EFH | III |
| 13-Mar-2012 | SL-005-NBZ-SB-4.0-5.0 | C106-02 | N | 3550B | 8082 | III |
| 13-Mar-2012 | SL-005-NBZ-SB-4.0-5.0 | C106-02 | N | 3550B | 8270C | III |
| 13-Mar-2012 | SL-005-NBZ-SB-4.0-5.0 | C106-02 | N | 3550B | 8270C SIM | III |
| 13-Mar-2012 | SL-005-NBZ-SB-4.0-5.0 | C106-02 | N | 7471A | 7471A | III |
| 13-Mar-2012 | SL-005-NBZ-SB-4.0-5.0 | C106-02 | N | GEN PREP | 300.0 | III |
| 13-Mar-2012 | SL-005-NBZ-SB-4.0-5.0 | C106-02 | N | GEN PREP | 314.0 | III |
| 13-Mar-2012 | SL-005-NBZ-SB-4.0-5.0 | C106-02 | N | GEN PREP | 6020 | III |
| 13-Mar-2012 | SL-005-NBZ-SB-4.0-5.0 | C106-02 | N | GEN PREP | 7199 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 13-Mar-2012 | SL-005-NBZ-SB-4.0-5.0 | C106-02 | N | GEN PREP | 8015B | III |
| 13-Mar-2012 | SL-005-NBZ-SB-4.0-5.0 | C106-02 | N | GEN PREP | 8330A | III |
| 13-Mar-2012 | SL-005-NBZ-SB-4.0-5.0 | C106-02 | N | GEN PREP | 8332 | III |
| 13-Mar-2012 | SL-005-NBZ-SB-4.0-5.0 | C106-02 | N | GEN PREP | 9014 | III |
| 13-Mar-2012 | SL-005-NBZ-SB-4.0-5.0MS | C106-02M | MS | 7471A | 7471A | III |
| 13-Mar-2012 | SL-005-NBZ-SB-4.0-5.0 | C106-02R | N | GEN PREP | 7199 | III |
| 13-Mar-2012 | SL-005-NBZ-SB-4.0-5.0MSD | C106-02S | MSD | 7471A | 7471A | III |
| 13-Mar-2012 | SL-005-NBZ-SB-4.0-5.0 | C106-02W | N | GEN PREP | 8015M | III |
| 13-Mar-2012 | SL-005-NBZ-SB-4.5 | C106-01 | N | 5035 | 8015B GRO | III |
| 13-Mar-2012 | SL-015-NBZ-SS-0.0-0.5 | C106-05 | N | 3550B | 8081A | III |
| 13-Mar-2012 | SL-015-NBZ-SS-0.0-0.5 | C106-05 | N | 3550B | 8082 | III |
| 13-Mar-2012 | SL-015-NBZ-SS-0.0-0.5 | C106-05 | N | 3550B | 8270C | III |
| 13-Mar-2012 | SL-015-NBZ-SS-0.0-0.5 | C106-05 | N | 3550B | 8270C SIM | III |
| 13-Mar-2012 | SL-015-NBZ-SS-0.0-0.5 | C106-05 | N | 7471A | 7471A | III |
| 13-Mar-2012 | SL-015-NBZ-SS-0.0-0.5 | C106-05 | N | GEN PREP | 300.0 | III |
| 13-Mar-2012 | SL-015-NBZ-SS-0.0-0.5 | C106-05 | N | GEN PREP | 314.0 | III |
| 13-Mar-2012 | SL-015-NBZ-SS-0.0-0.5 | C106-05 | N | GEN PREP | 6020 | III |
| 13-Mar-2012 | SL-015-NBZ-SS-0.0-0.5 | C106-05 | N | GEN PREP | 6850 | III |
| 13-Mar-2012 | SL-015-NBZ-SS-0.0-0.5 | C106-05 | N | GEN PREP | 7199 | III |
| 13-Mar-2012 | SL-015-NBZ-SS-0.0-0.5 | C106-05 | N | GEN PREP | 8015B | III |
| 13-Mar-2012 | SL-015-NBZ-SS-0.0-0.5 | C106-05 | N | GEN PREP | 8151A | III |
| 13-Mar-2012 | SL-015-NBZ-SS-0.0-0.5 | C106-05R | N | GEN PREP | 7199 | III |
| 13-Mar-2012 | SL-015-NBZ-SS-0.0-0.5 | C106-05W | N | GEN PREP | 8015M | III |
| 13-Mar-2012 | SL-019-NBZ-SS-0.0-0.5 | C106-06 | N | 3550B | 8081A | III |
| 13-Mar-2012 | SL-019-NBZ-SS-0.0-0.5 | C106-06 | N | 3550B | 8082 | III |
| 13-Mar-2012 | SL-019-NBZ-SS-0.0-0.5 | C106-06 | N | 3550B | 8270C | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 13-Mar-2012 | SL-019-NBZ-SS-0.0-0.5 | C106-06 | N | 3550B | 8270C SIM | III |
| 13-Mar-2012 | SL-019-NBZ-SS-0.0-0.5 | C106-06 | N | 7471A | 7471A | III |
| 13-Mar-2012 | SL-019-NBZ-SS-0.0-0.5 | C106-06 | N | GEN PREP | 300.0 | III |
| 13-Mar-2012 | SL-019-NBZ-SS-0.0-0.5 | C106-06 | N | GEN PREP | 314.0 | III |
| 13-Mar-2012 | SL-019-NBZ-SS-0.0-0.5 | C106-06 | N | GEN PREP | 6020 | III |
| 13-Mar-2012 | SL-019-NBZ-SS-0.0-0.5 | C106-06 | N | GEN PREP | 6850 | III |
| 13-Mar-2012 | SL-019-NBZ-SS-0.0-0.5 | C106-06 | N | GEN PREP | 7199 | III |
| 13-Mar-2012 | SL-019-NBZ-SS-0.0-0.5 | C106-06 | N | GEN PREP | 8015B | III |
| 13-Mar-2012 | SL-019-NBZ-SS-0.0-0.5 | C106-06 | N | GEN PREP | 8151A | III |
| 13-Mar-2012 | SL-019-NBZ-SS-0.0-0.5MS | C106-06M | MS | 3550B | 8081A | III |
| 13-Mar-2012 | SL-019-NBZ-SS-0.0-0.5 | C106-06R | N | GEN PREP | 7199 | III |
| 13-Mar-2012 | SL-019-NBZ-SS-0.0-0.5MSD | C106-06S | MSD | 3550B | 8081A | III |
| 13-Mar-2012 | SL-019-NBZ-SS-0.0-0.5 | C106-06W | N | GEN PREP | 8015M | III |
| 13-Mar-2012 | SL-019-NBZ-SB-3.5 | C106-07 | N | 5035 | 8015B GRO | III |
| 13-Mar-2012 | SL-019-NBZ-SB-3.0-4.0 | C106-08 | N | 3550B | 8015B EFH | III |
| 13-Mar-2012 | SL-019-NBZ-SB-3.0-4.0 | C106-08 | N | 3550B | 8082 | III |
| 13-Mar-2012 | SL-019-NBZ-SB-3.0-4.0 | C106-08 | N | 3550B | 8270C | III |
| 13-Mar-2012 | SL-019-NBZ-SB-3.0-4.0 | C106-08 | N | 3550B | 8270C SIM | III |
| 13-Mar-2012 | SL-019-NBZ-SB-3.0-4.0 | C106-08 | N | 7471A | 7471A | III |
| 13-Mar-2012 | SL-019-NBZ-SB-3.0-4.0 | C106-08 | N | GEN PREP | 300.0 | III |
| 13-Mar-2012 | SL-019-NBZ-SB-3.0-4.0 | C106-08 | N | GEN PREP | 314.0 | III |
| 13-Mar-2012 | SL-019-NBZ-SB-3.0-4.0 | C106-08 | N | GEN PREP | 6020 | III |
| 13-Mar-2012 | SL-019-NBZ-SB-3.0-4.0 | C106-08 | N | GEN PREP | 7199 | III |
| 13-Mar-2012 | SL-019-NBZ-SB-3.0-4.0 | C106-08 | N | GEN PREP | 8015B | III |
| 13-Mar-2012 | SL-019-NBZ-SB-3.0-4.0 | C106-08 | N | GEN PREP | 8330A | III |
| 13-Mar-2012 | SL-019-NBZ-SB-3.0-4.0 | C106-08 | N | GEN PREP | 8332 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 13-Mar-2012 | SL-019-NBZ-SB-3.0-4.0 | C106-08 | N | GEN PREP | 9014 | III |
| 13-Mar-2012 | SL-019-NBZ-SB-3.0-4.0 | C106-08R | N | GEN PREP | 7199 | III |
| 13-Mar-2012 | SL-019-NBZ-SB-3.0-4.0 | C106-08W | N | GEN PREP | 8015M | III |
| 13-Mar-2012 | SL-021-NBZ-SS-0.0-0.5 | C106-09 | N | 3550B | 8081A | III |
| 13-Mar-2012 | SL-021-NBZ-SS-0.0-0.5 | C106-09 | N | 3550B | 8082 | III |
| 13-Mar-2012 | SL-021-NBZ-SS-0.0-0.5 | C106-09 | N | 3550B | 8270C | III |
| 13-Mar-2012 | SL-021-NBZ-SS-0.0-0.5 | C106-09 | N | 3550B | 8270C SIM | III |
| 13-Mar-2012 | SL-021-NBZ-SS-0.0-0.5 | C106-09 | N | 7471A | 7471A | III |
| 13-Mar-2012 | SL-021-NBZ-SS-0.0-0.5 | C106-09 | N | GEN PREP | 300.0 | III |
| 13-Mar-2012 | SL-021-NBZ-SS-0.0-0.5 | C106-09 | N | GEN PREP | 314.0 | III |
| 13-Mar-2012 | SL-021-NBZ-SS-0.0-0.5 | C106-09 | N | GEN PREP | 6020 | III |
| 13-Mar-2012 | SL-021-NBZ-SS-0.0-0.5 | C106-09 | N | GEN PREP | 6850 | III |
| 13-Mar-2012 | SL-021-NBZ-SS-0.0-0.5 | C106-09 | N | GEN PREP | 7199 | III |
| 13-Mar-2012 | SL-021-NBZ-SS-0.0-0.5 | C106-09 | N | GEN PREP | 8015B | III |
| 13-Mar-2012 | SL-021-NBZ-SS-0.0-0.5 | C106-09 | N | GEN PREP | 8151A | III |
| 13-Mar-2012 | SL-021-NBZ-SS-0.0-0.5 | C106-09R | N | GEN PREP | 7199 | III |
| 13-Mar-2012 | SL-021-NBZ-SS-0.0-0.5 | C106-09W | N | GEN PREP | 8015M | III |
| 13-Mar-2012 | SL-021-NBZ-SB-4.0-5.0 | C106-11 | N | 3550B | 8015B EFH | III |
| 13-Mar-2012 | SL-021-NBZ-SB-4.0-5.0 | C106-11 | N | 3550B | 8082 | III |
| 13-Mar-2012 | SL-021-NBZ-SB-4.0-5.0 | C106-11 | N | 3550B | 8270C | III |
| 13-Mar-2012 | SL-021-NBZ-SB-4.0-5.0 | C106-11 | N | 3550B | 8270C SIM | III |
| 13-Mar-2012 | SL-021-NBZ-SB-4.0-5.0 | C106-11 | N | 7471A | 7471A | III |
| 13-Mar-2012 | SL-021-NBZ-SB-4.0-5.0 | C106-11 | N | GEN PREP | 300.0 | III |
| 13-Mar-2012 | SL-021-NBZ-SB-4.0-5.0 | C106-11 | N | GEN PREP | 314.0 | III |
| 13-Mar-2012 | SL-021-NBZ-SB-4.0-5.0 | C106-11 | N | GEN PREP | 6020 | III |
| 13-Mar-2012 | SL-021-NBZ-SB-4.0-5.0 | C106-11 | N | GEN PREP | 7199 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 13-Mar-2012 | SL-021-NBZ-SB-4.0-5.0 | C106-11 | N | GEN PREP | 8015B | III |
| 13-Mar-2012 | SL-021-NBZ-SB-4.0-5.0 | C106-11 | N | GEN PREP | 8330A | III |
| 13-Mar-2012 | SL-021-NBZ-SB-4.0-5.0 | C106-11 | N | GEN PREP | 8332 | III |
| 13-Mar-2012 | SL-021-NBZ-SB-4.0-5.0 | C106-11 | N | GEN PREP | 9014 | III |
| 13-Mar-2012 | SL-021-NBZ-SB-4.0-5.0MS | C106-11M | MS | 3550B | 8082 | III |
| 13-Mar-2012 | SL-021-NBZ-SB-4.0-5.0MS | C106-11M | MS | GEN PREP | 8015M | III |
| 13-Mar-2012 | SL-021-NBZ-SB-4.0-5.0 | C106-11R | N | GEN PREP | 7199 | III |
| 13-Mar-2012 | SL-021-NBZ-SB-4.0-5.0MSD | C106-11S | MSD | 3550B | 8082 | III |
| 13-Mar-2012 | SL-021-NBZ-SB-4.0-5.0MSD | C106-11S | MSD | GEN PREP | 8015M | III |
| 13-Mar-2012 | SL-021-NBZ-SB-4.0-5.0 | C106-11W | N | GEN PREP | 8015M | III |
| 13-Mar-2012 | SL-021-NBZ-SB-4.5 | C106-10 | N | 5035 | 8015B GRO | III |

*III = EPA Level 3 Data Review*
*IV = EPA Level 4 Data Validation*
*N = Normal Sample*
*FD = Field Duplicate*
*TB = Trip Blank*
*FB = Field Blank*
*MS = Matrix Spike*
*MSD = Matrix Spike Duplicate*

# Attachment II

# Overall Data Qualification Summary

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C106** **Laboratory: EMXT**

**EDD Filename: 12C106** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category:** GENCHEM

**Method:** 300.0 **Matrix:** SO

*Sample ID:* SL-005-NBZ-SB-4.0-5.0 *Collected:* 3/13/2012 10:25:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 1.04 | J | 0.553 | MDL | 1.11 | PQL | MG/KG | J | Z |

*Sample ID:* SL-006-NBZ-SB-3.0-4.0 *Collected:* 3/13/2012 9:00:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.693 | J | 0.532 | MDL | 1.06 | PQL | MG/KG | J | Z |
| Nitrate-NO3 | 1.59 | J | 0.798 | MDL | 1.60 | PQL | MG/KG | J | Z |

*Sample ID:* SL-019-NBZ-SB-3.0-4.0 *Collected:* 3/13/2012 2:40:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | 0.872 | J | 0.796 | MDL | 1.59 | PQL | MG/KG | J | Z |

*Sample ID:* SL-019-NBZ-SS-0.0-0.5 *Collected:* 3/13/2012 1:50:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.599 | J | 0.516 | MDL | 1.03 | PQL | MG/KG | J | Z |

*Sample ID:* SL-021-NBZ-SB-4.0-5.0 *Collected:* 3/13/2012 3:45:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | 0.894 | J | 0.780 | MDL | 1.56 | PQL | MG/KG | J | Z |

*Sample ID:* SL-021-NBZ-SS-0.0-0.5 *Collected:* 3/13/2012 3:30:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.674 | J | 0.514 | MDL | 1.03 | PQL | MG/KG | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C106** **Laboratory: EMXT**

**EDD Filename: 12C106** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: METALS**

**Method: 6020** **Matrix: SO**

*Sample ID:* SL-005-NBZ-SB-4.0-5.0 *Collected:* 3/13/2012 10:25:00 *Analysis Type:* RES/TOT *Dilution:* 0.952

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.132 | J | 0.105 | MDL | 0.211 | PQL | MG/KG | J | Z, Q |
| SILVER | 0.0616 | J | 0.0527 | MDL | 0.105 | PQL | MG/KG | J | Z |
| SODIUM | 53.5 | J | 52.7 | MDL | 105 | PQL | MG/KG | J | Z |
| Zirconium | 5.27 | U | 2.63 | MDL | 5.27 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-006-NBZ-SB-3.0-4.0 *Collected:* 3/13/2012 9:00:00 *Analysis Type:* RES/TOT *Dilution:* 0.985

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.210 | U | 0.105 | MDL | 0.210 | PQL | MG/KG | UJ | Q |
| CADMIUM | 0.0836 | J | 0.0524 | MDL | 0.105 | PQL | MG/KG | J | Z |
| Zirconium | 5.24 | U | 2.62 | MDL | 5.24 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-015-NBZ-SS-0.0-0.5 *Collected:* 3/13/2012 11:30:00 *Analysis Type:* RES/TOT *Dilution:* 0.930

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.160 | J | 0.0945 | MDL | 0.189 | PQL | MG/KG | J | Z, Q |
| Zirconium | 4.73 | U | 2.36 | MDL | 4.73 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-019-NBZ-SB-3.0-4.0 *Collected:* 3/13/2012 2:40:00 *Analysis Type:* RES/TOT *Dilution:* 0.917

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.143 | J | 0.0973 | MDL | 0.195 | PQL | MG/KG | J | Z, Q |
| SODIUM | 73.5 | J | 48.7 | MDL | 97.3 | PQL | MG/KG | J | Z |
| Zirconium | 4.87 | U | 2.43 | MDL | 4.87 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-019-NBZ-SS-0.0-0.5 *Collected:* 3/13/2012 1:50:00 *Analysis Type:* RES/TOT *Dilution:* 0.957

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.168 | J | 0.0988 | MDL | 0.198 | PQL | MG/KG | J | Z, Q |
| Zirconium | 4.94 | U | 2.47 | MDL | 4.94 | PQL | MG/KG | UJ | Q |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C106** **Laboratory: EMXT**

**EDD Filename: 12C106** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: METALS**

**Method: 6020** **Matrix: SO**

*Sample ID:* SL-021-NBZ-SB-4.0-5.0 *Collected:* 3/13/2012 3:45:00 *Analysis Type:* RES/TOT *Dilution:* 0.939

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.164 | J | 0.0977 | MDL | 0.195 | PQL | MG/KG | J | Z, Q |
| SODIUM | 71.1 | J | 48.9 | MDL | 97.7 | PQL | MG/KG | J | Z |
| Zirconium | 4.89 | U | 2.44 | MDL | 4.89 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-021-NBZ-SS-0.0-0.5 *Collected:* 3/13/2012 3:30:00 *Analysis Type:* RES/TOT *Dilution:* 0.943

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.191 | J | 0.0969 | MDL | 0.194 | PQL | MG/KG | J | Z, Q |
| SODIUM | 50.0 | J | 48.5 | MDL | 96.9 | PQL | MG/KG | J | Z |
| Zirconium | 4.85 | U | 2.42 | MDL | 4.85 | PQL | MG/KG | UJ | Q |

**Method Category: SVOA**

**Method: 8015B EFH** **Matrix: SO**

*Sample ID:* SL-006-NBZ-SB-3.0-4.0 *Collected:* 3/13/2012 9:00:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C8-C11) | 0.56 | J | 0.53 | MDL | 1.1 | PQL | MG/KG | J | Z |
| TOTAL EFH(C8-C40) | 0.56 | J | 0.53 | MDL | 1.1 | PQL | MG/KG | J | Z |

*Sample ID:* SL-019-NBZ-SB-3.0-4.0 *Collected:* 3/13/2012 2:40:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C8-C11) | 0.57 | J | 0.53 | MDL | 1.1 | PQL | MG/KG | J | Z |
| TOTAL EFH(C8-C40) | 0.57 | J | 0.53 | MDL | 1.1 | PQL | MG/KG | J | Z |

*Sample ID:* SL-021-NBZ-SB-4.0-5.0 *Collected:* 3/13/2012 3:45:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C8-C11) | 0.60 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C106** **Laboratory: EMXT**

**EDD Filename: 12C106** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: SVOA**

**Method: 8081A** **Matrix: SO**

*Sample ID:* SL-019-NBZ-SS-0.0-0.5 *Collected:* 3/13/2012 1:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ENDOSULFAN SULFATE | 0.28 | J | 0.18 | MDL | 0.35 | PQL | UG/KG | J | Z |

**Method Category: SVOA**

**Method: 8270C SIM** **Matrix: SO**

*Sample ID:* SL-006-NBZ-SB-3.0-4.0 *Collected:* 3/13/2012 9:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| 1-METHYLNAPHTHALENE | 1.4 | J | 0.90 | MDL | 1.8 | PQL | UG/KG | J | Z |
| 2-METHYLNAPHTHALENE | 1.3 | J | 0.90 | MDL | 1.8 | PQL | UG/KG | J | Z |
| ACENAPHTHENE | 1.2 | J | 0.90 | MDL | 1.8 | PQL | UG/KG | J | Z |
| ACENAPHTHYLENE | 1.1 | J | 0.90 | MDL | 1.8 | PQL | UG/KG | J | Z |

*Sample ID:* SL-019-NBZ-SS-0.0-0.5 *Collected:* 3/13/2012 1:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BENZO(G,H,I)PERYLENE | 0.90 | J | 0.88 | MDL | 1.8 | PQL | UG/KG | J | Z |
| BIS(2-ETHYLHEXYL)PHTHALATE | 11 | J | 8.7 | MDL | 17 | PQL | UG/KG | J | Z |
| FLUORANTHENE | 1.3 | J | 0.88 | MDL | 1.8 | PQL | UG/KG | J | Z |
| PYRENE | 1.2 | J | 0.88 | MDL | 1.8 | PQL | UG/KG | J | Z |

**Method Category: VOA**

**Method: 8015B GRO** **Matrix: AQ**

*Sample ID:* TB-031312 *Collected:* 3/13/2012 8:00:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 17 | J | 10 | MDL | 50 | PQL | UG/L | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C106** **Laboratory: EMXT**

**EDD Filename: 12C106** **eQAPP Name: CDM_SSFL_120730_EMAX**

## Reason Code Legend

| *Reason Code* | *Description* |
|---|---|
| Q | Matrix Spike Lower Estimation |
| Z | Reporting Limit Trace Value |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Enclosure I

# Level III ADR Outliers
# (including Manual Review Outliers)

# Quality Control
# Outlier Reports

# 12C106

# Reporting Limit Outliers

**Lab Reporting Batch ID: 12C106** **Laboratory: EMXT**

**EDD Filename: 12C106** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 8015B GRO**

**Matrix: AQ**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| TB-031312 | GASOLINE RANGE ORGANICS (C5-C12) | J | 17 | 50 | PQL | UG/L | J (all detects) |

**Method: 300.0**

**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-005-NBZ-SB-4.0-5.0 | FLUORIDE | J | 1.04 | 1.11 | PQL | MG/KG | J (all detects) |
| SL-006-NBZ-SB-3.0-4.0 | FLUORIDE<br>Nitrate-NO3 | J<br>J | 0.693<br>1.59 | 1.06<br>1.60 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-019-NBZ-SB-3.0-4.0 | Nitrate-NO3 | J | 0.872 | 1.59 | PQL | MG/KG | J (all detects) |
| SL-019-NBZ-SS-0.0-0.5 | FLUORIDE | J | 0.599 | 1.03 | PQL | MG/KG | J (all detects) |
| SL-021-NBZ-SB-4.0-5.0 | Nitrate-NO3 | J | 0.894 | 1.56 | PQL | MG/KG | J (all detects) |
| SL-021-NBZ-SS-0.0-0.5 | FLUORIDE | J | 0.674 | 1.03 | PQL | MG/KG | J (all detects) |

**Method: 6020**

**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-005-NBZ-SB-4.0-5.0 | ANTIMONY<br>SILVER<br>SODIUM | J<br>J<br>J | 0.132<br>0.0616<br>53.5 | 0.211<br>0.105<br>105 | PQL<br>PQL<br>PQL | MG/KG<br>MG/KG<br>MG/KG | J (all detects) |
| SL-006-NBZ-SB-3.0-4.0 | CADMIUM | J | 0.0836 | 0.105 | PQL | MG/KG | J (all detects) |
| SL-015-NBZ-SS-0.0-0.5 | ANTIMONY | J | 0.160 | 0.189 | PQL | MG/KG | J (all detects) |
| SL-019-NBZ-SB-3.0-4.0 | ANTIMONY<br>SODIUM | J<br>J | 0.143<br>73.5 | 0.195<br>97.3 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-019-NBZ-SS-0.0-0.5 | ANTIMONY | J | 0.168 | 0.198 | PQL | MG/KG | J (all detects) |
| SL-021-NBZ-SB-4.0-5.0 | ANTIMONY<br>SODIUM | J<br>J | 0.164<br>71.1 | 0.195<br>97.7 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-021-NBZ-SS-0.0-0.5 | ANTIMONY<br>SODIUM | J<br>J | 0.191<br>50.0 | 0.194<br>96.9 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |

**Method: 8015B EFH**

**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-006-NBZ-SB-3.0-4.0 | EFH(C8-C11)<br>TOTAL EFH(C8-C40) | J<br>J | 0.56<br>0.56 | 1.1<br>1.1 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-019-NBZ-SB-3.0-4.0 | EFH(C8-C11)<br>TOTAL EFH(C8-C40) | J<br>J | 0.57<br>0.57 | 1.1<br>1.1 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Reporting Limit Outliers

**Lab Reporting Batch ID: 12C106** **Laboratory: EMXT**

**EDD Filename: 12C106** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 8015B EFH**

**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-021-NBZ-SB-4.0-5.0 | EFH(C8-C11) | J | 0.60 | 1.0 | PQL | MG/KG | J (all detects) |

**Method: 8081A**

**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-019-NBZ-SS-0.0-0.5 | ENDOSULFAN SULFATE | J | 0.28 | 0.35 | PQL | UG/KG | J (all detects) |

**Method: 8270C SIM**

**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-006-NBZ-SB-3.0-4.0 | 1-METHYLNAPHTHALENE | J | 1.4 | 1.8 | PQL | UG/KG | J (all detects) |
| | 2-METHYLNAPHTHALENE | J | 1.3 | 1.8 | PQL | UG/KG | |
| | ACENAPHTHENE | J | 1.2 | 1.8 | PQL | UG/KG | |
| | ACENAPHTHYLENE | J | 1.1 | 1.8 | PQL | UG/KG | |
| SL-019-NBZ-SS-0.0-0.5 | BENZO(G,H,I)PERYLENE | J | 0.90 | 1.8 | PQL | UG/KG | J (all detects) |
| | BIS(2-ETHYLHEXYL)PHTHALATE | J | 11 | 17 | PQL | UG/KG | |
| | FLUORANTHENE | J | 1.3 | 1.8 | PQL | UG/KG | |
| | PYRENE | J | 1.2 | 1.8 | PQL | UG/KG | |

LDC #: 28468A4
SDG #: 12C106
Laboratory: EMAX Laboratories, Inc.

# VALIDATION COMPLETENESS WORKSHEET
ADR

Date: 9-26-12
Page: 1 of 1
Reviewer: AL
2nd Reviewer: W

**METHOD:** Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|---|---|---|---|
| I. | Technical holding times | — | Sampling dates: |
| II. | ICP/MS Tune | — | |
| III. | Calibration | — | |
| IV. | Blanks | A | |
| V. | ICP Interference Check Sample (ICS) Analysis | — | |
| VI. | Matrix Spike Analysis | N | MS/D (Hg only) (12C096 : Sb, Zr : J/UJ) |
| VII. | Duplicate Sample Analysis | N | ↓ |
| VIII. | Laboratory Control Samples (LCS) | N | LCS/D |
| IX. | Internal Standard (ICP-MS) | N | |
| X. | Furnace Atomic Absorption QC | N | |
| XI. | ICP Serial Dilution | NA | (12C096) |
| XII. | Sample Result Verification | N | |
| XIII. | Overall Assessment of Data | N | |
| XIV. | Field Duplicates | — | |
| XV | Field Blanks | — | EB: EB-NBZ-SB-031512 (12C135)<br>EB: EB-NBZ-SS-031512 (12C135) |

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: SO1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | SL-005-NBZ-SB-4.0-5.0 | 11 | | 21 | | 31 | |
| 2 | SL-006-NBZ-SB-3.0-4.0 | 12 | | 22 | | 32 | |
| 3 | SL-015-NBZ-SS-0.0-0.5 | 13 | | 23 | | 33 | |
| 4 | SL-019-NBZ-SS-0.0-0.5 | 14 | | 24 | | 34 | |
| 5 | SL-019-NBZ-SB-3.0-4.0 | 15 | | 25 | | 35 | |
| 6 | SL-021-NBZ-SS-0.0-0.5 | 16 | | 26 | | 36 | |
| 7 | SL-021-NBZ-SB-4.0-5.0 | 17 | | 27 | | 37 | |
| 8 | SL-005-NBZ-SB-4.0-5.0MS | 18 | | 28 | | 38 | |
| 9 | SL-005-NBZ-SB-4.0-5.0MSD | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

# SAMPLE DELIVERY GROUP

# 12C121

# Attachment I

# Sample ID Cross Reference and Data Review Level

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 14-Mar-2012 | TB-031412 | C121-13 | TB | 5030B | 8015B GRO | III |
| 14-Mar-2012 | SL-022-NBZ-SS-0.0-0.5 | C121-01 | N | 3550B | 8015B EFH | III |
| 14-Mar-2012 | SL-022-NBZ-SS-0.0-0.5 | C121-01 | N | 3550B | 8081A | III |
| 14-Mar-2012 | SL-022-NBZ-SS-0.0-0.5 | C121-01 | N | 3550B | 8082 | III |
| 14-Mar-2012 | SL-022-NBZ-SS-0.0-0.5 | C121-01 | N | 3550B | 8270C | III |
| 14-Mar-2012 | SL-022-NBZ-SS-0.0-0.5 | C121-01 | N | 3550B | 8270C SIM | III |
| 14-Mar-2012 | SL-022-NBZ-SS-0.0-0.5 | C121-01 | N | 7471A | 7471A | III |
| 14-Mar-2012 | SL-022-NBZ-SS-0.0-0.5 | C121-01 | N | GEN PREP | 300.0 | III |
| 14-Mar-2012 | SL-022-NBZ-SS-0.0-0.5 | C121-01 | N | GEN PREP | 314.0 | III |
| 14-Mar-2012 | SL-022-NBZ-SS-0.0-0.5 | C121-01 | N | GEN PREP | 6020 | III |
| 14-Mar-2012 | SL-022-NBZ-SS-0.0-0.5 | C121-01 | N | GEN PREP | 7199 | III |
| 14-Mar-2012 | SL-022-NBZ-SS-0.0-0.5 | C121-01 | N | GEN PREP | 8015B | III |
| 14-Mar-2012 | SL-022-NBZ-SS-0.0-0.5 | C121-01 | N | GEN PREP | 8015M | III |
| 14-Mar-2012 | SL-022-NBZ-SS-0.0-0.5 | C121-01 | N | GEN PREP | 8151A | III |
| 14-Mar-2012 | SL-022-NBZ-SS-0.0-0.5 | C121-01 | N | GEN PREP | 8330A | III |
| 14-Mar-2012 | SL-022-NBZ-SS-0.0-0.5 | C121-01 | N | GEN PREP | 8332 | III |
| 14-Mar-2012 | SL-022-NBZ-SS-0.0-0.5 | C121-01 | N | GEN PREP | 9014 | III |
| 14-Mar-2012 | SL-022-NBZ-SS-0.0-0.5 | C121-01R | N | GEN PREP | 7199 | III |
| 14-Mar-2012 | SL-022-NBZ-SS-0.0-0.5 | C121-01T | N | 3550B | 8081A | III |
| 14-Mar-2012 | SL-022-NBZ-SS-0.0-0.5 | C121-01W | N | GEN PREP | 6020 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-4.0-5.0 | C121-06 | N | 3550B | 8015B EFH | III |
| 14-Mar-2012 | SL-022-NBZ-SB-4.0-5.0 | C121-06 | N | 3550B | 8082 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-4.0-5.0 | C121-06 | N | 3550B | 8270C | III |
| 14-Mar-2012 | SL-022-NBZ-SB-4.0-5.0 | C121-06 | N | 3550B | 8270C SIM | III |
| 14-Mar-2012 | SL-022-NBZ-SB-4.0-5.0 | C121-06 | N | 7471A | 7471A | III |
| 14-Mar-2012 | SL-022-NBZ-SB-4.0-5.0 | C121-06 | N | GEN PREP | 300.0 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 14-Mar-2012 | SL-022-NBZ-SB-4.0-5.0 | C121-06 | N | GEN PREP | 314.0 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-4.0-5.0 | C121-06 | N | GEN PREP | 6020 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-4.0-5.0 | C121-06 | N | GEN PREP | 6850 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-4.0-5.0 | C121-06 | N | GEN PREP | 7199 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-4.0-5.0 | C121-06 | N | GEN PREP | 8015B | III |
| 14-Mar-2012 | SL-022-NBZ-SB-4.0-5.0 | C121-06 | N | GEN PREP | 8015M | III |
| 14-Mar-2012 | SL-022-NBZ-SB-4.0-5.0 | C121-06 | N | GEN PREP | 8330A | III |
| 14-Mar-2012 | SL-022-NBZ-SB-4.0-5.0 | C121-06 | N | GEN PREP | 8332 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-4.0-5.0 | C121-06 | N | GEN PREP | 9014 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-4.0-5.0DUP | C121-06D | DUP | GEN PREP | 9014 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-4.0-5.0MS | C121-06M | MS | GEN PREP | 9014 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-4.0-5.0 | C121-06R | N | GEN PREP | 7199 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-4.0-5.0 | C121-06W | N | GEN PREP | 6020 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-4.5 | C121-05 | N | 5035 | 8015B GRO | III |
| 14-Mar-2012 | SL-022-NBZ-SB-9.0-10.0 | C121-08 | N | 3550B | 8015B EFH | III |
| 14-Mar-2012 | SL-022-NBZ-SB-9.0-10.0 | C121-08 | N | 3550B | 8082 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-9.0-10.0 | C121-08 | N | 3550B | 8270C | III |
| 14-Mar-2012 | SL-022-NBZ-SB-9.0-10.0 | C121-08 | N | 3550B | 8270C SIM | III |
| 14-Mar-2012 | SL-022-NBZ-SB-9.0-10.0 | C121-08 | N | 7471A | 7471A | III |
| 14-Mar-2012 | SL-022-NBZ-SB-9.0-10.0 | C121-08 | N | GEN PREP | 300.0 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-9.0-10.0 | C121-08 | N | GEN PREP | 314.0 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-9.0-10.0 | C121-08 | N | GEN PREP | 6020 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-9.0-10.0 | C121-08 | N | GEN PREP | 6850 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-9.0-10.0 | C121-08 | N | GEN PREP | 7199 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-9.0-10.0 | C121-08 | N | GEN PREP | 8015B | III |
| 14-Mar-2012 | SL-022-NBZ-SB-9.0-10.0 | C121-08 | N | GEN PREP | 8015M | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 14-Mar-2012 | SL-022-NBZ-SB-9.0-10.0 | C121-08 | N | GEN PREP | 8330A | III |
| 14-Mar-2012 | SL-022-NBZ-SB-9.0-10.0 | C121-08 | N | GEN PREP | 8332 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-9.0-10.0 | C121-08 | N | GEN PREP | 9014 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-9.0-10.0 | C121-08R | N | GEN PREP | 7199 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-9.0-10.0 | C121-08W | N | GEN PREP | 6020 | III |
| 14-Mar-2012 | SL-022-NBZ-SB-9.5 | C121-07 | N | 5035 | 8015B GRO | III |
| 14-Mar-2012 | SL-024-NBZ-SS-0.0-0.5 | C121-03 | N | 3550B | 8015B EFH | III |
| 14-Mar-2012 | SL-024-NBZ-SS-0.0-0.5 | C121-03 | N | 3550B | 8081A | III |
| 14-Mar-2012 | SL-024-NBZ-SS-0.0-0.5 | C121-03 | N | 3550B | 8082 | III |
| 14-Mar-2012 | SL-024-NBZ-SS-0.0-0.5 | C121-03 | N | 3550B | 8270C | III |
| 14-Mar-2012 | SL-024-NBZ-SS-0.0-0.5 | C121-03 | N | 3550B | 8270C SIM | III |
| 14-Mar-2012 | SL-024-NBZ-SS-0.0-0.5 | C121-03 | N | 7471A | 7471A | III |
| 14-Mar-2012 | SL-024-NBZ-SS-0.0-0.5 | C121-03 | N | GEN PREP | 300.0 | III |
| 14-Mar-2012 | SL-024-NBZ-SS-0.0-0.5 | C121-03 | N | GEN PREP | 314.0 | III |
| 14-Mar-2012 | SL-024-NBZ-SS-0.0-0.5 | C121-03 | N | GEN PREP | 6020 | III |
| 14-Mar-2012 | SL-024-NBZ-SS-0.0-0.5 | C121-03 | N | GEN PREP | 7199 | III |
| 14-Mar-2012 | SL-024-NBZ-SS-0.0-0.5 | C121-03 | N | GEN PREP | 8015B | III |
| 14-Mar-2012 | SL-024-NBZ-SS-0.0-0.5 | C121-03 | N | GEN PREP | 8015M | III |
| 14-Mar-2012 | SL-024-NBZ-SS-0.0-0.5 | C121-03 | N | GEN PREP | 8151A | III |
| 14-Mar-2012 | SL-024-NBZ-SS-0.0-0.5 | C121-03 | N | GEN PREP | 8330A | III |
| 14-Mar-2012 | SL-024-NBZ-SS-0.0-0.5 | C121-03 | N | GEN PREP | 8332 | III |
| 14-Mar-2012 | SL-024-NBZ-SS-0.0-0.5 | C121-03 | N | GEN PREP | 9014 | III |
| 14-Mar-2012 | SL-024-NBZ-SS-0.0-0.5 | C121-03R | N | GEN PREP | 7199 | III |
| 14-Mar-2012 | SL-024-NBZ-SS-0.0-0.5 | C121-03W | N | 3550B | 8081A | III |
| 14-Mar-2012 | SL-024-NBZ-SS-0.0-0.5 | C121-03W | N | GEN PREP | 6020 | III |
| 14-Mar-2012 | SL-023-NBZ-SS-0.0-0.5 | C121-02 | N | 3550B | 8015B EFH | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 14-Mar-2012 | SL-023-NBZ-SS-0.0-0.5 | C121-02 | N | 3550B | 8081A | III |
| 14-Mar-2012 | SL-023-NBZ-SS-0.0-0.5 | C121-02 | N | 3550B | 8082 | III |
| 14-Mar-2012 | SL-023-NBZ-SS-0.0-0.5 | C121-02 | N | 3550B | 8270C | III |
| 14-Mar-2012 | SL-023-NBZ-SS-0.0-0.5 | C121-02 | N | 3550B | 8270C SIM | III |
| 14-Mar-2012 | SL-023-NBZ-SS-0.0-0.5 | C121-02 | N | 7471A | 7471A | III |
| 14-Mar-2012 | SL-023-NBZ-SS-0.0-0.5 | C121-02 | N | GEN PREP | 300.0 | III |
| 14-Mar-2012 | SL-023-NBZ-SS-0.0-0.5 | C121-02 | N | GEN PREP | 314.0 | III |
| 14-Mar-2012 | SL-023-NBZ-SS-0.0-0.5 | C121-02 | N | GEN PREP | 6020 | III |
| 14-Mar-2012 | SL-023-NBZ-SS-0.0-0.5 | C121-02 | N | GEN PREP | 7199 | III |
| 14-Mar-2012 | SL-023-NBZ-SS-0.0-0.5 | C121-02 | N | GEN PREP | 8015B | III |
| 14-Mar-2012 | SL-023-NBZ-SS-0.0-0.5 | C121-02 | N | GEN PREP | 8015M | III |
| 14-Mar-2012 | SL-023-NBZ-SS-0.0-0.5 | C121-02 | N | GEN PREP | 8151A | III |
| 14-Mar-2012 | SL-023-NBZ-SS-0.0-0.5 | C121-02 | N | GEN PREP | 8330A | III |
| 14-Mar-2012 | SL-023-NBZ-SS-0.0-0.5 | C121-02 | N | GEN PREP | 8332 | III |
| 14-Mar-2012 | SL-023-NBZ-SS-0.0-0.5 | C121-02 | N | GEN PREP | 9014 | III |
| 14-Mar-2012 | SL-023-NBZ-SS-0.0-0.5 | C121-02R | N | GEN PREP | 7199 | III |
| 14-Mar-2012 | SL-023-NBZ-SS-0.0-0.5 | C121-02T | N | 3550B | 8081A | III |
| 14-Mar-2012 | SL-023-NBZ-SS-0.0-0.5 | C121-02W | N | GEN PREP | 6020 | III |
| 14-Mar-2012 | SL-023-NBZ-SB-4.0-5.0 | C121-10 | N | 3550B | 8015B EFH | III |
| 14-Mar-2012 | SL-023-NBZ-SB-4.0-5.0 | C121-10 | N | 3550B | 8082 | III |
| 14-Mar-2012 | SL-023-NBZ-SB-4.0-5.0 | C121-10 | N | 3550B | 8270C | III |
| 14-Mar-2012 | SL-023-NBZ-SB-4.0-5.0 | C121-10 | N | 3550B | 8270C SIM | III |
| 14-Mar-2012 | SL-023-NBZ-SB-4.0-5.0 | C121-10 | N | 7471A | 7471A | III |
| 14-Mar-2012 | SL-023-NBZ-SB-4.0-5.0 | C121-10 | N | GEN PREP | 300.0 | III |
| 14-Mar-2012 | SL-023-NBZ-SB-4.0-5.0 | C121-10 | N | GEN PREP | 314.0 | III |
| 14-Mar-2012 | SL-023-NBZ-SB-4.0-5.0 | C121-10 | N | GEN PREP | 6020 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 14-Mar-2012 | SL-023-NBZ-SB-4.0-5.0 | C121-10 | N | GEN PREP | 6850 | III |
| 14-Mar-2012 | SL-023-NBZ-SB-4.0-5.0 | C121-10 | N | GEN PREP | 7199 | III |
| 14-Mar-2012 | SL-023-NBZ-SB-4.0-5.0 | C121-10 | N | GEN PREP | 8015B | III |
| 14-Mar-2012 | SL-023-NBZ-SB-4.0-5.0 | C121-10 | N | GEN PREP | 8015M | III |
| 14-Mar-2012 | SL-023-NBZ-SB-4.0-5.0 | C121-10 | N | GEN PREP | 8330A | III |
| 14-Mar-2012 | SL-023-NBZ-SB-4.0-5.0 | C121-10 | N | GEN PREP | 8332 | III |
| 14-Mar-2012 | SL-023-NBZ-SB-4.0-5.0 | C121-10 | N | GEN PREP | 9014 | III |
| 14-Mar-2012 | SL-023-NBZ-SB-4.0-5.0 | C121-10R | N | GEN PREP | 7199 | III |
| 14-Mar-2012 | SL-023-NBZ-SB-4.0-5.0 | C121-10W | N | GEN PREP | 6020 | III |
| 14-Mar-2012 | SL-023-NBZ-SB-4.5 | C121-09 | N | 5035 | 8015B GRO | III |
| 14-Mar-2012 | SL-023-NBZ-SB-9.0 | C121-11 | N | 5035 | 8015B GRO | III |
| 14-Mar-2012 | SL-023-NBZ-SB-8.5-9.5 | C121-12 | N | 3550B | 8015B EFH | III |
| 14-Mar-2012 | SL-023-NBZ-SB-8.5-9.5 | C121-12 | N | 3550B | 8082 | III |
| 14-Mar-2012 | SL-023-NBZ-SB-8.5-9.5 | C121-12 | N | 3550B | 8270C | III |
| 14-Mar-2012 | SL-023-NBZ-SB-8.5-9.5 | C121-12 | N | 3550B | 8270C SIM | III |
| 14-Mar-2012 | SL-023-NBZ-SB-8.5-9.5 | C121-12 | N | 7471A | 7471A | III |
| 14-Mar-2012 | SL-023-NBZ-SB-8.5-9.5 | C121-12 | N | GEN PREP | 300.0 | III |
| 14-Mar-2012 | SL-023-NBZ-SB-8.5-9.5 | C121-12 | N | GEN PREP | 314.0 | III |
| 14-Mar-2012 | SL-023-NBZ-SB-8.5-9.5 | C121-12 | N | GEN PREP | 6020 | III |
| 14-Mar-2012 | SL-023-NBZ-SB-8.5-9.5 | C121-12 | N | GEN PREP | 6850 | III |
| 14-Mar-2012 | SL-023-NBZ-SB-8.5-9.5 | C121-12 | N | GEN PREP | 7199 | III |
| 14-Mar-2012 | SL-023-NBZ-SB-8.5-9.5 | C121-12 | N | GEN PREP | 8015B | III |
| 14-Mar-2012 | SL-023-NBZ-SB-8.5-9.5 | C121-12 | N | GEN PREP | 8015M | III |
| 14-Mar-2012 | SL-023-NBZ-SB-8.5-9.5 | C121-12 | N | GEN PREP | 8330A | III |
| 14-Mar-2012 | SL-023-NBZ-SB-8.5-9.5 | C121-12 | N | GEN PREP | 8332 | III |
| 14-Mar-2012 | SL-023-NBZ-SB-8.5-9.5 | C121-12 | N | GEN PREP | 9014 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 14-Mar-2012 | SL-023-NBZ-SB-8.5-9.5MS | C121-12M | MS | 3550B | 8082 | III |
| 14-Mar-2012 | SL-023-NBZ-SB-8.5-9.5 | C121-12R | N | GEN PREP | 7199 | III |
| 14-Mar-2012 | SL-023-NBZ-SB-8.5-9.5MSD | C121-12S | MSD | 3550B | 8082 | III |
| 14-Mar-2012 | SL-023-NBZ-SB-8.5-9.5 | C121-12W | N | GEN PREP | 6020 | III |
| 14-Mar-2012 | SL-030-NBZ-SS-0.0-0.5 | C121-04 | N | 3550B | 8015B EFH | III |
| 14-Mar-2012 | SL-030-NBZ-SS-0.0-0.5 | C121-04 | N | 3550B | 8081A | III |
| 14-Mar-2012 | SL-030-NBZ-SS-0.0-0.5 | C121-04 | N | 3550B | 8082 | III |
| 14-Mar-2012 | SL-030-NBZ-SS-0.0-0.5 | C121-04 | N | 3550B | 8270C | III |
| 14-Mar-2012 | SL-030-NBZ-SS-0.0-0.5 | C121-04 | N | 3550B | 8270C SIM | III |
| 14-Mar-2012 | SL-030-NBZ-SS-0.0-0.5 | C121-04 | N | 7471A | 7471A | III |
| 14-Mar-2012 | SL-030-NBZ-SS-0.0-0.5 | C121-04 | N | GEN PREP | 300.0 | III |
| 14-Mar-2012 | SL-030-NBZ-SS-0.0-0.5 | C121-04 | N | GEN PREP | 314.0 | III |
| 14-Mar-2012 | SL-030-NBZ-SS-0.0-0.5 | C121-04 | N | GEN PREP | 6020 | III |
| 14-Mar-2012 | SL-030-NBZ-SS-0.0-0.5 | C121-04 | N | GEN PREP | 7199 | III |
| 14-Mar-2012 | SL-030-NBZ-SS-0.0-0.5 | C121-04 | N | GEN PREP | 8015B | III |
| 14-Mar-2012 | SL-030-NBZ-SS-0.0-0.5 | C121-04 | N | GEN PREP | 8015M | III |
| 14-Mar-2012 | SL-030-NBZ-SS-0.0-0.5 | C121-04 | N | GEN PREP | 8151A | III |
| 14-Mar-2012 | SL-030-NBZ-SS-0.0-0.5 | C121-04 | N | GEN PREP | 8330A | III |
| 14-Mar-2012 | SL-030-NBZ-SS-0.0-0.5 | C121-04 | N | GEN PREP | 8332 | III |
| 14-Mar-2012 | SL-030-NBZ-SS-0.0-0.5 | C121-04 | N | GEN PREP | 9014 | III |
| 14-Mar-2012 | SL-030-NBZ-SS-0.0-0.5 | C121-04R | N | GEN PREP | 7199 | III |
| 14-Mar-2012 | SL-030-NBZ-SS-0.0-0.5 | C121-04T | N | 3550B | 8081A | III |
| 14-Mar-2012 | SL-030-NBZ-SS-0.0-0.5 | C121-04W | N | GEN PREP | 6020 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Attachment II

# Overall Data Qualification Summary

# Data Qualifier Summary

**Lab Reporting Batch ID:** 12C121 **Laboratory:** EMXT

**EDD Filename:** Prep12C121R **eQAPP Name:** CDM_SSFL_120730_EMAX

**Method Category:** GENCHEM

**Method:** 300.0 **Matrix:** SO

***Sample ID:*** SL-022-NBZ-SS-0.0-0.5 ***Collected:*** 3/14/2012 9:03:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| Nitrite-NO2 | 0.993 | J | 0.785 | MDL | 1.57 | PQL | MG/KG | J | Z |

***Sample ID:*** SL-023-NBZ-SB-8.5-9.5 ***Collected:*** 3/14/2012 12:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | 0.852 | J | 0.791 | MDL | 1.58 | PQL | MG/KG | J | Z |

***Sample ID:*** SL-024-NBZ-SS-0.0-0.5 ***Collected:*** 3/14/2012 10:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | 0.812 | J | 0.775 | MDL | 1.55 | PQL | MG/KG | J | Z |

***Sample ID:*** SL-030-NBZ-SS-0.0-0.5 ***Collected:*** 3/14/2012 3:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| Nitrite-NO2 | 1.48 | J | 0.766 | MDL | 1.53 | PQL | MG/KG | J | Z |

**Method Category:** METALS

**Method:** 6020 **Matrix:** SO

***Sample ID:*** SL-022-NBZ-SB-4.0-5.0 ***Collected:*** 3/14/2012 10:10:00 ***Analysis Type:*** RE/TOT ***Dilution:*** 0.988

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.121 | J | 0.103 | MDL | 0.205 | PQL | MG/KG | J | Z |
| BARIUM | 73.1 | | 0.205 | MDL | 0.411 | PQL | MG/KG | J | Q |
| MANGANESE | 251 | | 0.257 | MDL | 0.514 | PQL | MG/KG | J | E |
| SODIUM | 78.4 | J | 51.4 | MDL | 103 | PQL | MG/KG | J | Z |
| Zirconium | 5.14 | U | 2.57 | MDL | 5.14 | PQL | MG/KG | UJ | Q |

***Sample ID:*** SL-022-NBZ-SB-9.0-10.0 ***Collected:*** 3/14/2012 10:20:00 ***Analysis Type:*** RE/TOT ***Dilution:*** 0.985

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.184 | J | 0.103 | MDL | 0.206 | PQL | MG/KG | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C121** **Laboratory: EMXT**

**EDD Filename: Prep12C121R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: METALS**

**Method: 6020** **Matrix: SO**

*Sample ID:* SL-022-NBZ-SB-9.0-10.0 *Collected:* 3/14/2012 10:20:00 *Analysis Type:* RE/TOT *Dilution:* 0.985

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BARIUM | 62.8 | | 0.206 | MDL | 0.413 | PQL | MG/KG | J | Q |
| MANGANESE | 282 | | 0.258 | MDL | 0.516 | PQL | MG/KG | J | E |
| SODIUM | 82.9 | J | 51.6 | MDL | 103 | PQL | MG/KG | J | Z |
| Zirconium | 5.16 | U | 2.58 | MDL | 5.16 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-022-NBZ-SS-0.0-0.5 *Collected:* 3/14/2012 9:03:00 *Analysis Type:* RE/TOT *Dilution:* 0.940

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.180 | J | 0.0983 | MDL | 0.197 | PQL | MG/KG | J | Z |
| BARIUM | 81.1 | | 0.197 | MDL | 0.393 | PQL | MG/KG | J | Q |
| MANGANESE | 225 | | 0.246 | MDL | 0.492 | PQL | MG/KG | J | E |
| SODIUM | 58.6 | J | 49.2 | MDL | 98.3 | PQL | MG/KG | J | Z |
| Zirconium | 4.92 | U | 2.46 | MDL | 4.92 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-022-NBZ-SS-0.0-0.5 *Collected:* 3/14/2012 9:03:00 *Analysis Type:* RES/TOT *Dilution:* 0.940

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BORON | 3.12 | J | 2.46 | MDL | 4.92 | PQL | MG/KG | J | Z |

*Sample ID:* SL-023-NBZ-SB-4.0-5.0 *Collected:* 3/14/2012 12:45:00 *Analysis Type:* RE/TOT *Dilution:* 0.930

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.137 | J | 0.0962 | MDL | 0.192 | PQL | MG/KG | J | Z |
| BARIUM | 73.7 | | 0.192 | MDL | 0.385 | PQL | MG/KG | J | Q |
| MANGANESE | 240 | | 0.240 | MDL | 0.481 | PQL | MG/KG | J | E |
| SODIUM | 70.3 | J | 48.1 | MDL | 96.2 | PQL | MG/KG | J | Z |
| Zirconium | 4.81 | U | 2.40 | MDL | 4.81 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-023-NBZ-SB-8.5-9.5 *Collected:* 3/14/2012 12:55:00 *Analysis Type:* RE/TOT *Dilution:* 0.985

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.162 | J | 0.104 | MDL | 0.208 | PQL | MG/KG | J | Z |
| BARIUM | 69.0 | | 0.208 | MDL | 0.416 | PQL | MG/KG | J | Q |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C121** **Laboratory: EMXT**

**EDD Filename: Prep12C121R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: METALS**

**Method: 6020** **Matrix: SO**

*Sample ID:* SL-023-NBZ-SB-8.5-9.5 *Collected:* 3/14/2012 12:55:00 *Analysis Type:* RE/TOT *Dilution:* 0.985

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| CADMIUM | 0.0979 | J | 0.0520 | MDL | 0.104 | PQL | MG/KG | J | Z |
| MANGANESE | 230 | | 0.260 | MDL | 0.520 | PQL | MG/KG | J | E |
| SODIUM | 72.3 | J | 52.0 | MDL | 104 | PQL | MG/KG | J | Z |
| Zirconium | 5.20 | U | 2.60 | MDL | 5.20 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-023-NBZ-SS-0.0-0.5 *Collected:* 3/14/2012 11:38:00 *Analysis Type:* RE/TOT *Dilution:* 0.978

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.179 | J | 0.101 | MDL | 0.202 | PQL | MG/KG | J | Z |
| BARIUM | 90.5 | | 0.202 | MDL | 0.405 | PQL | MG/KG | J | Q |
| MANGANESE | 264 | | 0.253 | MDL | 0.506 | PQL | MG/KG | J | E |
| SILVER | 0.0593 | J | 0.0506 | MDL | 0.101 | PQL | MG/KG | J | Z |
| SODIUM | 68.8 | J | 50.6 | MDL | 101 | PQL | MG/KG | J | Z |
| Zirconium | 5.06 | U | 2.53 | MDL | 5.06 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-024-NBZ-SS-0.0-0.5 *Collected:* 3/14/2012 10:50:00 *Analysis Type:* RE/TOT *Dilution:* 0.935

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BARIUM | 60.9 | | 0.193 | MDL | 0.386 | PQL | MG/KG | J | Q |
| MANGANESE | 257 | | 0.241 | MDL | 0.483 | PQL | MG/KG | J | E |
| Zirconium | 4.83 | U | 2.41 | MDL | 4.83 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-030-NBZ-SS-0.0-0.5 *Collected:* 3/14/2012 3:00:00 *Analysis Type:* RE/TOT *Dilution:* 0.962

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BARIUM | 77.6 | | 0.197 | MDL | 0.393 | PQL | MG/KG | J | Q |
| MANGANESE | 256 | | 0.246 | MDL | 0.491 | PQL | MG/KG | J | E |
| SILVER | 0.0616 | J | 0.0491 | MDL | 0.0983 | PQL | MG/KG | J | Z |
| Zirconium | 4.91 | U | 2.46 | MDL | 4.91 | PQL | MG/KG | UJ | Q |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID:** 12C121 **Laboratory:** EMXT

**EDD Filename:** Prep12C121R **eQAPP Name:** CDM_SSFL_120730_EMAX

**Method Category:** SVOA

**Method:** 8015B EFH **Matrix:** SO

***Sample ID:*** SL-022-NBZ-SB-4.0-5.0 ***Collected:*** 3/14/2012 10:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C8-C11) | 0.56 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |
| TOTAL EFH(C8-C40) | 0.56 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |

***Sample ID:*** SL-022-NBZ-SS-0.0-0.5 ***Collected:*** 3/14/2012 9:03:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C8-C11) | 0.57 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |

***Sample ID:*** SL-023-NBZ-SB-4.0-5.0 ***Collected:*** 3/14/2012 12:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C8-C11) | 0.58 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |

***Sample ID:*** SL-023-NBZ-SB-8.5-9.5 ***Collected:*** 3/14/2012 12:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C30-C40) | 0.77 | J | 0.53 | MDL | 1.1 | PQL | MG/KG | J | Z |
| EFH(C8-C11) | 0.57 | J | 0.53 | MDL | 1.1 | PQL | MG/KG | J | Z |

***Sample ID:*** SL-024-NBZ-SS-0.0-0.5 ***Collected:*** 3/14/2012 10:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C15-C20) | 0.97 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |
| EFH(C8-C11) | 0.53 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |

***Sample ID:*** SL-030-NBZ-SS-0.0-0.5 ***Collected:*** 3/14/2012 3:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C12-C14) | 0.86 | J | 0.51 | MDL | 1.0 | PQL | MG/KG | J | Z |
| EFH(C15-C20) | 0.91 | J | 0.51 | MDL | 1.0 | PQL | MG/KG | J | Z |
| EFH(C8-C11) | 0.89 | J | 0.51 | MDL | 1.0 | PQL | MG/KG | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C121** **Laboratory: EMXT**

**EDD Filename: Prep12C121R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: SVOA**

**Method: 8081A** **Matrix: SO**

*Sample ID:* SL-022-NBZ-SS-0.0-0.5 *Collected:* 3/14/2012 9:03:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ENDOSULFAN I | 0.16 | J | 0.089 | MDL | 0.18 | PQL | UG/KG | J | Z |

*Sample ID:* SL-023-NBZ-SS-0.0-0.5 *Collected:* 3/14/2012 11:38:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ENDOSULFAN II | 0.33 | J | 0.18 | MDL | 0.35 | PQL | UG/KG | J | Z |

*Sample ID:* SL-030-NBZ-SS-0.0-0.5 *Collected:* 3/14/2012 3:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| MIREX | 0.26 | J | 0.17 | MDL | 0.35 | PQL | UG/KG | J | Z |

**Method Category: SVOA**

**Method: 8082** **Matrix: SO**

*Sample ID:* SL-022-NBZ-SS-0.0-0.5 *Collected:* 3/14/2012 9:03:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| AROCLOR 1260 | 1.4 | J | 0.89 | MDL | 1.8 | PQL | UG/KG | J | Z |

**Method Category: SVOA**

**Method: 8270C SIM** **Matrix: SO**

*Sample ID:* SL-022-NBZ-SS-0.0-0.5 *Collected:* 3/14/2012 9:03:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BENZO(G,H,I)PERYLENE | 1.0 | J | 0.89 | MDL | 1.8 | PQL | UG/KG | J | Z |
| BIS(2-ETHYLHEXYL)PHTHALATE | 10 | J | 8.8 | MDL | 17 | PQL | UG/KG | J | Z |
| PHENANTHRENE | 1.0 | J | 0.89 | MDL | 1.8 | PQL | UG/KG | J | Z |
| PYRENE | 1.6 | J | 0.89 | MDL | 1.8 | PQL | UG/KG | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C121** **Laboratory: EMXT**

**EDD Filename: Prep12C121R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: SVOA**

**Method: 8270C SIM** **Matrix: SO**

**Sample ID:** SL-023-NBZ-SS-0.0-0.5 **Collected:** 3/14/2012 11:38:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BIS(2-ETHYLHEXYL)PHTHALATE | 12 | J | 8.7 | MDL | 17 | PQL | UG/KG | J | Z |

**Sample ID:** SL-024-NBZ-SS-0.0-0.5 **Collected:** 3/14/2012 10:50:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BIS(2-ETHYLHEXYL)PHTHALATE | 14 | J | 8.7 | MDL | 17 | PQL | UG/KG | J | Z |

**Sample ID:** SL-030-NBZ-SS-0.0-0.5 **Collected:** 3/14/2012 3:00:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ACENAPHTHYLENE | 0.98 | J | 0.87 | MDL | 1.7 | PQL | UG/KG | J | Z |
| PHENANTHRENE | 1.3 | J | 0.87 | MDL | 1.7 | PQL | UG/KG | J | Z |

**Method Category: VOA**

**Method: 8015B GRO** **Matrix: AQ**

**Sample ID:** TB-031412 **Collected:** 3/14/2012 8:00:00 **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 20 | J | 10 | MDL | 50 | PQL | UG/L | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C121** **Laboratory: EMXT**

**EDD Filename: Prep12C121R** **eQAPP Name: CDM_SSFL_120730_EMAX**

## Reason Code Legend

| *Reason Code* | *Description* |
|---|---|
| E | Matrix Spike Precision |
| L | Laboratory Control Spike Upper Estimation |
| Q | Matrix Spike Lower Estimation |
| Q | Matrix Spike Precision |
| Q | Matrix Spike Upper Estimation |
| Z | Reporting Limit Trace Value |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Enclosure I

# Level III ADR Outliers
# (including Manual Review Outliers)

# Quality Control
# Outlier Reports

# 12C121

# Lab Control Spike/Lab Control Spike Duplicate Outlier Report

**Lab Reporting Batch ID: 12C121** **Laboratory: EMXT**

**EDD Filename: 12C121R** **eQAPP Name: CDM_SSFL_120730_EMAX**

***Method:*** **8081A**
***Matrix:*** **SO**

| *QC Sample ID (Associated Samples)* | *Compound* | *LCS %R* | *LCSD %R* | *%R Limits* | *RPD (Limits)* | *Affected Compounds* | *Flag* |
|---|---|---|---|---|---|---|---|
| CPC016SC<br>CPC016SL<br>(SL-022-NBZ-SS-0.0-0.5<br>SL-023-NBZ-SS-0.0-0.5<br>SL-024-NBZ-SS-0.0-0.5<br>SL-030-NBZ-SS-0.0-0.5) | METHOXYCHLOR | 152 | 146 | 70.00-140.00 | - | METHOXYCHLOR | J (all detects) |

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Reporting Limit Outliers

**Lab Reporting Batch ID: 12C121** **Laboratory: EMXT**

**EDD Filename: 12C121R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 8015B GRO**
**Matrix: AQ**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| TB-031412 | GASOLINE RANGE ORGANICS (C5-C12) | J | 20 | 50 | PQL | UG/L | J (all detects) |

**Method: 300.0**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-022-NBZ-SS-0.0-0.5 | Nitrite-NO2 | J | 0.993 | 1.57 | PQL | MG/KG | J (all detects) |
| SL-023-NBZ-SB-8.5-9.5 | Nitrate-NO3 | J | 0.852 | 1.58 | PQL | MG/KG | J (all detects) |
| SL-024-NBZ-SS-0.0-0.5 | Nitrate-NO3 | J | 0.812 | 1.55 | PQL | MG/KG | J (all detects) |
| SL-030-NBZ-SS-0.0-0.5 | Nitrite-NO2 | J | 1.48 | 1.53 | PQL | MG/KG | J (all detects) |

**Method: 6020**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-022-NBZ-SB-4.0-5.0 | ANTIMONY<br>SODIUM | J<br>J | 0.121<br>78.4 | 0.205<br>103 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-022-NBZ-SB-9.0-10.0 | ANTIMONY<br>SODIUM | J<br>J | 0.184<br>82.9 | 0.206<br>103 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-022-NBZ-SS-0.0-0.5 | ANTIMONY<br>BORON<br>SODIUM | J<br>J<br>J | 0.180<br>3.12<br>58.6 | 0.197<br>4.92<br>98.3 | PQL<br>PQL<br>PQL | MG/KG<br>MG/KG<br>MG/KG | J (all detects) |
| SL-023-NBZ-SB-4.0-5.0 | ANTIMONY<br>SODIUM | J<br>J | 0.137<br>70.3 | 0.192<br>96.2 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-023-NBZ-SB-8.5-9.5 | ANTIMONY<br>CADMIUM<br>SODIUM | J<br>J<br>J | 0.162<br>0.0979<br>72.3 | 0.208<br>0.104<br>104 | PQL<br>PQL<br>PQL | MG/KG<br>MG/KG<br>MG/KG | J (all detects) |
| SL-023-NBZ-SS-0.0-0.5 | ANTIMONY<br>SILVER<br>SODIUM | J<br>J<br>J | 0.179<br>0.0593<br>68.8 | 0.202<br>0.101<br>101 | PQL<br>PQL<br>PQL | MG/KG<br>MG/KG<br>MG/KG | J (all detects) |
| SL-030-NBZ-SS-0.0-0.5 | SILVER | J | 0.0616 | 0.0983 | PQL | MG/KG | J (all detects) |

**Method: 8015B EFH**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-022-NBZ-SB-4.0-5.0 | EFH(C8-C11)<br>TOTAL EFH(C8-C40) | J<br>J | 0.56<br>0.56 | 1.0<br>1.0 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-022-NBZ-SS-0.0-0.5 | EFH(C8-C11) | J | 0.57 | 1.0 | PQL | MG/KG | J (all detects) |
| SL-023-NBZ-SB-4.0-5.0 | EFH(C8-C11) | J | 0.58 | 1.0 | PQL | MG/KG | J (all detects) |

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Reporting Limit Outliers

**Lab Reporting Batch ID: 12C121** **Laboratory: EMXT**

**EDD Filename: 12C121R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 8015B EFH**

**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-023-NBZ-SB-8.5-9.5 | EFH(C30-C40)<br>EFH(C8-C11) | J<br>J | 0.77<br>0.57 | 1.1<br>1.1 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-024-NBZ-SS-0.0-0.5 | EFH(C15-C20)<br>EFH(C8-C11) | J<br>J | 0.97<br>0.53 | 1.0<br>1.0 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-030-NBZ-SS-0.0-0.5 | EFH(C12-C14)<br>EFH(C15-C20)<br>EFH(C8-C11) | J<br>J<br>J | 0.86<br>0.91<br>0.89 | 1.0<br>1.0<br>1.0 | PQL<br>PQL<br>PQL | MG/KG<br>MG/KG<br>MG/KG | J (all detects) |

**Method: 8081A**

**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-022-NBZ-SS-0.0-0.5 | ENDOSULFAN I | J | 0.16 | 0.18 | PQL | UG/KG | J (all detects) |
| SL-023-NBZ-SS-0.0-0.5 | ENDOSULFAN II | J | 0.33 | 0.35 | PQL | UG/KG | J (all detects) |
| SL-030-NBZ-SS-0.0-0.5 | MIREX | J | 0.26 | 0.35 | PQL | UG/KG | J (all detects) |

**Method: 8082**

**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-022-NBZ-SS-0.0-0.5 | AROCLOR 1260 | J | 1.4 | 1.8 | PQL | UG/KG | J (all detects) |

**Method: 8270C SIM**

**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-022-NBZ-SS-0.0-0.5 | BENZO(G,H,I)PERYLENE<br>BIS(2-ETHYLHEXYL)PHTHALATE<br>PHENANTHRENE<br>PYRENE | J<br>J<br>J<br>J | 1.0<br>10<br>1.0<br>1.6 | 1.8<br>17<br>1.8<br>1.8 | PQL<br>PQL<br>PQL<br>PQL | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG | J (all detects) |
| SL-023-NBZ-SS-0.0-0.5 | BIS(2-ETHYLHEXYL)PHTHALATE | J | 12 | 17 | PQL | UG/KG | J (all detects) |
| SL-024-NBZ-SS-0.0-0.5 | BIS(2-ETHYLHEXYL)PHTHALATE | J | 14 | 17 | PQL | UG/KG | J (all detects) |
| SL-030-NBZ-SS-0.0-0.5 | ACENAPHTHYLENE<br>PHENANTHRENE | J<br>J | 0.98<br>1.3 | 1.7<br>1.7 | PQL<br>PQL | UG/KG<br>UG/KG | J (all detects) |

LDC #: 28255A4
SDG #: 12C121
Laboratory: EMAX Laboratories, Inc.

# VALIDATION COMPLETENESS WORKSHEET
ADR

Date: 8-28-12
Page: 1 of 1
Reviewer: CL
2nd Reviewer: V

**METHOD:** Metals (EPA SW 846 Method ~~6010B~~/6020A/~~7000~~ A 7471A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|---|---|---|---|
| I. | Technical holding times | — | Sampling dates: 3/14/12 |
| II. | ICP/MS Tune | — | |
| III. | Calibration | — | |
| IV. | Blanks | A | |
| V. | ICP Interference Check Sample (ICS) Analysis | — | |
| VI. | Matrix Spike Analysis | N | MS/D (SDG: 12C156) 6020 = |
| VII. | Duplicate Sample Analysis | N | |
| VIII. | Laboratory Control Samples (LCS) | N | LCS/D |
| IX. | Internal Standard (ICP-MS) | N | |
| X. | Furnace Atomic Absorption QC | N | |
| XI. | ICP Serial Dilution | A | |
| XII. | Sample Result Verification | N | |
| XIII. | Overall Assessment of Data | N | |
| XIV. | Field Duplicates | — | |
| XV | Field Blanks | SW | EB = EB-NBZ-SB-031512, EB-NBZ-SS-031512 } 12C135 |

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: ~~SO:~~ Sediment

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | SL-022-NBZ-SS-0.0-0.5 | 11 | | 21 | | 31 | |
| 2 | SL-023-NBZ-SS-0.0-0.5 | 12 | | 22 | | 32 | |
| 3 | SL-024-NBZ-SS-0.0-0.5 | 13 | | 23 | | 33 | |
| 4 | SL-030-NBZ-SS-0.0-0.5 | 14 | | 24 | | 34 | |
| 5 | SL-022-NBZ-SB-4.0-5.0 | 15 | | 25 | | 35 | |
| 6 | SL-022-NBZ-SB-9.0-10.0 | 16 | | 26 | | 36 | |
| 7 | SL-023-NBZ-SB-4.0-5.0 | 17 | | 27 | | 37 | |
| 8 | SL-023-NBZ-SB-8.5-9.5 | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

LDC #: 28255A4

# VALIDATION FINDINGS WORKSHEET
## Field Blanks


Reviewer: AL
2nd Reviewer: M

**METHOD:** Trace Metals (EPA SW846 6010B/7000)

**Blank units:** mg/L **Associated sample units:** mg/Kg
**Sampling date:** 3/15/12 Soil factor applied 50x
**Field blank type:** (circle one) Field Blank / Rinsate / Other: Associated Samples: 5-8

| Analyte | Blank ID | Sample Identification | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EB-NBZ-SB-031512 | Action Limit | No Qualifiers | | | | | | | | | | |
| Al | 0.0225 | 5.625 | | | | | | | | | | | |
| Cu | 0.000785 | 0.19625 | | | | | | | | | | | |

**Sampling date:** 3/15/12 Soil factor applied 50x
**Field blank type:** (circle one) Field Blank / Rinsate / Other: Associated Samples: 1-4

| Analyte | Blank ID | Sample Identification | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EB-NBZ-SS-031512 | Action Limit | No Qualifiers | | | | | | | | | | |
| Al | 0.0277 | 6.925 | | | | | | | | | | | |
| Cu | 0.00115 | 0.2875 | | | | | | | | | | | |

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

# SAMPLE DELIVERY GROUP

# 12C135

# Attachment I

# Sample ID Cross Reference and Data Review Level

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 15-Mar-2012 | TB-031512 | C135-13 | TB | 5030B | 8015B GRO | III |
| 15-Mar-2012 | SL-029-NBZ-SS-0.0-0.5 | C135-03 | N | 3550B | 8015B EFH | III |
| 15-Mar-2012 | SL-029-NBZ-SS-0.0-0.5 | C135-03 | N | 3550B | 8081A | III |
| 15-Mar-2012 | SL-029-NBZ-SS-0.0-0.5 | C135-03 | N | 3550B | 8082 | III |
| 15-Mar-2012 | SL-029-NBZ-SS-0.0-0.5 | C135-03 | N | 3550B | 8270C | III |
| 15-Mar-2012 | SL-029-NBZ-SS-0.0-0.5 | C135-03 | N | 3550B | 8270C SIM | III |
| 15-Mar-2012 | SL-029-NBZ-SS-0.0-0.5 | C135-03 | N | 7471A | 7471A | III |
| 15-Mar-2012 | SL-029-NBZ-SS-0.0-0.5 | C135-03 | N | GEN PREP | 300.0 | III |
| 15-Mar-2012 | SL-029-NBZ-SS-0.0-0.5 | C135-03 | N | GEN PREP | 314.0 | III |
| 15-Mar-2012 | SL-029-NBZ-SS-0.0-0.5 | C135-03 | N | GEN PREP | 6020 | III |
| 15-Mar-2012 | SL-029-NBZ-SS-0.0-0.5 | C135-03 | N | GEN PREP | 7199 | III |
| 15-Mar-2012 | SL-029-NBZ-SS-0.0-0.5 | C135-03 | N | GEN PREP | 8015B | III |
| 15-Mar-2012 | SL-029-NBZ-SS-0.0-0.5 | C135-03 | N | GEN PREP | 8015M | III |
| 15-Mar-2012 | SL-029-NBZ-SS-0.0-0.5 | C135-03 | N | GEN PREP | 8151A | III |
| 15-Mar-2012 | SL-029-NBZ-SS-0.0-0.5 | C135-03 | N | GEN PREP | 8330A | III |
| 15-Mar-2012 | SL-029-NBZ-SS-0.0-0.5 | C135-03 | N | GEN PREP | 8332 | III |
| 15-Mar-2012 | SL-029-NBZ-SS-0.0-0.5 | C135-03 | N | GEN PREP | 9014 | III |
| 15-Mar-2012 | SL-029-NBZ-SS-0.0-0.5 | C135-03R | N | GEN PREP | 7199 | III |
| 15-Mar-2012 | SL-029-NBZ-SS-0.0-0.5 | C135-03W | N | GEN PREP | 6020 | III |
| 15-Mar-2012 | SL-058-NBZ-SB-4.5 | C135-07 | N | 5035 | 8015B GRO | III |
| 15-Mar-2012 | SL-058-NBZ-SB-4.0-5.0 | C135-08 | N | 3550B | 8015B EFH | III |
| 15-Mar-2012 | SL-058-NBZ-SB-4.0-5.0 | C135-08 | N | 3550B | 8082 | III |
| 15-Mar-2012 | SL-058-NBZ-SB-4.0-5.0 | C135-08 | N | 3550B | 8270C | III |
| 15-Mar-2012 | SL-058-NBZ-SB-4.0-5.0 | C135-08 | N | 3550B | 8270C SIM | III |
| 15-Mar-2012 | SL-058-NBZ-SB-4.0-5.0 | C135-08 | N | 7471A | 7471A | III |
| 15-Mar-2012 | SL-058-NBZ-SB-4.0-5.0 | C135-08 | N | GEN PREP | 300.0 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 15-Mar-2012 | SL-058-NBZ-SB-4.0-5.0 | C135-08 | N | GEN PREP | 314.0 | III |
| 15-Mar-2012 | SL-058-NBZ-SB-4.0-5.0 | C135-08 | N | GEN PREP | 6020 | III |
| 15-Mar-2012 | SL-058-NBZ-SB-4.0-5.0 | C135-08 | N | GEN PREP | 7199 | III |
| 15-Mar-2012 | SL-058-NBZ-SB-4.0-5.0 | C135-08 | N | GEN PREP | 8015B | III |
| 15-Mar-2012 | SL-058-NBZ-SB-4.0-5.0 | C135-08 | N | GEN PREP | 8015M | III |
| 15-Mar-2012 | SL-058-NBZ-SB-4.0-5.0 | C135-08 | N | GEN PREP | 8330A | III |
| 15-Mar-2012 | SL-058-NBZ-SB-4.0-5.0 | C135-08 | N | GEN PREP | 8332 | III |
| 15-Mar-2012 | SL-058-NBZ-SB-4.0-5.0 | C135-08 | N | GEN PREP | 9014 | III |
| 15-Mar-2012 | SL-058-NBZ-SB-4.0-5.0DUP | C135-08D | DUP | GEN PREP | 9014 | III |
| 15-Mar-2012 | SL-058-NBZ-SB-4.0-5.0MS | C135-08M | MS | GEN PREP | 9014 | III |
| 15-Mar-2012 | SL-058-NBZ-SB-4.0-5.0 | C135-08R | N | GEN PREP | 7199 | III |
| 15-Mar-2012 | SL-058-NBZ-SB-4.0-5.0 | C135-08W | N | GEN PREP | 6020 | III |
| 15-Mar-2012 | SL-052-NBZ-SS-0.0-0.5 | C135-04 | N | 3550B | 8015B EFH | III |
| 15-Mar-2012 | SL-052-NBZ-SS-0.0-0.5 | C135-04 | N | 3550B | 8081A | III |
| 15-Mar-2012 | SL-052-NBZ-SS-0.0-0.5 | C135-04 | N | 3550B | 8270C | III |
| 15-Mar-2012 | SL-052-NBZ-SS-0.0-0.5 | C135-04 | N | 3550B | 8270C SIM | III |
| 15-Mar-2012 | SL-052-NBZ-SS-0.0-0.5 | C135-04 | N | 7471A | 7471A | III |
| 15-Mar-2012 | SL-052-NBZ-SS-0.0-0.5 | C135-04 | N | GEN PREP | 300.0 | III |
| 15-Mar-2012 | SL-052-NBZ-SS-0.0-0.5 | C135-04 | N | GEN PREP | 314.0 | III |
| 15-Mar-2012 | SL-052-NBZ-SS-0.0-0.5 | C135-04 | N | GEN PREP | 6020 | III |
| 15-Mar-2012 | SL-052-NBZ-SS-0.0-0.5 | C135-04 | N | GEN PREP | 7199 | III |
| 15-Mar-2012 | SL-052-NBZ-SS-0.0-0.5 | C135-04 | N | GEN PREP | 8015B | III |
| 15-Mar-2012 | SL-052-NBZ-SS-0.0-0.5 | C135-04 | N | GEN PREP | 8015M | III |
| 15-Mar-2012 | SL-052-NBZ-SS-0.0-0.5 | C135-04 | N | GEN PREP | 8151A | III |
| 15-Mar-2012 | SL-052-NBZ-SS-0.0-0.5 | C135-04 | N | GEN PREP | 8330A | III |
| 15-Mar-2012 | SL-052-NBZ-SS-0.0-0.5 | C135-04 | N | GEN PREP | 8332 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 15-Mar-2012 | SL-052-NBZ-SS-0.0-0.5 | C135-04 | N | GEN PREP | 9014 | III |
| 15-Mar-2012 | SL-052-NBZ-SS-0.0-0.5 | C135-04R | N | GEN PREP | 7199 | III |
| 15-Mar-2012 | SL-052-NBZ-SS-0.0-0.5 | C135-04W | N | 3550B | 8082 | III |
| 15-Mar-2012 | SL-052-NBZ-SS-0.0-0.5 | C135-04W | N | GEN PREP | 6020 | III |
| 15-Mar-2012 | SL-053-NBZ-SS-0.0-0.5 | C135-05 | N | 3550B | 8015B EFH | III |
| 15-Mar-2012 | SL-053-NBZ-SS-0.0-0.5 | C135-05 | N | 3550B | 8081A | III |
| 15-Mar-2012 | SL-053-NBZ-SS-0.0-0.5 | C135-05 | N | 3550B | 8270C | III |
| 15-Mar-2012 | SL-053-NBZ-SS-0.0-0.5 | C135-05 | N | 3550B | 8270C SIM | III |
| 15-Mar-2012 | SL-053-NBZ-SS-0.0-0.5 | C135-05 | N | 7471A | 7471A | III |
| 15-Mar-2012 | SL-053-NBZ-SS-0.0-0.5 | C135-05 | N | GEN PREP | 300.0 | III |
| 15-Mar-2012 | SL-053-NBZ-SS-0.0-0.5 | C135-05 | N | GEN PREP | 314.0 | III |
| 15-Mar-2012 | SL-053-NBZ-SS-0.0-0.5 | C135-05 | N | GEN PREP | 6020 | III |
| 15-Mar-2012 | SL-053-NBZ-SS-0.0-0.5 | C135-05 | N | GEN PREP | 7199 | III |
| 15-Mar-2012 | SL-053-NBZ-SS-0.0-0.5 | C135-05 | N | GEN PREP | 8015B | III |
| 15-Mar-2012 | SL-053-NBZ-SS-0.0-0.5 | C135-05 | N | GEN PREP | 8015M | III |
| 15-Mar-2012 | SL-053-NBZ-SS-0.0-0.5 | C135-05 | N | GEN PREP | 8151A | III |
| 15-Mar-2012 | SL-053-NBZ-SS-0.0-0.5 | C135-05 | N | GEN PREP | 8330A | III |
| 15-Mar-2012 | SL-053-NBZ-SS-0.0-0.5 | C135-05 | N | GEN PREP | 8332 | III |
| 15-Mar-2012 | SL-053-NBZ-SS-0.0-0.5 | C135-05 | N | GEN PREP | 9014 | III |
| 15-Mar-2012 | SL-053-NBZ-SS-0.0-0.5 | C135-05R | N | GEN PREP | 7199 | III |
| 15-Mar-2012 | SL-053-NBZ-SS-0.0-0.5 | C135-05T | N | 3550B | 8081A | III |
| 15-Mar-2012 | SL-053-NBZ-SS-0.0-0.5 | C135-05W | N | 3550B | 8082 | III |
| 15-Mar-2012 | SL-053-NBZ-SS-0.0-0.5 | C135-05W | N | GEN PREP | 6020 | III |
| 15-Mar-2012 | EB-NBZ-SS-031512 | C135-02 | EB | 3520C | 8015B EFH | III |
| 15-Mar-2012 | EB-NBZ-SS-031512 | C135-02 | EB | 3520C | 8081A | III |
| 15-Mar-2012 | EB-NBZ-SS-031512 | C135-02 | EB | 3520C | 8082 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 15-Mar-2012 | EB-NBZ-SS-031512 | C135-02 | EB | 3520C | 8270C | III |
| 15-Mar-2012 | EB-NBZ-SS-031512 | C135-02 | EB | 5030B | 8015B GRO | III |
| 15-Mar-2012 | EB-NBZ-SS-031512 | C135-02 | EB | 7470A | 7470A | III |
| 15-Mar-2012 | EB-NBZ-SS-031512 | C135-02 | EB | GEN PREP | 300.0 | III |
| 15-Mar-2012 | EB-NBZ-SS-031512 | C135-02 | EB | GEN PREP | 314.0 | III |
| 15-Mar-2012 | EB-NBZ-SS-031512 | C135-02 | EB | GEN PREP | 6020 | III |
| 15-Mar-2012 | EB-NBZ-SS-031512 | C135-02 | EB | GEN PREP | 7199 | III |
| 15-Mar-2012 | EB-NBZ-SS-031512 | C135-02 | EB | GEN PREP | 8015B | III |
| 15-Mar-2012 | EB-NBZ-SS-031512 | C135-02 | EB | GEN PREP | 8015M | III |
| 15-Mar-2012 | EB-NBZ-SS-031512 | C135-02 | EB | GEN PREP | 8151A | III |
| 15-Mar-2012 | EB-NBZ-SS-031512 | C135-02 | EB | GEN PREP | 8330A | III |
| 15-Mar-2012 | EB-NBZ-SS-031512 | C135-02 | EB | GEN PREP | 8332 | III |
| 15-Mar-2012 | EB-NBZ-SS-031512 | C135-02 | EB | GEN PREP | 9014 | III |
| 15-Mar-2012 | EB-NBZ-SS-031512 | C135-02R | EB | GEN PREP | 7199 | III |
| 15-Mar-2012 | EB-NBZ-SB-031512 | C135-01 | EB | 3520C | 8015B EFH | III |
| 15-Mar-2012 | EB-NBZ-SB-031512 | C135-01 | EB | 3520C | 8082 | III |
| 15-Mar-2012 | EB-NBZ-SB-031512 | C135-01 | EB | 3520C | 8270C | III |
| 15-Mar-2012 | EB-NBZ-SB-031512 | C135-01 | EB | 5030B | 8015B GRO | III |
| 15-Mar-2012 | EB-NBZ-SB-031512 | C135-01 | EB | 7470A | 7470A | III |
| 15-Mar-2012 | EB-NBZ-SB-031512 | C135-01 | EB | GEN PREP | 300.0 | III |
| 15-Mar-2012 | EB-NBZ-SB-031512 | C135-01 | EB | GEN PREP | 314.0 | III |
| 15-Mar-2012 | EB-NBZ-SB-031512 | C135-01 | EB | GEN PREP | 6020 | III |
| 15-Mar-2012 | EB-NBZ-SB-031512 | C135-01 | EB | GEN PREP | 7199 | III |
| 15-Mar-2012 | EB-NBZ-SB-031512 | C135-01 | EB | GEN PREP | 8015B | III |
| 15-Mar-2012 | EB-NBZ-SB-031512 | C135-01 | EB | GEN PREP | 8015M | III |
| 15-Mar-2012 | EB-NBZ-SB-031512 | C135-01 | EB | GEN PREP | 8330A | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 15-Mar-2012 | EB-NBZ-SB-031512 | C135-01 | EB | GEN PREP | 8332 | III |
| 15-Mar-2012 | EB-NBZ-SB-031512 | C135-01 | EB | GEN PREP | 9014 | III |
| 15-Mar-2012 | EB-NBZ-SB-031512 | C135-01R | EB | GEN PREP | 7199 | III |
| 15-Mar-2012 | SL-053-NBZ-SB-3.5-4.5 | C135-10 | N | 3550B | 8015B EFH | III |
| 15-Mar-2012 | SL-053-NBZ-SB-3.5-4.5 | C135-10 | N | 3550B | 8082 | III |
| 15-Mar-2012 | SL-053-NBZ-SB-3.5-4.5 | C135-10 | N | 3550B | 8270C | III |
| 15-Mar-2012 | SL-053-NBZ-SB-3.5-4.5 | C135-10 | N | 3550B | 8270C SIM | III |
| 15-Mar-2012 | SL-053-NBZ-SB-3.5-4.5 | C135-10 | N | 7471A | 7471A | III |
| 15-Mar-2012 | SL-053-NBZ-SB-3.5-4.5 | C135-10 | N | GEN PREP | 300.0 | III |
| 15-Mar-2012 | SL-053-NBZ-SB-3.5-4.5 | C135-10 | N | GEN PREP | 314.0 | III |
| 15-Mar-2012 | SL-053-NBZ-SB-3.5-4.5 | C135-10 | N | GEN PREP | 6020 | III |
| 15-Mar-2012 | SL-053-NBZ-SB-3.5-4.5 | C135-10 | N | GEN PREP | 7199 | III |
| 15-Mar-2012 | SL-053-NBZ-SB-3.5-4.5 | C135-10 | N | GEN PREP | 8015B | III |
| 15-Mar-2012 | SL-053-NBZ-SB-3.5-4.5 | C135-10 | N | GEN PREP | 8015M | III |
| 15-Mar-2012 | SL-053-NBZ-SB-3.5-4.5 | C135-10 | N | GEN PREP | 8330A | III |
| 15-Mar-2012 | SL-053-NBZ-SB-3.5-4.5 | C135-10 | N | GEN PREP | 8332 | III |
| 15-Mar-2012 | SL-053-NBZ-SB-3.5-4.5 | C135-10 | N | GEN PREP | 9014 | III |
| 15-Mar-2012 | SL-053-NBZ-SB-3.5-4.5 | C135-10R | N | GEN PREP | 7199 | III |
| 15-Mar-2012 | SL-053-NBZ-SB-3.5-4.5 | C135-10W | N | GEN PREP | 6020 | III |
| 15-Mar-2012 | SL-053-NBZ-SB-4.0 | C135-09 | N | 5035 | 8015B GRO | III |
| 15-Mar-2012 | SL-056-NBZ-SS-0.0-0.5 | C135-06 | N | 3550B | 8015B EFH | III |
| 15-Mar-2012 | SL-056-NBZ-SS-0.0-0.5 | C135-06 | N | 3550B | 8081A | III |
| 15-Mar-2012 | SL-056-NBZ-SS-0.0-0.5 | C135-06 | N | 3550B | 8270C | III |
| 15-Mar-2012 | SL-056-NBZ-SS-0.0-0.5 | C135-06 | N | 3550B | 8270C SIM | III |
| 15-Mar-2012 | SL-056-NBZ-SS-0.0-0.5 | C135-06 | N | 7471A | 7471A | III |
| 15-Mar-2012 | SL-056-NBZ-SS-0.0-0.5 | C135-06 | N | GEN PREP | 300.0 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 15-Mar-2012 | SL-056-NBZ-SS-0.0-0.5 | C135-06 | N | GEN PREP | 314.0 | III |
| 15-Mar-2012 | SL-056-NBZ-SS-0.0-0.5 | C135-06 | N | GEN PREP | 6020 | III |
| 15-Mar-2012 | SL-056-NBZ-SS-0.0-0.5 | C135-06 | N | GEN PREP | 7199 | III |
| 15-Mar-2012 | SL-056-NBZ-SS-0.0-0.5 | C135-06 | N | GEN PREP | 8015B | III |
| 15-Mar-2012 | SL-056-NBZ-SS-0.0-0.5 | C135-06 | N | GEN PREP | 8015M | III |
| 15-Mar-2012 | SL-056-NBZ-SS-0.0-0.5 | C135-06 | N | GEN PREP | 8151A | III |
| 15-Mar-2012 | SL-056-NBZ-SS-0.0-0.5 | C135-06 | N | GEN PREP | 8330A | III |
| 15-Mar-2012 | SL-056-NBZ-SS-0.0-0.5 | C135-06 | N | GEN PREP | 8332 | III |
| 15-Mar-2012 | SL-056-NBZ-SS-0.0-0.5 | C135-06 | N | GEN PREP | 9014 | III |
| 15-Mar-2012 | SL-056-NBZ-SS-0.0-0.5MS | C135-06M | MS | GEN PREP | 8151A | III |
| 15-Mar-2012 | SL-056-NBZ-SS-0.0-0.5 | C135-06R | N | GEN PREP | 7199 | III |
| 15-Mar-2012 | SL-056-NBZ-SS-0.0-0.5MSD | C135-06S | MSD | GEN PREP | 8151A | III |
| 15-Mar-2012 | SL-056-NBZ-SS-0.0-0.5 | C135-06W | N | 3550B | 8082 | III |
| 15-Mar-2012 | SL-056-NBZ-SS-0.0-0.5 | C135-06W | N | GEN PREP | 6020 | III |
| 15-Mar-2012 | SL-056-NBZ-SB-3.0-4.0 | C135-12 | N | 3550B | 8015B EFH | III |
| 15-Mar-2012 | SL-056-NBZ-SB-3.0-4.0 | C135-12 | N | 3550B | 8082 | III |
| 15-Mar-2012 | SL-056-NBZ-SB-3.0-4.0 | C135-12 | N | 3550B | 8270C | III |
| 15-Mar-2012 | SL-056-NBZ-SB-3.0-4.0 | C135-12 | N | 3550B | 8270C SIM | III |
| 15-Mar-2012 | SL-056-NBZ-SB-3.0-4.0 | C135-12 | N | 7471A | 7471A | III |
| 15-Mar-2012 | SL-056-NBZ-SB-3.0-4.0 | C135-12 | N | GEN PREP | 300.0 | III |
| 15-Mar-2012 | SL-056-NBZ-SB-3.0-4.0 | C135-12 | N | GEN PREP | 314.0 | III |
| 15-Mar-2012 | SL-056-NBZ-SB-3.0-4.0 | C135-12 | N | GEN PREP | 6020 | III |
| 15-Mar-2012 | SL-056-NBZ-SB-3.0-4.0 | C135-12 | N | GEN PREP | 7199 | III |
| 15-Mar-2012 | SL-056-NBZ-SB-3.0-4.0 | C135-12 | N | GEN PREP | 8015B | III |
| 15-Mar-2012 | SL-056-NBZ-SB-3.0-4.0 | C135-12 | N | GEN PREP | 8015M | III |
| 15-Mar-2012 | SL-056-NBZ-SB-3.0-4.0 | C135-12 | N | GEN PREP | 8330A | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 15-Mar-2012 | SL-056-NBZ-SB-3.0-4.0 | C135-12 | N | GEN PREP | 8332 | III |
| 15-Mar-2012 | SL-056-NBZ-SB-3.0-4.0 | C135-12 | N | GEN PREP | 9014 | III |
| 15-Mar-2012 | SL-056-NBZ-SB-3.0-4.0 | C135-12R | N | GEN PREP | 7199 | III |
| 15-Mar-2012 | SL-056-NBZ-SB-3.0-4.0 | C135-12W | N | GEN PREP | 6020 | III |
| 15-Mar-2012 | SL-056-NBZ-SB-3.5 | C135-11 | N | 5035 | 8015B GRO | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Attachment II

# Overall Data Qualification Summary

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C135** **Laboratory: EMXT**

**EDD Filename: Prep12C135R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category:** GENCHEM

**Method:** 300.0 **Matrix:** SO

**Sample ID:** SL-029-NBZ-SS-0.0-0.5 **Collected:** 3/15/2012 9:00:00 **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| Nitrite-NO2 | 0.977 | J | 0.773 | MDL | 1.55 | PQL | MG/KG | J | Z |

**Sample ID:** SL-053-NBZ-SB-3.5-4.5 **Collected:** 3/15/2012 3:00:00 **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.598 | J | 0.520 | MDL | 1.04 | PQL | MG/KG | J | Z |

**Sample ID:** SL-053-NBZ-SS-0.0-0.5 **Collected:** 3/15/2012 2:20:00 **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.549 | J | 0.510 | MDL | 1.02 | PQL | MG/KG | J | Z |

**Sample ID:** SL-056-NBZ-SB-3.0-4.0 **Collected:** 3/15/2012 3:50:00 **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.799 | J | 0.522 | MDL | 1.04 | PQL | MG/KG | J | Z |

**Sample ID:** SL-056-NBZ-SS-0.0-0.5 **Collected:** 3/15/2012 3:35:00 **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | 0.959 | J | 0.771 | MDL | 1.54 | PQL | MG/KG | J | Z |

**Sample ID:** SL-058-NBZ-SB-4.0-5.0 **Collected:** 3/15/2012 11:30:00 **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 1.03 | J | 0.527 | MDL | 1.05 | PQL | MG/KG | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID:** 12C135 **Laboratory:** EMXT

**EDD Filename:** Prep12C135R **eQAPP Name:** CDM_SSFL_120730_EMAX

**Method Category:** METALS

**Method:** 6020 **Matrix:** AQ

*Sample ID:* EB-NBZ-SB-031512 *Collected:* 3/15/2012 3:00:00 *Analysis Type:* RES/TOT *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ALUMINUM | 0.0225 | J | 0.0200 | MDL | 0.100 | PQL | MG/L | J | Z |
| COPPER | 0.000785 | J | 0.000500 | MDL | 0.00100 | PQL | MG/L | J | Z |

*Sample ID:* EB-NBZ-SS-031512 *Collected:* 3/15/2012 2:30:00 *Analysis Type:* RES/TOT *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ALUMINUM | 0.0277 | J | 0.0200 | MDL | 0.100 | PQL | MG/L | J | Z |

**Method Category:** METALS

**Method:** 6020 **Matrix:** SO

*Sample ID:* SL-029-NBZ-SS-0.0-0.5 *Collected:* 3/15/2012 9:00:00 *Analysis Type:* RE/TOT *Dilution:* 0.982

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BARIUM | 84.9 | | 0.202 | MDL | 0.405 | PQL | MG/KG | J | Q |
| MANGANESE | 245 | | 0.253 | MDL | 0.506 | PQL | MG/KG | J | E |
| SILVER | 0.0554 | J | 0.0506 | MDL | 0.101 | PQL | MG/KG | J | Z |
| SODIUM | 81.6 | J | 50.6 | MDL | 101 | PQL | MG/KG | J | Z |
| Zirconium | 5.06 | U | 2.53 | MDL | 5.06 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-052-NBZ-SS-0.0-0.5 *Collected:* 3/15/2012 12:05:00 *Analysis Type:* RE/TOT *Dilution:* 0.976

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BARIUM | 63.8 | | 0.200 | MDL | 0.400 | PQL | MG/KG | J | Q |
| MANGANESE | 214 | | 0.250 | MDL | 0.499 | PQL | MG/KG | J | E |
| SODIUM | 54.7 | J | 49.9 | MDL | 99.9 | PQL | MG/KG | J | Z |
| Zirconium | 4.99 | U | 2.50 | MDL | 4.99 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-052-NBZ-SS-0.0-0.5 *Collected:* 3/15/2012 12:05:00 *Analysis Type:* RES/TOT *Dilution:* 0.976

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BORON | 4.11 | J | 2.50 | MDL | 4.99 | PQL | MG/KG | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C135** **Laboratory: EMXT**

**EDD Filename: Prep12C135R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: METALS**

**Method: 6020** **Matrix: SO**

*Sample ID:* SL-053-NBZ-SB-3.5-4.5 *Collected:* 3/15/2012 3:00:00 *Analysis Type:* RE/TOT *Dilution:* 0.986

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BARIUM | 80.2 | | 0.205 | MDL | 0.410 | PQL | MG/KG | J | Q |
| CADMIUM | 0.0896 | J | 0.0512 | MDL | 0.102 | PQL | MG/KG | J | Z |
| MANGANESE | 282 | | 0.256 | MDL | 0.512 | PQL | MG/KG | J | E |
| SELENIUM | 0.323 | J | 0.205 | MDL | 0.410 | PQL | MG/KG | J | Z |
| SODIUM | 77.2 | J | 51.2 | MDL | 102 | PQL | MG/KG | J | Z |
| Zirconium | 5.12 | U | 2.56 | MDL | 5.12 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-053-NBZ-SS-0.0-0.5 *Collected:* 3/15/2012 2:20:00 *Analysis Type:* RE/TOT *Dilution:* 0.932

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BARIUM | 77.6 | | 0.190 | MDL | 0.380 | PQL | MG/KG | J | Q |
| MANGANESE | 221 | | 0.238 | MDL | 0.475 | PQL | MG/KG | J | E |
| SILVER | 0.0739 | J | 0.0475 | MDL | 0.0950 | PQL | MG/KG | J | Z |
| SODIUM | 49.2 | J | 47.5 | MDL | 95.0 | PQL | MG/KG | J | Z |
| Zirconium | 4.75 | U | 2.38 | MDL | 4.75 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-053-NBZ-SS-0.0-0.5 *Collected:* 3/15/2012 2:20:00 *Analysis Type:* RES/TOT *Dilution:* 0.932

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BORON | 2.60 | J | 2.38 | MDL | 4.75 | PQL | MG/KG | J | Z |

*Sample ID:* SL-056-NBZ-SB-3.0-4.0 *Collected:* 3/15/2012 3:50:00 *Analysis Type:* RE/TOT *Dilution:* 0.971

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BARIUM | 79.7 | | 0.203 | MDL | 0.405 | PQL | MG/KG | J | Q |
| MANGANESE | 315 | | 0.253 | MDL | 0.507 | PQL | MG/KG | J | E |
| SILVER | 0.0511 | J | 0.0507 | MDL | 0.101 | PQL | MG/KG | J | Z |
| SODIUM | 65.3 | J | 50.7 | MDL | 101 | PQL | MG/KG | J | Z |
| Zirconium | 5.07 | U | 2.53 | MDL | 5.07 | PQL | MG/KG | UJ | Q |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID:** 12C135 **Laboratory:** EMXT

**EDD Filename:** Prep12C135R **eQAPP Name:** CDM_SSFL_120730_EMAX

**Method Category:** METALS

**Method:** 6020 **Matrix:** SO

*Sample ID:* SL-056-NBZ-SS-0.0-0.5 *Collected:* 3/15/2012 3:35:00 *Analysis Type:* RE/TOT *Dilution:* 0.990

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BARIUM | 107 | | 0.203 | MDL | 0.407 | PQL | MG/KG | J | Q |
| MANGANESE | 337 | | 0.254 | MDL | 0.509 | PQL | MG/KG | J | E |
| SILVER | 0.0963 | J | 0.0509 | MDL | 0.102 | PQL | MG/KG | J | Z |
| SODIUM | 54.1 | J | 50.9 | MDL | 102 | PQL | MG/KG | J | Z |
| Zirconium | 5.09 | U | 2.54 | MDL | 5.09 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-056-NBZ-SS-0.0-0.5 *Collected:* 3/15/2012 3:35:00 *Analysis Type:* RES/TOT *Dilution:* 0.990

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BORON | 3.44 | J | 2.54 | MDL | 5.09 | PQL | MG/KG | J | Z |

*Sample ID:* SL-058-NBZ-SB-4.0-5.0 *Collected:* 3/15/2012 11:30:00 *Analysis Type:* RE/TOT *Dilution:* 0.998

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.154 | J | 0.105 | MDL | 0.211 | PQL | MG/KG | J | Z |
| BARIUM | 82.5 | | 0.211 | MDL | 0.421 | PQL | MG/KG | J | Q |
| MANGANESE | 190 | | 0.263 | MDL | 0.526 | PQL | MG/KG | J | E |
| SILVER | 0.0667 | J | 0.0526 | MDL | 0.105 | PQL | MG/KG | J | Z |
| SODIUM | 69.1 | J | 52.6 | MDL | 105 | PQL | MG/KG | J | Z |
| Zirconium | 5.26 | U | 2.63 | MDL | 5.26 | PQL | MG/KG | UJ | Q |

**Method Category:** SVOA

**Method:** 8015B EFH **Matrix:** SO

*Sample ID:* SL-029-NBZ-SS-0.0-0.5 *Collected:* 3/15/2012 9:00:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C15-C20) | 0.96 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C135** **Laboratory: EMXT**

**EDD Filename: Prep12C135R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: SVOA**

**Method: 8015B EFH** **Matrix: SO**

*Sample ID:* SL-053-NBZ-SB-3.5-4.5 *Collected:* 3/15/2012 3:00:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C21-C30) | 0.65 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |

*Sample ID:* SL-058-NBZ-SB-4.0-5.0 *Collected:* 3/15/2012 11:30:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C21-C30) | 0.67 | J | 0.53 | MDL | 1.1 | PQL | MG/KG | J | Z |
| EFH(C8-C11) | 0.54 | J | 0.53 | MDL | 1.1 | PQL | MG/KG | J | Z |

**Method Category: SVOA**

**Method: 8081A** **Matrix: SO**

*Sample ID:* SL-056-NBZ-SS-0.0-0.5 *Collected:* 3/15/2012 3:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| HEPTACHLOR | 0.10 | J | 0.087 | MDL | 0.17 | PQL | UG/KG | J | Z |

**Method Category: SVOA**

**Method: 8151A** **Matrix: SO**

*Sample ID:* SL-056-NBZ-SS-0.0-0.5 *Collected:* 3/15/2012 3:35:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| DICAMBA | 1.2 | U | 0.62 | MDL | 1.2 | PQL | UG/KG | UJ | Q |

**Method Category: SVOA**

**Method: 8270C SIM** **Matrix: SO**

*Sample ID:* SL-029-NBZ-SS-0.0-0.5 *Collected:* 3/15/2012 9:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTHRACENE | 1.2 | J | 0.88 | MDL | 1.8 | PQL | UG/KG | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID:** 12C135 **Laboratory:** EMXT

**EDD Filename:** Prep12C135R **eQAPP Name:** CDM_SSFL_120730_EMAX

**Method Category:** SVOA
**Method:** 8270C SIM **Matrix:** SO

***Sample ID:*** SL-052-NBZ-SS-0.0-0.5 ***Collected:*** 3/15/2012 12:05:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| DIBENZO(A,H)ANTHRACENE | 0.98 | J | 0.87 | MDL | 1.7 | PQL | UG/KG | J | Z |

***Sample ID:*** SL-053-NBZ-SS-0.0-0.5 ***Collected:*** 3/15/2012 2:20:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTHRACENE | 1.3 | J | 0.87 | MDL | 1.7 | PQL | UG/KG | J | Z |

***Sample ID:*** SL-056-NBZ-SS-0.0-0.5 ***Collected:*** 3/15/2012 3:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BIS(2-ETHYLHEXYL)PHTHALATE | 16 | J | 8.6 | MDL | 17 | PQL | UG/KG | J | Z |
| DIBENZO(A,H)ANTHRACENE | 1.5 | J | 0.87 | MDL | 1.7 | PQL | UG/KG | J | Z |

**Method Category:** SVOA
**Method:** 8330A **Matrix:** AQ

***Sample ID:*** EB-NBZ-SB-031512 ***Collected:*** 3/15/2012 3:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| HMX | 0.37 | J | 0.20 | MDL | 1.0 | PQL | UG/L | J | Z |

**Method Category:** VOA
**Method:** 8015B GRO **Matrix:** AQ

***Sample ID:*** EB-NBZ-SB-031512 ***Collected:*** 3/15/2012 3:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 30 | J | 10 | MDL | 50 | PQL | UG/L | U | T |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C135** **Laboratory: EMXT**

**EDD Filename: Prep12C135R** **eQAPP Name: CDM_SSFL_120730_EMAX**

***Method Category:*** **VOA**

***Method:*** **8015B GRO** ***Matrix:*** **AQ**

***Sample ID:*** **EB-NBZ-SS-031512** ***Collected:*** **3/15/2012 2:30:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

| *Analyte* | *Lab Result* | *Lab Qual* | *DL* | *DL Type* | *RL* | *RL Type* | *Units* | *Data Review Qual* | *Reason Code* |
|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 26 | J | 10 | MDL | 50 | PQL | UG/L | U | T |

***Sample ID:*** **TB-031512** ***Collected:*** **3/15/2012 12:00:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

| *Analyte* | *Lab Result* | *Lab Qual* | *DL* | *DL Type* | *RL* | *RL Type* | *Units* | *Data Review Qual* | *Reason Code* |
|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 34 | J | 10 | MDL | 50 | PQL | UG/L | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C135** **Laboratory: EMXT**

**EDD Filename: Prep12C135R** **eQAPP Name: CDM_SSFL_120730_EMAX**

## Reason Code Legend

| *Reason Code* | *Description* |
|---|---|
| E | Matrix Spike Precision |
| Q | Matrix Spike Lower Estimation |
| Q | Matrix Spike Precision |
| Q | Matrix Spike Upper Estimation |
| T | Trip Blank Contamination |
| Z | Reporting Limit Trace Value |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Enclosure I

# Level III ADR Outliers
# (including Manual Review Outliers)

# Quality Control
# Outlier Reports

# 12C135

# Trip Blank Outlier Report

**Lab Reporting Batch ID: 12C135** **Laboratory: EMXT**

**EDD Filename: 12C135R** **eQAPP Name: CDM_SSFL_120730_EMAX**

***Method:*** **8015B GRO**
***Matrix:*** **AQ**

| Trip Blank Sample ID | Collected Date | Analyte | Result | Associated Samples |
|---|---|---|---|---|
| TB-031512(RES) | 3/15/2012 12:00:00 AM | GASOLINE RANGE ORGANICS (C5-C12) | 34 UG/L | EB-NBZ-SB-031512<br>EB-NBZ-SS-031512<br>SL-029-NBZ-SS-0.0-0.5<br>SL-052-NBZ-SS-0.0-0.5<br>SL-053-NBZ-SB-3.5-4.5<br>SL-053-NBZ-SB-4.0<br>SL-053-NBZ-SS-0.0-0.5<br>SL-056-NBZ-SB-3.0-4.0<br>SL-056-NBZ-SB-3.5<br>SL-056-NBZ-SS-0.0-0.5<br>SL-058-NBZ-SB-4.0-5.0<br>SL-058-NBZ-SB-4.5 |

***The following samples and their listed target analytes were qualified due to contamination reported in this blank***

| Sample ID | Analyte | Reported Result | Modified Final Result |
|---|---|---|---|
| EB-NBZ-SB-031512(RES) | GASOLINE RANGE ORGANICS (C5-C12) | 30 UG/L | 50U UG/L |
| EB-NBZ-SS-031512(RES) | GASOLINE RANGE ORGANICS (C5-C12) | 26 UG/L | 50U UG/L |

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Matrix Spike/Matrix Spike Duplicate Outlier Report

**Lab Reporting Batch ID: 12C135** **Laboratory: EMXT**

**EDD Filename: 12C135R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 8151A**
**Matrix: SO**

| QC Sample ID (Associated Samples) | Compound | MS %R | MSD %R | %R Limits | RPD (Limits) | Affected Compounds | Flag |
|---|---|---|---|---|---|---|---|
| **SL-056-NBZ-SS-0.0-0.5MSD** (SL-056-NBZ-SS-0.0-0.5) | DICHLOROPROP | - | - | 60.00-150.00 | 56 (50.00) | DICHLOROPROP | J (all detects) |
| **SL-056-NBZ-SS-0.0-0.5MS SL-056-NBZ-SS-0.0-0.5MSD** (SL-056-NBZ-SS-0.0-0.5) | DICAMBA | 35 | 29 | 50.00-130.00 | - | DICAMBA | J(all detects) UJ(all non-detects) |

# Reporting Limit Outliers

**Lab Reporting Batch ID: 12C135** **Laboratory: EMXT**

**EDD Filename: 12C135R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 6020**
**Matrix: AQ**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| EB-NBZ-SB-031512 | ALUMINUM<br>COPPER | J<br>J | 0.0225<br>0.000785 | 0.100<br>0.00100 | PQL<br>PQL | MG/L<br>MG/L | J (all detects) |
| EB-NBZ-SS-031512 | ALUMINUM | J | 0.0277 | 0.100 | PQL | MG/L | J (all detects) |

**Method: 8015B GRO**
**Matrix: AQ**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| EB-NBZ-SB-031512 | GASOLINE RANGE ORGANICS (C5-C12) | J | 30 | 50 | PQL | UG/L | J (all detects) |
| EB-NBZ-SS-031512 | GASOLINE RANGE ORGANICS (C5-C12) | J | 26 | 50 | PQL | UG/L | J (all detects) |
| TB-031512 | GASOLINE RANGE ORGANICS (C5-C12) | J | 34 | 50 | PQL | UG/L | J (all detects) |

**Method: 8330A**
**Matrix: AQ**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| EB-NBZ-SB-031512 | HMX | J | 0.37 | 1.0 | PQL | UG/L | J (all detects) |

**Method: 300.0**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-029-NBZ-SS-0.0-0.5 | Nitrite-NO2 | J | 0.977 | 1.55 | PQL | MG/KG | J (all detects) |
| SL-053-NBZ-SB-3.5-4.5 | FLUORIDE | J | 0.598 | 1.04 | PQL | MG/KG | J (all detects) |
| SL-053-NBZ-SS-0.0-0.5 | FLUORIDE | J | 0.549 | 1.02 | PQL | MG/KG | J (all detects) |
| SL-056-NBZ-SB-3.0-4.0 | FLUORIDE | J | 0.799 | 1.04 | PQL | MG/KG | J (all detects) |
| SL-056-NBZ-SS-0.0-0.5 | Nitrate-NO3 | J | 0.959 | 1.54 | PQL | MG/KG | J (all detects) |
| SL-058-NBZ-SB-4.0-5.0 | FLUORIDE | J | 1.03 | 1.05 | PQL | MG/KG | J (all detects) |

**Method: 6020**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-029-NBZ-SS-0.0-0.5 | SILVER<br>SODIUM | J<br>J | 0.0554<br>81.6 | 0.101<br>101 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-052-NBZ-SS-0.0-0.5 | BORON<br>SODIUM | J<br>J | 4.11<br>54.7 | 4.99<br>99.9 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Reporting Limit Outliers

**Lab Reporting Batch ID: 12C135** **Laboratory: EMXT**

**EDD Filename: 12C135R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 6020**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-053-NBZ-SB-3.5-4.5 | CADMIUM | J | 0.0896 | 0.102 | PQL | MG/KG | J (all detects) |
| | SELENIUM | J | 0.323 | 0.410 | PQL | MG/KG | |
| | SODIUM | J | 77.2 | 102 | PQL | MG/KG | |
| SL-053-NBZ-SS-0.0-0.5 | BORON | J | 2.60 | 4.75 | PQL | MG/KG | J (all detects) |
| | SILVER | J | 0.0739 | 0.0950 | PQL | MG/KG | |
| | SODIUM | J | 49.2 | 95.0 | PQL | MG/KG | |
| SL-056-NBZ-SB-3.0-4.0 | SILVER | J | 0.0511 | 0.101 | PQL | MG/KG | J (all detects) |
| | SODIUM | J | 65.3 | 101 | PQL | MG/KG | |
| SL-056-NBZ-SS-0.0-0.5 | BORON | J | 3.44 | 5.09 | PQL | MG/KG | J (all detects) |
| | SILVER | J | 0.0963 | 0.102 | PQL | MG/KG | |
| | SODIUM | J | 54.1 | 102 | PQL | MG/KG | |
| SL-058-NBZ-SB-4.0-5.0 | ANTIMONY | J | 0.154 | 0.211 | PQL | MG/KG | J (all detects) |
| | SILVER | J | 0.0667 | 0.105 | PQL | MG/KG | |
| | SODIUM | J | 69.1 | 105 | PQL | MG/KG | |

**Method: 8015B EFH**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-029-NBZ-SS-0.0-0.5 | EFH(C15-C20) | J | 0.96 | 1.0 | PQL | MG/KG | J (all detects) |
| SL-053-NBZ-SB-3.5-4.5 | EFH(C21-C30) | J | 0.65 | 1.0 | PQL | MG/KG | J (all detects) |
| SL-058-NBZ-SB-4.0-5.0 | EFH(C21-C30) | J | 0.67 | 1.1 | PQL | MG/KG | J (all detects) |
| | EFH(C8-C11) | J | 0.54 | 1.1 | PQL | MG/KG | |

**Method: 8081A**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-056-NBZ-SS-0.0-0.5 | HEPTACHLOR | J | 0.10 | 0.17 | PQL | UG/KG | J (all detects) |

**Method: 8270C SIM**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-029-NBZ-SS-0.0-0.5 | ANTHRACENE | J | 1.2 | 1.8 | PQL | UG/KG | J (all detects) |
| SL-052-NBZ-SS-0.0-0.5 | DIBENZO(A,H)ANTHRACENE | J | 0.98 | 1.7 | PQL | UG/KG | J (all detects) |
| SL-053-NBZ-SS-0.0-0.5 | ANTHRACENE | J | 1.3 | 1.7 | PQL | UG/KG | J (all detects) |
| SL-056-NBZ-SS-0.0-0.5 | BIS(2-ETHYLHEXYL)PHTHALATE | J | 16 | 17 | PQL | UG/KG | J (all detects) |
| | DIBENZO(A,H)ANTHRACENE | J | 1.5 | 1.7 | PQL | UG/KG | |

LDC #: 28255B4
SDG #: 12C135
Laboratory: EMAX Laboratories, Inc.

# VALIDATION COMPLETENESS WORKSHEET
ADR

Date: 8-28-12
Page: 1 of 1
Reviewer: AR
2nd Reviewer: V

**METHOD:** Metals (EPA SW 846 Method ~~6010B~~/6020A/~~7000~~ 7471A/7470A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|---|---|---|---|
| I. | Technical holding times | — | Sampling dates: 3/15/12 |
| II. | ICP/MS Tune | — | |
| III. | Calibration | — | |
| IV. | Blanks | A | |
| V. | ICP Interference Check Sample (ICS) Analysis | — | |
| VI. | Matrix Spike Analysis | N | MS/D (Soil 6020 from 12C156) |
| VII. | Duplicate Sample Analysis | N | |
| VIII. | Laboratory Control Samples (LCS) | N | LCS/D |
| IX. | Internal Standard (ICP-MS) | N | |
| X. | Furnace Atomic Absorption QC | N | |
| XI. | ICP Serial Dilution | A | |
| XII. | Sample Result Verification | N | |
| XIII. | Overall Assessment of Data | N | |
| XIV. | Field Duplicates | — | |
| XV | Field Blanks | SW | EB = 1,2 |

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: soil/water

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | EB-NBZ-SB-031512 W | 11 | | 21 | | 31 | |
| 2 | EB-NBZ-SS-031512 ↓ | 12 | | 22 | | 32 | |
| 3 | SL-029-NBZ-SS-0.0-0.5 | 13 | | 23 | | 33 | |
| 4 | SL-052-NBZ-SS-0.0-0.5 | 14 | | 24 | | 34 | |
| 5 | SL-053-NBZ-SS-0.0-0.5 | 15 | | 25 | | 35 | |
| 6 | SL-056-NBZ-SS-0.0-0.5 | 16 | | 26 | | 36 | |
| 7 | SL-058-NBZ-SB-4.0-5.0 | 17 | | 27 | | 37 | |
| 8 | SL-053-NBZ-SB-3.5-4.5 | 18 | | 28 | | 38 | |
| 9 | SL-056-NBZ-SB-3.0-4.0 | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

LDC #: 28255B4

# VALIDATION FINDINGS WORKSHEET
## Field Blanks


Reviewer: [signature]
2nd Reviewer: [signature]

**METHOD:** Trace Metals (EPA SW846 6010B/7000)

**Blank units:** mg/L **Associated sample units:** mg/Kg
**Sampling date:** 3/15/12 Soil factor applied 50x
**Field blank type:** (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: 7-9

| Analyte | Blank ID | Sample Identification | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EB-NBZ-SB-031512 | Action Limit | No Qualifiers | | | | | | | | | | |
| Al | 0.0225 | 5.625 | | | | | | | | | | | |
| Cu | 0.000785 | 0.19625 | | | | | | | | | | | |

**Sampling date:** 3/15/12 Soil factor applied 50x
**Field blank type:** (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: 3-6

| Analyte | Blank ID | Sample Identification | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EB-NBZ-SS-031512 | Action Limit | No Qualifiers | | | | | | | | | | |
| Al | 0.0277 | 6.925 | | | | | | | | | | | |
| Cu | 0.00115 | 0.2875 | | | | | | | | | | | |

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

# SAMPLE DELIVERY GROUP

# 12C156

# Attachment I

# Sample ID Cross Reference and Data Review Level

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 16-Mar-2012 | TB-031612 | C156-08 | TB | 5030B | 8015B GRO | III |
| 16-Mar-2012 | SL-068-NBZ-SB-3.0 | C156-03 | N | 5035 | 8015B GRO | III |
| 16-Mar-2012 | SL-068-NBZ-SB-3.0MS | C156-03M | MS | 5035 | 8015B GRO | III |
| 16-Mar-2012 | SL-068-NBZ-SB-3.0MSD | C156-03S | MSD | 5035 | 8015B GRO | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5 | C156-04 | N | 3550B | 8015B EFH | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5 | C156-04 | N | 3550B | 8082 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5 | C156-04 | N | 3550B | 8270C | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5 | C156-04 | N | 3550B | 8270C SIM | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5 | C156-04 | N | 7471A | 7471A | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5 | C156-04 | N | GEN PREP | 300.0 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5 | C156-04 | N | GEN PREP | 314.0 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5 | C156-04 | N | GEN PREP | 6020 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5 | C156-04 | N | GEN PREP | 7199 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5 | C156-04 | N | GEN PREP | 8015B | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5 | C156-04 | N | GEN PREP | 8015M | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5 | C156-04 | N | GEN PREP | 8330A | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5 | C156-04 | N | GEN PREP | 8332 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5 | C156-04 | N | GEN PREP | 9014 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MS | C156-04G | MS | GEN PREP | 7199 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MS | C156-04G1 | MS | GEN PREP | 7199 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MSD | C156-04H | MSD | GEN PREP | 7199 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MSD | C156-04H1 | MSD | GEN PREP | 7199 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MS | C156-04M | MS | 3550B | 8015B EFH | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MS | C156-04M | MS | 3550B | 8082 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MS | C156-04M | MS | 3550B | 8270C | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MS | C156-04M | MS | 3550B | 8270C SIM | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MS | C156-04M | MS | 7471A | 7471A | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MS | C156-04M | MS | GEN PREP | 300.0 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MS | C156-04M | MS | GEN PREP | 314.0 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MS | C156-04M | MS | GEN PREP | 6020 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MS | C156-04M | MS | GEN PREP | 7199 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MS | C156-04M | MS | GEN PREP | 8015B | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MS | C156-04M | MS | GEN PREP | 8015M | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MS | C156-04M | MS | GEN PREP | 8330A | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MS | C156-04M | MS | GEN PREP | 8332 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MS | C156-04M | MS | GEN PREP | 9014 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5 | C156-04R | N | GEN PREP | 7199 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MSD | C156-04S | MSD | 3550B | 8015B EFH | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MSD | C156-04S | MSD | 3550B | 8082 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MSD | C156-04S | MSD | 3550B | 8270C | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MSD | C156-04S | MSD | 3550B | 8270C SIM | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MSD | C156-04S | MSD | 7471A | 7471A | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MSD | C156-04S | MSD | GEN PREP | 300.0 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MSD | C156-04S | MSD | GEN PREP | 314.0 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MSD | C156-04S | MSD | GEN PREP | 6020 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MSD | C156-04S | MSD | GEN PREP | 7199 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MSD | C156-04S | MSD | GEN PREP | 8015B | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MSD | C156-04S | MSD | GEN PREP | 8015M | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MSD | C156-04S | MSD | GEN PREP | 8330A | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MSD | C156-04S | MSD | GEN PREP | 8332 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5MSD | C156-04S | MSD | GEN PREP | 9014 | III |
| 16-Mar-2012 | SL-068-NBZ-SB-2.5-3.5 | C156-04W | N | GEN PREP | 6020 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 16-Mar-2012 | DUP-01-NBZ-QC-031612 | C156-07 | FD | 3550B | 8015B EFH | III |
| 16-Mar-2012 | DUP-01-NBZ-QC-031612 | C156-07 | FD | 3550B | 8082 | III |
| 16-Mar-2012 | DUP-01-NBZ-QC-031612 | C156-07 | FD | 3550B | 8270C | III |
| 16-Mar-2012 | DUP-01-NBZ-QC-031612 | C156-07 | FD | 3550B | 8270C SIM | III |
| 16-Mar-2012 | DUP-01-NBZ-QC-031612 | C156-07 | FD | 5035 | 8015B GRO | III |
| 16-Mar-2012 | DUP-01-NBZ-QC-031612 | C156-07 | FD | 7471A | 7471A | III |
| 16-Mar-2012 | DUP-01-NBZ-QC-031612 | C156-07 | FD | GEN PREP | 300.0 | III |
| 16-Mar-2012 | DUP-01-NBZ-QC-031612 | C156-07 | FD | GEN PREP | 314.0 | III |
| 16-Mar-2012 | DUP-01-NBZ-QC-031612 | C156-07 | FD | GEN PREP | 6020 | III |
| 16-Mar-2012 | DUP-01-NBZ-QC-031612 | C156-07 | FD | GEN PREP | 7199 | III |
| 16-Mar-2012 | DUP-01-NBZ-QC-031612 | C156-07 | FD | GEN PREP | 8015B | III |
| 16-Mar-2012 | DUP-01-NBZ-QC-031612 | C156-07 | FD | GEN PREP | 8015M | III |
| 16-Mar-2012 | DUP-01-NBZ-QC-031612 | C156-07 | FD | GEN PREP | 8330A | III |
| 16-Mar-2012 | DUP-01-NBZ-QC-031612 | C156-07 | FD | GEN PREP | 8332 | III |
| 16-Mar-2012 | DUP-01-NBZ-QC-031612 | C156-07 | FD | GEN PREP | 9014 | III |
| 16-Mar-2012 | DUP-01-NBZ-QC-031612 | C156-07R | FD | GEN PREP | 7199 | III |
| 16-Mar-2012 | DUP-01-NBZ-QC-031612 | C156-07W | FD | GEN PREP | 6020 | III |
| 16-Mar-2012 | SL-067-NBZ-SB-1.5-2.5 | C156-02 | N | 3550B | 8015B EFH | III |
| 16-Mar-2012 | SL-067-NBZ-SB-1.5-2.5 | C156-02 | N | 3550B | 8082 | III |
| 16-Mar-2012 | SL-067-NBZ-SB-1.5-2.5 | C156-02 | N | 7471A | 7471A | III |
| 16-Mar-2012 | SL-067-NBZ-SB-1.5-2.5 | C156-02 | N | GEN PREP | 300.0 | III |
| 16-Mar-2012 | SL-067-NBZ-SB-1.5-2.5 | C156-02 | N | GEN PREP | 314.0 | III |
| 16-Mar-2012 | SL-067-NBZ-SB-1.5-2.5 | C156-02 | N | GEN PREP | 6020 | III |
| 16-Mar-2012 | SL-067-NBZ-SB-1.5-2.5 | C156-02 | N | GEN PREP | 7199 | III |
| 16-Mar-2012 | SL-067-NBZ-SB-1.5-2.5 | C156-02 | N | GEN PREP | 8015B | III |
| 16-Mar-2012 | SL-067-NBZ-SB-1.5-2.5 | C156-02 | N | GEN PREP | 8015M | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 16-Mar-2012 | SL-067-NBZ-SB-1.5-2.5 | C156-02 | N | GEN PREP | 8330A | III |
| 16-Mar-2012 | SL-067-NBZ-SB-1.5-2.5 | C156-02 | N | GEN PREP | 8332 | III |
| 16-Mar-2012 | SL-067-NBZ-SB-1.5-2.5 | C156-02 | N | GEN PREP | 9014 | III |
| 16-Mar-2012 | SL-067-NBZ-SB-1.5-2.5 | C156-02R | N | 3550B | 8270C | III |
| 16-Mar-2012 | SL-067-NBZ-SB-1.5-2.5 | C156-02R | N | 3550B | 8270C SIM | III |
| 16-Mar-2012 | SL-067-NBZ-SB-1.5-2.5 | C156-02R | N | GEN PREP | 7199 | III |
| 16-Mar-2012 | SL-067-NBZ-SB-1.5-2.5 | C156-02W | N | GEN PREP | 6020 | III |
| 16-Mar-2012 | SL-067-NBZ-SB-2.0 | C156-01 | N | 5035 | 8015B GRO | III |
| 16-Mar-2012 | SL-072-NBZ-SB-4.0-5.0 | C156-06 | N | 3550B | 8015B EFH | III |
| 16-Mar-2012 | SL-072-NBZ-SB-4.0-5.0 | C156-06 | N | 3550B | 8082 | III |
| 16-Mar-2012 | SL-072-NBZ-SB-4.0-5.0 | C156-06 | N | 3550B | 8270C | III |
| 16-Mar-2012 | SL-072-NBZ-SB-4.0-5.0 | C156-06 | N | 3550B | 8270C SIM | III |
| 16-Mar-2012 | SL-072-NBZ-SB-4.0-5.0 | C156-06 | N | 7471A | 7471A | III |
| 16-Mar-2012 | SL-072-NBZ-SB-4.0-5.0 | C156-06 | N | GEN PREP | 300.0 | III |
| 16-Mar-2012 | SL-072-NBZ-SB-4.0-5.0 | C156-06 | N | GEN PREP | 314.0 | III |
| 16-Mar-2012 | SL-072-NBZ-SB-4.0-5.0 | C156-06 | N | GEN PREP | 6020 | III |
| 16-Mar-2012 | SL-072-NBZ-SB-4.0-5.0 | C156-06 | N | GEN PREP | 7199 | III |
| 16-Mar-2012 | SL-072-NBZ-SB-4.0-5.0 | C156-06 | N | GEN PREP | 8015B | III |
| 16-Mar-2012 | SL-072-NBZ-SB-4.0-5.0 | C156-06 | N | GEN PREP | 8015M | III |
| 16-Mar-2012 | SL-072-NBZ-SB-4.0-5.0 | C156-06 | N | GEN PREP | 8330A | III |
| 16-Mar-2012 | SL-072-NBZ-SB-4.0-5.0 | C156-06 | N | GEN PREP | 8332 | III |
| 16-Mar-2012 | SL-072-NBZ-SB-4.0-5.0 | C156-06 | N | GEN PREP | 9014 | III |
| 16-Mar-2012 | SL-072-NBZ-SB-4.0-5.0 | C156-06R | N | GEN PREP | 7199 | III |
| 16-Mar-2012 | SL-072-NBZ-SB-4.0-5.0 | C156-06W | N | GEN PREP | 6020 | III |
| 16-Mar-2012 | SL-072-NBZ-SB-4.5 | C156-05 | N | 5035 | 8015B GRO | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Attachment II

# Overall Data Qualification Summary

# Data Qualifier Summary

Lab Reporting Batch ID: 12C156 Laboratory: EMXT

EDD Filename: Prep12C156R eQAPP Name: CDM_SSFL_120730_EMAX

**Method Category: GENCHEM**

**Method: 300.0 Matrix: SO**

*Sample ID:* DUP-01-NBZ-QC-031612 *Collected:* 3/16/2012 10:25:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.857 | J | 0.552 | MDL | 1.10 | PQL | MG/KG | J | Z |

*Sample ID:* SL-067-NBZ-SB-1.5-2.5 *Collected:* 3/16/2012 11:45:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.944 | J | 0.543 | MDL | 1.09 | PQL | MG/KG | J | Z |
| Nitrate-NO3 | 0.962 | J | 0.814 | MDL | 1.63 | PQL | MG/KG | J | Z |

*Sample ID:* SL-068-NBZ-SB-2.5-3.5 *Collected:* 3/16/2012 10:15:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.847 | J | 0.549 | MDL | 1.10 | PQL | MG/KG | J | Z |

*Sample ID:* SL-072-NBZ-SB-4.0-5.0 *Collected:* 3/16/2012 2:45:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.572 | J | 0.559 | MDL | 1.12 | PQL | MG/KG | J | Z |

**Method Category: METALS**

**Method: 6020 Matrix: SO**

*Sample ID:* DUP-01-NBZ-QC-031612 *Collected:* 3/16/2012 10:25:00 *Analysis Type:* RE/TOT *Dilution:* 0.962

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.261 | | 0.106 | MDL | 0.213 | PQL | MG/KG | J | FD |
| ARSENIC | 10.7 | | 0.213 | MDL | 0.425 | PQL | MG/KG | J | FD |
| BARIUM | 55.5 | | 0.213 | MDL | 0.425 | PQL | MG/KG | J | Q |
| CADMIUM | 0.227 | | 0.0531 | MDL | 0.106 | PQL | MG/KG | J | FD |
| MANGANESE | 148 | | 0.266 | MDL | 0.531 | PQL | MG/KG | J | E |
| MOLYBDENUM | 0.762 | | 0.0531 | MDL | 0.106 | PQL | MG/KG | J | FD |
| SELENIUM | 0.225 | J | 0.213 | MDL | 0.425 | PQL | MG/KG | J | Z, FD |
| Zirconium | 5.31 | U | 2.66 | MDL | 5.31 | PQL | MG/KG | UJ | Q |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID:** 12C156 **Laboratory:** EMXT

**EDD Filename:** Prep12C156R **eQAPP Name:** CDM_SSFL_120730_EMAX

**Method Category:** METALS

**Method:** 6020 **Matrix:** SO

*Sample ID:* SL-067-NBZ-SB-1.5-2.5 *Collected:* 3/16/2012 11:45:00 *Analysis Type:* RE/TOT *Dilution:* 0.993

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.148 | J | 0.108 | MDL | 0.216 | PQL | MG/KG | J | Z |
| BARIUM | 54.7 | | 0.216 | MDL | 0.431 | PQL | MG/KG | J | Q |
| CADMIUM | 0.0633 | J | 0.0539 | MDL | 0.108 | PQL | MG/KG | J | Z |
| MANGANESE | 141 | | 0.270 | MDL | 0.539 | PQL | MG/KG | J | E |
| SODIUM | 90.7 | J | 53.9 | MDL | 108 | PQL | MG/KG | J | Z |
| Zirconium | 5.39 | U | 2.70 | MDL | 5.39 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-068-NBZ-SB-2.5-3.5 *Collected:* 3/16/2012 10:15:00 *Analysis Type:* RE/TOT *Dilution:* 0.988

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.145 | J | 0.108 | MDL | 0.217 | PQL | MG/KG | J | Z, FD |
| ARSENIC | 5.87 | | 0.217 | MDL | 0.434 | PQL | MG/KG | J | FD |
| BARIUM | 53.8 | | 0.217 | MDL | 0.434 | PQL | MG/KG | J | Q |
| CADMIUM | 0.0747 | J | 0.0542 | MDL | 0.108 | PQL | MG/KG | J | Z, FD |
| MANGANESE | 163 | | 0.271 | MDL | 0.542 | PQL | MG/KG | J | E |
| MOLYBDENUM | 0.434 | | 0.0542 | MDL | 0.108 | PQL | MG/KG | J | FD |
| SELENIUM | 0.434 | U | 0.217 | MDL | 0.434 | PQL | MG/KG | UJ | FD |
| SODIUM | 105 | J | 54.2 | MDL | 108 | PQL | MG/KG | J | Z |
| Zirconium | 5.42 | U | 2.71 | MDL | 5.42 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-072-NBZ-SB-4.0-5.0 *Collected:* 3/16/2012 2:45:00 *Analysis Type:* RE/TOT *Dilution:* 0.993

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.181 | J | 0.111 | MDL | 0.222 | PQL | MG/KG | J | Z |
| BARIUM | 63.0 | | 0.222 | MDL | 0.444 | PQL | MG/KG | J | Q |
| CADMIUM | 0.0966 | J | 0.0555 | MDL | 0.111 | PQL | MG/KG | J | Z |
| MANGANESE | 170 | | 0.278 | MDL | 0.555 | PQL | MG/KG | J | E |
| Zirconium | 5.55 | U | 2.78 | MDL | 5.55 | PQL | MG/KG | UJ | Q |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C156** **Laboratory: EMXT**

**EDD Filename: Prep12C156R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: SVOA**

**Method: 8015B EFH** **Matrix: SO**

*Sample ID:* DUP-01-NBZ-QC-031612 *Collected:* 3/16/2012 10:25:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C30-C40) | 0.73 | J | 0.55 | MDL | 1.1 | PQL | MG/KG | J | Z, FD |
| TOTAL EFH(C8-C40) | 0.73 | J | 0.55 | MDL | 1.1 | PQL | MG/KG | J | Z, FD |

*Sample ID:* SL-067-NBZ-SB-1.5-2.5 *Collected:* 3/16/2012 11:45:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C21-C30) | 0.76 | J | 0.54 | MDL | 1.1 | PQL | MG/KG | J | Z |

*Sample ID:* SL-068-NBZ-SB-2.5-3.5 *Collected:* 3/16/2012 10:15:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C30-C40) | 1.3 | | 0.55 | MDL | 1.1 | PQL | MG/KG | J | FD |
| TOTAL EFH(C8-C40) | 1.3 | | 0.55 | MDL | 1.1 | PQL | MG/KG | J | FD |

**Method Category: SVOA**

**Method: 8270C** **Matrix: SO**

*Sample ID:* SL-068-NBZ-SB-2.5-3.5 *Collected:* 3/16/2012 10:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-DICHLOROBENZENE | 180 | U | 92 | MDL | 180 | PQL | UG/KG | UJ | Q |
| 1,3-DICHLOROBENZENE | 180 | U | 92 | MDL | 180 | PQL | UG/KG | UJ | Q |
| BENZIDINE | 910 | U | 460 | MDL | 910 | PQL | UG/KG | R | Q |

**Method Category: VOA**

**Method: 8015B GRO** **Matrix: AQ**

*Sample ID:* TB-031612 *Collected:* 3/16/2012 8:00:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 42 | J | 10 | MDL | 50 | PQL | UG/L | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# *Data Qualifier Summary*

**Lab Reporting Batch ID: 12C156**

**Laboratory: EMXT**

**EDD Filename: Prep12C156R**

**eQAPP Name: CDM_SSFL_120730_EMAX**

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C156** **Laboratory: EMXT**

**EDD Filename: Prep12C156R** **eQAPP Name: CDM_SSFL_120730_EMAX**

## Reason Code Legend

| *Reason Code* | *Description* |
|---|---|
| E | Matrix Spike Precision |
| FD | Field Duplicate Precision |
| Q | Matrix Spike Lower Estimation |
| Q | Matrix Spike Lower Rejection |
| Q | Matrix Spike Precision |
| Q | Matrix Spike Upper Estimation |
| S | Surrogate/Tracer Recovery Lower Estimation |
| Z | Reporting Limit Trace Value |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Enclosure I

# Level III ADR Outliers
# (including Manual Review Outliers)

# Quality Control
# Outlier Reports

# 12C156

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 12C156 | Laboratory: EMXT

EDD Filename: 12C156R | eQAPP Name: CDM_SSFL_120730_EMAX

**Method: 6020**
**Matrix: SO**

| QC Sample ID (Associated Samples) | Compound | MS %R | MSD %R | %R Limits | RPD (Limits) | Affected Compounds | Flag |
|---|---|---|---|---|---|---|---|
| **SL-068-NBZ-SB-2.5-3.5MSD (TOT)** (DUP-01-NBZ-QC-031612 SL -067-NBZ-SB-1.5-2.5 SL -068-NBZ-SB-2.5-3.5 SL -072-NBZ-SB-4.0-5.0) | BARIUM | - | 135 | 75.00-125.00 | - | BARIUM | J (all detects) |
| **SL-068-NBZ-SB-2.5-3.5MS (TOT)** **SL-068-NBZ-SB-2.5-3.5MSD (TOT)** (DUP-01-NBZ-QC-031612 SL -067-NBZ-SB-1.5-2.5 SL -068-NBZ-SB-2.5-3.5 SL -072-NBZ-SB-4.0-5.0) | ALUMINUM<br>IRON<br>MANGANESE<br>TITANIUM<br>Zirconium | 67<br>55<br>52<br>66<br>71 | -<br>-<br>644<br>167<br>73 | 75.00-125.00<br>75.00-125.00<br>75.00-125.00<br>75.00-125.00<br>75.00-125.00 | -<br>-<br>62 (20.00)<br>-<br>- | ALUMINUM<br>IRON<br>MANGANESE<br>TITANIUM<br>Zirconium | J(all detects) UJ(all non-detects) Al, Fe, Mn, Ti, No Qual %R, >4x |

**Method: 8270C**
**Matrix: SO**

| QC Sample ID (Associated Samples) | Compound | MS %R | MSD %R | %R Limits | RPD (Limits) | Affected Compounds | Flag |
|---|---|---|---|---|---|---|---|
| **SL-068-NBZ-SB-2.5-3.5MS** **SL-068-NBZ-SB-2.5-3.5MSD** (SL-068-NBZ-SB-2.5-3.5) | BENZIDINE | 0 | 0 | 10.00-150.00 | - | BENZIDINE | J(all detects) R(all non-detects) |
| **SL-068-NBZ-SB-2.5-3.5MSD** (SL-068-NBZ-SB-2.5-3.5) | 1,2-DICHLOROBENZENE<br>1,3-DICHLOROBENZENE | -<br>- | 29<br>24 | 30.00-130.00<br>30.00-130.00 | -<br>- | 1,2-DICHLOROBENZENE<br>1,3-DICHLOROBENZENE | J(all detects) UJ(all non-detects) |

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Field Duplicate RPD Report

**Lab Reporting Batch ID: 12C156** **Laboratory: EMXT**

**EDD Filename: 12C156R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 300.0**
**Matrix: SO**

| Analyte | Concentration (MG/KG) | | Sample RPD | eQAPP RPD | Flag |
|---|---|---|---|---|---|
| | SL-068-NBZ-SB-2.5-3.5 | DUP-01-NBZ-QC-031612 | | | |
| FLUORIDE | 0.847 | 0.857 | 1 | 50.00 | No Qualifiers Applied |
| Nitrate-NO3 | 4.19 | 5.74 | 31 | 50.00 | |

**Method: 6020**
**Matrix: SO**

| Analyte | Concentration (MG/KG) | | Sample RPD | eQAPP RPD | Flag |
|---|---|---|---|---|---|
| | SL-068-NBZ-SB-2.5-3.5 (TOT) | DUP-01-NBZ-QC-031612 (TOT) | | | |
| ALUMINUM | 11900 | 12600 | 6 | 50.00 | No Qualifiers Applied |
| BARIUM | 53.8 | 55.5 | 3 | 50.00 | |
| BERYLLIUM | 0.647 | 0.598 | 8 | 50.00 | |
| CALCIUM | 1530 | 1670 | 9 | 50.00 | |
| CHROMIUM | 12.4 | 13.8 | 11 | 50.00 | |
| COBALT | 4.42 | 4.69 | 6 | 50.00 | |
| COPPER | 3.85 | 3.61 | 6 | 50.00 | |
| IRON | 20000 | 23100 | 14 | 50.00 | |
| LEAD | 4.58 | 5.28 | 14 | 50.00 | |
| LITHIUM | 16.8 | 18.3 | 9 | 50.00 | |
| MAGNESIUM | 3570 | 3880 | 8 | 50.00 | |
| MANGANESE | 163 | 148 | 10 | 50.00 | |
| NICKEL | 5.10 | 5.33 | 4 | 50.00 | |
| PHOSPHORUS | 130 | 114 | 13 | 50.00 | |
| POTASSIUM | 1590 | 1510 | 5 | 50.00 | |
| SODIUM | 105 | 119 | 12 | 50.00 | |
| STRONTIUM | 13.7 | 15.3 | 11 | 50.00 | |
| THALLIUM | 0.348 | 0.229 | 41 | 50.00 | |
| TITANIUM | 832 | 900 | 8 | 50.00 | |
| VANADIUM | 30.5 | 33.8 | 10 | 50.00 | |
| ZINC | 38.8 | 40.0 | 3 | 50.00 | |
| ANTIMONY | 0.145 | 0.261 | 57 | 50.00 | J(all detects) UJ(all non-detects) |
| ARSENIC | 5.87 | 10.7 | 58 | 50.00 | |
| CADMIUM | 0.0747 | 0.227 | 101 | 50.00 | |
| MOLYBDENUM | 0.434 | 0.762 | 55 | 50.00 | |
| SELENIUM | 0.434 U | 0.225 | 200 | 50.00 | |

**Method: 8015B EFH**
**Matrix: SO**

| Analyte | Concentration (MG/KG) | | Sample RPD | eQAPP RPD | Flag |
|---|---|---|---|---|---|
| | SL-068-NBZ-SB-2.5-3.5 | DUP-01-NBZ-QC-031612 | | | |
| EFH(C30-C40) | 1.3 | 0.73 | 56 | 50.00 | J(all detects) |
| TOTAL EFH(C8-C40) | 1.3 | 0.73 | 56 | 50.00 | |

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Reporting Limit Outliers

**Lab Reporting Batch ID: 12C156** **Laboratory: EMXT**

**EDD Filename: 12C156R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 8015B GRO**
**Matrix: AQ**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| TB-031612 | GASOLINE RANGE ORGANICS (C5-C12) | J | 42 | 50 | PQL | UG/L | J (all detects) |

**Method: 300.0**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| DUP-01-NBZ-QC-031612 | FLUORIDE | J | 0.857 | 1.10 | PQL | MG/KG | J (all detects) |
| SL-067-NBZ-SB-1.5-2.5 | FLUORIDE | J | 0.944 | 1.09 | PQL | MG/KG | J (all detects) |
| | Nitrate-NO3 | J | 0.962 | 1.63 | PQL | MG/KG | |
| SL-068-NBZ-SB-2.5-3.5 | FLUORIDE | J | 0.847 | 1.10 | PQL | MG/KG | J (all detects) |
| SL-072-NBZ-SB-4.0-5.0 | FLUORIDE | J | 0.572 | 1.12 | PQL | MG/KG | J (all detects) |

**Method: 6020**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| DUP-01-NBZ-QC-031612 | SELENIUM | J | 0.225 | 0.425 | PQL | MG/KG | J (all detects) |
| SL-067-NBZ-SB-1.5-2.5 | ANTIMONY | J | 0.148 | 0.216 | PQL | MG/KG | J (all detects) |
| | CADMIUM | J | 0.0633 | 0.108 | PQL | MG/KG | |
| | SODIUM | J | 90.7 | 108 | PQL | MG/KG | |
| SL-068-NBZ-SB-2.5-3.5 | ANTIMONY | J | 0.145 | 0.217 | PQL | MG/KG | J (all detects) |
| | CADMIUM | J | 0.0747 | 0.108 | PQL | MG/KG | |
| | SODIUM | J | 105 | 108 | PQL | MG/KG | |
| SL-072-NBZ-SB-4.0-5.0 | ANTIMONY | J | 0.181 | 0.222 | PQL | MG/KG | J (all detects) |
| | CADMIUM | J | 0.0966 | 0.111 | PQL | MG/KG | |

**Method: 8015B EFH**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| DUP-01-NBZ-QC-031612 | EFH(C30-C40) | J | 0.73 | 1.1 | PQL | MG/KG | J (all detects) |
| | TOTAL EFH(C8-C40) | J | 0.73 | 1.1 | PQL | MG/KG | |
| SL-067-NBZ-SB-1.5-2.5 | EFH(C21-C30) | J | 0.76 | 1.1 | PQL | MG/KG | J (all detects) |

LDC #: 28255C4 **VALIDATION COMPLETENESS WORKSHEET** Date: 8-28-12
SDG #: 12C156 ADR Page: 1 of 1
Laboratory: EMAX Laboratories, Inc. Reviewer: AL
2nd Reviewer: L

**METHOD:** Metals (EPA SW 846 Method ~~6010~~B/6020A/~~7000~~ 7471A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|---|---|---|---|
| I. | Technical holding times | — | Sampling dates: 3/16/12 |
| II. | ICP/MS Tune | — | |
| III. | Calibration | — | |
| IV. | Blanks | A | |
| V. | ICP Interference Check Sample (ICS) Analysis | — | |
| VI. | Matrix Spike Analysis | N | MS/D (Al, Fe, Mn, Ti >4X) → RPD out |
| VII. | Duplicate Sample Analysis | N | |
| VIII. | Laboratory Control Samples (LCS) | N | LCS/D |
| IX. | Internal Standard (ICP-MS) | N | |
| X. | Furnace Atomic Absorption QC | N | |
| XI. | ICP Serial Dilution | A | |
| XII. | Sample Result Verification | N | |
| XIII. | Overall Assessment of Data | N | |
| XIV. | Field Duplicates | — | |
| XV | Field Blanks | SW | EB: EB-NBZ-SB031512 \| 12C135 ~~EB-NBZ-SS-031512~~ / |

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: SOIL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | SL-067-NBZ-SB-1.5-2.5 | 11 | | 21 | | 31 | |
| 2 | SL-068-NBZ-SB-2.5-3.5 | 12 | | 22 | | 32 | |
| 3 | SL-072-NBZ-SB-4.0-5.0 | 13 | | 23 | | 33 | |
| 4 | DUP-01-NBZ-QC-031612 | 14 | | 24 | | 34 | |
| 5 | SL-068-NBZ-SB-2.5-3.5MS | 15 | | 25 | | 35 | |
| 6 | SL-068-NBZ-SB-2.5-3.5MSD | 16 | | 26 | | 36 | |
| 7 | | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

LDC #: 28255C4

# VALIDATION FINDINGS WORKSHEET
## Field Blanks


Reviewer: AL
2nd Reviewer: IA

**METHOD:** Trace Metals (EPA SW846 6010B/7000)

**Blank units:** mg/L **Associated sample units:** mg/Kg
**Sampling date:** 3/15/12 Soil factor applied 50x
**Field blank type:** (circle one) Field Blank / Rinsate / Other: Associated Samples: All

| Analyte | Blank ID | Sample Identification | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EB-NBZ-SB-031512 | Action Limit | No Qualifiers | | | | | | | | | | |
| Al | 0.0225 | 5.625 | | | | | | | | | | | |
| Cu | 0.000785 | 0.19625 | | | | | | | | | | | |

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

# SAMPLE DELIVERY GROUP

# 12C164

# Attachment I

# Sample ID Cross Reference and Data Review Level

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 19-Mar-2012 | TB-031912 | C164-09 | TB | 5030B | 8015B GRO | III |
| 19-Mar-2012 | SL-071-NBZ-SB-4.5 | C164-01 | N | 5035 | 8015B GRO | III |
| 19-Mar-2012 | SL-071-NBZ-SB-4.0-5.0 | C164-02 | N | 3550B | 8015B EFH | III |
| 19-Mar-2012 | SL-071-NBZ-SB-4.0-5.0 | C164-02 | N | 3550B | 8082 | III |
| 19-Mar-2012 | SL-071-NBZ-SB-4.0-5.0 | C164-02 | N | 3550B | 8270C | III |
| 19-Mar-2012 | SL-071-NBZ-SB-4.0-5.0 | C164-02 | N | 3550B | 8270C SIM | III |
| 19-Mar-2012 | SL-071-NBZ-SB-4.0-5.0 | C164-02 | N | 7471A | 7471A | III |
| 19-Mar-2012 | SL-071-NBZ-SB-4.0-5.0 | C164-02 | N | GEN PREP | 300.0 | III |
| 19-Mar-2012 | SL-071-NBZ-SB-4.0-5.0 | C164-02 | N | GEN PREP | 314.0 | III |
| 19-Mar-2012 | SL-071-NBZ-SB-4.0-5.0 | C164-02 | N | GEN PREP | 6020 | III |
| 19-Mar-2012 | SL-071-NBZ-SB-4.0-5.0 | C164-02 | N | GEN PREP | 7199 | III |
| 19-Mar-2012 | SL-071-NBZ-SB-4.0-5.0 | C164-02 | N | GEN PREP | 8015B | III |
| 19-Mar-2012 | SL-071-NBZ-SB-4.0-5.0 | C164-02 | N | GEN PREP | 8015M | III |
| 19-Mar-2012 | SL-071-NBZ-SB-4.0-5.0 | C164-02 | N | GEN PREP | 8330A | III |
| 19-Mar-2012 | SL-071-NBZ-SB-4.0-5.0 | C164-02 | N | GEN PREP | 8332 | III |
| 19-Mar-2012 | SL-071-NBZ-SB-4.0-5.0 | C164-02 | N | GEN PREP | 9014 | III |
| 19-Mar-2012 | SL-071-NBZ-SB-4.0-5.0MS | C164-02M | MS | 3550B | 8270C SIM | III |
| 19-Mar-2012 | SL-071-NBZ-SB-4.0-5.0 | C164-02R | N | GEN PREP | 7199 | III |
| 19-Mar-2012 | SL-071-NBZ-SB-4.0-5.0MSD | C164-02S | MSD | 3550B | 8270C SIM | III |
| 19-Mar-2012 | SL-074-NBZ-SB-1.0 | C164-03 | N | 5035 | 8015B GRO | III |
| 19-Mar-2012 | SL-074-NBZ-SB-0.5-1.5 | C164-04 | N | 3550B | 8015B EFH | III |
| 19-Mar-2012 | SL-074-NBZ-SB-0.5-1.5 | C164-04 | N | 3550B | 8082 | III |
| 19-Mar-2012 | SL-074-NBZ-SB-0.5-1.5 | C164-04 | N | 3550B | 8270C | III |
| 19-Mar-2012 | SL-074-NBZ-SB-0.5-1.5 | C164-04 | N | 3550B | 8270C SIM | III |
| 19-Mar-2012 | SL-074-NBZ-SB-0.5-1.5 | C164-04 | N | 7471A | 7471A | III |
| 19-Mar-2012 | SL-074-NBZ-SB-0.5-1.5 | C164-04 | N | GEN PREP | 300.0 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 19-Mar-2012 | SL-074-NBZ-SB-0.5-1.5 | C164-04 | N | GEN PREP | 314.0 | III |
| 19-Mar-2012 | SL-074-NBZ-SB-0.5-1.5 | C164-04 | N | GEN PREP | 6020 | III |
| 19-Mar-2012 | SL-074-NBZ-SB-0.5-1.5 | C164-04 | N | GEN PREP | 7199 | III |
| 19-Mar-2012 | SL-074-NBZ-SB-0.5-1.5 | C164-04 | N | GEN PREP | 8015B | III |
| 19-Mar-2012 | SL-074-NBZ-SB-0.5-1.5 | C164-04 | N | GEN PREP | 8015M | III |
| 19-Mar-2012 | SL-074-NBZ-SB-0.5-1.5 | C164-04 | N | GEN PREP | 8330A | III |
| 19-Mar-2012 | SL-074-NBZ-SB-0.5-1.5 | C164-04 | N | GEN PREP | 8332 | III |
| 19-Mar-2012 | SL-074-NBZ-SB-0.5-1.5 | C164-04 | N | GEN PREP | 9014 | III |
| 19-Mar-2012 | SL-074-NBZ-SB-0.5-1.5 | C164-04R | N | GEN PREP | 7199 | III |
| 19-Mar-2012 | SL-073-NBZ-SB-9.0-10.0 | C164-08 | N | 3550B | 8015B EFH | III |
| 19-Mar-2012 | SL-073-NBZ-SB-9.0-10.0 | C164-08 | N | 3550B | 8082 | III |
| 19-Mar-2012 | SL-073-NBZ-SB-9.0-10.0 | C164-08 | N | 3550B | 8270C | III |
| 19-Mar-2012 | SL-073-NBZ-SB-9.0-10.0 | C164-08 | N | 3550B | 8270C SIM | III |
| 19-Mar-2012 | SL-073-NBZ-SB-9.0-10.0 | C164-08 | N | 7471A | 7471A | III |
| 19-Mar-2012 | SL-073-NBZ-SB-9.0-10.0 | C164-08 | N | GEN PREP | 300.0 | III |
| 19-Mar-2012 | SL-073-NBZ-SB-9.0-10.0 | C164-08 | N | GEN PREP | 314.0 | III |
| 19-Mar-2012 | SL-073-NBZ-SB-9.0-10.0 | C164-08 | N | GEN PREP | 6020 | III |
| 19-Mar-2012 | SL-073-NBZ-SB-9.0-10.0 | C164-08 | N | GEN PREP | 7199 | III |
| 19-Mar-2012 | SL-073-NBZ-SB-9.0-10.0 | C164-08 | N | GEN PREP | 8015B | III |
| 19-Mar-2012 | SL-073-NBZ-SB-9.0-10.0 | C164-08 | N | GEN PREP | 8015M | III |
| 19-Mar-2012 | SL-073-NBZ-SB-9.0-10.0 | C164-08 | N | GEN PREP | 8330A | III |
| 19-Mar-2012 | SL-073-NBZ-SB-9.0-10.0 | C164-08 | N | GEN PREP | 8332 | III |
| 19-Mar-2012 | SL-073-NBZ-SB-9.0-10.0 | C164-08 | N | GEN PREP | 9014 | III |
| 19-Mar-2012 | SL-073-NBZ-SB-9.0-10.0 | C164-08R | N | GEN PREP | 7199 | III |
| 19-Mar-2012 | SL-073-NBZ-SB-9.5 | C164-07 | N | 5035 | 8015B GRO | III |
| 19-Mar-2012 | SL-073-NBZ-SB-4.0-5.0 | C164-06 | N | 3550B | 8015B EFH | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 19-Mar-2012 | SL-073-NBZ-SB-4.0-5.0 | C164-06 | N | 3550B | 8082 | III |
| 19-Mar-2012 | SL-073-NBZ-SB-4.0-5.0 | C164-06 | N | 3550B | 8270C | III |
| 19-Mar-2012 | SL-073-NBZ-SB-4.0-5.0 | C164-06 | N | 3550B | 8270C SIM | III |
| 19-Mar-2012 | SL-073-NBZ-SB-4.0-5.0 | C164-06 | N | 7471A | 7471A | III |
| 19-Mar-2012 | SL-073-NBZ-SB-4.0-5.0 | C164-06 | N | GEN PREP | 300.0 | III |
| 19-Mar-2012 | SL-073-NBZ-SB-4.0-5.0 | C164-06 | N | GEN PREP | 314.0 | III |
| 19-Mar-2012 | SL-073-NBZ-SB-4.0-5.0 | C164-06 | N | GEN PREP | 6020 | III |
| 19-Mar-2012 | SL-073-NBZ-SB-4.0-5.0 | C164-06 | N | GEN PREP | 7199 | III |
| 19-Mar-2012 | SL-073-NBZ-SB-4.0-5.0 | C164-06 | N | GEN PREP | 8015B | III |
| 19-Mar-2012 | SL-073-NBZ-SB-4.0-5.0 | C164-06 | N | GEN PREP | 8015M | III |
| 19-Mar-2012 | SL-073-NBZ-SB-4.0-5.0 | C164-06 | N | GEN PREP | 8330A | III |
| 19-Mar-2012 | SL-073-NBZ-SB-4.0-5.0 | C164-06 | N | GEN PREP | 8332 | III |
| 19-Mar-2012 | SL-073-NBZ-SB-4.0-5.0 | C164-06 | N | GEN PREP | 9014 | III |
| 19-Mar-2012 | SL-073-NBZ-SB-4.0-5.0 | C164-06R | N | GEN PREP | 7199 | III |
| 19-Mar-2012 | SL-073-NBZ-SB-4.5 | C164-05 | N | 5035 | 8015B GRO | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Attachment II

# Overall Data Qualification Summary

# Data Qualifier Summary

**Lab Reporting Batch ID:** 12C164 **Laboratory:** EMXT

**EDD Filename:** 12C164R **eQAPP Name:** CDM_SSFL_120730_EMAX

**Method Category:** GENCHEM

**Method:** 300.0 **Matrix:** SO

*Sample ID:* SL-073-NBZ-SB-4.0-5.0 *Collected:* 3/19/2012 2:40:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | 1.12 | J | 0.809 | MDL | 1.62 | PQL | MG/KG | J | Z |

**Method Category:** METALS

**Method:** 6020 **Matrix:** SO

*Sample ID:* SL-071-NBZ-SB-4.0-5.0 *Collected:* 3/19/2012 9:35:00 *Analysis Type:* RES/TOT *Dilution:* 0.990

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| CADMIUM | 0.101 | J | 0.0518 | MDL | 0.104 | PQL | MG/KG | J | Z |
| Zirconium | 5.18 | U | 2.59 | MDL | 5.18 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-073-NBZ-SB-4.0-5.0 *Collected:* 3/19/2012 2:40:00 *Analysis Type:* RES/TOT *Dilution:* 0.966

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.178 | J | 0.104 | MDL | 0.208 | PQL | MG/KG | J | Z |
| SODIUM | 83.8 | J | 52.1 | MDL | 104 | PQL | MG/KG | J | Z |
| Zirconium | 5.21 | U | 2.61 | MDL | 5.21 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-073-NBZ-SB-9.0-10.0 *Collected:* 3/19/2012 2:30:00 *Analysis Type:* RES/TOT *Dilution:* 0.990

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.212 | J | 0.109 | MDL | 0.218 | PQL | MG/KG | J | Z |
| Zirconium | 5.45 | U | 2.73 | MDL | 5.45 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-074-NBZ-SB-0.5-1.5 *Collected:* 3/19/2012 10:55:00 *Analysis Type:* RES/TOT *Dilution:* 0.971

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| CADMIUM | 0.0968 | J | 0.0504 | MDL | 0.101 | PQL | MG/KG | J | Z |
| SODIUM | 74.8 | J | 50.4 | MDL | 101 | PQL | MG/KG | J | Z |
| Zirconium | 5.04 | U | 2.52 | MDL | 5.04 | PQL | MG/KG | UJ | Q |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID:** 12C164 **Laboratory:** EMXT

**EDD Filename:** 12C164R **eQAPP Name:** CDM_SSFL_120730_EMAX

**Method Category:** SVOA

**Method:** 8015B EFH **Matrix:** SO

***Sample ID:*** SL-073-NBZ-SB-4.0-5.0 ***Collected:*** 3/19/2012 2:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C30-C40) | 0.69 | J | 0.54 | MDL | 1.1 | PQL | MG/KG | J | Z |
| TOTAL EFH(C8-C40) | 0.69 | J | 0.54 | MDL | 1.1 | PQL | MG/KG | J | Z |

***Sample ID:*** SL-074-NBZ-SB-0.5-1.5 ***Collected:*** 3/19/2012 10:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C21-C30) | 0.59 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |
| EFH(C30-C40) | 0.94 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |

**Method Category:** SVOA

**Method:** 8270C SIM **Matrix:** SO

***Sample ID:*** SL-071-NBZ-SB-4.0-5.0 ***Collected:*** 3/19/2012 9:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BIS(2-ETHYLHEXYL)PHTHALATE | 9.5 | J | 8.8 | MDL | 17 | PQL | UG/KG | J | Z |

**Method Category:** VOA

**Method:** 8015B GRO **Matrix:** AQ

***Sample ID:*** TB-031912 ***Collected:*** 3/19/2012 8:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 31 | J | 10 | MDL | 50 | PQL | UG/L | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C164** **Laboratory: EMXT**

**EDD Filename: 12C164R** **eQAPP Name: CDM_SSFL_120730_EMAX**

## Reason Code Legend

| *Reason Code* | *Description* |
|---|---|
| Q | Matrix Spike Lower Estimation |
| Z | Reporting Limit Trace Value |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Enclosure I

# Level III ADR Outliers
# (including Manual Review Outliers)

# Quality Control
# Outlier Reports

# 12C164

# Reporting Limit Outliers

**Lab Reporting Batch ID: 12C164** **Laboratory: EMXT**

**EDD Filename: 12C164R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 8015B GRO**
**Matrix: AQ**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| TB-031912 | GASOLINE RANGE ORGANICS (C5-C12) | J | 31 | 50 | PQL | UG/L | J (all detects) |

**Method: 300.0**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-073-NBZ-SB-4.0-5.0 | Nitrate-NO3 | J | 1.12 | 1.62 | PQL | MG/KG | J (all detects) |

**Method: 6020**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-071-NBZ-SB-4.0-5.0 | CADMIUM | J | 0.101 | 0.104 | PQL | MG/KG | J (all detects) |
| SL-073-NBZ-SB-4.0-5.0 | ANTIMONY<br>SODIUM | J<br>J | 0.178<br>83.8 | 0.208<br>104 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-073-NBZ-SB-9.0-10.0 | ANTIMONY | J | 0.212 | 0.218 | PQL | MG/KG | J (all detects) |
| SL-074-NBZ-SB-0.5-1.5 | CADMIUM<br>SODIUM | J<br>J | 0.0968<br>74.8 | 0.101<br>101 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |

**Method: 8015B EFH**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-073-NBZ-SB-4.0-5.0 | EFH(C30-C40)<br>TOTAL EFH(C8-C40) | J<br>J | 0.69<br>0.69 | 1.1<br>1.1 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-074-NBZ-SB-0.5-1.5 | EFH(C21-C30)<br>EFH(C30-C40) | J<br>J | 0.59<br>0.94 | 1.0<br>1.0 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |

**Method: 8270C SIM**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-071-NBZ-SB-4.0-5.0 | BIS(2-ETHYLHEXYL)PHTHALATE | J | 9.5 | 17 | PQL | UG/KG | J (all detects) |

LDC #: 28255D4

SDG #: 12C164

Laboratory: EMAX Laboratories, Inc.

# VALIDATION COMPLETENESS WORKSHEET

ADR

7471A

Date: 8-29-12

Page: 1 of 1

Reviewer: AL

2nd Reviewer: V

**METHOD:** Metals (EPA SW 846 Method ~~6010~~B/6020A/~~7000~~)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|---|---|---|---|
| I. | Technical holding times | ~~A~~ | Sampling dates: 3/19/12 |
| II. | ICP/MS Tune | — | |
| III. | Calibration | — | |
| IV. | Blanks | A | |
| V. | ICP Interference Check Sample (ICS) Analysis | — | |
| VI. | Matrix Spike Analysis | N | ~~SW~~ MS/D (from SDG: 12C209) |
| VII. | Duplicate Sample Analysis | N | |
| VIII. | Laboratory Control Samples (LCS) | N | LCS/D |
| IX. | Internal Standard (ICP-MS) | N | |
| X. | Furnace Atomic Absorption QC | N | |
| XI. | ICP Serial Dilution | A | |
| XII. | Sample Result Verification | N | |
| XIII. | Overall Assessment of Data | N | |
| XIV. | Field Duplicates | - | |
| XV | Field Blanks | SW | EB: EB-NBZ-SB-032212 (12C229) |

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: see

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | SL-071-NBZ-SB-4.0-5.0 | 11 | | 21 | | 31 | |
| 2 | SL-074-NBZ-SB-0.5-1.5 | 12 | | 22 | | 32 | |
| 3 | SL-073-NBZ-SB-4.0-5.0 | 13 | | 23 | | 33 | |
| 4 | SL-073-NBZ-SB-9.0-10.0 | 14 | | 24 | | 34 | |
| 5 | | 15 | | 25 | | 35 | |
| 6 | | 16 | | 26 | | 36 | |
| 7 | | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

LDC #: 28255D4

# VALIDATION FINDINGS WORKSHEET
## Field Blanks


Reviewer: ak
2nd Reviewer: [illegible]

**METHOD:** Trace Metals (EPA SW846 6010B/7000)

**Blank units:** mg/L **Associated sample units:** mg/Kg
**Sampling date:** 3/22/12 Soil factor applied 50x
**Field blank type:** (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: All

| Analyte | Blank ID | Sample Identification | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EB-NBZ-SB-032212 (SDG: 12C229) | Action Limit | No Qualifiers | | | | | | | | | | |
| Al | 0.0458 | 11.45 | | | | | | | | | | | |
| Ca | 0.0365 | 9.125 | | | | | | | | | | | |
| Cr | 0.000820 | 0.205 | | | | | | | | | | | |
| Cu | 0.00155 | 0.3875 | | | | | | | | | | | |
| Fe | 0.0177 | 4.425 | | | | | | | | | | | |
| Pb | 0.000121 | 0.03025 | | | | | | | | | | | |
| Mn | 0.000213 | 0.05325 | | | | | | | | | | | |
| Na | 0.0505 | 12.625 | | | | | | | | | | | |

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

# SAMPLE DELIVERY GROUP

# 12C182

# Attachment I

# Sample ID Cross Reference and Data Review Level

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 20-Mar-2012 | TB-032012 | C182-09 | TB | 5030B | 8015B GRO | III |
| 20-Mar-2012 | SL-075-NBZ-SS-0.0-0.5 | C182-04 | N | 3550B | 8015B EFH | III |
| 20-Mar-2012 | SL-075-NBZ-SS-0.0-0.5 | C182-04 | N | 3550B | 8081A | III |
| 20-Mar-2012 | SL-075-NBZ-SS-0.0-0.5 | C182-04 | N | 3550B | 8082 | III |
| 20-Mar-2012 | SL-075-NBZ-SS-0.0-0.5 | C182-04 | N | 3550B | 8270C | III |
| 20-Mar-2012 | SL-075-NBZ-SS-0.0-0.5 | C182-04 | N | 3550B | 8270C SIM | III |
| 20-Mar-2012 | SL-075-NBZ-SS-0.0-0.5 | C182-04 | N | 7471A | 7471A | III |
| 20-Mar-2012 | SL-075-NBZ-SS-0.0-0.5 | C182-04 | N | GEN PREP | 300.0 | III |
| 20-Mar-2012 | SL-075-NBZ-SS-0.0-0.5 | C182-04 | N | GEN PREP | 314.0 | III |
| 20-Mar-2012 | SL-075-NBZ-SS-0.0-0.5 | C182-04 | N | GEN PREP | 6020 | III |
| 20-Mar-2012 | SL-075-NBZ-SS-0.0-0.5 | C182-04 | N | GEN PREP | 6850 | III |
| 20-Mar-2012 | SL-075-NBZ-SS-0.0-0.5 | C182-04 | N | GEN PREP | 7199 | III |
| 20-Mar-2012 | SL-075-NBZ-SS-0.0-0.5 | C182-04 | N | GEN PREP | 8151A | III |
| 20-Mar-2012 | SL-075-NBZ-SS-0.0-0.5 | C182-04 | N | GEN PREP | 8330A | III |
| 20-Mar-2012 | SL-075-NBZ-SS-0.0-0.5 | C182-04 | N | GEN PREP | 8332 | III |
| 20-Mar-2012 | SL-075-NBZ-SS-0.0-0.5 | C182-04 | N | GEN PREP | 9014 | III |
| 20-Mar-2012 | SL-075-NBZ-SS-0.0-0.5 | C182-04R | N | GEN PREP | 7199 | III |
| 20-Mar-2012 | SL-076-NBZ-SS-0.0-0.5 | C182-05 | N | 3550B | 8015B EFH | III |
| 20-Mar-2012 | SL-076-NBZ-SS-0.0-0.5 | C182-05 | N | 3550B | 8081A | III |
| 20-Mar-2012 | SL-076-NBZ-SS-0.0-0.5 | C182-05 | N | 3550B | 8082 | III |
| 20-Mar-2012 | SL-076-NBZ-SS-0.0-0.5 | C182-05 | N | 3550B | 8270C | III |
| 20-Mar-2012 | SL-076-NBZ-SS-0.0-0.5 | C182-05 | N | 3550B | 8270C SIM | III |
| 20-Mar-2012 | SL-076-NBZ-SS-0.0-0.5 | C182-05 | N | 7471A | 7471A | III |
| 20-Mar-2012 | SL-076-NBZ-SS-0.0-0.5 | C182-05 | N | GEN PREP | 300.0 | III |
| 20-Mar-2012 | SL-076-NBZ-SS-0.0-0.5 | C182-05 | N | GEN PREP | 314.0 | III |
| 20-Mar-2012 | SL-076-NBZ-SS-0.0-0.5 | C182-05 | N | GEN PREP | 6020 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 20-Mar-2012 | SL-076-NBZ-SS-0.0-0.5 | C182-05 | N | GEN PREP | 7199 | III |
| 20-Mar-2012 | SL-076-NBZ-SS-0.0-0.5 | C182-05 | N | GEN PREP | 8151A | III |
| 20-Mar-2012 | SL-076-NBZ-SS-0.0-0.5 | C182-05 | N | GEN PREP | 8330A | III |
| 20-Mar-2012 | SL-076-NBZ-SS-0.0-0.5 | C182-05 | N | GEN PREP | 8332 | III |
| 20-Mar-2012 | SL-076-NBZ-SS-0.0-0.5 | C182-05 | N | GEN PREP | 9014 | III |
| 20-Mar-2012 | SL-076-NBZ-SS-0.0-0.5 | C182-05R | N | GEN PREP | 7199 | III |
| 20-Mar-2012 | SL-077-NBZ-SS-0.0-0.5 | C182-06 | N | 3550B | 8015B EFH | III |
| 20-Mar-2012 | SL-077-NBZ-SS-0.0-0.5 | C182-06 | N | 3550B | 8081A | III |
| 20-Mar-2012 | SL-077-NBZ-SS-0.0-0.5 | C182-06 | N | 3550B | 8082 | III |
| 20-Mar-2012 | SL-077-NBZ-SS-0.0-0.5 | C182-06 | N | 3550B | 8270C | III |
| 20-Mar-2012 | SL-077-NBZ-SS-0.0-0.5 | C182-06 | N | 3550B | 8270C SIM | III |
| 20-Mar-2012 | SL-077-NBZ-SS-0.0-0.5 | C182-06 | N | 7471A | 7471A | III |
| 20-Mar-2012 | SL-077-NBZ-SS-0.0-0.5 | C182-06 | N | GEN PREP | 300.0 | III |
| 20-Mar-2012 | SL-077-NBZ-SS-0.0-0.5 | C182-06 | N | GEN PREP | 314.0 | III |
| 20-Mar-2012 | SL-077-NBZ-SS-0.0-0.5 | C182-06 | N | GEN PREP | 6020 | III |
| 20-Mar-2012 | SL-077-NBZ-SS-0.0-0.5 | C182-06 | N | GEN PREP | 6850 | III |
| 20-Mar-2012 | SL-077-NBZ-SS-0.0-0.5 | C182-06 | N | GEN PREP | 7199 | III |
| 20-Mar-2012 | SL-077-NBZ-SS-0.0-0.5 | C182-06 | N | GEN PREP | 8151A | III |
| 20-Mar-2012 | SL-077-NBZ-SS-0.0-0.5 | C182-06 | N | GEN PREP | 8330A | III |
| 20-Mar-2012 | SL-077-NBZ-SS-0.0-0.5 | C182-06 | N | GEN PREP | 8332 | III |
| 20-Mar-2012 | SL-077-NBZ-SS-0.0-0.5 | C182-06 | N | GEN PREP | 9014 | III |
| 20-Mar-2012 | SL-077-NBZ-SS-0.0-0.5 | C182-06R | N | GEN PREP | 7199 | III |
| 20-Mar-2012 | SL-077-NBZ-SB-2.5-3.5 | C182-08 | N | 3550B | 8015B EFH | III |
| 20-Mar-2012 | SL-077-NBZ-SB-2.5-3.5 | C182-08 | N | 3550B | 8082 | III |
| 20-Mar-2012 | SL-077-NBZ-SB-2.5-3.5 | C182-08 | N | 3550B | 8270C | III |
| 20-Mar-2012 | SL-077-NBZ-SB-2.5-3.5 | C182-08 | N | 3550B | 8270C SIM | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 20-Mar-2012 | SL-077-NBZ-SB-2.5-3.5 | C182-08 | N | 7471A | 7471A | III |
| 20-Mar-2012 | SL-077-NBZ-SB-2.5-3.5 | C182-08 | N | GEN PREP | 300.0 | III |
| 20-Mar-2012 | SL-077-NBZ-SB-2.5-3.5 | C182-08 | N | GEN PREP | 314.0 | III |
| 20-Mar-2012 | SL-077-NBZ-SB-2.5-3.5 | C182-08 | N | GEN PREP | 6850 | III |
| 20-Mar-2012 | SL-077-NBZ-SB-2.5-3.5 | C182-08 | N | GEN PREP | 7199 | III |
| 20-Mar-2012 | SL-077-NBZ-SB-2.5-3.5 | C182-08 | N | GEN PREP | 8330A | III |
| 20-Mar-2012 | SL-077-NBZ-SB-2.5-3.5 | C182-08 | N | GEN PREP | 8332 | III |
| 20-Mar-2012 | SL-077-NBZ-SB-2.5-3.5 | C182-08 | N | GEN PREP | 9014 | III |
| 20-Mar-2012 | SL-077-NBZ-SB-2.5-3.5 | C182-08R | N | GEN PREP | 7199 | III |
| 20-Mar-2012 | SL-077-NBZ-SB-2.5-3.5 | C182-08T | N | GEN PREP | 6020 | III |
| 20-Mar-2012 | SL-077-NBZ-SB-2.5-3.5 | C182-08W | N | GEN PREP | 6020 | III |
| 20-Mar-2012 | SL-077-NBZ-SB-3.0 | C182-07 | N | 5035 | 8015B GRO | III |
| 20-Mar-2012 | SL-069-NBZ-SB-3.0-4.0 | C182-02 | N | 3550B | 8015B EFH | III |
| 20-Mar-2012 | SL-069-NBZ-SB-3.0-4.0 | C182-02 | N | 3550B | 8082 | III |
| 20-Mar-2012 | SL-069-NBZ-SB-3.0-4.0 | C182-02 | N | 3550B | 8270C | III |
| 20-Mar-2012 | SL-069-NBZ-SB-3.0-4.0 | C182-02 | N | 3550B | 8270C SIM | III |
| 20-Mar-2012 | SL-069-NBZ-SB-3.0-4.0 | C182-02 | N | 7471A | 7471A | III |
| 20-Mar-2012 | SL-069-NBZ-SB-3.0-4.0 | C182-02 | N | GEN PREP | 300.0 | III |
| 20-Mar-2012 | SL-069-NBZ-SB-3.0-4.0 | C182-02 | N | GEN PREP | 314.0 | III |
| 20-Mar-2012 | SL-069-NBZ-SB-3.0-4.0 | C182-02 | N | GEN PREP | 6020 | III |
| 20-Mar-2012 | SL-069-NBZ-SB-3.0-4.0 | C182-02 | N | GEN PREP | 7199 | III |
| 20-Mar-2012 | SL-069-NBZ-SB-3.0-4.0 | C182-02 | N | GEN PREP | 8015B | III |
| 20-Mar-2012 | SL-069-NBZ-SB-3.0-4.0 | C182-02 | N | GEN PREP | 8015M | III |
| 20-Mar-2012 | SL-069-NBZ-SB-3.0-4.0 | C182-02 | N | GEN PREP | 8330A | III |
| 20-Mar-2012 | SL-069-NBZ-SB-3.0-4.0 | C182-02 | N | GEN PREP | 8332 | III |
| 20-Mar-2012 | SL-069-NBZ-SB-3.0-4.0 | C182-02 | N | GEN PREP | 9014 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 20-Mar-2012 | SL-069-NBZ-SB-3.0-4.0 | C182-02R | N | GEN PREP | 7199 | III |
| 20-Mar-2012 | SL-069-NBZ-SB-3.5 | C182-01 | N | 5035 | 8015B GRO | III |
| 20-Mar-2012 | SL-070-NBZ-SS-0.0-0.5 | C182-03 | N | 3550B | 8081A | III |
| 20-Mar-2012 | SL-070-NBZ-SS-0.0-0.5 | C182-03 | N | 3550B | 8082 | III |
| 20-Mar-2012 | SL-070-NBZ-SS-0.0-0.5 | C182-03 | N | 3550B | 8270C | III |
| 20-Mar-2012 | SL-070-NBZ-SS-0.0-0.5 | C182-03 | N | 3550B | 8270C SIM | III |
| 20-Mar-2012 | SL-070-NBZ-SS-0.0-0.5 | C182-03 | N | 7471A | 7471A | III |
| 20-Mar-2012 | SL-070-NBZ-SS-0.0-0.5 | C182-03 | N | GEN PREP | 300.0 | III |
| 20-Mar-2012 | SL-070-NBZ-SS-0.0-0.5 | C182-03 | N | GEN PREP | 314.0 | III |
| 20-Mar-2012 | SL-070-NBZ-SS-0.0-0.5 | C182-03 | N | GEN PREP | 6020 | III |
| 20-Mar-2012 | SL-070-NBZ-SS-0.0-0.5 | C182-03 | N | GEN PREP | 6850 | III |
| 20-Mar-2012 | SL-070-NBZ-SS-0.0-0.5 | C182-03 | N | GEN PREP | 7199 | III |
| 20-Mar-2012 | SL-070-NBZ-SS-0.0-0.5 | C182-03 | N | GEN PREP | 8015B | III |
| 20-Mar-2012 | SL-070-NBZ-SS-0.0-0.5 | C182-03 | N | GEN PREP | 8015M | III |
| 20-Mar-2012 | SL-070-NBZ-SS-0.0-0.5 | C182-03 | N | GEN PREP | 8151A | III |
| 20-Mar-2012 | SL-070-NBZ-SS-0.0-0.5 | C182-03R | N | GEN PREP | 7199 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Attachment II

# Overall Data Qualification Summary

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C182** **Laboratory: EMXT**

**EDD Filename: 12C182R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: GENCHEM**

**Method: 300.0** **Matrix: SO**

***Sample ID:*** SL-075-NBZ-SS-0.0-0.5 ***Collected:*** 3/20/2012 9:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.597 | J | 0.548 | MDL | 1.10 | PQL | MG/KG | J | Z |

***Sample ID:*** SL-076-NBZ-SS-0.0-0.5 ***Collected:*** 3/20/2012 9:35:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 1.13 | J | 0.573 | MDL | 1.15 | PQL | MG/KG | J | Z |

***Sample ID:*** SL-077-NBZ-SB-2.5-3.5 ***Collected:*** 3/20/2012 10:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | 0.912 | J | 0.799 | MDL | 1.60 | PQL | MG/KG | J | Z |

***Sample ID:*** SL-077-NBZ-SS-0.0-0.5 ***Collected:*** 3/20/2012 10:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.882 | J | 0.581 | MDL | 1.16 | PQL | MG/KG | J | Z |

**Method Category: METALS**

**Method: 6020** **Matrix: SO**

***Sample ID:*** SL-069-NBZ-SB-3.0-4.0 ***Collected:*** 3/20/2012 2:30:00 ***Analysis Type:*** RES/TOT ***Dilution:*** 0.980

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.138 | J | 0.103 | MDL | 0.206 | PQL | MG/KG | J | Z |
| CADMIUM | 0.0901 | J | 0.0514 | MDL | 0.103 | PQL | MG/KG | J | Z |
| SODIUM | 78.7 | J | 51.4 | MDL | 103 | PQL | MG/KG | J | Z |
| Zirconium | 5.14 | U | 2.57 | MDL | 5.14 | PQL | MG/KG | UJ | Q |

***Sample ID:*** SL-070-NBZ-SS-0.0-0.5 ***Collected:*** 3/20/2012 3:25:00 ***Analysis Type:*** RES/TOT ***Dilution:*** 0.971

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| SODIUM | 69.3 | J | 55.4 | MDL | 111 | PQL | MG/KG | J | Z |
| Zirconium | 5.54 | U | 2.77 | MDL | 5.54 | PQL | MG/KG | UJ | Q |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID:** 12C182 **Laboratory:** EMXT

**EDD Filename:** 12C182R **eQAPP Name:** CDM_SSFL_120730_EMAX

**Method Category:** METALS

**Method:** 6020 **Matrix:** SO

**Sample ID:** SL-075-NBZ-SS-0.0-0.5 **Collected:** 3/20/2012 9:00:00 **Analysis Type:** RES/TOT **Dilution:** 0.985

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| SODIUM | 69.0 | J | 54.0 | MDL | 108 | PQL | MG/KG | J | Z |
| Zirconium | 5.40 | U | 2.70 | MDL | 5.40 | PQL | MG/KG | UJ | Q |

**Sample ID:** SL-076-NBZ-SS-0.0-0.5 **Collected:** 3/20/2012 9:35:00 **Analysis Type:** RES/TOT **Dilution:** 0.971

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| SILVER | 0.0616 | J | 0.0556 | MDL | 0.111 | PQL | MG/KG | J | Z |
| SODIUM | 91.6 | J | 55.6 | MDL | 111 | PQL | MG/KG | J | Z |
| Zirconium | 5.56 | U | 2.78 | MDL | 5.56 | PQL | MG/KG | UJ | Q |

**Sample ID:** SL-077-NBZ-SB-2.5-3.5 **Collected:** 3/20/2012 10:50:00 **Analysis Type:** RES/TOT **Dilution:** 0.990

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| SELENIUM | 0.336 | J | 0.211 | MDL | 0.422 | PQL | MG/KG | J | Z |
| Zirconium | 5.27 | U | 2.64 | MDL | 5.27 | PQL | MG/KG | UJ | Q |

**Sample ID:** SL-077-NBZ-SS-0.0-0.5 **Collected:** 3/20/2012 10:20:00 **Analysis Type:** RES/TOT **Dilution:** 0.962

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| SILVER | 0.0597 | J | 0.0559 | MDL | 0.112 | PQL | MG/KG | J | Z |
| SODIUM | 62.5 | J | 55.9 | MDL | 112 | PQL | MG/KG | J | Z |
| Zirconium | 5.59 | U | 2.80 | MDL | 5.59 | PQL | MG/KG | UJ | Q |

**Method Category:** SVOA

**Method:** 8015B EFH **Matrix:** SO

**Sample ID:** SL-069-NBZ-SB-3.0-4.0 **Collected:** 3/20/2012 2:30:00 **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C21-C30) | 0.59 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |
| EFH(C30-C40) | 0.80 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C182** **Laboratory: EMXT**

**EDD Filename: 12C182R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: SVOA**

**Method: 8015B EFH** **Matrix: SO**

*Sample ID:* SL-075-NBZ-SS-0.0-0.5 *Collected:* 3/20/2012 9:00:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C8-C11) | 0.58 | J | 0.55 | MDL | 1.1 | PQL | MG/KG | J | Z |

*Sample ID:* SL-077-NBZ-SS-0.0-0.5 *Collected:* 3/20/2012 10:20:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C12-C14) | 0.63 | J | 0.58 | MDL | 1.2 | PQL | MG/KG | J | Z |

**Method Category: SVOA**

**Method: 8081A** **Matrix: SO**

*Sample ID:* SL-070-NBZ-SS-0.0-0.5 *Collected:* 3/20/2012 3:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDT | 0.21 | J | 0.19 | MDL | 0.39 | PQL | UG/KG | J | Z |

*Sample ID:* SL-075-NBZ-SS-0.0-0.5 *Collected:* 3/20/2012 9:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDT | 0.24 | J | 0.19 | MDL | 0.37 | PQL | UG/KG | J | Z |

**Method Category: SVOA**

**Method: 8270C SIM** **Matrix: SO**

*Sample ID:* SL-070-NBZ-SS-0.0-0.5 *Collected:* 3/20/2012 3:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BENZO(A)PYRENE | 1.1 | J | 0.97 | MDL | 1.9 | PQL | UG/KG | J | Z |
| BENZO(B)FLUORANTHENE | 1.6 | J | 0.97 | MDL | 1.9 | PQL | UG/KG | J | Z |
| BENZO(G,H,I)PERYLENE | 1.2 | J | 0.97 | MDL | 1.9 | PQL | UG/KG | J | Z |
| BIS(2-ETHYLHEXYL)PHTHALATE | 11 | J | 9.6 | MDL | 19 | PQL | UG/KG | J | Z |
| CHRYSENE | 1.1 | J | 0.97 | MDL | 1.9 | PQL | UG/KG | J | Z |
| PYRENE | 1.7 | J | 0.97 | MDL | 1.9 | PQL | UG/KG | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C182** **Laboratory: EMXT**

**EDD Filename: 12C182R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: SVOA**

**Method: 8270C SIM** **Matrix: SO**

*Sample ID:* SL-075-NBZ-SS-0.0-0.5 *Collected:* 3/20/2012 9:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BENZO(G,H,I)PERYLENE | 1.3 | J | 0.93 | MDL | 1.9 | PQL | UG/KG | J | Z |
| BIS(2-ETHYLHEXYL)PHTHALATE | 12 | J | 9.2 | MDL | 18 | PQL | UG/KG | J | Z |
| CHRYSENE | 1.1 | J | 0.93 | MDL | 1.9 | PQL | UG/KG | J | Z |
| PHENANTHRENE | 1.1 | J | 0.93 | MDL | 1.9 | PQL | UG/KG | J | Z |
| PYRENE | 1.8 | J | 0.93 | MDL | 1.9 | PQL | UG/KG | J | Z |

*Sample ID:* SL-077-NBZ-SS-0.0-0.5 *Collected:* 3/20/2012 10:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| CHRYSENE | 1.8 | J | 0.99 | MDL | 2.0 | PQL | UG/KG | J | Z |
| PHENANTHRENE | 1.3 | J | 0.99 | MDL | 2.0 | PQL | UG/KG | J | Z |

**Method Category: VOA**

**Method: 8015B GRO** **Matrix: AQ**

*Sample ID:* TB-032012 *Collected:* 3/20/2012 8:00:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 26 | J | 10 | MDL | 50 | PQL | UG/L | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C182** **Laboratory: EMXT**

**EDD Filename: 12C182R** **eQAPP Name: CDM_SSFL_120730_EMAX**

## Reason Code Legend

| *Reason Code* | *Description* |
|---|---|
| Q | Matrix Spike Lower Estimation |
| Z | Reporting Limit Trace Value |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Enclosure I

# Level III ADR Outliers
# (including Manual Review Outliers)

# Quality Control Outlier Reports

# 12C182

# Reporting Limit Outliers

**Lab Reporting Batch ID: 12C182** **Laboratory: EMXT**

**EDD Filename: 12C182R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 8015B GRO**
**Matrix: AQ**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| TB-032012 | GASOLINE RANGE ORGANICS (C5-C12) | J | 26 | 50 | PQL | UG/L | J (all detects) |

**Method: 300.0**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-075-NBZ-SS-0.0-0.5 | FLUORIDE | J | 0.597 | 1.10 | PQL | MG/KG | J (all detects) |
| SL-076-NBZ-SS-0.0-0.5 | FLUORIDE | J | 1.13 | 1.15 | PQL | MG/KG | J (all detects) |
| SL-077-NBZ-SB-2.5-3.5 | Nitrate-NO3 | J | 0.912 | 1.60 | PQL | MG/KG | J (all detects) |
| SL-077-NBZ-SS-0.0-0.5 | FLUORIDE | J | 0.882 | 1.16 | PQL | MG/KG | J (all detects) |

**Method: 6020**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-069-NBZ-SB-3.0-4.0 | ANTIMONY<br>CADMIUM<br>SODIUM | J<br>J<br>J | 0.138<br>0.0901<br>78.7 | 0.206<br>0.103<br>103 | PQL<br>PQL<br>PQL | MG/KG<br>MG/KG<br>MG/KG | J (all detects) |
| SL-070-NBZ-SS-0.0-0.5 | SODIUM | J | 69.3 | 111 | PQL | MG/KG | J (all detects) |
| SL-075-NBZ-SS-0.0-0.5 | SODIUM | J | 69.0 | 108 | PQL | MG/KG | J (all detects) |
| SL-076-NBZ-SS-0.0-0.5 | SILVER<br>SODIUM | J<br>J | 0.0616<br>91.6 | 0.111<br>111 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-077-NBZ-SB-2.5-3.5 | SELENIUM | J | 0.336 | 0.422 | PQL | MG/KG | J (all detects) |
| SL-077-NBZ-SS-0.0-0.5 | SILVER<br>SODIUM | J<br>J | 0.0597<br>62.5 | 0.112<br>112 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |

**Method: 8015B EFH**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-069-NBZ-SB-3.0-4.0 | EFH(C21-C30)<br>EFH(C30-C40) | J<br>J | 0.59<br>0.80 | 1.0<br>1.0 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-075-NBZ-SS-0.0-0.5 | EFH(C8-C11) | J | 0.58 | 1.1 | PQL | MG/KG | J (all detects) |
| SL-077-NBZ-SS-0.0-0.5 | EFH(C12-C14) | J | 0.63 | 1.2 | PQL | MG/KG | J (all detects) |

# Reporting Limit Outliers

**Lab Reporting Batch ID: 12C182** **Laboratory: EMXT**

**EDD Filename: 12C182R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 8081A**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-070-NBZ-SS-0.0-0.5 | 4,4'-DDT | J | 0.21 | 0.39 | PQL | UG/KG | J (all detects) |
| SL-075-NBZ-SS-0.0-0.5 | 4,4'-DDT | J | 0.24 | 0.37 | PQL | UG/KG | J (all detects) |

**Method: 8270C SIM**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-070-NBZ-SS-0.0-0.5 | BENZO(A)PYRENE | J | 1.1 | 1.9 | PQL | UG/KG | J (all detects) |
| | BENZO(B)FLUORANTHENE | J | 1.6 | 1.9 | PQL | UG/KG | |
| | BENZO(G,H,I)PERYLENE | J | 1.2 | 1.9 | PQL | UG/KG | |
| | BIS(2-ETHYLHEXYL)PHTHALATE | J | 11 | 19 | PQL | UG/KG | |
| | CHRYSENE | J | 1.1 | 1.9 | PQL | UG/KG | |
| | PYRENE | J | 1.7 | 1.9 | PQL | UG/KG | |
| SL-075-NBZ-SS-0.0-0.5 | BENZO(G,H,I)PERYLENE | J | 1.3 | 1.9 | PQL | UG/KG | J (all detects) |
| | BIS(2-ETHYLHEXYL)PHTHALATE | J | 12 | 18 | PQL | UG/KG | |
| | CHRYSENE | J | 1.1 | 1.9 | PQL | UG/KG | |
| | PHENANTHRENE | J | 1.1 | 1.9 | PQL | UG/KG | |
| | PYRENE | J | 1.8 | 1.9 | PQL | UG/KG | |
| SL-077-NBZ-SS-0.0-0.5 | CHRYSENE | J | 1.8 | 2.0 | PQL | UG/KG | J (all detects) |
| | PHENANTHRENE | J | 1.3 | 2.0 | PQL | UG/KG | |

LDC #: 28255E4 **VALIDATION COMPLETENESS WORKSHEET** Date: 8/29/12

SDG #: 12C182 ADR Page: 1 of 1

Laboratory: EMAX Laboratories, Inc. Reviewer: AL

2nd Reviewer: V

**METHOD:** Metals (EPA SW 846 Method ~~6010~~B/6020A/~~7000~~) 7471A

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|---|---|---|---|
| I. | Technical holding times | — | Sampling dates: 3/20/12 |
| II. | ICP/MS Tune | — | |
| III. | Calibration | — | |
| IV. | Blanks | A | |
| V. | ICP Interference Check Sample (ICS) Analysis | — | |
| VI. | Matrix Spike Analysis | N | MS/D (From SDG 12C209) |
| VII. | Duplicate Sample Analysis | N | |
| VIII. | Laboratory Control Samples (LCS) | N | LCS/D |
| IX. | Internal Standard (ICP-MS) | N | |
| X. | Furnace Atomic Absorption QC | N | |
| XI. | ICP Serial Dilution | A | |
| XII. | Sample Result Verification | SW | |
| XIII. | Overall Assessment of Data | SW | |
| XIV. | Field Duplicates | — | |
| XV | Field Blanks | SW | EB: EB-NBZ-SS-032112 (12C209) EB-NBZ-SB-032212 (12C229) |

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: SEP

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | SL-069-NBZ-SB-3.0-4.0 | 11 | | 21 | | 31 | |
| 2 | SL-070-NBZ-SS-0.0-0.5 | 12 | | 22 | | 32 | |
| 3 | SL-075-NBZ-SS-0.0-0.5 | 13 | | 23 | | 33 | |
| 4 | SL-076-NBZ-SS-0.0-0.5 | 14 | | 24 | | 34 | |
| 5 | SL-077-NBZ-SS-0.0-0.5 | 15 | | 25 | | 35 | |
| 6 | SL-077-NBZ-SB-2.5-3.5 | 16 | | 26 | | 36 | |
| 7 | ↓ DL | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

LDC #: 28255E4

# VALIDATION FINDINGS WORKSHEET
## Field Blanks


Reviewer: [illegible]
2nd Reviewer: [illegible]

**METHOD:** Trace Metals (EPA SW846 6010B/7000)

**Blank units:** mg/L **Associated sample units:** mg/Kg
**Sampling date:** 3/22/12 Soil factor applied 50x
**Field blank type:** (circle one) Field Blank / Rinsate / Other: Associated Samples: 1, 6

| Analyte | Blank ID | Sample Identification | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EB-NBZ-SB-032212 (SDG: 12C229) | Action Limit | No Qualifiers | | | | | | | | | | |
| Al | 0.0458 | 11.45 | | | | | | | | | | | |
| Ca | 0.0365 | 9.125 | | | | | | | | | | | |
| Cr | 0.000820 | 0.205 | | | | | | | | | | | |
| Cu | 0.00155 | 0.3875 | | | | | | | | | | | |
| Fe | 0.0177 | 4.425 | | | | | | | | | | | |
| Pb | 0.000121 | 0.03025 | | | | | | | | | | | |
| Mn | 0.000213 | 0.05325 | | | | | | | | | | | |
| Na | 0.0505 | 12.625 | | | | | | | | | | | |

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC #: ~~27771~~ 28255E4

# VALIDATION FINDINGS WORKSHEET
## Sample Result Verification


Reviewer: CR
2nd Reviewer

**METHOD**: Inorganics, Method See Cover

| # | Sample ID | ~~Ion Balance Difference (%) (<5.0)~~ Findings | Qualifications |
|---|---|---|---|
| | 6 | Ti | Jdet/A (*X11) |
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Comments:

LDC #: 28255E4

# VALIDATION FINDINGS WORKSHEET
## Overall Assessment of Data


Reviewer: CR
2nd Reviewer: [illegible]

**METHOD:** Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

(Y) N N/A Was the overall quality and usability of the data acceptable?

| # | Date | Sample ID | Finding | Associated Samples | Qualification |
|---|---|---|---|---|---|
| | | 6 | Ti | | R/A (* XIII) |
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Comments: _____

# SAMPLE DELIVERY GROUP

# 12C209

# Attachment I

# Sample ID Cross Reference and Data Review Level

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 21-Mar-2012 | TB-032112 | C209-13 | TB | 5030B | 8015B GRO | III |
| 21-Mar-2012 | SL-066-NBZ-SB-2.0-3.0 | C209-11 | N | 3550B | 8015B EFH | III |
| 21-Mar-2012 | SL-066-NBZ-SB-2.0-3.0 | C209-11 | N | 3550B | 8082 | III |
| 21-Mar-2012 | SL-066-NBZ-SB-2.0-3.0 | C209-11 | N | 3550B | 8270C | III |
| 21-Mar-2012 | SL-066-NBZ-SB-2.0-3.0 | C209-11 | N | 3550B | 8270C SIM | III |
| 21-Mar-2012 | SL-066-NBZ-SB-2.0-3.0 | C209-11 | N | 7471A | 7471A | III |
| 21-Mar-2012 | SL-066-NBZ-SB-2.0-3.0 | C209-11 | N | GEN PREP | 300.0 | III |
| 21-Mar-2012 | SL-066-NBZ-SB-2.0-3.0 | C209-11 | N | GEN PREP | 314.0 | III |
| 21-Mar-2012 | SL-066-NBZ-SB-2.0-3.0 | C209-11 | N | GEN PREP | 6020 | III |
| 21-Mar-2012 | SL-066-NBZ-SB-2.0-3.0 | C209-11 | N | GEN PREP | 7199 | III |
| 21-Mar-2012 | SL-066-NBZ-SB-2.0-3.0 | C209-11 | N | GEN PREP | 8015B | III |
| 21-Mar-2012 | SL-066-NBZ-SB-2.0-3.0 | C209-11 | N | GEN PREP | 8015M | III |
| 21-Mar-2012 | SL-066-NBZ-SB-2.0-3.0 | C209-11 | N | GEN PREP | 8330A | III |
| 21-Mar-2012 | SL-066-NBZ-SB-2.0-3.0 | C209-11 | N | GEN PREP | 8332 | III |
| 21-Mar-2012 | SL-066-NBZ-SB-2.0-3.0 | C209-11 | N | GEN PREP | 9014 | III |
| 21-Mar-2012 | SL-066-NBZ-SB-2.0-3.0MS | C209-11M | MS | 3550B | 8270C | III |
| 21-Mar-2012 | SL-066-NBZ-SB-2.0-3.0MS | C209-11M | MS | 3550B | 8270C SIM | III |
| 21-Mar-2012 | SL-066-NBZ-SB-2.0-3.0 | C209-11R | N | GEN PREP | 7199 | III |
| 21-Mar-2012 | SL-066-NBZ-SB-2.0-3.0MSD | C209-11S | MSD | 3550B | 8270C | III |
| 21-Mar-2012 | SL-066-NBZ-SB-2.0-3.0MSD | C209-11S | MSD | 3550B | 8270C SIM | III |
| 21-Mar-2012 | SL-066-NBZ-SB-2.5 | C209-10 | N | 5035 | 8015B GRO | III |
| 21-Mar-2012 | SL-065-NBZ-SB-1.0-2.0 | C209-09 | N | 3550B | 8015B EFH | III |
| 21-Mar-2012 | SL-065-NBZ-SB-1.0-2.0 | C209-09 | N | 3550B | 8270C | III |
| 21-Mar-2012 | SL-065-NBZ-SB-1.0-2.0 | C209-09 | N | 3550B | 8270C SIM | III |
| 21-Mar-2012 | SL-065-NBZ-SB-1.0-2.0 | C209-09 | N | 7471A | 7471A | III |
| 21-Mar-2012 | SL-065-NBZ-SB-1.0-2.0 | C209-09 | N | GEN PREP | 300.0 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 21-Mar-2012 | SL-065-NBZ-SB-1.0-2.0 | C209-09 | N | GEN PREP | 314.0 | III |
| 21-Mar-2012 | SL-065-NBZ-SB-1.0-2.0 | C209-09 | N | GEN PREP | 6020 | III |
| 21-Mar-2012 | SL-065-NBZ-SB-1.0-2.0 | C209-09 | N | GEN PREP | 7199 | III |
| 21-Mar-2012 | SL-065-NBZ-SB-1.0-2.0 | C209-09 | N | GEN PREP | 8015B | III |
| 21-Mar-2012 | SL-065-NBZ-SB-1.0-2.0 | C209-09 | N | GEN PREP | 8015M | III |
| 21-Mar-2012 | SL-065-NBZ-SB-1.0-2.0 | C209-09 | N | GEN PREP | 8330A | III |
| 21-Mar-2012 | SL-065-NBZ-SB-1.0-2.0 | C209-09 | N | GEN PREP | 8332 | III |
| 21-Mar-2012 | SL-065-NBZ-SB-1.0-2.0 | C209-09 | N | GEN PREP | 9014 | III |
| 21-Mar-2012 | SL-065-NBZ-SB-1.0-2.0 | C209-09R | N | GEN PREP | 7199 | III |
| 21-Mar-2012 | SL-065-NBZ-SB-1.0-2.0 | C209-09W | N | 3550B | 8082 | III |
| 21-Mar-2012 | SL-065-NBZ-SB-1.5 | C209-08 | N | 5035 | 8015B GRO | III |
| 21-Mar-2012 | SL-064-NBZ-SB-0.5-1.5 | C209-07 | N | 3550B | 8015B EFH | III |
| 21-Mar-2012 | SL-064-NBZ-SB-0.5-1.5 | C209-07 | N | 3550B | 8082 | III |
| 21-Mar-2012 | SL-064-NBZ-SB-0.5-1.5 | C209-07 | N | 3550B | 8270C | III |
| 21-Mar-2012 | SL-064-NBZ-SB-0.5-1.5 | C209-07 | N | 3550B | 8270C SIM | III |
| 21-Mar-2012 | SL-064-NBZ-SB-0.5-1.5 | C209-07 | N | 7471A | 7471A | III |
| 21-Mar-2012 | SL-064-NBZ-SB-0.5-1.5 | C209-07 | N | GEN PREP | 300.0 | III |
| 21-Mar-2012 | SL-064-NBZ-SB-0.5-1.5 | C209-07 | N | GEN PREP | 314.0 | III |
| 21-Mar-2012 | SL-064-NBZ-SB-0.5-1.5 | C209-07 | N | GEN PREP | 6020 | III |
| 21-Mar-2012 | SL-064-NBZ-SB-0.5-1.5 | C209-07 | N | GEN PREP | 7199 | III |
| 21-Mar-2012 | SL-064-NBZ-SB-0.5-1.5 | C209-07 | N | GEN PREP | 8015B | III |
| 21-Mar-2012 | SL-064-NBZ-SB-0.5-1.5 | C209-07 | N | GEN PREP | 8015M | III |
| 21-Mar-2012 | SL-064-NBZ-SB-0.5-1.5 | C209-07 | N | GEN PREP | 8330A | III |
| 21-Mar-2012 | SL-064-NBZ-SB-0.5-1.5 | C209-07 | N | GEN PREP | 8332 | III |
| 21-Mar-2012 | SL-064-NBZ-SB-0.5-1.5 | C209-07 | N | GEN PREP | 9014 | III |
| 21-Mar-2012 | SL-064-NBZ-SB-0.5-1.5 | C209-07R | N | GEN PREP | 7199 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 21-Mar-2012 | SL-064-NBZ-SB-1.0 | C209-06 | N | 5035 | 8015B GRO | III |
| 21-Mar-2012 | SL-105-NBZ-SS-0.0-0.5 | C209-12 | N | 3550B | 8081A | III |
| 21-Mar-2012 | SL-105-NBZ-SS-0.0-0.5 | C209-12 | N | 3550B | 8082 | III |
| 21-Mar-2012 | SL-105-NBZ-SS-0.0-0.5 | C209-12 | N | 3550B | 8270C | III |
| 21-Mar-2012 | SL-105-NBZ-SS-0.0-0.5 | C209-12 | N | 3550B | 8270C SIM | III |
| 21-Mar-2012 | SL-105-NBZ-SS-0.0-0.5 | C209-12 | N | 7471A | 7471A | III |
| 21-Mar-2012 | SL-105-NBZ-SS-0.0-0.5 | C209-12 | N | GEN PREP | 300.0 | III |
| 21-Mar-2012 | SL-105-NBZ-SS-0.0-0.5 | C209-12 | N | GEN PREP | 314.0 | III |
| 21-Mar-2012 | SL-105-NBZ-SS-0.0-0.5 | C209-12 | N | GEN PREP | 6020 | III |
| 21-Mar-2012 | SL-105-NBZ-SS-0.0-0.5 | C209-12 | N | GEN PREP | 7199 | III |
| 21-Mar-2012 | SL-105-NBZ-SS-0.0-0.5 | C209-12 | N | GEN PREP | 8151A | III |
| 21-Mar-2012 | SL-105-NBZ-SS-0.0-0.5MS | C209-12M | MS | GEN PREP | 6020 | III |
| 21-Mar-2012 | SL-105-NBZ-SS-0.0-0.5 | C209-12R | N | GEN PREP | 7199 | III |
| 21-Mar-2012 | SL-105-NBZ-SS-0.0-0.5MSD | C209-12S | MSD | GEN PREP | 6020 | III |
| 21-Mar-2012 | SL-063-NBZ-SB-1.0 | C209-04 | N | 5035 | 8015B GRO | III |
| 21-Mar-2012 | SL-063-NBZ-SB-0.5-1.5 | C209-05 | N | 3550B | 8015B EFH | III |
| 21-Mar-2012 | SL-063-NBZ-SB-0.5-1.5 | C209-05 | N | 3550B | 8082 | III |
| 21-Mar-2012 | SL-063-NBZ-SB-0.5-1.5 | C209-05 | N | 3550B | 8270C | III |
| 21-Mar-2012 | SL-063-NBZ-SB-0.5-1.5 | C209-05 | N | 3550B | 8270C SIM | III |
| 21-Mar-2012 | SL-063-NBZ-SB-0.5-1.5 | C209-05 | N | 7471A | 7471A | III |
| 21-Mar-2012 | SL-063-NBZ-SB-0.5-1.5 | C209-05 | N | GEN PREP | 300.0 | III |
| 21-Mar-2012 | SL-063-NBZ-SB-0.5-1.5 | C209-05 | N | GEN PREP | 314.0 | III |
| 21-Mar-2012 | SL-063-NBZ-SB-0.5-1.5 | C209-05 | N | GEN PREP | 6020 | III |
| 21-Mar-2012 | SL-063-NBZ-SB-0.5-1.5 | C209-05 | N | GEN PREP | 7199 | III |
| 21-Mar-2012 | SL-063-NBZ-SB-0.5-1.5 | C209-05 | N | GEN PREP | 8015B | III |
| 21-Mar-2012 | SL-063-NBZ-SB-0.5-1.5 | C209-05 | N | GEN PREP | 8015M | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 21-Mar-2012 | SL-063-NBZ-SB-0.5-1.5 | C209-05 | N | GEN PREP | 8330A | III |
| 21-Mar-2012 | SL-063-NBZ-SB-0.5-1.5 | C209-05 | N | GEN PREP | 8332 | III |
| 21-Mar-2012 | SL-063-NBZ-SB-0.5-1.5 | C209-05 | N | GEN PREP | 9014 | III |
| 21-Mar-2012 | SL-063-NBZ-SB-0.5-1.5 | C209-05R | N | GEN PREP | 7199 | III |
| 21-Mar-2012 | EB-NBZ-SS-032112 | C209-01 | EB | 3520C | 8015B EFH | III |
| 21-Mar-2012 | EB-NBZ-SS-032112 | C209-01 | EB | 3520C | 8081A | III |
| 21-Mar-2012 | EB-NBZ-SS-032112 | C209-01 | EB | 3520C | 8082 | III |
| 21-Mar-2012 | EB-NBZ-SS-032112 | C209-01 | EB | 3520C | 8270C | III |
| 21-Mar-2012 | EB-NBZ-SS-032112 | C209-01 | EB | 7470A | 7470A | III |
| 21-Mar-2012 | EB-NBZ-SS-032112 | C209-01 | EB | GEN PREP | 300.0 | III |
| 21-Mar-2012 | EB-NBZ-SS-032112 | C209-01 | EB | GEN PREP | 314.0 | III |
| 21-Mar-2012 | EB-NBZ-SS-032112 | C209-01 | EB | GEN PREP | 6020 | III |
| 21-Mar-2012 | EB-NBZ-SS-032112 | C209-01 | EB | GEN PREP | 7199 | III |
| 21-Mar-2012 | EB-NBZ-SS-032112 | C209-01 | EB | GEN PREP | 8015B | III |
| 21-Mar-2012 | EB-NBZ-SS-032112 | C209-01 | EB | GEN PREP | 8015M | III |
| 21-Mar-2012 | EB-NBZ-SS-032112 | C209-01 | EB | GEN PREP | 8151A | III |
| 21-Mar-2012 | EB-NBZ-SS-032112 | C209-01 | EB | GEN PREP | 8330A | III |
| 21-Mar-2012 | EB-NBZ-SS-032112 | C209-01 | EB | GEN PREP | 8332 | III |
| 21-Mar-2012 | EB-NBZ-SS-032112 | C209-01 | EB | GEN PREP | 9014 | III |
| 21-Mar-2012 | EB-NBZ-SS-032112 | C209-01R | EB | GEN PREP | 7199 | III |
| 21-Mar-2012 | SL-062-NBZ-SB-2.5-3.5 | C209-03 | N | 3550B | 8015B EFH | III |
| 21-Mar-2012 | SL-062-NBZ-SB-2.5-3.5 | C209-03 | N | 3550B | 8082 | III |
| 21-Mar-2012 | SL-062-NBZ-SB-2.5-3.5 | C209-03 | N | 3550B | 8270C | III |
| 21-Mar-2012 | SL-062-NBZ-SB-2.5-3.5 | C209-03 | N | 3550B | 8270C SIM | III |
| 21-Mar-2012 | SL-062-NBZ-SB-2.5-3.5 | C209-03 | N | 7471A | 7471A | III |
| 21-Mar-2012 | SL-062-NBZ-SB-2.5-3.5 | C209-03 | N | GEN PREP | 300.0 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 21-Mar-2012 | SL-062-NBZ-SB-2.5-3.5 | C209-03 | N | GEN PREP | 314.0 | III |
| 21-Mar-2012 | SL-062-NBZ-SB-2.5-3.5 | C209-03 | N | GEN PREP | 6020 | III |
| 21-Mar-2012 | SL-062-NBZ-SB-2.5-3.5 | C209-03 | N | GEN PREP | 7199 | III |
| 21-Mar-2012 | SL-062-NBZ-SB-2.5-3.5 | C209-03 | N | GEN PREP | 8015B | III |
| 21-Mar-2012 | SL-062-NBZ-SB-2.5-3.5 | C209-03 | N | GEN PREP | 8015M | III |
| 21-Mar-2012 | SL-062-NBZ-SB-2.5-3.5 | C209-03 | N | GEN PREP | 8330A | III |
| 21-Mar-2012 | SL-062-NBZ-SB-2.5-3.5 | C209-03 | N | GEN PREP | 8332 | III |
| 21-Mar-2012 | SL-062-NBZ-SB-2.5-3.5 | C209-03 | N | GEN PREP | 9014 | III |
| 21-Mar-2012 | SL-062-NBZ-SB-2.5-3.5MS | C209-03G | MS | GEN PREP | 7199 | III |
| 21-Mar-2012 | SL-062-NBZ-SB-2.5-3.5MS | C209-03G1 | MS | GEN PREP | 7199 | III |
| 21-Mar-2012 | SL-062-NBZ-SB-2.5-3.5MS | C209-03M | MS | GEN PREP | 7199 | III |
| 21-Mar-2012 | SL-062-NBZ-SB-2.5-3.5MS | C209-03M1 | MS | GEN PREP | 7199 | III |
| 21-Mar-2012 | SL-062-NBZ-SB-2.5-3.5 | C209-03R | N | GEN PREP | 7199 | III |
| 21-Mar-2012 | SL-062-NBZ-SB-2.5-3.5 | C209-03T | N | 3550B | 8082 | III |
| 21-Mar-2012 | SL-062-NBZ-SB-3.0 | C209-02 | N | 5035 | 8015B GRO | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Attachment II

# Overall Data Qualification Summary

# Data Qualifier Summary

**Lab Reporting Batch ID:** 12C209 **Laboratory:** EMXT

**EDD Filename:** 12C209R **eQAPP Name:** CDM_SSFL_120730_EMAX

**Method Category:** GENCHEM

**Method:** 300.0 **Matrix:** SO

*Sample ID:* SL-062-NBZ-SB-2.5-3.5 *Collected:* 3/21/2012 3:40:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.705 | J | 0.518 | MDL | 1.04 | PQL | MG/KG | J | Z |

*Sample ID:* SL-064-NBZ-SB-0.5-1.5 *Collected:* 3/21/2012 1:30:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.577 | J | 0.525 | MDL | 1.05 | PQL | MG/KG | J | Z |

*Sample ID:* SL-066-NBZ-SB-2.0-3.0 *Collected:* 3/21/2012 9:30:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate-NO3 | 1.34 | J | 0.773 | MDL | 1.55 | PQL | MG/KG | J | Z |

*Sample ID:* SL-105-NBZ-SS-0.0-0.5 *Collected:* 3/21/2012 1:45:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.707 | J | 0.554 | MDL | 1.11 | PQL | MG/KG | J | Z |

**Method Category:** METALS

**Method:** 6020 **Matrix:** SO

*Sample ID:* SL-062-NBZ-SB-2.5-3.5 *Collected:* 3/21/2012 3:40:00 *Analysis Type:* RES/TOT *Dilution:* 0.980

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| SILVER | 0.0608 | J | 0.0507 | MDL | 0.101 | PQL | MG/KG | J | Z |
| SODIUM | 56.6 | J | 50.7 | MDL | 101 | PQL | MG/KG | J | Z |
| Zirconium | 5.07 | U | 2.54 | MDL | 5.07 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-063-NBZ-SB-0.5-1.5 *Collected:* 3/21/2012 2:45:00 *Analysis Type:* RES/TOT *Dilution:* 0.980

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.212 | J | 0.112 | MDL | 0.223 | PQL | MG/KG | J | Z |
| SODIUM | 57.0 | J | 55.8 | MDL | 112 | PQL | MG/KG | J | Z |
| Zirconium | 5.58 | U | 2.79 | MDL | 5.58 | PQL | MG/KG | UJ | Q |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C209** **Laboratory: EMXT**

**EDD Filename: 12C209R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: METALS**

**Method: 6020** **Matrix: SO**

*Sample ID:* SL-064-NBZ-SB-0.5-1.5 *Collected:* 3/21/2012 1:30:00 *Analysis Type:* RES/TOT *Dilution:* 0.971

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.198 | J | 0.102 | MDL | 0.204 | PQL | MG/KG | J | Z |
| SODIUM | 59.8 | J | 51.0 | MDL | 102 | PQL | MG/KG | J | Z |
| Zirconium | 5.10 | U | 2.55 | MDL | 5.10 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-065-NBZ-SB-1.0-2.0 *Collected:* 3/21/2012 10:50:00 *Analysis Type:* RES/TOT *Dilution:* 0.995

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.201 | J | 0.108 | MDL | 0.216 | PQL | MG/KG | J | Z |
| SELENIUM | 0.262 | J | 0.216 | MDL | 0.431 | PQL | MG/KG | J | Z |
| SODIUM | 59.6 | J | 53.9 | MDL | 108 | PQL | MG/KG | J | Z |
| Zirconium | 5.39 | U | 2.70 | MDL | 5.39 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-066-NBZ-SB-2.0-3.0 *Collected:* 3/21/2012 9:30:00 *Analysis Type:* RES/TOT *Dilution:* 0.962

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| SODIUM | 67.3 | J | 49.6 | MDL | 99.2 | PQL | MG/KG | J | Z |
| Zirconium | 4.96 | U | 2.48 | MDL | 4.96 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-105-NBZ-SS-0.0-0.5 *Collected:* 3/21/2012 1:45:00 *Analysis Type:* RES/TOT *Dilution:* 0.957

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.189 | J | 0.106 | MDL | 0.212 | PQL | MG/KG | J | Z |
| SODIUM | 65.2 | J | 53.0 | MDL | 106 | PQL | MG/KG | J | Z |
| Zirconium | 5.30 | U | 2.65 | MDL | 5.30 | PQL | MG/KG | UJ | Q |

**Method Category: SVOA**

**Method: 8015B EFH** **Matrix: SO**

*Sample ID:* SL-062-NBZ-SB-2.5-3.5 *Collected:* 3/21/2012 3:40:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C8-C11) | 0.61 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C209** **Laboratory: EMXT**

**EDD Filename: 12C209R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: SVOA**

**Method: 8015B EFH** **Matrix: SO**

*Sample ID:* SL-063-NBZ-SB-0.5-1.5 *Collected:* 3/21/2012 2:45:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C15-C20) | 0.64 | J | 0.57 | MDL | 1.1 | PQL | MG/KG | J | Z |
| EFH(C8-C11) | 0.69 | J | 0.57 | MDL | 1.1 | PQL | MG/KG | J | Z |

*Sample ID:* SL-064-NBZ-SB-0.5-1.5 *Collected:* 3/21/2012 1:30:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C21-C30) | 0.98 | J | 0.53 | MDL | 1.1 | PQL | MG/KG | J | Z |

*Sample ID:* SL-065-NBZ-SB-1.0-2.0 *Collected:* 3/21/2012 10:50:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C8-C11) | 0.90 | J | 0.54 | MDL | 1.1 | PQL | MG/KG | J | Z |

**Method Category: SVOA**

**Method: 8270C** **Matrix: AQ**

*Sample ID:* EB-NBZ-SS-032112 *Collected:* 3/21/2012 3:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1.05

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-DICHLOROBENZENE | 11 | U | 5.2 | MDL | 11 | PQL | UG/L | UJ | E |
| 2-CHLOROPHENOL | 11 | U | 5.2 | MDL | 11 | PQL | UG/L | UJ | E |
| 2-METHYLPHENOL | 11 | U | 5.2 | MDL | 11 | PQL | UG/L | UJ | E |
| 2-NITROPHENOL | 11 | U | 5.2 | MDL | 11 | PQL | UG/L | UJ | E |
| 4-METHYLPHENOL | 11 | U | 5.2 | MDL | 11 | PQL | UG/L | UJ | E |
| 4-NITROANILINE | 11 | U | 5.2 | MDL | 11 | PQL | UG/L | UJ | E |
| BENZIDINE | 52 | U | 21 | MDL | 52 | PQL | UG/L | UJ | E |
| Bis(2-chloroethyl)ether | 11 | U | 5.2 | MDL | 11 | PQL | UG/L | UJ | E |
| Bis(2-chloroisopropyl)ether | 11 | U | 5.2 | MDL | 11 | PQL | UG/L | UJ | E |
| HEXACHLOROBUTADIENE | 11 | U | 5.2 | MDL | 11 | PQL | UG/L | UJ | E |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C209** **Laboratory: EMXT**

**EDD Filename: 12C209R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: SVOA**

**Method: 8270C** **Matrix: SO**

*Sample ID:* SL-066-NBZ-SB-2.0-3.0 *Collected:* 3/21/2012 9:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BENZIDINE | 860 | U | 430 | MDL | 860 | PQL | UG/KG | R | Q |
| HEXACHLOROCYCLOPENTADIENE | 170 | U | 87 | MDL | 170 | PQL | UG/KG | R | Q |

**Method Category: SVOA**

**Method: 8270C SIM** **Matrix: SO**

*Sample ID:* SL-062-NBZ-SB-2.5-3.5 *Collected:* 3/21/2012 3:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BIS(2-ETHYLHEXYL)PHTHALATE | 11 | J | 8.7 | MDL | 17 | PQL | UG/KG | J | Z |

*Sample ID:* SL-063-NBZ-SB-0.5-1.5 *Collected:* 3/21/2012 2:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| Butylbenzylphthalate | 15 | J | 9.6 | MDL | 19 | PQL | UG/KG | J | Z |

*Sample ID:* SL-066-NBZ-SB-2.0-3.0 *Collected:* 3/21/2012 9:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BIS(2-ETHYLHEXYL)PHTHALATE | 9.9 | J | 8.7 | MDL | 17 | PQL | UG/KG | J | Z |

*Sample ID:* SL-105-NBZ-SS-0.0-0.5 *Collected:* 3/21/2012 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| CHRYSENE | 1.1 | J | 0.94 | MDL | 1.9 | PQL | UG/KG | J | Z |
| FLUORANTHENE | 1.8 | J | 0.94 | MDL | 1.9 | PQL | UG/KG | J | Z |
| PYRENE | 1.6 | J | 0.94 | MDL | 1.9 | PQL | UG/KG | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C209** **Laboratory: EMXT**

**EDD Filename: 12C209R** **eQAPP Name: CDM_SSFL_120730_EMAX**

## Reason Code Legend

| *Reason Code* | *Description* |
|---|---|
| E | Laboratory Control Precision |
| E | Matrix Spike Precision |
| L | Laboratory Control Precision |
| Q | Matrix Spike Lower Estimation |
| Q | Matrix Spike Lower Rejection |
| Q | Matrix Spike Precision |
| Z | Reporting Limit Trace Value |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Enclosure I

# Level III ADR Outliers
# (including Manual Review Outliers)

# Quality Control
# Outlier Reports

# 12C209

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 12C209 Laboratory: EMXT

EDD Filename: 12C209R eQAPP Name: CDM_SSFL_120730_EMAX

**Method: 6020**
**Matrix: SO**

| QC Sample ID (Associated Samples) | Compound | MS %R | MSD %R | %R Limits | RPD (Limits) | Affected Compounds | Flag |
|---|---|---|---|---|---|---|---|
| **SL-105-NBZ-SS-0.0-0.5MS (TOT)**<br>**SL-105-NBZ-SS-0.0-0.5MSD (TOT)**<br>(SL-062-NBZ-SB-2.5-3.5<br>SL -063-NBZ-SB-0.5-1.5<br>SL -064-NBZ-SB-0.5-1.5<br>SL -065-NBZ-SB-1.0-2.0<br>SL -066-NBZ-SB-2.0-3.0<br>SL -105-NBZ-SS-0.0-0.5) | TITANIUM | 10 | 74 | 75.00-125.00 | - | TITANIUM | No Qual, >4x |
| **SL-105-NBZ-SS-0.0-0.5MS (TOT)**<br>**SL-105-NBZ-SS-0.0-0.5MSD (TOT)**<br>(SL-062-NBZ-SB-2.5-3.5<br>SL -063-NBZ-SB-0.5-1.5<br>SL -064-NBZ-SB-0.5-1.5<br>SL -065-NBZ-SB-1.0-2.0<br>SL -066-NBZ-SB-2.0-3.0<br>SL -105-NBZ-SS-0.0-0.5) | ALUMINUM<br>IRON<br>MANGANESE<br>Zirconium | 67<br>56<br>51<br>35 | -<br>-<br>-<br>34 | 75.00-125.00<br>75.00-125.00<br>75.00-125.00<br>75.00-125.00 | -<br>-<br>-<br>- | ALUMINUM<br>IRON<br>MANGANESE<br>Zirconium | J(all detects)<br>UJ(all non-detects)<br><br>Al, Fe, Mn,<br>No Qual, >4x |

**Method: 8270C**
**Matrix: SO**

| QC Sample ID (Associated Samples) | Compound | MS %R | MSD %R | %R Limits | RPD (Limits) | Affected Compounds | Flag |
|---|---|---|---|---|---|---|---|
| **SL-066-NBZ-SB-2.0-3.0MS**<br>**SL-066-NBZ-SB-2.0-3.0MSD**<br>(SL-066-NBZ-SB-2.0-3.0) | BENZIDINE<br>HEXACHLOROCYCLOPENTADI | 0<br>0 | 0<br>- | 10.00-150.00<br>10.00-130.00 | -<br>200 (50.00) | BENZIDINE<br>HEXACHLOROCYCLOPENTAD | J(all detects)<br>R(all non-detects) |

# Lab Control Spike/Lab Control Spike Duplicate Outlier Report

**Lab Reporting Batch ID: 12C209** **Laboratory: EMXT**

**EDD Filename: 12C209R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 8270C**
**Matrix: AQ**

| QC Sample ID (Associated Samples) | Compound | LCS %R | LCSD %R | %R Limits | RPD (Limits) | Affected Compounds | Flag |
|---|---|---|---|---|---|---|---|
| SVC031WC (EB-NBZ-SS-032112) | 1,4-DICHLOROBENZENE | - | - | 30.00-130.00 | 31 (30.00) | 1,4-DICHLOROBENZENE | J (all detects) UJ (all non-detects) |
| | 2-CHLOROPHENOL | - | - | 30.00-130.00 | 34 (30.00) | 2-CHLOROPHENOL | |
| | 2-METHYLPHENOL | - | - | 30.00-130.00 | 33 (30.00) | 2-METHYLPHENOL | |
| | 2-NITROPHENOL | - | - | 40.00-130.00 | 32 (30.00) | 2-NITROPHENOL | |
| | 4-METHYLPHENOL | - | - | 30.00-130.00 | 32 (30.00) | 4-METHYLPHENOL | |
| | 4-NITROANILINE | - | - | 30.00-130.00 | 32 (30.00) | 4-NITROANILINE | |
| | BENZIDINE | - | - | 20.00-130.00 | 37 (30.00) | BENZIDINE | |
| | Bis(2-chloroethyl)ether | - | - | 30.00-130.00 | 32 (30.00) | Bis(2-chloroethyl)ether | |
| | Bis(2-chloroisopropyl)ether | - | - | 20.00-130.00 | 31 (30.00) | Bis(2-chloroisopropyl)ether | |
| | HEXACHLOROBUTADIENE | - | - | 10.00-130.00 | 31 (30.00) | HEXACHLOROBUTADIENE | |

# Reporting Limit Outliers

**Lab Reporting Batch ID: 12C209** **Laboratory: EMXT**

**EDD Filename: 12C209R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 300.0**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-062-NBZ-SB-2.5-3.5 | FLUORIDE | J | 0.705 | 1.04 | PQL | MG/KG | J (all detects) |
| SL-064-NBZ-SB-0.5-1.5 | FLUORIDE | J | 0.577 | 1.05 | PQL | MG/KG | J (all detects) |
| SL-066-NBZ-SB-2.0-3.0 | Nitrate-NO3 | J | 1.34 | 1.55 | PQL | MG/KG | J (all detects) |
| SL-105-NBZ-SS-0.0-0.5 | FLUORIDE | J | 0.707 | 1.11 | PQL | MG/KG | J (all detects) |

**Method: 6020**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-062-NBZ-SB-2.5-3.5 | SILVER<br>SODIUM | J<br>J | 0.0608<br>56.6 | 0.101<br>101 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-063-NBZ-SB-0.5-1.5 | ANTIMONY<br>SODIUM | J<br>J | 0.212<br>57.0 | 0.223<br>112 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-064-NBZ-SB-0.5-1.5 | ANTIMONY<br>SODIUM | J<br>J | 0.198<br>59.8 | 0.204<br>102 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-065-NBZ-SB-1.0-2.0 | ANTIMONY<br>SELENIUM<br>SODIUM | J<br>J<br>J | 0.201<br>0.262<br>59.6 | 0.216<br>0.431<br>108 | PQL<br>PQL<br>PQL | MG/KG<br>MG/KG<br>MG/KG | J (all detects) |
| SL-066-NBZ-SB-2.0-3.0 | SODIUM | J | 67.3 | 99.2 | PQL | MG/KG | J (all detects) |
| SL-105-NBZ-SS-0.0-0.5 | ANTIMONY<br>SODIUM | J<br>J | 0.189<br>65.2 | 0.212<br>106 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |

**Method: 8015B EFH**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-062-NBZ-SB-2.5-3.5 | EFH(C8-C11) | J | 0.61 | 1.0 | PQL | MG/KG | J (all detects) |
| SL-063-NBZ-SB-0.5-1.5 | EFH(C15-C20)<br>EFH(C8-C11) | J<br>J | 0.64<br>0.69 | 1.1<br>1.1 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-064-NBZ-SB-0.5-1.5 | EFH(C21-C30) | J | 0.98 | 1.1 | PQL | MG/KG | J (all detects) |
| SL-065-NBZ-SB-1.0-2.0 | EFH(C8-C11) | J | 0.90 | 1.1 | PQL | MG/KG | J (all detects) |

**Method: 8270C SIM**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-062-NBZ-SB-2.5-3.5 | BIS(2-ETHYLHEXYL)PHTHALATE | J | 11 | 17 | PQL | UG/KG | J (all detects) |
| SL-063-NBZ-SB-0.5-1.5 | Butylbenzylphthalate | J | 15 | 19 | PQL | UG/KG | J (all detects) |
| SL-066-NBZ-SB-2.0-3.0 | BIS(2-ETHYLHEXYL)PHTHALATE | J | 9.9 | 17 | PQL | UG/KG | J (all detects) |

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Reporting Limit Outliers

**Lab Reporting Batch ID: 12C209** **Laboratory: EMXT**

**EDD Filename: 12C209R** **eQAPP Name: CDM_SSFL_120730_EMAX**

***Method:*** **8270C SIM**

***Matrix:*** **SO**

| *SampleID* | *Analyte* | *Lab Qual* | *Result* | *Reporting Limit* | *RL Type* | *Units* | *Flag* |
|---|---|---|---|---|---|---|---|
| SL-105-NBZ-SS-0.0-0.5 | CHRYSENE | J | 1.1 | 1.9 | PQL | UG/KG | |
| | FLUORANTHENE | J | 1.8 | 1.9 | PQL | UG/KG | J (all detects) |
| | PYRENE | J | 1.6 | 1.9 | PQL | UG/KG | |

LDC #: 28255F4
SDG #: 12C209
Laboratory: EMAX Laboratories, Inc.

# VALIDATION COMPLETENESS WORKSHEET
ADR

Date: 8-29-12
Page: 1 of 1
Reviewer: CL
2nd Reviewer: W

**METHOD:** Metals (EPA SW 846 Method ~~6010B~~/6020A/~~7000~~ 7471A/7470A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|---|---|---|---|
| I. | Technical holding times | — | Sampling dates: 3/21/12 |
| II. | ICP/MS Tune | — | |
| III. | Calibration | — | |
| IV. | Blanks | A | |
| V. | ICP Interference Check Sample (ICS) Analysis | — | |
| VI. | Matrix Spike Analysis | N | MS/D (Al, Fe, Mn, Ti >4X) |
| VII. | Duplicate Sample Analysis | N | |
| VIII. | Laboratory Control Samples (LCS) | N | LCS/D |
| IX. | Internal Standard (ICP-MS) | N | |
| X. | Furnace Atomic Absorption QC | N | |
| XI. | ICP Serial Dilution | A | |
| XII. | Sample Result Verification | N | |
| XIII. | Overall Assessment of Data | N | |
| XIV. | Field Duplicates | — | |
| XV | Field Blanks | SW | EB=1, EB-NBZ-SB032212 (12C229) |

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: soil/water

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | EB-NBZ-SS-032112 W | 11 | | 21 | | 31 | |
| 2 | SL-062-NBZ-SB-2.5-3.5 | 12 | | 22 | | 32 | |
| 3 | SL-063-NBZ-SB-0.5-1.5 | 13 | | 23 | | 33 | |
| 4 | SL-064-NBZ-SB-0.5-1.5 | 14 | | 24 | | 34 | |
| 5 | SL-065-NBZ-SB-1.0-2.0 | 15 | | 25 | | 35 | |
| 6 | SL-066-NBZ-SB-2.0-3.0 | 16 | | 26 | | 36 | |
| 7 | SL-105-NBZ-SS-0.0-0.5 | 17 | | 27 | | 37 | |
| 8 | SL-105-NBZ-SS-0.0-0.5MS | 18 | | 28 | | 38 | |
| 9 | SL-105-NBZ-SS-0.0-0.5MSD | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

LDC #: 28255F4

# VALIDATION FINDINGS WORKSHEET
## Field Blanks


Reviewer: CL
2nd Reviewer: lw

**METHOD:** Trace Metals (EPA SW846 6010B/7000)

**Blank units:** mg/L **Associated sample units:** mg/Kg
**Sampling date:** 3/22/12 Soil factor applied 50x
**Field blank type:** (circle one) Field Blank / Rinsate / Other: Associated Samples: 2-6

| Analyte | Blank ID | Sample Identification | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EB-NBZ-SB-032212 (SDG: 12C229) | Action Limit | No Qualifiers | | | | | | | | | | |
| Al | 0.0458 | 11.45 | | | | | | | | | | | |
| Ca | 0.0365 | 9.125 | | | | | | | | | | | |
| Cr | 0.000820 | 0.205 | | | | | | | | | | | |
| Cu | 0.00155 | 0.3875 | | | | | | | | | | | |
| Fe | 0.0177 | 4.425 | | | | | | | | | | | |
| Pb | 0.000121 | 0.03025 | | | | | | | | | | | |
| Mn | 0.000213 | 0.05325 | | | | | | | | | | | |
| Na | 0.0505 | 12.625 | | | | | | | | | | | |

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

# SAMPLE DELIVERY GROUP

# 12C229

# Attachment I

# Sample ID Cross Reference and Data Review Level

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 22-Mar-2012 | TB-032212 | C229-09 | TB | 5030B | 8015B GRO | III |
| 22-Mar-2012 | SL-061-NBZ-SB-1.5 | C229-06 | N | 5035 | 8015B GRO | III |
| 22-Mar-2012 | SL-061-NBZ-SB-1.0-2.0 | C229-07 | N | 3550B | 8015B EFH | III |
| 22-Mar-2012 | SL-061-NBZ-SB-1.0-2.0 | C229-07 | N | 3550B | 8270C | III |
| 22-Mar-2012 | SL-061-NBZ-SB-1.0-2.0 | C229-07 | N | 3550B | 8270C SIM | III |
| 22-Mar-2012 | SL-061-NBZ-SB-1.0-2.0 | C229-07 | N | 7471A | 7471A | III |
| 22-Mar-2012 | SL-061-NBZ-SB-1.0-2.0 | C229-07 | N | GEN PREP | 300.0 | III |
| 22-Mar-2012 | SL-061-NBZ-SB-1.0-2.0 | C229-07 | N | GEN PREP | 314.0 | III |
| 22-Mar-2012 | SL-061-NBZ-SB-1.0-2.0 | C229-07 | N | GEN PREP | 6020 | III |
| 22-Mar-2012 | SL-061-NBZ-SB-1.0-2.0 | C229-07 | N | GEN PREP | 7199 | III |
| 22-Mar-2012 | SL-061-NBZ-SB-1.0-2.0 | C229-07 | N | GEN PREP | 8015B | III |
| 22-Mar-2012 | SL-061-NBZ-SB-1.0-2.0 | C229-07 | N | GEN PREP | 8015M | III |
| 22-Mar-2012 | SL-061-NBZ-SB-1.0-2.0 | C229-07 | N | GEN PREP | 8330A | III |
| 22-Mar-2012 | SL-061-NBZ-SB-1.0-2.0 | C229-07 | N | GEN PREP | 8332 | III |
| 22-Mar-2012 | SL-061-NBZ-SB-1.0-2.0 | C229-07 | N | GEN PREP | 9014 | III |
| 22-Mar-2012 | SL-061-NBZ-SB-1.0-2.0DUP | C229-07D | DUP | GEN PREP | 9014 | III |
| 22-Mar-2012 | SL-061-NBZ-SB-1.0-2.0MS | C229-07M | MS | GEN PREP | 9014 | III |
| 22-Mar-2012 | SL-061-NBZ-SB-1.0-2.0 | C229-07R | N | GEN PREP | 7199 | III |
| 22-Mar-2012 | SL-061-NBZ-SB-1.0-2.0 | C229-07W | N | 3550B | 8082 | III |
| 22-Mar-2012 | SL-060-NBZ-SS-0.0-0.5 | C229-05 | N | 3550B | 8015B EFH | III |
| 22-Mar-2012 | SL-060-NBZ-SS-0.0-0.5 | C229-05 | N | 3550B | 8082 | III |
| 22-Mar-2012 | SL-060-NBZ-SS-0.0-0.5 | C229-05 | N | 3550B | 8270C | III |
| 22-Mar-2012 | SL-060-NBZ-SS-0.0-0.5 | C229-05 | N | 3550B | 8270C SIM | III |
| 22-Mar-2012 | SL-060-NBZ-SS-0.0-0.5 | C229-05 | N | 7471A | 7471A | III |
| 22-Mar-2012 | SL-060-NBZ-SS-0.0-0.5 | C229-05 | N | GEN PREP | 300.0 | III |
| 22-Mar-2012 | SL-060-NBZ-SS-0.0-0.5 | C229-05 | N | GEN PREP | 314.0 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 22-Mar-2012 | SL-060-NBZ-SS-0.0-0.5 | C229-05 | N | GEN PREP | 6020 | III |
| 22-Mar-2012 | SL-060-NBZ-SS-0.0-0.5 | C229-05 | N | GEN PREP | 7199 | III |
| 22-Mar-2012 | SL-060-NBZ-SS-0.0-0.5 | C229-05 | N | GEN PREP | 8015B | III |
| 22-Mar-2012 | SL-060-NBZ-SS-0.0-0.5 | C229-05 | N | GEN PREP | 8015M | III |
| 22-Mar-2012 | SL-060-NBZ-SS-0.0-0.5 | C229-05 | N | GEN PREP | 8151A | III |
| 22-Mar-2012 | SL-060-NBZ-SS-0.0-0.5 | C229-05 | N | GEN PREP | 8330A | III |
| 22-Mar-2012 | SL-060-NBZ-SS-0.0-0.5 | C229-05 | N | GEN PREP | 8332 | III |
| 22-Mar-2012 | SL-060-NBZ-SS-0.0-0.5 | C229-05 | N | GEN PREP | 9014 | III |
| 22-Mar-2012 | SL-060-NBZ-SS-0.0-0.5 | C229-05I | N | 3550B | 8082 | III |
| 22-Mar-2012 | SL-060-NBZ-SS-0.0-0.5 | C229-05R | N | GEN PREP | 7199 | III |
| 22-Mar-2012 | SL-060-NBZ-SS-0.0-0.5 | C229-05T | N | 3550B | 8081A | III |
| 22-Mar-2012 | SL-059-NBZ-SS-0.0-0.5 | C229-04 | N | 3550B | 8015B EFH | III |
| 22-Mar-2012 | SL-059-NBZ-SS-0.0-0.5 | C229-04 | N | 3550B | 8081A | III |
| 22-Mar-2012 | SL-059-NBZ-SS-0.0-0.5 | C229-04 | N | 3550B | 8082 | III |
| 22-Mar-2012 | SL-059-NBZ-SS-0.0-0.5 | C229-04 | N | 3550B | 8270C | III |
| 22-Mar-2012 | SL-059-NBZ-SS-0.0-0.5 | C229-04 | N | 3550B | 8270C SIM | III |
| 22-Mar-2012 | SL-059-NBZ-SS-0.0-0.5 | C229-04 | N | 7471A | 7471A | III |
| 22-Mar-2012 | SL-059-NBZ-SS-0.0-0.5 | C229-04 | N | GEN PREP | 300.0 | III |
| 22-Mar-2012 | SL-059-NBZ-SS-0.0-0.5 | C229-04 | N | GEN PREP | 314.0 | III |
| 22-Mar-2012 | SL-059-NBZ-SS-0.0-0.5 | C229-04 | N | GEN PREP | 6020 | III |
| 22-Mar-2012 | SL-059-NBZ-SS-0.0-0.5 | C229-04 | N | GEN PREP | 7199 | III |
| 22-Mar-2012 | SL-059-NBZ-SS-0.0-0.5 | C229-04 | N | GEN PREP | 8015B | III |
| 22-Mar-2012 | SL-059-NBZ-SS-0.0-0.5 | C229-04 | N | GEN PREP | 8015M | III |
| 22-Mar-2012 | SL-059-NBZ-SS-0.0-0.5 | C229-04 | N | GEN PREP | 8151A | III |
| 22-Mar-2012 | SL-059-NBZ-SS-0.0-0.5 | C229-04 | N | GEN PREP | 8330A | III |
| 22-Mar-2012 | SL-059-NBZ-SS-0.0-0.5 | C229-04 | N | GEN PREP | 8332 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 22-Mar-2012 | SL-059-NBZ-SS-0.0-0.5 | C229-04 | N | GEN PREP | 9014 | III |
| 22-Mar-2012 | SL-059-NBZ-SS-0.0-0.5 | C229-04R | N | GEN PREP | 7199 | III |
| 22-Mar-2012 | SL-059-NBZ-SS-0.0-0.5 | C229-04T | N | 3550B | 8082 | III |
| 22-Mar-2012 | SL-055-NBZ-SS-0.0-0.5 | C229-03 | N | 3550B | 8015B EFH | III |
| 22-Mar-2012 | SL-055-NBZ-SS-0.0-0.5 | C229-03 | N | 3550B | 8081A | III |
| 22-Mar-2012 | SL-055-NBZ-SS-0.0-0.5 | C229-03 | N | 3550B | 8082 | III |
| 22-Mar-2012 | SL-055-NBZ-SS-0.0-0.5 | C229-03 | N | 3550B | 8270C | III |
| 22-Mar-2012 | SL-055-NBZ-SS-0.0-0.5 | C229-03 | N | 3550B | 8270C SIM | III |
| 22-Mar-2012 | SL-055-NBZ-SS-0.0-0.5 | C229-03 | N | 7471A | 7471A | III |
| 22-Mar-2012 | SL-055-NBZ-SS-0.0-0.5 | C229-03 | N | GEN PREP | 300.0 | III |
| 22-Mar-2012 | SL-055-NBZ-SS-0.0-0.5 | C229-03 | N | GEN PREP | 314.0 | III |
| 22-Mar-2012 | SL-055-NBZ-SS-0.0-0.5 | C229-03 | N | GEN PREP | 6020 | III |
| 22-Mar-2012 | SL-055-NBZ-SS-0.0-0.5 | C229-03 | N | GEN PREP | 7199 | III |
| 22-Mar-2012 | SL-055-NBZ-SS-0.0-0.5 | C229-03 | N | GEN PREP | 8015B | III |
| 22-Mar-2012 | SL-055-NBZ-SS-0.0-0.5 | C229-03 | N | GEN PREP | 8015M | III |
| 22-Mar-2012 | SL-055-NBZ-SS-0.0-0.5 | C229-03 | N | GEN PREP | 8151A | III |
| 22-Mar-2012 | SL-055-NBZ-SS-0.0-0.5 | C229-03 | N | GEN PREP | 8330A | III |
| 22-Mar-2012 | SL-055-NBZ-SS-0.0-0.5 | C229-03 | N | GEN PREP | 8332 | III |
| 22-Mar-2012 | SL-055-NBZ-SS-0.0-0.5 | C229-03 | N | GEN PREP | 9014 | III |
| 22-Mar-2012 | SL-055-NBZ-SS-0.0-0.5 | C229-03R | N | GEN PREP | 7199 | III |
| 22-Mar-2012 | SL-054-NBZ-SS-0.0-0.5 | C229-02 | N | 3550B | 8015B EFH | III |
| 22-Mar-2012 | SL-054-NBZ-SS-0.0-0.5 | C229-02 | N | 3550B | 8081A | III |
| 22-Mar-2012 | SL-054-NBZ-SS-0.0-0.5 | C229-02 | N | 3550B | 8082 | III |
| 22-Mar-2012 | SL-054-NBZ-SS-0.0-0.5 | C229-02 | N | 3550B | 8270C | III |
| 22-Mar-2012 | SL-054-NBZ-SS-0.0-0.5 | C229-02 | N | 3550B | 8270C SIM | III |
| 22-Mar-2012 | SL-054-NBZ-SS-0.0-0.5 | C229-02 | N | 7471A | 7471A | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 22-Mar-2012 | SL-054-NBZ-SS-0.0-0.5 | C229-02 | N | GEN PREP | 300.0 | III |
| 22-Mar-2012 | SL-054-NBZ-SS-0.0-0.5 | C229-02 | N | GEN PREP | 314.0 | III |
| 22-Mar-2012 | SL-054-NBZ-SS-0.0-0.5 | C229-02 | N | GEN PREP | 6020 | III |
| 22-Mar-2012 | SL-054-NBZ-SS-0.0-0.5 | C229-02 | N | GEN PREP | 7199 | III |
| 22-Mar-2012 | SL-054-NBZ-SS-0.0-0.5 | C229-02 | N | GEN PREP | 8015B | III |
| 22-Mar-2012 | SL-054-NBZ-SS-0.0-0.5 | C229-02 | N | GEN PREP | 8015M | III |
| 22-Mar-2012 | SL-054-NBZ-SS-0.0-0.5 | C229-02 | N | GEN PREP | 8151A | III |
| 22-Mar-2012 | SL-054-NBZ-SS-0.0-0.5 | C229-02 | N | GEN PREP | 8330A | III |
| 22-Mar-2012 | SL-054-NBZ-SS-0.0-0.5 | C229-02 | N | GEN PREP | 8332 | III |
| 22-Mar-2012 | SL-054-NBZ-SS-0.0-0.5 | C229-02 | N | GEN PREP | 9014 | III |
| 22-Mar-2012 | SL-054-NBZ-SS-0.0-0.5 | C229-02R | N | GEN PREP | 7199 | III |
| 22-Mar-2012 | SL-054-NBZ-SS-0.0-0.5 | C229-02W | N | 3550B | 8082 | III |
| 22-Mar-2012 | SL-116-NBZ-SS-0.0-0.5 | C229-08 | N | 3550B | 8081A | III |
| 22-Mar-2012 | SL-116-NBZ-SS-0.0-0.5 | C229-08 | N | 3550B | 8082 | III |
| 22-Mar-2012 | SL-116-NBZ-SS-0.0-0.5 | C229-08 | N | 3550B | 8270C | III |
| 22-Mar-2012 | SL-116-NBZ-SS-0.0-0.5 | C229-08 | N | 3550B | 8270C SIM | III |
| 22-Mar-2012 | SL-116-NBZ-SS-0.0-0.5 | C229-08 | N | 7471A | 7471A | III |
| 22-Mar-2012 | SL-116-NBZ-SS-0.0-0.5 | C229-08 | N | GEN PREP | 300.0 | III |
| 22-Mar-2012 | SL-116-NBZ-SS-0.0-0.5 | C229-08 | N | GEN PREP | 314.0 | III |
| 22-Mar-2012 | SL-116-NBZ-SS-0.0-0.5 | C229-08 | N | GEN PREP | 6020 | III |
| 22-Mar-2012 | SL-116-NBZ-SS-0.0-0.5 | C229-08 | N | GEN PREP | 7199 | III |
| 22-Mar-2012 | SL-116-NBZ-SS-0.0-0.5 | C229-08 | N | GEN PREP | 8151A | III |
| 22-Mar-2012 | SL-116-NBZ-SS-0.0-0.5 | C229-08R | N | GEN PREP | 7199 | III |
| 22-Mar-2012 | EB-NBZ-SB-032212 | C229-01 | EB | 3520C | 8015B EFH | III |
| 22-Mar-2012 | EB-NBZ-SB-032212 | C229-01 | EB | 3520C | 8082 | III |
| 22-Mar-2012 | EB-NBZ-SB-032212 | C229-01 | EB | 3520C | 8270C | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 22-Mar-2012 | EB-NBZ-SB-032212 | C229-01 | EB | 5030B | 8015B GRO | III |
| 22-Mar-2012 | EB-NBZ-SB-032212 | C229-01 | EB | 7470A | 7470A | III |
| 22-Mar-2012 | EB-NBZ-SB-032212 | C229-01 | EB | GEN PREP | 300.0 | III |
| 22-Mar-2012 | EB-NBZ-SB-032212 | C229-01 | EB | GEN PREP | 314.0 | III |
| 22-Mar-2012 | EB-NBZ-SB-032212 | C229-01 | EB | GEN PREP | 6020 | III |
| 22-Mar-2012 | EB-NBZ-SB-032212 | C229-01 | EB | GEN PREP | 7199 | III |
| 22-Mar-2012 | EB-NBZ-SB-032212 | C229-01 | EB | GEN PREP | 8015B | III |
| 22-Mar-2012 | EB-NBZ-SB-032212 | C229-01 | EB | GEN PREP | 8015M | III |
| 22-Mar-2012 | EB-NBZ-SB-032212 | C229-01 | EB | GEN PREP | 8330A | III |
| 22-Mar-2012 | EB-NBZ-SB-032212 | C229-01 | EB | GEN PREP | 8332 | III |
| 22-Mar-2012 | EB-NBZ-SB-032212 | C229-01 | EB | GEN PREP | 9014 | III |
| 22-Mar-2012 | EB-NBZ-SB-032212 | C229-01R | EB | GEN PREP | 7199 | III |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Attachment II

# Overall Data Qualification Summary

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C229** **Laboratory: EMXT**

**EDD Filename: 12C229R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: GENCHEM**
**Method: 300.0** **Matrix: SO**

*Sample ID:* SL-061-NBZ-SB-1.0-2.0 *Collected:* 3/22/2012 9:30:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.584 | J | 0.525 | MDL | 1.05 | PQL | MG/KG | J | Z |

**Method Category: METALS**
**Method: 6020** **Matrix: AQ**

*Sample ID:* EB-NBZ-SB-032212 *Collected:* 3/22/2012 3:30:00 *Analysis Type:* RES/TOT *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ALUMINUM | 0.0458 | J | 0.0200 | MDL | 0.100 | PQL | MG/L | J | Z |
| CALCIUM | 0.0365 | J | 0.0250 | MDL | 0.100 | PQL | MG/L | J | Z |
| CHROMIUM | 0.000820 | J | 0.000200 | MDL | 0.00100 | PQL | MG/L | J | Z |
| IRON | 0.0177 | J | 0.0100 | MDL | 0.100 | PQL | MG/L | J | Z |
| LEAD | 0.000121 | J | 0.000100 | MDL | 0.00100 | PQL | MG/L | J | Z |
| MANGANESE | 0.000213 | J | 0.000200 | MDL | 0.00100 | PQL | MG/L | J | Z |
| SODIUM | 0.0505 | J | 0.0500 | MDL | 0.100 | PQL | MG/L | J | Z |

**Method Category: METALS**
**Method: 6020** **Matrix: SO**

*Sample ID:* SL-054-NBZ-SS-0.0-0.5 *Collected:* 3/22/2012 1:45:00 *Analysis Type:* RES/TOT *Dilution:* 0.976

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| IRON | 14100 | | 10.6 | MDL | 21.2 | PQL | MG/KG | J | E |
| Zirconium | 5.30 | U | 2.65 | MDL | 5.30 | PQL | MG/KG | UJ | Q |

*Sample ID:* SL-055-NBZ-SS-0.0-0.5 *Collected:* 3/22/2012 11:25:00 *Analysis Type:* RES/TOT *Dilution:* 0.980

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.198 | J | 0.109 | MDL | 0.217 | PQL | MG/KG | J | Z |
| IRON | 19600 | | 10.9 | MDL | 21.7 | PQL | MG/KG | J | E |
| SILVER | 0.0567 | J | 0.0543 | MDL | 0.109 | PQL | MG/KG | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C229** **Laboratory: EMXT**

**EDD Filename: 12C229R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: METALS**

**Method: 6020** **Matrix: SO**

*Sample ID:* **SL-055-NBZ-SS-0.0-0.5** *Collected:* **3/22/2012 11:25:00** *Analysis Type:* **RES/TOT** *Dilution:* **0.980**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| SODIUM | 55.1 | J | 54.3 | MDL | 109 | PQL | MG/KG | J | Z |
| Zirconium | 5.43 | U | 2.71 | MDL | 5.43 | PQL | MG/KG | UJ | Q |

*Sample ID:* **SL-059-NBZ-SS-0.0-0.5** *Collected:* **3/22/2012 10:50:00** *Analysis Type:* **RES/TOT** *Dilution:* **0.980**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.163 | J | 0.107 | MDL | 0.214 | PQL | MG/KG | J | Z |
| IRON | 19500 | | 10.7 | MDL | 21.4 | PQL | MG/KG | J | E |
| SODIUM | 57.1 | J | 53.4 | MDL | 107 | PQL | MG/KG | J | Z |
| Zirconium | 5.34 | U | 2.67 | MDL | 5.34 | PQL | MG/KG | UJ | Q |

*Sample ID:* **SL-060-NBZ-SS-0.0-0.5** *Collected:* **3/22/2012 10:25:00** *Analysis Type:* **RES/TOT** *Dilution:* **0.985**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BORON | 3.56 | J | 2.61 | MDL | 5.21 | PQL | MG/KG | J | Z |
| IRON | 24200 | | 10.4 | MDL | 20.8 | PQL | MG/KG | J | E |
| SILVER | 0.0766 | J | 0.0521 | MDL | 0.104 | PQL | MG/KG | J | Z |
| TIN | 7.37 | J | 5.21 | MDL | 10.4 | PQL | MG/KG | J | Z |
| Zirconium | 5.21 | U | 2.61 | MDL | 5.21 | PQL | MG/KG | UJ | Q |

*Sample ID:* **SL-061-NBZ-SB-1.0-2.0** *Collected:* **3/22/2012 9:30:00** *Analysis Type:* **RES/TOT** *Dilution:* **0.995**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| IRON | 19000 | | 10.5 | MDL | 20.9 | PQL | MG/KG | J | E |
| SODIUM | 63.2 | J | 52.3 | MDL | 105 | PQL | MG/KG | J | Z |
| Zirconium | 5.23 | U | 2.61 | MDL | 5.23 | PQL | MG/KG | UJ | Q |

*Sample ID:* **SL-116-NBZ-SS-0.0-0.5** *Collected:* **3/22/2012 3:00:00** *Analysis Type:* **RES/TOT** *Dilution:* **0.980**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| IRON | 25900 | | 11.0 | MDL | 21.9 | PQL | MG/KG | J | E |
| SELENIUM | 0.291 | J | 0.219 | MDL | 0.438 | PQL | MG/KG | J | Z |
| SILVER | 0.0549 | J | 0.0548 | MDL | 0.110 | PQL | MG/KG | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C229** **Laboratory: EMXT**

**EDD Filename: 12C229R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: METALS**

**Method: 6020** **Matrix: SO**

*Sample ID:* **SL-116-NBZ-SS-0.0-0.5** *Collected:* **3/22/2012 3:00:00** *Analysis Type:* **RES/TOT** *Dilution:* **0.980**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| SODIUM | 60.2 | J | 54.8 | MDL | 110 | PQL | MG/KG | J | Z |
| Zirconium | 5.48 | U | 2.74 | MDL | 5.48 | PQL | MG/KG | UJ | Q |

**Method Category: SVOA**

**Method: 8015B EFH** **Matrix: SO**

*Sample ID:* **SL-054-NBZ-SS-0.0-0.5** *Collected:* **3/22/2012 1:45:00** *Analysis Type:* **RES** *Dilution:* **1**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C15-C20) | 0.84 | J | 0.54 | MDL | 1.1 | PQL | MG/KG | J | Z |
| EFH(C8-C11) | 0.68 | J | 0.54 | MDL | 1.1 | PQL | MG/KG | J | Z |

*Sample ID:* **SL-055-NBZ-SS-0.0-0.5** *Collected:* **3/22/2012 11:25:00** *Analysis Type:* **RES** *Dilution:* **1**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C8-C11) | 0.71 | J | 0.55 | MDL | 1.1 | PQL | MG/KG | J | Z |

*Sample ID:* **SL-059-NBZ-SS-0.0-0.5** *Collected:* **3/22/2012 10:50:00** *Analysis Type:* **RES** *Dilution:* **1**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C8-C11) | 0.69 | J | 0.54 | MDL | 1.1 | PQL | MG/KG | J | Z |

*Sample ID:* **SL-060-NBZ-SS-0.0-0.5** *Collected:* **3/22/2012 10:25:00** *Analysis Type:* **RES** *Dilution:* **1**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C8-C11) | 0.74 | J | 0.53 | MDL | 1.1 | PQL | MG/KG | J | Z |

*Sample ID:* **SL-061-NBZ-SB-1.0-2.0** *Collected:* **3/22/2012 9:30:00** *Analysis Type:* **RES** *Dilution:* **1**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C8-C11) | 0.55 | J | 0.53 | MDL | 1.1 | PQL | MG/KG | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID:** 12C229 **Laboratory:** EMXT

**EDD Filename:** 12C229R **eQAPP Name:** CDM_SSFL_120730_EMAX

**Method Category:** SVOA
**Method:** 8082 **Matrix:** SO

*Sample ID:* SL-059-NBZ-SS-0.0-0.5 *Collected:* 3/22/2012 10:50:00 *Analysis Type:* DL1-BASE/NEUTRAL *Dilution:* 4

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| AROCLOR 1248 | 150 | | 3.7 | MDL | 7.4 | PQL | UG/KG | J | S |

**Method Category:** SVOA
**Method:** 8270C SIM **Matrix:** SO

*Sample ID:* SL-054-NBZ-SS-0.0-0.5 *Collected:* 3/22/2012 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTHRACENE | 1.5 | J | 0.92 | MDL | 1.8 | PQL | UG/KG | J | Z |
| Di-n-butylphthalate | 11 | J | 9.1 | MDL | 18 | PQL | UG/KG | J | Z |

*Sample ID:* SL-055-NBZ-SS-0.0-0.5 *Collected:* 3/22/2012 11:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BENZO(A)PYRENE | 1.4 | J | 0.94 | MDL | 1.9 | PQL | UG/KG | J | Z |
| CHRYSENE | 1.4 | J | 0.94 | MDL | 1.9 | PQL | UG/KG | J | Z |

*Sample ID:* SL-059-NBZ-SS-0.0-0.5 *Collected:* 3/22/2012 10:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BENZO(G,H,I)PERYLENE | 1.7 | J | 0.93 | MDL | 1.9 | PQL | UG/KG | J | Z |
| PYRENE | 1.8 | J | 0.93 | MDL | 1.9 | PQL | UG/KG | J | Z |

**Method Category:** VOA
**Method:** 8015B GRO **Matrix:** AQ

*Sample ID:* EB-NBZ-SB-032212 *Collected:* 3/22/2012 3:30:00 *Analysis Type:* RES *Dilution:* 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 11 | J | 10 | MDL | 50 | PQL | UG/L | U | T |

* denotes a non-reportable result

**Project Name and Number:** 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C229** **Laboratory: EMXT**

**EDD Filename: 12C229R** **eQAPP Name: CDM_SSFL_120730_EMAX**

***Method Category:*** **VOA**

***Method:*** **8015B GRO** ***Matrix:*** **AQ**

***Sample ID:*** TB-032212 ***Collected:*** 3/22/2012 8:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

| *Analyte* | *Lab Result* | *Lab Qual* | *DL* | *DL Type* | *RL* | *RL Type* | *Units* | *Data Review Qual* | *Reason Code* |
|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 18 | J | 10 | MDL | 50 | PQL | UG/L | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C229** **Laboratory: EMXT**

**EDD Filename: 12C229R** **eQAPP Name: CDM_SSFL_120730_EMAX**

## Reason Code Legend

| *Reason Code* | *Description* |
|---|---|
| E | Matrix Spike Precision |
| Q | Matrix Spike Lower Estimation |
| Q | Matrix Spike Precision |
| S | Surrogate/Tracer Recovery Lower Estimation |
| T | Trip Blank Contamination |
| Z | Reporting Limit Trace Value |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Enclosure I

# Level III ADR Outliers
# (including Manual Review Outliers)

# Quality Control Outlier Reports

# 12C229

# Trip Blank Outlier Report

**Lab Reporting Batch ID: 12C229** **Laboratory: EMXT**

**EDD Filename: 12C229R** **eQAPP Name: CDM_SSFL_120730_EMAX**

***Method:*** **8015B GRO**
***Matrix:*** **AQ**

| Trip Blank Sample ID | Collected Date | Analyte | Result | Associated Samples |
|---|---|---|---|---|
| TB-032212(RES) | 3/22/2012 8:00:00 AM | GASOLINE RANGE ORGANICS (C5-C12) | 18 UG/L | EB-NBZ-SB-032212<br>SL-054-NBZ-SS-0.0-0.5<br>SL-055-NBZ-SS-0.0-0.5<br>SL-059-NBZ-SS-0.0-0.5<br>SL-060-NBZ-SS-0.0-0.5<br>SL-061-NBZ-SB-1.0-2.0<br>SL-061-NBZ-SB-1.5<br>SL-116-NBZ-SS-0.0-0.5 |

***The following samples and their listed target analytes were qualified due to contamination reported in this blank***

| Sample ID | Analyte | Reported Result | Modified Final Result |
|---|---|---|---|
| EB-NBZ-SB-032212(RES) | GASOLINE RANGE ORGANICS (C5-C12) | 11 UG/L | 50U UG/L |

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# *Surrogate Outlier Report*

**Lab Reporting Batch ID: 12C229** **Laboratory: EMXT**

**EDD Filename: 12C229R** **eQAPP Name: CDM_SSFL_120730_EMAX**

***Method:*** **8082**
***Matrix:*** **SO**

| *Sample ID (Analysis Type)* | *Surrogate* | *Sample % Recovery* | *% Recovery Limits* | *Affected Compounds* | *Flag* |
|---|---|---|---|---|---|
| **SL-059-NBZ-SS-0.0-0.5 (DL1)** | DECACHLOROBIPHENYL | 27.8 | 45.00-120.00 | All Target Analytes | J (all detects)<br>UJ (all non-detects) |

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Reporting Limit Outliers

**Lab Reporting Batch ID: 12C229** **Laboratory: EMXT**

**EDD Filename: 12C229R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 6020**
**Matrix: AQ**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| EB-NBZ-SB-032212 | ALUMINUM | J | 0.0458 | 0.100 | PQL | MG/L | J (all detects) |
| | CALCIUM | J | 0.0365 | 0.100 | PQL | MG/L | |
| | CHROMIUM | J | 0.000820 | 0.00100 | PQL | MG/L | |
| | IRON | J | 0.0177 | 0.100 | PQL | MG/L | |
| | LEAD | J | 0.000121 | 0.00100 | PQL | MG/L | |
| | MANGANESE | J | 0.000213 | 0.00100 | PQL | MG/L | |
| | SODIUM | J | 0.0505 | 0.100 | PQL | MG/L | |

**Method: 8015B GRO**
**Matrix: AQ**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| EB-NBZ-SB-032212 | GASOLINE RANGE ORGANICS (C5-C12) | J | 11 | 50 | PQL | UG/L | J (all detects) |
| TB-032212 | GASOLINE RANGE ORGANICS (C5-C12) | J | 18 | 50 | PQL | UG/L | J (all detects) |

**Method: 300.0**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-061-NBZ-SB-1.0-2.0 | FLUORIDE | J | 0.584 | 1.05 | PQL | MG/KG | J (all detects) |

**Method: 6020**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-055-NBZ-SS-0.0-0.5 | ANTIMONY | J | 0.198 | 0.217 | PQL | MG/KG | J (all detects) |
| | SILVER | J | 0.0567 | 0.109 | PQL | MG/KG | |
| | SODIUM | J | 55.1 | 109 | PQL | MG/KG | |
| SL-059-NBZ-SS-0.0-0.5 | ANTIMONY | J | 0.163 | 0.214 | PQL | MG/KG | J (all detects) |
| | SODIUM | J | 57.1 | 107 | PQL | MG/KG | |
| SL-060-NBZ-SS-0.0-0.5 | BORON | J | 3.56 | 5.21 | PQL | MG/KG | J (all detects) |
| | SILVER | J | 0.0766 | 0.104 | PQL | MG/KG | |
| | TIN | J | 7.37 | 10.4 | PQL | MG/KG | |
| SL-061-NBZ-SB-1.0-2.0 | SODIUM | J | 63.2 | 105 | PQL | MG/KG | J (all detects) |
| SL-116-NBZ-SS-0.0-0.5 | SELENIUM | J | 0.291 | 0.438 | PQL | MG/KG | J (all detects) |
| | SILVER | J | 0.0549 | 0.110 | PQL | MG/KG | |
| | SODIUM | J | 60.2 | 110 | PQL | MG/KG | |

# Reporting Limit Outliers

**Lab Reporting Batch ID: 12C229** **Laboratory: EMXT**

**EDD Filename: 12C229R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 8015B EFH**

**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-054-NBZ-SS-0.0-0.5 | EFH(C15-C20)<br>EFH(C8-C11) | J<br>J | 0.84<br>0.68 | 1.1<br>1.1 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-055-NBZ-SS-0.0-0.5 | EFH(C8-C11) | J | 0.71 | 1.1 | PQL | MG/KG | J (all detects) |
| SL-059-NBZ-SS-0.0-0.5 | EFH(C8-C11) | J | 0.69 | 1.1 | PQL | MG/KG | J (all detects) |
| SL-060-NBZ-SS-0.0-0.5 | EFH(C8-C11) | J | 0.74 | 1.1 | PQL | MG/KG | J (all detects) |
| SL-061-NBZ-SB-1.0-2.0 | EFH(C8-C11) | J | 0.55 | 1.1 | PQL | MG/KG | J (all detects) |

**Method: 8270C SIM**

**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-054-NBZ-SS-0.0-0.5 | ANTHRACENE<br>Di-n-butylphthalate | J<br>J | 1.5<br>11 | 1.8<br>18 | PQL<br>PQL | UG/KG<br>UG/KG | J (all detects) |
| SL-055-NBZ-SS-0.0-0.5 | BENZO(A)PYRENE<br>CHRYSENE | J<br>J | 1.4<br>1.4 | 1.9<br>1.9 | PQL<br>PQL | UG/KG<br>UG/KG | J (all detects) |
| SL-059-NBZ-SS-0.0-0.5 | BENZO(G,H,I)PERYLENE<br>PYRENE | J<br>J | 1.7<br>1.8 | 1.9<br>1.9 | PQL<br>PQL | UG/KG<br>UG/KG | J (all detects) |

LDC #: 28255G4 **VALIDATION COMPLETENESS WORKSHEET** Date: 8/29/12
SDG #: 12C229 ADR Page: 1 of 1
Laboratory: EMAX Laboratories, Inc. Reviewer: CL
2nd Reviewer: ✓

**METHOD:** Metals (EPA SW 846 Method ~~6010B~~/6020A/~~7000~~ 7470A/7471A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|---|---|---|---|
| I. | Technical holding times | A | Sampling dates: 3/22/12 |
| II. | ICP/MS Tune | — | |
| III. | Calibration | — | |
| IV. | Blanks | A | |
| V. | ICP Interference Check Sample (ICS) Analysis | — | |
| VI. | Matrix Spike Analysis | N | MS/D (from SDG: 12C254) |
| VII. | Duplicate Sample Analysis | N | |
| VIII. | Laboratory Control Samples (LCS) | N | LCS/D |
| IX. | Internal Standard (ICP-MS) | N | |
| X. | Furnace Atomic Absorption QC | N | |
| XI. | ICP Serial Dilution | A | |
| XII. | Sample Result Verification | N | |
| XIII. | Overall Assessment of Data | N | |
| XIV. | Field Duplicates | — | |
| XV | Field Blanks | SW | FB=1, EB-NBZ-SS-032212 (12C229) |

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Soil/water

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | EB-NBZ-SB-032212 W | 11 | | 21 | | 31 | |
| 2 | SL-054-NBZ-SS-0.0-0.5 | 12 | | 22 | | 32 | |
| 3 | SL-055-NBZ-SS-0.0-0.5 | 13 | | 23 | | 33 | |
| 4 | SL-059-NBZ-SS-0.0-0.5 | 14 | | 24 | | 34 | |
| 5 | SL-060-NBZ-SS-0.0-0.5 | 15 | | 25 | | 35 | |
| 6 | SL-061-NBZ-SB-1.0-2.0 | 16 | | 26 | | 36 | |
| 7 | SL-116-NBZ-SS-0.0-0.5 | 17 | | 27 | | 37 | |
| 8 | | 18 | | 28 | | 38 | |
| 9 | | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

Notes: _____

LDC #: 28255G4

# VALIDATION FINDINGS WORKSHEET
## Field Blanks


Reviewer: QL
2nd Reviewer: LA

**METHOD:** Trace Metals (EPA SW846 6010B/7000)

**Blank units:** mg/L **Associated sample units:** mg/Kg
**Sampling date:** 3/22/12 Soil factor applied 50x
**Field blank type:** (circle one) Field Blank / Rinsate / Other: Associated Samples: 6

| Analyte | Blank ID | Sample Identification | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EB-NBZ-SB-032212 (SDG: 12C229) | Action Limit | No Qualifiers | | | | | | | | | | |
| Al | 0.0458 | 11.45 | | | | | | | | | | | |
| Ca | 0.0365 | 9.125 | | | | | | | | | | | |
| Cr | 0.000820 | 0.205 | | | | | | | | | | | |
| Cu | 0.00155 | 0.3875 | | | | | | | | | | | |
| Fe | 0.0177 | 4.425 | | | | | | | | | | | |
| Pb | 0.000121 | 0.03025 | | | | | | | | | | | |
| Mn | 0.000213 | 0.05325 | | | | | | | | | | | |
| Na | 0.0505 | 12.625 | | | | | | | | | | | |

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

# SAMPLE DELIVERY GROUP

# 12C254

# Attachment I

# Sample ID Cross Reference and Data Review Level

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 23-Mar-2012 | TB-032212 | C254-12 | TB | 5030B | 8015B GRO | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5 | C254-08 | N | 3550B | 8015B EFH | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5 | C254-08 | N | 3550B | 8081A | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5 | C254-08 | N | 3550B | 8082 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5 | C254-08 | N | 3550B | 8270C | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5 | C254-08 | N | 3550B | 8270C SIM | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5 | C254-08 | N | 7471A | 7471A | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5 | C254-08 | N | GEN PREP | 300.0 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5 | C254-08 | N | GEN PREP | 314.0 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5 | C254-08 | N | GEN PREP | 6020 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5 | C254-08 | N | GEN PREP | 7199 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5 | C254-08 | N | GEN PREP | 8015B | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5 | C254-08 | N | GEN PREP | 8015M | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5 | C254-08 | N | GEN PREP | 8151A | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5 | C254-08 | N | GEN PREP | 8330A | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5 | C254-08 | N | GEN PREP | 8332 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5 | C254-08 | N | GEN PREP | 9014 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MS | C254-08G | MS | GEN PREP | 7199 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MS | C254-08G1 | MS | GEN PREP | 7199 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MSD | C254-08H | MSD | GEN PREP | 7199 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MSD | C254-08H1 | MSD | GEN PREP | 7199 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5 | C254-08I | N | 3550B | 8082 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MS | C254-08M | MS | 3550B | 8015B EFH | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MS | C254-08M | MS | 3550B | 8081A | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MS | C254-08M | MS | 3550B | 8082 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MS | C254-08M | MS | 3550B | 8270C | IV |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MS | C254-08M | MS | 3550B | 8270C SIM | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MS | C254-08M | MS | 7471A | 7471A | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MS | C254-08M | MS | GEN PREP | 300.0 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MS | C254-08M | MS | GEN PREP | 314.0 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MS | C254-08M | MS | GEN PREP | 6020 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MS | C254-08M | MS | GEN PREP | 7199 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MS | C254-08M | MS | GEN PREP | 8015B | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MS | C254-08M | MS | GEN PREP | 8015M | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MS | C254-08M | MS | GEN PREP | 8151A | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MS | C254-08M | MS | GEN PREP | 8330A | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MS | C254-08M | MS | GEN PREP | 8332 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MS | C254-08M | MS | GEN PREP | 9014 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MS | C254-08M1 | MS | GEN PREP | 7199 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5 | C254-08R | N | GEN PREP | 7199 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | MSD | 3550B | 8015B EFH | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | MSD | 3550B | 8081A | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | MSD | 3550B | 8082 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | MSD | 3550B | 8270C | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | MSD | 3550B | 8270C SIM | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | MSD | 7471A | 7471A | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | MSD | GEN PREP | 300.0 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | MSD | GEN PREP | 314.0 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | MSD | GEN PREP | 6020 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | MSD | GEN PREP | 7199 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | MSD | GEN PREP | 8015B | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | MSD | GEN PREP | 8015M | IV |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | MSD | GEN PREP | 8151A | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | MSD | GEN PREP | 8330A | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | MSD | GEN PREP | 8332 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MSD | C254-08S | MSD | GEN PREP | 9014 | IV |
| 23-Mar-2012 | SL-057-NBZ-SS-0.0-0.5MSD | C254-08S1 | MSD | GEN PREP | 7199 | IV |
| 23-Mar-2012 | DUP-02-NBZ-QC-032312 | C254-09 | FD | 3550B | 8015B EFH | IV |
| 23-Mar-2012 | DUP-02-NBZ-QC-032312 | C254-09 | FD | 3550B | 8081A | IV |
| 23-Mar-2012 | DUP-02-NBZ-QC-032312 | C254-09 | FD | 3550B | 8082 | IV |
| 23-Mar-2012 | DUP-02-NBZ-QC-032312 | C254-09 | FD | 7471A | 7471A | IV |
| 23-Mar-2012 | DUP-02-NBZ-QC-032312 | C254-09 | FD | GEN PREP | 300.0 | IV |
| 23-Mar-2012 | DUP-02-NBZ-QC-032312 | C254-09 | FD | GEN PREP | 314.0 | IV |
| 23-Mar-2012 | DUP-02-NBZ-QC-032312 | C254-09 | FD | GEN PREP | 6020 | IV |
| 23-Mar-2012 | DUP-02-NBZ-QC-032312 | C254-09 | FD | GEN PREP | 7199 | IV |
| 23-Mar-2012 | DUP-02-NBZ-QC-032312 | C254-09 | FD | GEN PREP | 8015B | IV |
| 23-Mar-2012 | DUP-02-NBZ-QC-032312 | C254-09 | FD | GEN PREP | 8015M | IV |
| 23-Mar-2012 | DUP-02-NBZ-QC-032312 | C254-09 | FD | GEN PREP | 8151A | IV |
| 23-Mar-2012 | DUP-02-NBZ-QC-032312 | C254-09 | FD | GEN PREP | 8330A | IV |
| 23-Mar-2012 | DUP-02-NBZ-QC-032312 | C254-09 | FD | GEN PREP | 8332 | IV |
| 23-Mar-2012 | DUP-02-NBZ-QC-032312 | C254-09 | FD | GEN PREP | 9014 | IV |
| 23-Mar-2012 | DUP-02-NBZ-QC-032312 | C254-09R | FD | GEN PREP | 7199 | IV |
| 23-Mar-2012 | DUP-02-NBZ-QC-032312 | C254-09W | FD | 3550B | 8270C | IV |
| 23-Mar-2012 | DUP-02-NBZ-QC-032312 | C254-09W | FD | 3550B | 8270C SIM | IV |
| 23-Mar-2012 | SL-051-NBZ-SB-1.5-2.5 | C254-07 | N | 3550B | 8015B EFH | IV |
| 23-Mar-2012 | SL-051-NBZ-SB-1.5-2.5 | C254-07 | N | 3550B | 8082 | IV |
| 23-Mar-2012 | SL-051-NBZ-SB-1.5-2.5 | C254-07 | N | 3550B | 8270C | IV |
| 23-Mar-2012 | SL-051-NBZ-SB-1.5-2.5 | C254-07 | N | 3550B | 8270C SIM | IV |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 23-Mar-2012 | SL-051-NBZ-SB-1.5-2.5 | C254-07 | N | 7471A | 7471A | IV |
| 23-Mar-2012 | SL-051-NBZ-SB-1.5-2.5 | C254-07 | N | GEN PREP | 300.0 | IV |
| 23-Mar-2012 | SL-051-NBZ-SB-1.5-2.5 | C254-07 | N | GEN PREP | 314.0 | IV |
| 23-Mar-2012 | SL-051-NBZ-SB-1.5-2.5 | C254-07 | N | GEN PREP | 6020 | IV |
| 23-Mar-2012 | SL-051-NBZ-SB-1.5-2.5 | C254-07 | N | GEN PREP | 7199 | IV |
| 23-Mar-2012 | SL-051-NBZ-SB-1.5-2.5 | C254-07 | N | GEN PREP | 8015B | IV |
| 23-Mar-2012 | SL-051-NBZ-SB-1.5-2.5 | C254-07 | N | GEN PREP | 8015M | IV |
| 23-Mar-2012 | SL-051-NBZ-SB-1.5-2.5 | C254-07 | N | GEN PREP | 8330A | IV |
| 23-Mar-2012 | SL-051-NBZ-SB-1.5-2.5 | C254-07 | N | GEN PREP | 8332 | IV |
| 23-Mar-2012 | SL-051-NBZ-SB-1.5-2.5 | C254-07 | N | GEN PREP | 9014 | IV |
| 23-Mar-2012 | SL-051-NBZ-SB-1.5-2.5 | C254-07R | N | GEN PREP | 7199 | IV |
| 23-Mar-2012 | SL-051-NBZ-SB-2.0 | C254-06 | N | 5035 | 8015B GRO | IV |
| 23-Mar-2012 | SL-049-NBZ-SB-2.5 | C254-04 | N | 5035 | 8015B GRO | IV |
| 23-Mar-2012 | SL-049-NBZ-SB-2.0-3.0 | C254-05 | N | 3550B | 8015B EFH | IV |
| 23-Mar-2012 | SL-049-NBZ-SB-2.0-3.0 | C254-05 | N | 3550B | 8082 | IV |
| 23-Mar-2012 | SL-049-NBZ-SB-2.0-3.0 | C254-05 | N | 3550B | 8270C | IV |
| 23-Mar-2012 | SL-049-NBZ-SB-2.0-3.0 | C254-05 | N | 3550B | 8270C SIM | IV |
| 23-Mar-2012 | SL-049-NBZ-SB-2.0-3.0 | C254-05 | N | 7471A | 7471A | IV |
| 23-Mar-2012 | SL-049-NBZ-SB-2.0-3.0 | C254-05 | N | GEN PREP | 300.0 | IV |
| 23-Mar-2012 | SL-049-NBZ-SB-2.0-3.0 | C254-05 | N | GEN PREP | 6020 | IV |
| 23-Mar-2012 | SL-049-NBZ-SB-2.0-3.0 | C254-05 | N | GEN PREP | 7199 | IV |
| 23-Mar-2012 | SL-049-NBZ-SB-2.0-3.0 | C254-05 | N | GEN PREP | 8015B | IV |
| 23-Mar-2012 | SL-049-NBZ-SB-2.0-3.0 | C254-05 | N | GEN PREP | 8015M | IV |
| 23-Mar-2012 | SL-049-NBZ-SB-2.0-3.0 | C254-05 | N | GEN PREP | 8330A | IV |
| 23-Mar-2012 | SL-049-NBZ-SB-2.0-3.0 | C254-05 | N | GEN PREP | 8332 | IV |
| 23-Mar-2012 | SL-049-NBZ-SB-2.0-3.0 | C254-05 | N | GEN PREP | 9014 | IV |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 23-Mar-2012 | SL-049-NBZ-SB-2.0-3.0 | C254-05R | N | GEN PREP | 7199 | IV |
| 23-Mar-2012 | SL-049-NBZ-SB-2.0-3.0 | C254-05W | N | GEN PREP | 314.0 | IV |
| 23-Mar-2012 | SL-048-NBZ-SS-0.0-0.5 | C254-01 | N | 3550B | 8015B EFH | IV |
| 23-Mar-2012 | SL-048-NBZ-SS-0.0-0.5 | C254-01 | N | 3550B | 8081A | IV |
| 23-Mar-2012 | SL-048-NBZ-SS-0.0-0.5 | C254-01 | N | 3550B | 8082 | IV |
| 23-Mar-2012 | SL-048-NBZ-SS-0.0-0.5 | C254-01 | N | 3550B | 8270C | IV |
| 23-Mar-2012 | SL-048-NBZ-SS-0.0-0.5 | C254-01 | N | 3550B | 8270C SIM | IV |
| 23-Mar-2012 | SL-048-NBZ-SS-0.0-0.5 | C254-01 | N | 7471A | 7471A | IV |
| 23-Mar-2012 | SL-048-NBZ-SS-0.0-0.5 | C254-01 | N | GEN PREP | 300.0 | IV |
| 23-Mar-2012 | SL-048-NBZ-SS-0.0-0.5 | C254-01 | N | GEN PREP | 314.0 | IV |
| 23-Mar-2012 | SL-048-NBZ-SS-0.0-0.5 | C254-01 | N | GEN PREP | 6020 | IV |
| 23-Mar-2012 | SL-048-NBZ-SS-0.0-0.5 | C254-01 | N | GEN PREP | 7199 | IV |
| 23-Mar-2012 | SL-048-NBZ-SS-0.0-0.5 | C254-01 | N | GEN PREP | 8015B | IV |
| 23-Mar-2012 | SL-048-NBZ-SS-0.0-0.5 | C254-01 | N | GEN PREP | 8015M | IV |
| 23-Mar-2012 | SL-048-NBZ-SS-0.0-0.5 | C254-01 | N | GEN PREP | 8151A | IV |
| 23-Mar-2012 | SL-048-NBZ-SS-0.0-0.5 | C254-01 | N | GEN PREP | 8330A | IV |
| 23-Mar-2012 | SL-048-NBZ-SS-0.0-0.5 | C254-01 | N | GEN PREP | 8332 | IV |
| 23-Mar-2012 | SL-048-NBZ-SS-0.0-0.5 | C254-01 | N | GEN PREP | 9014 | IV |
| 23-Mar-2012 | SL-048-NBZ-SS-0.0-0.5 | C254-01R | N | GEN PREP | 7199 | IV |
| 23-Mar-2012 | SL-048-NBZ-SB-4.0-5.0 | C254-03 | N | 3550B | 8015B EFH | IV |
| 23-Mar-2012 | SL-048-NBZ-SB-4.0-5.0 | C254-03 | N | 3550B | 8082 | IV |
| 23-Mar-2012 | SL-048-NBZ-SB-4.0-5.0 | C254-03 | N | 3550B | 8270C | IV |
| 23-Mar-2012 | SL-048-NBZ-SB-4.0-5.0 | C254-03 | N | 3550B | 8270C SIM | IV |
| 23-Mar-2012 | SL-048-NBZ-SB-4.0-5.0 | C254-03 | N | 7471A | 7471A | IV |
| 23-Mar-2012 | SL-048-NBZ-SB-4.0-5.0 | C254-03 | N | GEN PREP | 300.0 | IV |
| 23-Mar-2012 | SL-048-NBZ-SB-4.0-5.0 | C254-03 | N | GEN PREP | 314.0 | IV |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Sample Cross Reference

| Date Collected | Field Sample ID | Lab Sample ID | Sample Type | Prep Method | Analytical Method | Review Level |
|---|---|---|---|---|---|---|
| 23-Mar-2012 | SL-048-NBZ-SB-4.0-5.0 | C254-03 | N | GEN PREP | 6020 | IV |
| 23-Mar-2012 | SL-048-NBZ-SB-4.0-5.0 | C254-03 | N | GEN PREP | 7199 | IV |
| 23-Mar-2012 | SL-048-NBZ-SB-4.0-5.0 | C254-03 | N | GEN PREP | 8015B | IV |
| 23-Mar-2012 | SL-048-NBZ-SB-4.0-5.0 | C254-03 | N | GEN PREP | 8015M | IV |
| 23-Mar-2012 | SL-048-NBZ-SB-4.0-5.0 | C254-03 | N | GEN PREP | 8330A | IV |
| 23-Mar-2012 | SL-048-NBZ-SB-4.0-5.0 | C254-03 | N | GEN PREP | 8332 | IV |
| 23-Mar-2012 | SL-048-NBZ-SB-4.0-5.0 | C254-03 | N | GEN PREP | 9014 | IV |
| 23-Mar-2012 | SL-048-NBZ-SB-4.0-5.0 | C254-03R | N | GEN PREP | 7199 | IV |
| 23-Mar-2012 | SL-048-NBZ-SB-4.5 | C254-02 | N | 5035 | 8015B GRO | IV |
| 23-Mar-2012 | SL-047-NBZ-SB-4.0-5.0 | C254-11 | N | 3550B | 8015B EFH | IV |
| 23-Mar-2012 | SL-047-NBZ-SB-4.0-5.0 | C254-11 | N | 3550B | 8082 | IV |
| 23-Mar-2012 | SL-047-NBZ-SB-4.0-5.0 | C254-11 | N | 3550B | 8270C | IV |
| 23-Mar-2012 | SL-047-NBZ-SB-4.0-5.0 | C254-11 | N | 3550B | 8270C SIM | IV |
| 23-Mar-2012 | SL-047-NBZ-SB-4.0-5.0 | C254-11 | N | 7471A | 7471A | IV |
| 23-Mar-2012 | SL-047-NBZ-SB-4.0-5.0 | C254-11 | N | GEN PREP | 300.0 | IV |
| 23-Mar-2012 | SL-047-NBZ-SB-4.0-5.0 | C254-11 | N | GEN PREP | 314.0 | IV |
| 23-Mar-2012 | SL-047-NBZ-SB-4.0-5.0 | C254-11 | N | GEN PREP | 6020 | IV |
| 23-Mar-2012 | SL-047-NBZ-SB-4.0-5.0 | C254-11 | N | GEN PREP | 7199 | IV |
| 23-Mar-2012 | SL-047-NBZ-SB-4.0-5.0 | C254-11 | N | GEN PREP | 8015B | IV |
| 23-Mar-2012 | SL-047-NBZ-SB-4.0-5.0 | C254-11 | N | GEN PREP | 8015M | IV |
| 23-Mar-2012 | SL-047-NBZ-SB-4.0-5.0 | C254-11 | N | GEN PREP | 8330A | IV |
| 23-Mar-2012 | SL-047-NBZ-SB-4.0-5.0 | C254-11 | N | GEN PREP | 8332 | IV |
| 23-Mar-2012 | SL-047-NBZ-SB-4.0-5.0 | C254-11 | N | GEN PREP | 9014 | IV |
| 23-Mar-2012 | SL-047-NBZ-SB-4.0-5.0 | C254-11I | N | 3550B | 8082 | IV |
| 23-Mar-2012 | SL-047-NBZ-SB-4.0-5.0 | C254-11R | N | GEN PREP | 7199 | IV |
| 23-Mar-2012 | SL-047-NBZ-SB-4.5 | C254-10 | N | 5035 | 8015B GRO | IV |

*III = EPA Level 3 Data Review* *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
*IV = EPA Level 4 Data Validation* *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

# Attachment II

# Overall Data Qualification Summary

# Data Qualifier Summary

Lab Reporting Batch ID: 12C254 Laboratory: EMXT

EDD Filename: 12C254R eQAPP Name: CDM_SSFL_120730_EMAX

**Method Category:** GENCHEM

**Method:** 300.0 **Matrix:** SO

***Sample ID:*** DUP-02-NBZ-QC-032312 ***Collected:*** 3/23/2012 9:28:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.637 | J | 0.534 | MDL | 1.07 | PQL | MG/KG | J | Z |
| Nitrate-NO3 | 1.35 | J | 0.801 | MDL | 1.60 | PQL | MG/KG | J | Z, FD |

***Sample ID:*** SL-047-NBZ-SB-4.0-5.0 ***Collected:*** 3/23/2012 3:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.789 | J | 0.524 | MDL | 1.05 | PQL | MG/KG | J | Z |

***Sample ID:*** SL-048-NBZ-SB-4.0-5.0 ***Collected:*** 3/23/2012 12:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.925 | J | 0.524 | MDL | 1.05 | PQL | MG/KG | J | Z |

***Sample ID:*** SL-048-NBZ-SS-0.0-0.5 ***Collected:*** 3/23/2012 12:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.818 | J | 0.567 | MDL | 1.13 | PQL | MG/KG | J | Z |

***Sample ID:*** SL-049-NBZ-SB-2.0-3.0 ***Collected:*** 3/23/2012 11:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.597 | J | 0.519 | MDL | 1.04 | PQL | MG/KG | J | Z |

***Sample ID:*** SL-057-NBZ-SS-0.0-0.5 ***Collected:*** 3/23/2012 9:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 0.652 | J | 0.539 | MDL | 1.08 | PQL | MG/KG | J | Z |
| Nitrate-NO3 | 2.32 | | 0.809 | MDL | 1.62 | PQL | MG/KG | J | FD |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID:** 12C254 **Laboratory:** EMXT

**EDD Filename:** 12C254R **eQAPP Name:** CDM_SSFL_120730_EMAX

**Method Category:** METALS

**Method:** 6020 **Matrix:** SO

**Sample ID:** DUP-02-NBZ-QC-032312 **Collected:** 3/23/2012 9:28:00 **Analysis Type:** RES/TOT **Dilution:** 0.980

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| IRON | 19200 | | 10.5 | MDL | 20.9 | PQL | MG/KG | J | E |
| SODIUM | 54.5 | J | 52.4 | MDL | 105 | PQL | MG/KG | J | Z |
| Zirconium | 5.24 | U | 2.62 | MDL | 5.24 | PQL | MG/KG | UJ | Q |

**Sample ID:** SL-047-NBZ-SB-4.0-5.0 **Collected:** 3/23/2012 3:20:00 **Analysis Type:** RES/TOT **Dilution:** 0.962

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.137 | J | 0.101 | MDL | 0.201 | PQL | MG/KG | J | Z |
| IRON | 17100 | | 10.1 | MDL | 20.1 | PQL | MG/KG | J | E |
| SILVER | 0.0537 | J | 0.0504 | MDL | 0.101 | PQL | MG/KG | J | Z |
| SODIUM | 58.6 | J | 50.4 | MDL | 101 | PQL | MG/KG | J | Z |
| Zirconium | 5.04 | U | 2.52 | MDL | 5.04 | PQL | MG/KG | UJ | Q |

**Sample ID:** SL-048-NBZ-SB-4.0-5.0 **Collected:** 3/23/2012 12:30:00 **Analysis Type:** RES/TOT **Dilution:** 0.971

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.149 | J | 0.102 | MDL | 0.203 | PQL | MG/KG | J | Z |
| CADMIUM | 0.0998 | J | 0.0508 | MDL | 0.102 | PQL | MG/KG | J | Z |
| IRON | 18500 | | 10.2 | MDL | 20.3 | PQL | MG/KG | J | E |
| SELENIUM | 0.301 | J | 0.203 | MDL | 0.407 | PQL | MG/KG | J | Z |
| SODIUM | 67.8 | J | 50.8 | MDL | 102 | PQL | MG/KG | J | Z |
| Zirconium | 5.08 | U | 2.54 | MDL | 5.08 | PQL | MG/KG | UJ | Q |

**Sample ID:** SL-048-NBZ-SS-0.0-0.5 **Collected:** 3/23/2012 12:00:00 **Analysis Type:** RES/TOT **Dilution:** 0.980

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| IRON | 16000 | | 11.1 | MDL | 22.2 | PQL | MG/KG | J | E |
| SODIUM | 86.3 | J | 55.6 | MDL | 111 | PQL | MG/KG | J | Z |
| Zirconium | 5.56 | U | 2.78 | MDL | 5.56 | PQL | MG/KG | UJ | Q |

**Sample ID:** SL-049-NBZ-SB-2.0-3.0 **Collected:** 3/23/2012 11:15:00 **Analysis Type:** RES/TOT **Dilution:** 0.976

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTIMONY | 0.141 | J | 0.101 | MDL | 0.202 | PQL | MG/KG | J | Z |
| IRON | 16200 | | 10.1 | MDL | 20.2 | PQL | MG/KG | J | E |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

Lab Reporting Batch ID: 12C254 Laboratory: EMXT

EDD Filename: 12C254R eQAPP Name: CDM_SSFL_120730_EMAX

**Method Category:** METALS **Method:** 6020 **Matrix:** SO

**Sample ID:** SL-049-NBZ-SB-2.0-3.0 **Collected:** 3/23/2012 11:15:00 **Analysis Type:** RES/TOT **Dilution:** 0.976

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| SELENIUM | 0.258 | J | 0.202 | MDL | 0.405 | PQL | MG/KG | J | Z |
| SODIUM | 61.2 | J | 50.6 | MDL | 101 | PQL | MG/KG | J | Z |
| Zirconium | 5.06 | U | 2.53 | MDL | 5.06 | PQL | MG/KG | UJ | Q |

**Sample ID:** SL-051-NBZ-SB-1.5-2.5 **Collected:** 3/23/2012 10:15:00 **Analysis Type:** RES/TOT **Dilution:** 0.93

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| IRON | 22200 | | 9.64 | MDL | 19.3 | PQL | MG/KG | J | E |
| SODIUM | 81.6 | J | 48.2 | MDL | 96.4 | PQL | MG/KG | J | Z |
| Zirconium | 4.82 | U | 2.41 | MDL | 4.82 | PQL | MG/KG | UJ | Q |

**Sample ID:** SL-057-NBZ-SS-0.0-0.5 **Collected:** 3/23/2012 9:20:00 **Analysis Type:** RES/TOT **Dilution:** 0.962

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| IRON | 20100 | | 10.4 | MDL | 20.8 | PQL | MG/KG | J | E |
| SODIUM | 57.9 | J | 51.9 | MDL | 104 | PQL | MG/KG | J | Z |
| Zirconium | 5.19 | U | 2.59 | MDL | 5.19 | PQL | MG/KG | UJ | Q |

**Method Category:** SVOA **Method:** 8015B EFH **Matrix:** SO

**Sample ID:** DUP-02-NBZ-QC-032312 **Collected:** 3/23/2012 9:28:00 **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C15-C20) | 0.67 | J | 0.53 | MDL | 1.1 | PQL | MG/KG | J | Z |
| EFH(C8-C11) | 0.62 | J | 0.53 | MDL | 1.1 | PQL | MG/KG | J | Z |

**Sample ID:** SL-047-NBZ-SB-4.0-5.0 **Collected:** 3/23/2012 3:20:00 **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C8-C11) | 0.58 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID:** 12C254 **Laboratory:** EMXT

**EDD Filename:** 12C254R **eQAPP Name:** CDM_SSFL_120730_EMAX

**Method Category:** SVOA

**Method:** 8015B EFH **Matrix:** SO

***Sample ID:*** **SL-048-NBZ-SS-0.0-0.5** ***Collected:*** **3/23/2012 12:00:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C12-C14) | 0.85 | J | 0.57 | MDL | 1.1 | PQL | MG/KG | J | Z |
| EFH(C8-C11) | 0.95 | J | 0.57 | MDL | 1.1 | PQL | MG/KG | J | Z |

***Sample ID:*** **SL-051-NBZ-SB-1.5-2.5** ***Collected:*** **3/23/2012 10:15:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C21-C30) | 0.89 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |
| EFH(C8-C11) | 0.54 | J | 0.52 | MDL | 1.0 | PQL | MG/KG | J | Z |

***Sample ID:*** **SL-057-NBZ-SS-0.0-0.5** ***Collected:*** **3/23/2012 9:20:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| EFH(C15-C20) | 0.68 | J | 0.54 | MDL | 1.1 | PQL | MG/KG | J | Z |
| EFH(C8-C11) | 0.73 | J | 0.54 | MDL | 1.1 | PQL | MG/KG | J | Z |

**Method Category:** SVOA

**Method:** 8081A **Matrix:** SO

***Sample ID:*** **DUP-02-NBZ-QC-032312** ***Collected:*** **3/23/2012 9:28:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDE | 0.36 | U | 0.18 | MDL | 0.36 | PQL | UG/KG | UJ | FD |
| BETA-BHC | 0.18 | U | 0.091 | MDL | 0.18 | PQL | UG/KG | UJ | C |
| DELTA-BHC | 0.18 | U | 0.091 | MDL | 0.18 | PQL | UG/KG | UJ | C |
| DIELDRIN | 0.36 | U | 0.18 | MDL | 0.36 | PQL | UG/KG | UJ | FD |
| ENDOSULFAN I | 1.1 | | 0.091 | MDL | 0.18 | PQL | UG/KG | J | FD, *XIII |
| ENDOSULFAN II | 0.36 | U | 0.18 | MDL | 0.36 | PQL | UG/KG | UJ | FD |
| ENDOSULFAN SULFATE | 0.36 | U | 0.18 | MDL | 0.36 | PQL | UG/KG | UJ | FD |
| ENDRIN | 0.27 | J | 0.18 | MDL | 0.36 | PQL | UG/KG | J | Z, *XIII |
| ENDRIN ALDEHYDE | 0.36 | U | 0.18 | MDL | 0.36 | PQL | UG/KG | UJ | FD |
| gamma-BHC (Lindane) | 0.18 | U | 0.091 | MDL | 0.18 | PQL | UG/KG | UJ | C |
| HEPTACHLOR | 0.18 | U | 0.091 | MDL | 0.18 | PQL | UG/KG | UJ | C |
| HEPTACHLOR EPOXIDE | 5.6 | | 0.091 | MDL | 0.18 | PQL | UG/KG | J | FD, *XIII |
| METHOXYCHLOR | 1.8 | U | 0.91 | MDL | 1.8 | PQL | UG/KG | UJ | FD, C |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

Lab Reporting Batch ID: 12C254 Laboratory: EMXT

EDD Filename: 12C254R eQAPP Name: CDM_SSFL_120730_EMAX

**Method Category:** SVOA

**Method:** 8081A **Matrix:** SO

***Sample ID:*** **SL-048-NBZ-SS-0.0-0.5** ***Collected:*** **3/23/2012 12:00:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 0.38 | J | 0.19 | MDL | 0.39 | PQL | UG/KG | J | Z, *XIII |
| 4,4'-DDT | 0.39 | U | 0.19 | MDL | 0.39 | PQL | UG/KG | UJ | C |
| ALDRIN | 0.19 | U | 0.096 | MDL | 0.19 | PQL | UG/KG | UJ | C |
| ALPHA-BHC | 0.19 | U | 0.096 | MDL | 0.19 | PQL | UG/KG | UJ | C |
| BETA-BHC | 0.19 | U | 0.096 | MDL | 0.19 | PQL | UG/KG | UJ | C |
| DELTA-BHC | 0.19 | U | 0.096 | MDL | 0.19 | PQL | UG/KG | UJ | C |
| ENDOSULFAN SULFATE | 10 | | 0.19 | MDL | 0.39 | PQL | UG/KG | J | *XIII |
| gamma-BHC (Lindane) | 0.19 | U | 0.096 | MDL | 0.19 | PQL | UG/KG | UJ | C |
| HEPTACHLOR | 0.19 | U | 0.096 | MDL | 0.19 | PQL | UG/KG | UJ | C |
| HEPTACHLOR EPOXIDE | 0.19 | U | 0.096 | MDL | 0.19 | PQL | UG/KG | UJ | C |
| METHOXYCHLOR | 1.9 | U | 0.96 | MDL | 1.9 | PQL | UG/KG | UJ | C |

***Sample ID:*** **SL-057-NBZ-SS-0.0-0.5** ***Collected:*** **3/23/2012 9:20:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDE | 11 | | 0.18 | MDL | 0.37 | PQL | UG/KG | J | Q, FD, *XIII |
| BETA-BHC | 0.18 | U | 0.092 | MDL | 0.18 | PQL | UG/KG | UJ | C |
| DELTA-BHC | 0.18 | U | 0.092 | MDL | 0.18 | PQL | UG/KG | UJ | C |
| DIELDRIN | 2.6 | | 0.18 | MDL | 0.37 | PQL | UG/KG | J | FD, *XIII |
| ENDOSULFAN I | 0.18 | U | 0.092 | MDL | 0.18 | PQL | UG/KG | UJ | FD |
| ENDOSULFAN II | 0.89 | | 0.18 | MDL | 0.37 | PQL | UG/KG | J | FD |
| ENDOSULFAN SULFATE | 0.32 | J | 0.18 | MDL | 0.37 | PQL | UG/KG | J | Z, FD, *XIII |
| ENDRIN | 0.25 | J | 0.18 | MDL | 0.37 | PQL | UG/KG | J | Z, *XIII |
| ENDRIN ALDEHYDE | 5.5 | | 0.18 | MDL | 0.37 | PQL | UG/KG | J | FD |
| gamma-BHC (Lindane) | 0.18 | U | 0.092 | MDL | 0.18 | PQL | UG/KG | UJ | C |
| HEPTACHLOR | 0.18 | U | 0.092 | MDL | 0.18 | PQL | UG/KG | UJ | C |
| HEPTACHLOR EPOXIDE | 0.18 | U | 0.092 | MDL | 0.18 | PQL | UG/KG | UJ | FD |
| METHOXYCHLOR | 2.2 | | 0.92 | MDL | 1.8 | PQL | UG/KG | J | FD, C, *XIII |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

Lab Reporting Batch ID: 12C254 Laboratory: EMXT

EDD Filename: 12C254R eQAPP Name: CDM_SSFL_120730_EMAX

**Method Category:** SVOA **Method:** 8082 **Matrix:** SO

**Sample ID:** DUP-02-NBZ-QC-032312 **Collected:** 3/23/2012 9:28:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| AROCLOR 1248 | 1.8 | U | 0.91 | MDL | 1.8 | PQL | UG/KG | UJ | FD |
| AROCLOR 1260 | 1.8 | U | 0.91 | MDL | 1.8 | PQL | UG/KG | UJ | FD |
| Aroclor 5460 | 3.5 | U | 1.8 | MDL | 3.5 | PQL | UG/KG | UJ | FD |

**Sample ID:** SL-057-NBZ-SS-0.0-0.5 **Collected:** 3/23/2012 9:20:00 **Analysis Type:** DL1-BASE/NEUTRAL **Dilution:** 100

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| AROCLOR 1242 | 180 | U | 92 | MDL | 180 | PQL | UG/KG | UJ | C |
| AROCLOR 1248 | 4200 | | 92 | MDL | 180 | PQL | UG/KG | J | *XIII, FD |
| AROCLOR 1254 | 180 | U | 92 | MDL | 180 | PQL | UG/KG | UJ | C |
| AROCLOR 1260 | 1500 | | 92 | MDL | 180 | PQL | UG/KG | J | FD, C |
| Aroclor 1262 | 180 | U | 92 | MDL | 180 | PQL | UG/KG | UJ | C |
| Aroclor 1268 | 180 | U | 92 | MDL | 180 | PQL | UG/KG | UJ | C |

**Sample ID:** SL-057-NBZ-SS-0.0-0.5 **Collected:** 3/23/2012 9:20:00 **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 5460 | 26 | | 1.8 | MDL | 3.6 | PQL | UG/KG | J | FD |

**Method Category:** SVOA **Method:** 8151A **Matrix:** SO

**Sample ID:** SL-048-NBZ-SS-0.0-0.5 **Collected:** 3/23/2012 12:00:00 **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-DB | 1.9 | U | 0.96 | MDL | 1.9 | PQL | UG/KG | UJ | C |
| DINOSEB | 1.9 | U | 0.96 | MDL | 1.9 | PQL | UG/KG | UJ | C |
| MCPP | 280 | U | 140 | MDL | 280 | PQL | UG/KG | UJ | C |

**Sample ID:** SL-057-NBZ-SS-0.0-0.5 **Collected:** 3/23/2012 9:20:00 **Analysis Type:** RES **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-DB | 1.8 | U | 0.92 | MDL | 1.8 | PQL | UG/KG | UJ | Q |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID:** 12C254 **Laboratory:** EMXT

**EDD Filename:** 12C254R **eQAPP Name:** CDM_SSFL_120730_EMAX

**Method Category:** SVOA

**Method:** 8270C **Matrix:** SO

***Sample ID:*** **SL-048-NBZ-SB-4.0-5.0** ***Collected:*** **3/23/2012 12:30:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| CARBAZOLE | 110 | J | 88 | MDL | 170 | PQL | UG/KG | J | Z |

***Sample ID:*** **SL-057-NBZ-SS-0.0-0.5** ***Collected:*** **3/23/2012 9:20:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BENZIDINE | 900 | U | 450 | MDL | 900 | PQL | UG/KG | R | Q |

**Method Category:** SVOA

**Method:** 8270C SIM **Matrix:** SO

***Sample ID:*** **DUP-02-NBZ-QC-032312** ***Collected:*** **3/23/2012 9:28:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ACENAPHTHENE | 1.4 | J | 0.91 | MDL | 1.8 | PQL | UG/KG | J | Z, FD |
| ACENAPHTHYLENE | 3.5 | | 0.91 | MDL | 1.8 | PQL | UG/KG | J | FD |
| ANTHRACENE | 7.6 | | 0.91 | MDL | 1.8 | PQL | UG/KG | J | FD |
| BENZO(A)ANTHRACENE | 120 | | 0.91 | MDL | 1.8 | PQL | UG/KG | J | FD |
| BENZO(A)PYRENE | 190 | | 0.91 | MDL | 1.8 | PQL | UG/KG | J | FD |
| BENZO(B)FLUORANTHENE | 250 | | 0.91 | MDL | 1.8 | PQL | UG/KG | J | FD |
| BENZO(G,H,I)PERYLENE | 150 | | 0.91 | MDL | 1.8 | PQL | UG/KG | J | FD |
| BENZO(K)FLUORANTHENE | 80 | | 0.91 | MDL | 1.8 | PQL | UG/KG | J | FD |
| BIS(2-ETHYLHEXYL)PHTHALATE | 21 | | 9.0 | MDL | 18 | PQL | UG/KG | J | FD |
| Butylbenzylphthalate | 14 | J | 9.0 | MDL | 18 | PQL | UG/KG | J | Z |
| CHRYSENE | 150 | | 0.91 | MDL | 1.8 | PQL | UG/KG | J | FD |
| DIBENZO(A,H)ANTHRACENE | 45 | | 0.91 | MDL | 1.8 | PQL | UG/KG | J | FD |
| FLUORANTHENE | 100 | | 0.91 | MDL | 1.8 | PQL | UG/KG | J | FD |
| INDENO(1,2,3-CD)PYRENE | 110 | | 0.91 | MDL | 1.8 | PQL | UG/KG | J | FD |
| NAPHTHALENE | 1.8 | U | 0.91 | MDL | 1.8 | PQL | UG/KG | UJ | FD |
| PHENANTHRENE | 25 | | 0.91 | MDL | 1.8 | PQL | UG/KG | J | FD |
| PYRENE | 140 | | 0.91 | MDL | 1.8 | PQL | UG/KG | J | FD |

***Sample ID:*** **SL-048-NBZ-SB-4.0-5.0** ***Collected:*** **3/23/2012 12:30:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ACENAPHTHYLENE | 1.0 | J | 0.89 | MDL | 1.8 | PQL | UG/KG | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

Lab Reporting Batch ID: 12C254 Laboratory: EMXT

EDD Filename: 12C254R eQAPP Name: CDM_SSFL_120730_EMAX

**Method Category:** SVOA **Method:** 8270C SIM **Matrix:** SO

**Sample ID:** SL-048-NBZ-SB-4.0-5.0 **Collected:** 3/23/2012 12:30:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| Butylbenzylphthalate | 14 | J | 8.8 | MDL | 17 | PQL | UG/KG | J | Z |

**Sample ID:** SL-048-NBZ-SS-0.0-0.5 **Collected:** 3/23/2012 12:00:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ANTHRACENE | 1.2 | J | 0.96 | MDL | 1.9 | PQL | UG/KG | J | Z |
| BIS(2-ETHYLHEXYL)PHTHALATE | 13 | J | 9.5 | MDL | 19 | PQL | UG/KG | J | Z |
| Butylbenzylphthalate | 16 | J | 9.5 | MDL | 19 | PQL | UG/KG | J | Z |

**Sample ID:** SL-049-NBZ-SB-2.0-3.0 **Collected:** 3/23/2012 11:15:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BIS(2-ETHYLHEXYL)PHTHALATE | 16 | J | 8.7 | MDL | 17 | PQL | UG/KG | J | Z |
| CHRYSENE | 1.1 | J | 0.88 | MDL | 1.8 | PQL | UG/KG | J | Z |
| PYRENE | 1.6 | J | 0.88 | MDL | 1.8 | PQL | UG/KG | J | Z |

**Sample ID:** SL-051-NBZ-SB-1.5-2.5 **Collected:** 3/23/2012 10:15:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| Butylbenzylphthalate | 9.3 | J | 8.7 | MDL | 17 | PQL | UG/KG | J | Z |

**Sample ID:** SL-057-NBZ-SS-0.0-0.5 **Collected:** 3/23/2012 9:20:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| ACENAPHTHENE | 1.8 | U | 0.92 | MDL | 1.8 | PQL | UG/KG | UJ | FD |
| ACENAPHTHYLENE | 1.1 | J | 0.92 | MDL | 1.8 | PQL | UG/KG | J | Z, FD |
| ANTHRACENE | 1.8 | U | 0.92 | MDL | 1.8 | PQL | UG/KG | UJ | FD |
| BENZO(A)ANTHRACENE | 15 | | 0.92 | MDL | 1.8 | PQL | UG/KG | J | FD |
| BENZO(A)PYRENE | 25 | | 0.92 | MDL | 1.8 | PQL | UG/KG | J | FD |
| BENZO(B)FLUORANTHENE | 29 | | 0.92 | MDL | 1.8 | PQL | UG/KG | J | FD |
| BENZO(G,H,I)PERYLENE | 23 | | 0.92 | MDL | 1.8 | PQL | UG/KG | J | FD |
| BENZO(K)FLUORANTHENE | 11 | | 0.92 | MDL | 1.8 | PQL | UG/KG | J | FD |
| BIS(2-ETHYLHEXYL)PHTHALATE | 62 | | 9.1 | MDL | 18 | PQL | UG/KG | J | FD |
| Butylbenzylphthalate | 14 | J | 9.1 | MDL | 18 | PQL | UG/KG | J | Z |
| CHRYSENE | 52 | | 0.92 | MDL | 1.8 | PQL | UG/KG | J | FD |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C254** **Laboratory: EMXT**

**EDD Filename: 12C254R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method Category: SVOA**

**Method: 8270C SIM** **Matrix: SO**

***Sample ID:*** **SL-057-NBZ-SS-0.0-0.5** ***Collected:*** **3/23/2012 9:20:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| DIBENZO(A,H)ANTHRACENE | 5.3 | | 0.92 | MDL | 1.8 | PQL | UG/KG | J | FD |
| FLUORANTHENE | 22 | | 0.92 | MDL | 1.8 | PQL | UG/KG | J | FD |
| INDENO(1,2,3-CD)PYRENE | 19 | | 0.92 | MDL | 1.8 | PQL | UG/KG | J | FD |
| NAPHTHALENE | 1.0 | J | 0.92 | MDL | 1.8 | PQL | UG/KG | J | Z, FD |
| PHENANTHRENE | 6.4 | | 0.92 | MDL | 1.8 | PQL | UG/KG | J | FD |
| PYRENE | 24 | | 0.92 | MDL | 1.8 | PQL | UG/KG | J | FD |

**Method Category: VOA**

**Method: 8015B GRO** **Matrix: AQ**

***Sample ID:*** **TB-032212** ***Collected:*** **3/23/2012 8:00:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| GASOLINE RANGE ORGANICS (C5-C12) | 26 | J | 10 | MDL | 50 | PQL | UG/L | J | Z |

* denotes a non-reportable result

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Data Qualifier Summary

**Lab Reporting Batch ID: 12C254** **Laboratory: EMXT**

**EDD Filename: 12C254R** **eQAPP Name: CDM_SSFL_120730_EMAX**

## Reason Code Legend

| *Reason Code* | *Description* |
|---|---|
| *XIII | RPD Between Columns |
| A | ICP Serial Dilution |
| C | Continuing Calibration Verification Percent Difference Lower Estimation |
| E | Matrix Spike Precision |
| FD | Field Duplicate Precision |
| Q | Matrix Spike Lower Estimation |
| Q | Matrix Spike Lower Rejection |
| Q | Matrix Spike Precision |
| Q | Matrix Spike Upper Estimation |
| Z | Reporting Limit Trace Value |

* denotes a non-reportable result

# Enclosure I

# Level III ADR Outliers
# (including Manual Review Outliers)

# Quality Control
# Outlier Reports

# 12C254

# Matrix Spike/Matrix Spike Duplicate Outlier Report

**Lab Reporting Batch ID: 12C254** **Laboratory: EMXT**

**EDD Filename: 12C254R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 8081A**
**Matrix: SO**

| QC Sample ID (Associated Samples) | Compound | MS %R | MSD %R | %R Limits | RPD (Limits) | Affected Compounds | Flag |
|---|---|---|---|---|---|---|---|
| SL-057-NBZ-SS-0.0-0.5MS<br>SL-057-NBZ-SS-0.0-0.5MSD<br>(SL-057-NBZ-SS-0.0-0.5) | 4,4'-DDE | 153 | 167 | 50.00-150.00 | - | 4,4'-DDE | J (all detects) |
| | 4,4'-DDT | 611 | 236 | 30.00-160.00 | 89 (50.00) | 4,4'-DDT | |
| | BETA-BHC | 164 | 181 | 50.00-140.00 | - | BETA-BHC | |
| | DELTA-BHC | 158 | 262 | 30.00-150.00 | - | DELTA-BHC | |
| | HEPTACHLOR | - | 143 | 20.00-140.00 | - | HEPTACHLOR | |
| | HEPTACHLOR EPOXIDE | 142 | 392 | 40.00-140.00 | 94 (50.00) | HEPTACHLOR EPOXIDE | |

**Method: 8082**
**Matrix: SO**

| QC Sample ID (Associated Samples) | Compound | MS %R | MSD %R | %R Limits | RPD (Limits) | Affected Compounds | Flag |
|---|---|---|---|---|---|---|---|
| SL-057-NBZ-SS-0.0-0.5MS<br>SL-057-NBZ-SS-0.0-0.5MSD<br>(SL-057-NBZ-SS-0.0-0.5) | AROCLOR 1016 | 616 | 596 | 20.00-160.00 | - | AROCLOR 1016 | No Qual,<br>Diluted Out |
| SL-057-NBZ-SS-0.0-0.5MS<br>SL-057-NBZ-SS-0.0-0.5MSD<br>(SL-057-NBZ-SS-0.0-0.5) | AROCLOR 1260 | -403 | -376 | 20.00-160.00 | - | AROCLOR 1260 | No Qual<br>Diluted Out |

**Method: 8151A**
**Matrix: SO**

| QC Sample ID (Associated Samples) | Compound | MS %R | MSD %R | %R Limits | RPD (Limits) | Affected Compounds | Flag |
|---|---|---|---|---|---|---|---|
| SL-057-NBZ-SS-0.0-0.5MS<br>SL-057-NBZ-SS-0.0-0.5MSD<br>(SL-057-NBZ-SS-0.0-0.5) | 2,4-DB | 21 | - | 30.00-160.00 | 89 (50.00) | 2,4-DB | J(all detects)<br>UJ(all non-detects) |

**Method: 6020**
**Matrix: SO**

| QC Sample ID (Associated Samples) | Compound | MS %R | MSD %R | %R Limits | RPD (Limits) | Affected Compounds | Flag |
|---|---|---|---|---|---|---|---|
| SL-057-NBZ-SS-0.0-0.5MS<br>(TOT)<br>SL-057-NBZ-SS-0.0-0.5MSD<br>(TOT)<br>(DUP-02-NBZ-QC-032312<br>SL -047-NBZ-SB-4.0-5.0<br>SL -048-NBZ-SB-4.0-5.0<br>SL -048-NBZ-SS-0.0-0.5<br>SL -049-NBZ-SB-2.0-3.0<br>SL -051-NBZ-SB-1.5-2.5<br>SL -057-NBZ-SS-0.0-0.5) | TITANIUM | -117 | 24 | 75.00-125.00 | - | TITANIUM | J(all detects)<br>UJ(all non-detects)<br><br>Ti, No Qual, >4x<br><br>Zr Post Spike = 99% |
| | Zirconium | 28 | 29 | 75.00-125.00 | - | Zirconium | |

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Matrix Spike/Matrix Spike Duplicate Outlier Report

**Lab Reporting Batch ID: 12C254** **Laboratory: EMXT**

**EDD Filename: 12C254R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 6020**
**Matrix: SO**

| QC Sample ID (Associated Samples) | Compound | MS %R | MSD %R | %R Limits | RPD (Limits) | Affected Compounds | Flag |
|---|---|---|---|---|---|---|---|
| **SL-057-NBZ-SS-0.0-0.5MS (TOT)**<br>**SL-057-NBZ-SS-0.0-0.5MSD (TOT)**<br>(DUP-02-NBZ-QC-032312<br>SL -047-NBZ-SB-4.0-5.0<br>SL -048-NBZ-SB-4.0-5.0<br>SL -048-NBZ-SS-0.0-0.5<br>SL -049-NBZ-SB-2.0-3.0<br>SL -051-NBZ-SB-1.5-2.5<br>SL -057-NBZ-SS-0.0-0.5) | IRON<br>MANGANESE | -<br>65 | 293<br>203 | 75.00-125.00<br>75.00-125.00 | 21 (20.00)<br>- | IRON<br>MANGANESE | J(all detects)<br>UJ(all non-detects)<br><br>Fe, Mn,<br>No Qual %R, >4x |

**Method: 8270C**
**Matrix: SO**

| QC Sample ID (Associated Samples) | Compound | MS %R | MSD %R | %R Limits | RPD (Limits) | Affected Compounds | Flag |
|---|---|---|---|---|---|---|---|
| **SL-057-NBZ-SS-0.0-0.5MS**<br>**SL-057-NBZ-SS-0.0-0.5MSD**<br>(SL-057-NBZ-SS-0.0-0.5) | BENZIDINE | 0 | 0 | 10.00-150.00 | - | BENZIDINE | J(all detects)<br>R(all non-detects) |

# Field Duplicate RPD Report

**Lab Reporting Batch ID: 12C254** **Laboratory: EMXT**

**EDD Filename: 12C254R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 300.0**
**Matrix: SO**

| Analyte | Concentration (MG/KG) | | Sample RPD | eQAPP RPD | Flag |
|---|---|---|---|---|---|
| | SL-057-NBZ-SS-0.0-0.5 | DUP-02-NBZ-QC-032312 | | | |
| FLUORIDE | 0.652 | 0.637 | 2 | 50.00 | No Qualifiers Applied |
| Nitrate-NO3 | 2.32 | 1.35 | 53 | 50.00 | J(all detects) |

**Method: 6020**
**Matrix: SO**

| Analyte | Concentration (MG/KG) | | Sample RPD | eQAPP RPD | Flag |
|---|---|---|---|---|---|
| | SL-057-NBZ-SS-0.0-0.5 (TOT) | DUP-02-NBZ-QC-032312 (TOT) | | | |
| ALUMINUM | 12100 | 12400 | 2 | 50.00 | |
| ANTIMONY | 0.387 | 0.325 | 17 | 50.00 | |
| ARSENIC | 4.19 | 3.82 | 9 | 50.00 | |
| BARIUM | 92.4 | 84.1 | 9 | 50.00 | |
| BERYLLIUM | 0.488 | 0.474 | 3 | 50.00 | |
| CADMIUM | 0.226 | 0.188 | 18 | 50.00 | |
| CALCIUM | 2450 | 2350 | 4 | 50.00 | |
| CHROMIUM | 19.4 | 18.1 | 7 | 50.00 | |
| COBALT | 5.29 | 5.13 | 3 | 50.00 | |
| COPPER | 8.03 | 7.48 | 7 | 50.00 | |
| IRON | 20100 | 19200 | 5 | 50.00 | |
| LEAD | 9.74 | 6.74 | 36 | 50.00 | |
| LITHIUM | 28.8 | 29.9 | 4 | 50.00 | No Qualifiers Applied |
| MAGNESIUM | 5370 | 5560 | 3 | 50.00 | |
| MANGANESE | 280 | 266 | 5 | 50.00 | |
| MOLYBDENUM | 0.840 | 0.708 | 17 | 50.00 | |
| NICKEL | 11.8 | 11.4 | 3 | 50.00 | |
| PHOSPHORUS | 399 | 379 | 5 | 50.00 | |
| POTASSIUM | 3570 | 3410 | 5 | 50.00 | |
| SODIUM | 57.9 | 54.5 | 6 | 50.00 | |
| STRONTIUM | 13.8 | 13.1 | 5 | 50.00 | |
| THALLIUM | 0.236 | 0.232 | 2 | 50.00 | |
| TITANIUM | 954 | 937 | 2 | 50.00 | |
| VANADIUM | 36.1 | 35.5 | 2 | 50.00 | |
| ZINC | 53.5 | 51.0 | 5 | 50.00 | |

**Method: 8015B EFH**
**Matrix: SO**

| Analyte | Concentration (MG/KG) | | Sample RPD | eQAPP RPD | Flag |
|---|---|---|---|---|---|
| | SL-057-NBZ-SS-0.0-0.5 | DUP-02-NBZ-QC-032312 | | | |
| EFH(C15-C20) | 0.68 | 0.67 | 1 | 50.00 | |
| EFH(C21-C30) | 3.0 | 2.3 | 26 | 50.00 | |
| EFH(C30-C40) | 4.4 | 2.8 | 44 | 50.00 | No Qualifiers Applied |
| EFH(C8-C11) | 0.73 | 0.62 | 16 | 50.00 | |
| TOTAL EFH(C8-C40) | 8.8 | 6.4 | 32 | 50.00 | |

**Method: 8081A**
**Matrix: SO**

| Analyte | Concentration (UG/KG) | | Sample RPD | eQAPP RPD | Flag |
|---|---|---|---|---|---|
| | SL-057-NBZ-SS-0.0-0.5 | DUP-02-NBZ-QC-032312 | | | |
| ENDRIN | 0.25 | 0.27 | 8 | 50.00 | No Qualifiers Applied |

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Field Duplicate RPD Report

**Lab Reporting Batch ID: 12C254** **Laboratory: EMXT**

**EDD Filename: 12C254R** **eQAPP Name: CDM_SSFL_120730_EMAX**

| | | | | | |
|---|---|---|---|---|---|
| ***Method: 8081A*** | | | | | |
| ***Matrix: SO*** | | | | | |
| 4,4'-DDE | 11 | 0.36 U | 200 | 50.00 | |
| DIELDRIN | 2.6 | 0.36 U | 200 | 50.00 | |
| ENDOSULFAN I | 0.18 U | 1.1 | 200 | 50.00 | |
| ENDOSULFAN II | 0.89 | 0.36 U | 200 | 50.00 | J(all detects) |
| ENDOSULFAN SULFATE | 0.32 | 0.36 U | 200 | 50.00 | UJ(all non-detects) |
| ENDRIN ALDEHYDE | 5.5 | 0.36 U | 200 | 50.00 | |
| HEPTACHLOR EPOXIDE | 0.18 U | 5.6 | 200 | 50.00 | |
| METHOXYCHLOR | 2.2 | 1.8 U | 200 | 50.00 | |

***Method: 8082***
***Matrix: SO***

| ***Analyte*** | ***Concentration (UG/KG)*** | | ***Sample RPD*** | ***eQAPP RPD*** | ***Flag*** |
|---|---|---|---|---|---|
| | **SL-057-NBZ-SS-0.0-0.5** | **DUP-02-NBZ-QC-032312** | | | |
| AROCLOR 1248 | 4200 | 1.8 U | 200 | 50.00 | J(all detects) |
| AROCLOR 1260 | 1500 | 1.8 U | 200 | 50.00 | UJ(all non-detects) |
| Aroclor 5460 | 26 | 3.5 U | 200 | 50.00 | |

***Method: 8270C SIM***
***Matrix: SO***

| ***Analyte*** | ***Concentration (UG/KG)*** | | ***Sample RPD*** | ***eQAPP RPD*** | ***Flag*** |
|---|---|---|---|---|---|
| | **SL-057-NBZ-SS-0.0-0.5** | **DUP-02-NBZ-QC-032312** | | | |
| Butylbenzylphthalate | 14 | 14 | 0 | 50.00 | No Qualifiers Applied |
| ACENAPHTHENE | 1.8 U | 1.4 | 200 | 50.00 | |
| ACENAPHTHYLENE | 1.1 | 3.5 | 104 | 50.00 | |
| ANTHRACENE | 1.8 U | 7.6 | 200 | 50.00 | |
| BENZO(A)ANTHRACENE | 15 | 120 | 156 | 50.00 | |
| BENZO(A)PYRENE | 25 | 190 | 153 | 50.00 | |
| BENZO(B)FLUORANTHENE | 29 | 250 | 158 | 50.00 | |
| BENZO(G,H,I)PERYLENE | 23 | 150 | 147 | 50.00 | |
| BENZO(K)FLUORANTHENE | 11 | 80 | 152 | 50.00 | J(all detects) |
| BIS(2-ETHYLHEXYL)PHTHALATE | 62 | 21 | 99 | 50.00 | UJ(all non-detects) |
| CHRYSENE | 52 | 150 | 97 | 50.00 | |
| DIBENZO(A,H)ANTHRACENE | 5.3 | 45 | 158 | 50.00 | |
| FLUORANTHENE | 22 | 100 | 128 | 50.00 | |
| INDENO(1,2,3-CD)PYRENE | 19 | 110 | 141 | 50.00 | |
| NAPHTHALENE | 1.0 | 1.8 U | 200 | 50.00 | |
| PHENANTHRENE | 6.4 | 25 | 118 | 50.00 | |
| PYRENE | 24 | 140 | 141 | 50.00 | |

# Reporting Limit Outliers

**Lab Reporting Batch ID: 12C254** **Laboratory: EMXT**

**EDD Filename: 12C254R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 8015B GRO**
**Matrix: AQ**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| TB-032212 | GASOLINE RANGE ORGANICS (C5-C12) | J | 26 | 50 | PQL | UG/L | J (all detects) |

**Method: 300.0**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| DUP-02-NBZ-QC-032312 | FLUORIDE | J | 0.637 | 1.07 | PQL | MG/KG | J (all detects) |
| | Nitrate-NO3 | J | 1.35 | 1.60 | PQL | MG/KG | |
| SL-047-NBZ-SB-4.0-5.0 | FLUORIDE | J | 0.789 | 1.05 | PQL | MG/KG | J (all detects) |
| SL-048-NBZ-SB-4.0-5.0 | FLUORIDE | J | 0.925 | 1.05 | PQL | MG/KG | J (all detects) |
| SL-048-NBZ-SS-0.0-0.5 | FLUORIDE | J | 0.818 | 1.13 | PQL | MG/KG | J (all detects) |
| SL-049-NBZ-SB-2.0-3.0 | FLUORIDE | J | 0.597 | 1.04 | PQL | MG/KG | J (all detects) |
| SL-057-NBZ-SS-0.0-0.5 | FLUORIDE | J | 0.652 | 1.08 | PQL | MG/KG | J (all detects) |

**Method: 6020**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| DUP-02-NBZ-QC-032312 | SODIUM | J | 54.5 | 105 | PQL | MG/KG | J (all detects) |
| SL-047-NBZ-SB-4.0-5.0 | ANTIMONY | J | 0.137 | 0.201 | PQL | MG/KG | J (all detects) |
| | SILVER | J | 0.0537 | 0.101 | PQL | MG/KG | |
| | SODIUM | J | 58.6 | 101 | PQL | MG/KG | |
| SL-048-NBZ-SB-4.0-5.0 | ANTIMONY | J | 0.149 | 0.203 | PQL | MG/KG | J (all detects) |
| | CADMIUM | J | 0.0998 | 0.102 | PQL | MG/KG | |
| | SELENIUM | J | 0.301 | 0.407 | PQL | MG/KG | |
| | SODIUM | J | 67.8 | 102 | PQL | MG/KG | |
| SL-048-NBZ-SS-0.0-0.5 | SODIUM | J | 86.3 | 111 | PQL | MG/KG | J (all detects) |
| SL-049-NBZ-SB-2.0-3.0 | ANTIMONY | J | 0.141 | 0.202 | PQL | MG/KG | J (all detects) |
| | SELENIUM | J | 0.258 | 0.405 | PQL | MG/KG | |
| | SODIUM | J | 61.2 | 101 | PQL | MG/KG | |
| SL-051-NBZ-SB-1.5-2.5 | SODIUM | J | 81.6 | 96.4 | PQL | MG/KG | J (all detects) |
| SL-057-NBZ-SS-0.0-0.5 | SODIUM | J | 57.9 | 104 | PQL | MG/KG | J (all detects) |

**Method: 8015B EFH**
**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| DUP-02-NBZ-QC-032312 | EFH(C15-C20) | J | 0.67 | 1.1 | PQL | MG/KG | J (all detects) |
| | EFH(C8-C11) | J | 0.62 | 1.1 | PQL | MG/KG | |

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Reporting Limit Outliers

**Lab Reporting Batch ID: 12C254** **Laboratory: EMXT**

**EDD Filename: 12C254R** **eQAPP Name: CDM_SSFL_120730_EMAX**

**Method: 8015B EFH**

**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-047-NBZ-SB-4.0-5.0 | EFH(C8-C11) | J | 0.58 | 1.0 | PQL | MG/KG | J (all detects) |
| SL-048-NBZ-SS-0.0-0.5 | EFH(C12-C14)<br>EFH(C8-C11) | J<br>J | 0.85<br>0.95 | 1.1<br>1.1 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-051-NBZ-SB-1.5-2.5 | EFH(C21-C30)<br>EFH(C8-C11) | J<br>J | 0.89<br>0.54 | 1.0<br>1.0 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |
| SL-057-NBZ-SS-0.0-0.5 | EFH(C15-C20)<br>EFH(C8-C11) | J<br>J | 0.68<br>0.73 | 1.1<br>1.1 | PQL<br>PQL | MG/KG<br>MG/KG | J (all detects) |

**Method: 8081A**

**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| DUP-02-NBZ-QC-032312 | ENDRIN | J | 0.27 | 0.36 | PQL | UG/KG | J (all detects) |
| SL-048-NBZ-SS-0.0-0.5 | 4,4'-DDD | J | 0.38 | 0.39 | PQL | UG/KG | J (all detects) |
| SL-057-NBZ-SS-0.0-0.5 | ENDOSULFAN SULFATE<br>ENDRIN | J<br>J | 0.32<br>0.25 | 0.37<br>0.37 | PQL<br>PQL | UG/KG<br>UG/KG | J (all detects) |

**Method: 8270C**

**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| SL-048-NBZ-SB-4.0-5.0 | CARBAZOLE | J | 110 | 170 | PQL | UG/KG | J (all detects) |

**Method: 8270C SIM**

**Matrix: SO**

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| DUP-02-NBZ-QC-032312 | ACENAPHTHENE<br>Butylbenzylphthalate | J<br>J | 1.4<br>14 | 1.8<br>18 | PQL<br>PQL | UG/KG<br>UG/KG | J (all detects) |
| SL-048-NBZ-SB-4.0-5.0 | ACENAPHTHYLENE<br>Butylbenzylphthalate | J<br>J | 1.0<br>14 | 1.8<br>17 | PQL<br>PQL | UG/KG<br>UG/KG | J (all detects) |
| SL-048-NBZ-SS-0.0-0.5 | ANTHRACENE<br>BIS(2-ETHYLHEXYL)PHTHALATE<br>Butylbenzylphthalate | J<br>J<br>J | 1.2<br>13<br>16 | 1.9<br>19<br>19 | PQL<br>PQL<br>PQL | UG/KG<br>UG/KG<br>UG/KG | J (all detects) |
| SL-049-NBZ-SB-2.0-3.0 | BIS(2-ETHYLHEXYL)PHTHALATE<br>CHRYSENE<br>PYRENE | J<br>J<br>J | 16<br>1.1<br>1.6 | 17<br>1.8<br>1.8 | PQL<br>PQL<br>PQL | UG/KG<br>UG/KG<br>UG/KG | J (all detects) |
| SL-051-NBZ-SB-1.5-2.5 | Butylbenzylphthalate | J | 9.3 | 17 | PQL | UG/KG | J (all detects) |
| SL-057-NBZ-SS-0.0-0.5 | ACENAPHTHYLENE<br>Butylbenzylphthalate<br>NAPHTHALENE | J<br>J<br>J | 1.1<br>14<br>1.0 | 1.8<br>18<br>1.8 | PQL<br>PQL<br>PQL | UG/KG<br>UG/KG<br>UG/KG | J (all detects) |

**Project Name and Number: 1203-004-010-AL - SSFL AREA IV COLLOCATED SAMPLING**

# Enclosure II

# Level IV Validation Reports

# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** Santa Susana Field Laboratory

**Collection Date:** March 23, 2012

**LDC Report Date:** September 4, 2012

**Matrix:** Soil

**Parameters:** Semivolatiles

**Validation Level:** Level IV

**Laboratory:** EMAX Laboratories, Inc.

**Sample Delivery Group (SDG):** 12C254

**Sample Identification**

SL-048-NBZ-SS-0.0-0.5
SL-048-NBZ-SB-4.0-5.0
SL-049-NBZ-SB-2.0-3.0
SL-051-NBZ-SB-1.5-2.5
SL-057-NBZ-SS-0.0-0.5
DUP-02-NBZ-QC-032312
SL-047-NBZ-SB-4.0-5.0
SL-057-NBZ-SS-0.0-0.5MS
SL-057-NBZ-SS-0.0-0.5MSD

## Introduction

This data review covers 9 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Semivolatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

## I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

## III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds all coefficients of determination ($r^2$) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

## IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

## V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

Samples EB-NBZ-SB-040412 and EB-NBZ-SS-040412 (both from SDG 12D031) were identified as equipment blanks. No semivolatile contaminants were found.

## VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

## VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

| Spike ID (Associated Samples) | Compound | MS (%R) (Limits) | MSD (%R) (Limits) | RPD (Limits) | Flag | A or P |
|---|---|---|---|---|---|---|
| SL-057-NBZ-SS-0.0-0.5MS/MSD (SL-057-NBZ-SS-0.0-0.5) | Benzidine | 0 (10-150) | 0 (10-150) | - | J (all detects) R (all non-detects) | A |

## VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## IX. Regional Quality Assurance and Quality Control

Not applicable.

## X. Internal Standards

All internal standard areas and retention times were within QC limits.

## XI. Target Compound Identifications

All target compound identifications were within validation criteria.

## XII. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

| Sample | Finding | Flag | A or P |
|---|---|---|---|
| All samples in SDG 12C254 | All compounds reported below the RL. | J (all detects) | A |

## XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

## XIV. System Performance

The system performance was acceptable.

## XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

## XVI. Field Duplicates

Samples SL-057-NBZ-SS-0.0-0.5 and DUP-02-NBZ-QC-032312 were identified as field duplicates. No semivolatiles were detected in any of the samples.

## Santa Susana Field Laboratory
## Semivolatiles - Data Qualification Summary - SDG 12C254

| SDG | Sample | Compound | Flag | A or P | Reason (Code) |
|---|---|---|---|---|---|
| 12C254 | SL-057-NBZ-SS-0.0-0.5 | Benzidine | J (all detects)<br>R (all non-detects) | A | Matrix spike/Matrix spike duplicate (%R) (Q) |
| 12C254 | SL-048-NBZ-SS-0.0-0.5<br>SL-048-NBZ-SB-4.0-5.0<br>SL-049-NBZ-SB-2.0-3.0<br>SL-051-NBZ-SB-1.5-2.5<br>SL-057-NBZ-SS-0.0-0.5<br>DUP-02-NBZ-QC-032312<br>SL-047-NBZ-SB-4.0-5.0 | All compounds reported below the RL. | J (all detects) | A | Compound quantitation and RLs (Z) |

## Santa Susana Field Laboratory
## Semivolatiles - Laboratory Blank Data Qualification Summary - SDG 12C254

No Sample Data Qualified in this SDG

## Santa Susana Field Laboratory
## Semivolatiles - Field Blank Data Qualification Summary - SDG 12C254

No Sample Data Qualified in this SDG

LDC #: 28255H2a **VALIDATION COMPLETENESS WORKSHEET** Date: 8/30/12
SDG #: 12C254 Level IV Page: 1 of 1
Laboratory: EMAX Laboratories, Inc. Reviewer: [illegible]
2nd Reviewer: [illegible]

**METHOD:** GC/MS Semivolatiles (EPA SW 846 Method 8270C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|---|---|---|---|
| I. | Technical holding times | A | Sampling dates: 3/23/12 |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration | A | %D ≤30, r² |
| IV. | Continuing calibration/ICV | A | ICV/CCV ≤20 |
| V. | Blanks | A | |
| VI. | Surrogate spikes | A | |
| VII. | Matrix spike/Matrix spike duplicates | SW | |
| VIII. | Laboratory control samples | A | LCS/D |
| IX. | Regional Quality Assurance and Quality Control | N | |
| X. | Internal standards | A | |
| XI. | Target compound identification | A | |
| XII. | Compound quantitation/RL/LOQ/LODs | A | |
| XIII. | Tentatively identified compounds (TICs) | N | |
| XIV. | System performance | A | |
| XV. | Overall assessment of data | A | |
| XVI. | Field duplicates | A SW 2nd | D = 5, 6 |
| XVII. | Field blanks | ND | EB = EB-NBZ-SB-040412 (SDG# 12C03) = EB-NBZ-SS-040412 |

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Soil

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | SL-048-NBZ-SS-0.0-0.5 | 11 | MBLK1 S | 21 | | 31 | |
| 2 | SL-048-NBZ-SB-4.0-5.0 | 12 | | 22 | | 32 | |
| 3 | SL-049-NBZ-SB-2.0-3.0 | 13 | | 23 | | 33 | |
| 4 | SL-051-NBZ-SB-1.5-2.5 | 14 | | 24 | | 34 | |
| 5 | SL-057-NBZ-SS-0.0-0.5 | 15 | | 25 | | 35 | |
| 6 | DUP-02-NBZ-QC-032312 | 16 | | 26 | | 36 | |
| 7 | SL-047-NBZ-SB-4.0-5.0 | 17 | | 27 | | 37 | |
| 8 | SL-057-NBZ-SS-0.0-0.5MS | 18 | | 28 | | 38 | |
| 9 | SL-057-NBZ-SS-0.0-0.5MSD | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

LDC #: 28255H2a

# VALIDATION FINDINGS CHECKLIST


Reviewer: FT
2nd Reviewer: A

**Method:** Semivolatiles (EPA SW 846 Method 8270C)

| Validation Area | Yes | No | NA | Findings/Comments |
|---|---|---|---|---|
| I. Technical holding times | | | | |
| All technical holding times were met. | ✓ | | | |
| Cooler temperature criteria was met. | ✓ | | | |
| II. GC/MS Instrument performance check | | | | |
| Were the DFTPP performance results reviewed and found to be within the specified criteria? | ✓ | | | |
| Were all samples analyzed within the 12 hour clock criteria? | ✓ | | | |
| III. Initial calibration | | | | |
| Did the laboratory perform a 5 point calibration prior to sample analysis? | ✓ | | | |
| Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs? | ✓ | | | |
| Was a curve fit used for evaluation? | ✓ | | | |
| Did the initial calibration meet the curve fit acceptance criteria of $\geq$ 0.990? | ✓ | | | |
| Were all percent relative standard deviations (%RSD) $\leq$ 30% and relative response factors (RRF) $\geq$ 0.05? | ✓ | | | |
| IV. Continuing calibration | | | | |
| Was a continuing calibration standard analyzed at least once every 12 hours for each instrument? | ✓ | | | |
| Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs? | ✓ | | | |
| Were all percent differences (%D) $\leq$ 25% and relative response factors (RRF) $\geq$ 0.05? | ✓ | | | |
| V. Blanks | | | | |
| Was a method blank associated with every sample in this SDG? | ✓ | | | |
| Was a method blank analyzed for each matrix and concentration? | ✓ | | | |
| Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet. | | ✓ | | |
| VI. Surrogate spikes | | | | |
| Were all surrogate %R within QC limits? | ✓ | | | |
| If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R? | | | ✓ | |
| If any %R was less than 10 percent, was a reanalysis performed to confirm %R? | | | ✓ | |
| VII. Matrix spike/Matrix spike duplicates | | | | |
| Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water. | ✓ | | | |
| Was a MS/MSD analyzed every 20 samples of each matrix? | ✓ | | | |
| Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits? | | ✓ | | |
| VIII. Laboratory control samples | | | | |
| Was an LCS analyzed for this SDG? | ✓ | | | |

LDC #: 28255H2c

# VALIDATION FINDINGS CHECKLIST


Reviewer: FT
2nd Reviewer: A

| Validation Area | Yes | No | NA | Findings/Comments |
|---|---|---|---|---|
| Was an LCS analyzed per extraction batch? | ✓ | | | |
| Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits? | ✓ | | | |
| IX. Regional Quality Assurance and Quality Control | | | | |
| Were performance evaluation (PE) samples performed? | | | ✓ | |
| Were the performance evaluation (PE) samples within the acceptance limits? | | | ✓ | |
| X. Internal standards | | | | |
| Were internal standard area counts within -50% or +100% of the associated calibration standard? | ✓ | | | |
| Were retention times within ± 30 seconds from the associated calibration standard? | ✓ | | | |
| XI. Target compound identification | | | | |
| Were relative retention times (RRT's) within ± 0.06 RRT units of the standard? | ✓ | | | |
| Did compound spectra meet specified EPA "Functional Guidelines" criteria? | ✓ | | | |
| Were chromatogram peaks verified and accounted for? | ✓ | | | |
| XII. Compound quantitation/CRQLs | | | | |
| Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound? | ✓ | | | |
| Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation? | ✓ | | | |
| XIII. Tentatively identified compounds (TICs) | | | | |
| Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum? | | | ✓ | |
| Were relative intensities of the major ions within ± 20% between the sample and the reference spectra? | | | ✓ | |
| Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)? | | | ✓ | |
| XIV. System performance | | | | |
| System performance was found to be acceptable. | | ✓ | | |
| XV. Overall assessment of data | | | | |
| Overall assessment of data was found to be acceptable. | ✓ | | | |
| XVI. Field duplicates | | | | |
| Field duplicate pairs were identified in this SDG. | ✓ | | | |
| Target compounds were detected in the field duplicates. | ✓ | | | |
| XVII. Field blanks | | | | |
| Field blanks were identified in this SDG. | | ✓ | | |
| Target compounds were detected in the field blanks. | | | ✓ | |

# VALIDATION FINDINGS WORKSHEET

**METHOD:** GC/MS BNA (EPA Method 8270)

| | | | | |
|---|---|---|---|---|
| A. Phenol | P. Bis(2-chloroethoxy)methane | EE. 2,6-Dinitrotoluene | TT. Pentachlorophenol | III. Benzo(a)pyrene |
| B. Bis (2-chloroethyl) ether | Q. 2,4-Dichlorophenol | FF. 3-Nitroaniline | UU. Phenanthrene | JJJ. Indeno(1,2,3-cd)pyrene |
| C. 2-Chlorophenol | R. 1,2,4-Trichlorobenzene | GG. Acenaphthene | VV. Anthracene | KKK. Dibenz(a,h)anthracene |
| D. 1,3-Dichlorobenzene | S. Naphthalene | HH. 2,4-Dinitrophenol | WW. Carbazole | LLL. Benzo(g,h,i)perylene |
| E. 1,4-Dichlorobenzene | T. 4-Chloroaniline | II. 4-Nitrophenol | XX. Di-n-butylphthalate | MMM. Bis(2-Chloroisopropyl)ether |
| F. 1,2-Dichlorobenzene | U. Hexachlorobutadiene | JJ. Dibenzofuran | YY. Fluoranthene | NNN. Aniline |
| G. 2-Methylphenol | V. 4-Chloro-3-methylphenol | KK. 2,4-Dinitrotoluene | ZZ. Pyrene | OOO. N-Nitrosodimethylamine |
| H. 2,2'-Oxybis(1-chloropropane) | W. 2-Methylnaphthalene | LL. Diethylphthalate | AAA. Butylbenzylphthalate | PPP. Benzoic Acid |
| I. 4-Methylphenol | X. Hexachlorocyclopentadiene | MM. 4-Chlorophenyl-phenyl ether | BBB. 3,3'-Dichlorobenzidine | QQQ. Benzyl alcohol |
| J. N-Nitroso-di-n-propylamine | Y. 2,4,6-Trichlorophenol | NN. Fluorene | CCC. Benzo(a)anthracene | RRR. Pyridine |
| K. Hexachloroethane | Z. 2,4,5-Trichlorophenol | OO. 4-Nitroaniline | DDD. Chrysene | SSS. Benzidine |
| L. Nitrobenzene | AA. 2-Chloronaphthalene | PP. 4,6-Dinitro-2-methylphenol | EEE. Bis(2-ethylhexyl)phthalate | TTT. 1-Methylnaphthalene |
| M. Isophorone | BB. 2-Nitroaniline | QQ. N-Nitrosodiphenylamine (1) | FFF. Di-n-octylphthalate | UUU. |
| N. 2-Nitrophenol | CC. Dimethylphthalate | RR. 4-Bromophenyl-phenylether | GGG. Benzo(b)fluoranthene | VVV. |
| O. 2,4-Dimethylphenol | DD. Acenaphthylene | SS. Hexachlorobenzene | HHH. Benzo(k)fluoranthene | WWW. |

LDC #: 28255 H 2s

# VALIDATION FINDINGS WORKSHEET
## Matrix Spike/Matrix Spike Duplicates


Reviewer: FT
2nd Reviewer: A

**METHOD:** ✓ GCMS HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?
Y N N/A Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?
Y N N/A Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?

| # | MS/MSD ID | Compound | MS %R (Limits) | MSD %R (Limits) | RPD (Limits) | Associated Samples | Qualifications |
|---|---|---|---|---|---|---|---|
| | 6+9 | SSS | 0 (10-150) | 0 (10-150) | ( ) | 5 | J/R/A |
| | | | ( ) | ( ) | ( ) | | |
| | | | ( ) | ( ) | ( ) | | |
| | | | ( ) | ( ) | ( ) | | |
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LDC #: 28255 #29

# VALIDATION FINDINGS WORKSHEET
## Initial Calibration Calculation Verification


Reviewer: FT
2nd Reviewer: A

**METHOD:** GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

$A_x$ = Area of compound,
$C_x$ = Concentration of compound,
S = Standard deviation of the RRFs,

$A_{is}$ = Area of associated internal standard
$C_{is}$ = Concentration of internal standard
X = Mean of the RRFs

| # | Standard ID | Calibration Date | Compound (Reference Internal Standard) | Reported RRF (25 std) | Recalculated RRF (25 std) | Reported Average RRF (initial) | Recalculated Average RRF (initial) | Reported %RSD | Recalculated %RSD |
|---|---|---|---|---|---|---|---|---|---|
| 1 | SVE4A25 | 1/25/12 | Phenol (1st internal standard) | 1.328 | 1.328 | 1.300 | 1.300 | 1.82 | 1.82 |
| | | | Naphthalene (2nd internal standard) | 1.043 | 1.043 | 1.078 | 1.078 | 1.92 | 1.92 |
| | | | Fluorene (3rd internal standard) | 1.406 | 1.406 | 1.404 | 1.404 | 2.66 | 2.66 |
| | | | Pentachlorophenol (4th internal standard) | 0.165 | 0.165 | 0.161 | 0.161 | 8.70 | 8.70 |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | 0.762 | 0.762 | 0.733 | 0.733 | 7.63 | 7.63 |
| | | | Benzo(a)pyrene (6th internal standard) | 1.134 | 1.134 | 1.103 | 1.103 | 3.48 | 3.48 |
| 2 | | | Phenol (1st internal standard) | | | | | | |
| | | | Naphthalene (2nd internal standard) | | | | | | |
| | | | Fluorene (3rd internal standard) | | | | | | |
| | | | Pentachlorophenol (4th internal standard) | | | | | | |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | | | | | | |
| | | | Benzo(a)pyrene (6th internal standard) | | | | | | |
| 3 | | | Phenol (1st internal standard) | | | | | | |
| | | | Naphthalene (2nd internal standard) | | | | | | |
| | | | Fluorene (3rd internal standard) | | | | | | |
| | | | Pentachlorophenol (4th internal standard) | | | | | | |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | | | | | | |
| | | | Benzo(a)pyrene (6th internal standard) | | | | | | |

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 28255 #2a

# VALIDATION FINDINGS WORKSHEET
## Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

**METHOD:** GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
$A_x$ = Area of compound, $A_{is}$ = Area of associated internal standard
$C_x$ = Concentration of compound, $C_{is}$ = Concentration of internal standard

| # | Standard ID | Calibration Date | Compound (Reference Internal Standard) | Average RRF (initial) | Reported RRF (CC) | Recalculated RRF (CC) | Reported %D | Recalculated %D |
|---|---|---|---|---|---|---|---|---|
| 1 | RDJ003 | 4/2/12 | Phenol (1st internal standard) | 1.300 | 1.219 | 1.219 | 6.2 | 6.2 |
| | | | Naphthalene (2nd internal standard) | 1.028 | 0.976 | 0.976 | 5.1 | 5.1 |
| | | | Fluorene (3rd internal standard) | 1.404 | 1.336 | 1.336 | 4.8 | 4.8 |
| | | | Pentachlorophenol (4th internal standard) | 0.161 | 0.142 | 0.142 | 11.8 | 11.8 |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | 0.733 | 0.744 | 0.744 | 1.5 | 1.5 |
| | | | Benzo(a)pyrene (6th internal standard) | 1.103 | 1.077 | 1.077 | 2.4 | 2.4 |
| 2 | RDJ152 | 4/9/12 | Phenol (1st internal standard) | | 1.240 | 1.240 | 4.6 | 4.6 |
| | | | Naphthalene (2nd internal standard) | | 0.982 | 0.982 | 4.5 | 4.5 |
| | | | Fluorene (3rd internal standard) | | 1.406 | 1.406 | 0.1 | 0.1 |
| | | | Pentachlorophenol (4th internal standard) | | 0.141 | 0.141 | 12.4 | 12.4 |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | | 0.827 | 0.827 | 12.8 | 12.8 |
| | | | Benzo(a)pyrene (6th internal standard) | | 1.116 | 1.116 | 1.2 | 1.2 |
| 3 | | | Phenol (1st internal standard) | | | | | |
| | | | Naphthalene (2nd internal standard) | | | | | |
| | | | Fluorene (3rd internal standard) | | | | | |
| | | | Pentachlorophenol (4th internal standard) | | | | | |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | | | | | |
| | | | Benzo(a)pyrene (6th internal standard) | | | | | |

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 28255 H2a

# VALIDATION FINDINGS WORKSHEET
## Surrogate Results Verification


Reviewer: FT
2nd reviewer:

**METHOD:** GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

**Sample ID:** #2

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|---|---|---|---|---|---|
| Nitrobenzene-d5 | 10 | 6.38 | 63.8 | 63.8 | 0 |
| 2-Fluorobiphenyl | ↓ | 7.29 | 72.9 | 72.9 | |
| Terphenyl-d14 | ↓ | 9.84 | 98.4 | 98.4 | ↓ |
| Phenol-d5 | 30 | 21.80 | 72.7 | 72.7 | |
| 2-Fluorophenol | ↓ | 20.77 | 69.2 | 69.2 | |
| 2,4,6-Tribromophenol | ↓ | 27.15 | 90.5 | 90.5 | |
| 2-Chlorophenol-d4 | | | | | |
| 1,2-Dichlorobenzene-d4 | | | | | |

**Sample ID:**

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|---|---|---|---|---|---|
| Nitrobenzene-d5 | | | | | |
| 2-Fluorobiphenyl | | | | | |
| Terphenyl-d14 | | | | | |
| Phenol-d5 | | | | | |
| 2-Fluorophenol | | | | | |
| 2,4,6-Tribromophenol | | | | | |
| 2-Chlorophenol-d4 | | | | | |
| 1,2-Dichlorobenzene-d4 | | | | | |

**Sample ID:**

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|---|---|---|---|---|---|
| Nitrobenzene-d5 | | | | | |
| 2-Fluorobiphenyl | | | | | |
| Terphenyl-d14 | | | | | |
| Phenol-d5 | | | | | |
| 2-Fluorophenol | | | | | |
| 2,4,6-Tribromophenol | | | | | |
| 2-Chlorophenol-d4 | | | | | |
| 1,2-Dichlorobenzene-d4 | | | | | |

LDC #: 28255 H09

# VALIDATION FINDINGS WORKSHEET
## Matrix Spike/Matrix Spike Duplicates Results Verification


Reviewer: FT
2nd Reviewer: [signature]

**METHOD:** GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA  Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentation

RPD = I MSC - MSC I * 2/(MSC + MSDC)  MSC = Matrix spike concentration  MSDC = Matrix spike duplicate concentration

MS/MSD samples: 8 + 9

| Compound | Spike Added (ug/Kg) | | Sample Concentration (ug/Kg) | Spiked Sample Concentration (ug/Kg) | | Matrix Spike Percent Recovery | | Matrix Spike Duplicate Percent Recovery | | MS/MSD RPD | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MS | MSD | ------ | MS | MSD | Reported | Recalc | Reported | Recalc | Reported | Recalculated |
| Phenol | 719 | 719 | ND | 355 | 527 | 49 | 49 | 73 | 73 | 39 | 39 |
| N-Nitroso-di-n-propylamine | | | | 301 | 456 | 42 | 42 | ~~47~~ 63 | 63 | 41 | 41 |
| 4-Chloro-3-methylphenol | | | | 500 | 568 | 69 | 69 | 79 | 79 | 13 | 13 |
| Acenaphthene | | | | 490 | 624 | 68 | 68 | 87 | 87 | 24 | 24 |
| Pentachlorophenol | | | | 554 | 544 | 77 | 77 | 76 | 76 | 2 | 2 |
| Pyrene | | | | 690 | 699 | 96 | 96 | 97 | 97 | 1 | 1 |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 28255#09

# VALIDATION FINDINGS WORKSHEET

## Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification


Reviewer: FT
2nd Reviewer: A

**METHOD:** GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA  Where: SSC = Spike concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC)  LCSC = Laboraotry control sample concentration  LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: lcs ID

| Compound | Spike Added (ug/Kg) | | Spike Concentration (ug/Kg) | | LCS Percent Recovery | | LCSD Percent Recovery | | LCS/LCSD RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| | LCS | LCSD | LCS | LCSD | Reported | Recalc | Reported | Recalc | Reported | Recalculated |
| Phenol | 667 | 667 | 662 | 567 | 99 | 99 | 85 | 85 | 15 | 15 |
| N-Nitroso-di-n-propylamine | | | 438 | 425 | 66 | 66 | 64 | 64 | 3 | 3 |
| 4-Chloro-3-methylphenol | | | 523 | 491 | 78 | 78 | 74 | 74 | 6 | 6 |
| Acenaphthene | | | 565 | 551 | 85 | 85 | 83 | 83 | 3 | 3 |
| Pentachlorophenol | | | 508 | 427 | 76 | 76 | 64 | 64 | 17 | 17 |
| Pyrene | | | 662 | 567 | 99 | 99 | 85 | 85 | 15 | 15 |
| | | | | | | | | | | |
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Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 28255H29

# VALIDATION FINDINGS WORKSHEET
## Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer:

**METHOD:** GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

$A_x$ = Area of the characteristic ion (EICP) for the compound to be measured

$A_{is}$ = Area of the characteristic ion (EICP) for the specific internal standard

$I_s$ = Amount of internal standard added in nanograms (ng)

$V_o$ = Volume or weight of sample extract in milliliters (ml) or grams (g).

$V_i$ = Volume of extract injected in microliters (ul)

$V_t$ = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example: 1/30

Sample I.D. #2, Anthracene

Conc. = $\frac{(99524)(40)(1)(1000)}{(98359)(1.13)*(3)(0.955)}$

= 122 ug/Kg

| # | Sample ID | Compound | Reported Concentration ( ) | Calculated Concentration ( ) | Qualification |
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# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** Santa Susana Field Laboratory

**Collection Date:** March 23, 2012

**LDC Report Date:** September 4, 2012

**Matrix:** Soil

**Parameters:** Semivolatiles

**Validation Level:** Level IV

**Laboratory:** EMAX Laboratories, Inc.

**Sample Delivery Group (SDG):** 12C254

**Sample Identification**

SL-048-NBZ-SS-0.0-0.5
SL-048-NBZ-SB-4.0-5.0
SL-049-NBZ-SB-2.0-3.0
SL-051-NBZ-SB-1.5-2.5
SL-057-NBZ-SS-0.0-0.5
DUP-02-NBZ-QC-032312
SL-047-NBZ-SB-4.0-5.0
SL-057-NBZ-SS-0.0-0.5MS
SL-057-NBZ-SS-0.0-0.5MSD

## Introduction

This data review covers 9 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C using Selected Ion Monitoring (SIM) for Semivolatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

## I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

## III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination ($r^2$) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

## IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

## V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

No field blanks were identified in this SDG.

## VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

## VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## IX. Regional Quality Assurance and Quality Control

Not applicable.

## X. Internal Standards

All internal standard areas and retention times were within QC limits.

## XI. Target Compound Identifications

All target compound identifications were within validation criteria.

## XII. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

| Sample | Finding | Flag | A or P |
|---|---|---|---|
| All samples in SDG 12C254 | All compounds reported below the RL. | J (all detects) | A |

## XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

## XIV. System Performance

The system performance was acceptable.

## XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

## XVI. Field Duplicates

Samples SL-057-NBZ-SS-0.0-0.5 and DUP-02-NBZ-QC-032312 were identified as field duplicates. No semivolatiles were detected in any of the samples with the following exceptions:

| Compound | Concentration (ug/Kg) | | RPD (Limits) | Flags | A or P |
|---|---|---|---|---|---|
| | SL-057-NBZ-SS-0.0-0.5 | DUP-02-NBZ-QC-032312 | | | |
| Acenaphthene | 1.8U | 1.4 | 200 (≤50) | J (all detects)<br>UJ (all non-detects) | A |
| Acenaphthylene | 1.1 | 3.5 | 104 (≤50) | J (all detects) | A |
| Anthracene | 1.8U | 7.6 | 200 (≤50) | J (all detects)<br>UJ (all non-detects) | A |
| Benzo(a)anthracene | 15 | 120 | 156 (≤50) | J (all detects) | A |
| Benzo(a)pyrene | 25 | 190 | 153 (≤50) | J (all detects) | A |
| Benzo(b)fluoranthene | 29 | 250 | 158 (≤50) | J (all detects) | A |
| Benzo(g,h,i)perylene | 23 | 150 | 147 (≤50) | J (all detects) | A |
| Benzo(k)fluoranthene | 11 | 80 | 152 (≤50) | J (all detects) | A |
| Chrysene | 52 | 150 | 97 (≤50) | J (all detects) | A |
| Dibenzo(a,h)anthracene | 5.3 | 45 | 158 (≤50) | J (all detects) | A |
| Fluoranthene | 22 | 100 | 128 (≤50) | J (all detects) | A |
| Indeno(1,2,3-cd)pyrene | 19 | 110 | 141 (≤50) | J (all detects) | A |
| Naphthalene | 1.0 | 1.8U | 200 (≤50) | J (all detects)<br>UJ (all non-detects) | A |
| Phenanthrene | 6.4 | 25 | 118 (≤50) | J (all detects) | A |
| Pyrene | 24 | 140 | 141 (≤50) | J (all detects) | A |
| Bis(2-Ethylhexyl)Phtalate | 62 | 21 | 99 (≤50) | J (all detects) | A |

| Compound | Concentration (ug/Kg) | | RPD (Limits) | Flags | A or P |
|---|---|---|---|---|---|
| | SL-057-NBZ-SS-0.0-0.5 | DUP-02-NBZ-QC-032312 | | | |
| Butylbenzylphthalate | 14 | 14 | 0 (≤50) | - | - |

## Santa Susana Field Laboratory
## Semivolatiles - Data Qualification Summary - SDG 12C254

| SDG | Sample | Compound | Flag | A or P | Reason (Code) |
|---|---|---|---|---|---|
| 12C254 | SL-048-NBZ-SS-0.0-0.5<br>SL-048-NBZ-SB-4.0-5.0<br>SL-049-NBZ-SB-2.0-3.0<br>SL-051-NBZ-SB-1.5-2.5<br>SL-057-NBZ-SS-0.0-0.5<br>DUP-02-NBZ-QC-032312<br>SL-047-NBZ-SB-4.0-5.0 | All compounds reported below the RL. | J (all detects) | A | Compound quantitation and RLs (Z) |
| 12C254 | SL-057-NBZ-SS-0.0-0.5<br>DUP-02-NBZ-QC-032312 | Acenaphthene<br>Anthracene<br>Naphthalene | J (all detects)<br>UJ (all non-detects) | A | Field duplicates (RPD) (FD) |
| 12C254 | SL-057-NBZ-SS-0.0-0.5<br>DUP-02-NBZ-QC-032312 | Acenaphthylene<br>Benzo(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b)fluoranthene<br>Benzo(g,h,i)perylene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenzo(a,h)anthracene<br>Fluoranthene<br>Indeno(1,2,3-cd)pyrene<br>Phenanthrene<br>Pyrene<br>Bis(2-Ethylhexyl)Phtalate | J (all detects)<br>J (all detects)<br>J (all detects)<br>J (all detects)<br>J (all detects)<br>J (all detects)<br>J (all detects)<br>J (all detects)<br>J (all detects)<br>J (all detects)<br>J (all detects)<br>J (all detects)<br>J (all detects) | A | Field duplicates (RPD) (FD) |

## Santa Susana Field Laboratory
## Semivolatiles - Laboratory Blank Data Qualification Summary - SDG 12C254

No Sample Data Qualified in this SDG

## Santa Susana Field Laboratory
## Semivolatiles - Field Blank Data Qualification Summary - SDG 12C254

No Sample Data Qualified in this SDG

LDC #: 28255H2b **VALIDATION COMPLETENESS WORKSHEET** Date: 8/30/12
SDG #: 12C254 Level IV Page: 6 of 1
Laboratory: EMAX Laboratories, Inc. Reviewer: TD
SUOA 2nd Reviewer: A

**METHOD:** GC/MS ~~Polynuclear Aromatic Hydrocarbons~~ (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|---|---|---|---|
| I. | Technical holding times | A | Sampling dates: 8/23/12 |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration | A | %RSD ≤30, r² |
| IV. | Continuing calibration/ICV | A | ICV/CCV ≤25 |
| V. | Blanks | A | |
| VI. | Surrogate spikes | A | |
| VII. | Matrix spike/Matrix spike duplicates | A | |
| VIII. | Laboratory control samples | A | LCS/D |
| IX. | Regional Quality Assurance and Quality Control | N | |
| X. | Internal standards | A | |
| XI. | Target compound identification | A | |
| XII. | Compound quantitation/RL/LOQ/LODs | A | |
| XIII. | Tentatively identified compounds (TICs) | N | |
| XIV. | System performance | A | |
| XV. | Overall assessment of data | A | |
| XVI. | Field duplicates | SW | D = 5, 6 |
| XVII. | Field blanks | N | |

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:
SOIL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | SL-048-NBZ-SS-0.0-0.5 | 11 | | 21 | | 31 | |
| 2 | SL-048-NBZ-SB-4.0-5.0 | 12 | | 22 | | 32 | |
| 3 | SL-049-NBZ-SB-2.0-3.0 | 13 | | 23 | | 33 | |
| 4 | SL-051-NBZ-SB-1.5-2.5 | 14 | | 24 | | 34 | |
| 5 | SL-057-NBZ-SS-0.0-0.5 | 15 | | 25 | | 35 | |
| 6 | DUP-02-NBZ-QC-032312 | 16 | | 26 | | 36 | |
| 7 | SL-047-NBZ-SB-4.0-5.0 | 17 | | 27 | | 37 | |
| 8 | SL-057-NBZ-SS-0.0-0.5MS | 18 | | 28 | | 38 | |
| 9 | SL-057-NBZ-SS-0.0-0.5MSD | 19 | | 29 | | 39 | |
| 10 | | 20 | | 30 | | 40 | |

LDC #: 28255H26

# VALIDATION FINDINGS CHECKLIST


Reviewer: FT
2nd Reviewer:

**Method:** Semivolatiles (EPA SW 846 Method 8270C)

| Validation Area | Yes | No | NA | Findings/Comments |
|---|---|---|---|---|
| I. Technical holding times | | | | |
| All technical holding times were met. | ✓ | | | |
| Cooler temperature criteria was met. | ✓ | | | |
| II. GC/MS instrument performance check | | | | |
| Were the DFTPP performance results reviewed and found to be within the specified criteria? | ✓ | | | |
| Were all samples analyzed within the 12 hour clock criteria? | ✓ | | | |
| III. Initial calibration | | | | |
| Did the laboratory perform a 5 point calibration prior to sample analysis? | ✓ | | | |
| Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs? | ✓ | | | |
| Was a curve fit used for evaluation? | ✓ | | | |
| Did the initial calibration meet the curve fit acceptance criteria of $\geq$ 0.990? | ✓ | | | |
| Were all percent relative standard deviations (%RSD) $\leq$ 30% and relative response factors (RRF) > 0.05? | ✓ | | | |
| IV. Continuing calibration | | | | |
| Was a continuing calibration standard analyzed at least once every 12 hours for each instrument? | ✓ | | | |
| Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs? | ✓ | | | |
| Were all percent differences (%D) $\leq$ 25% and relative response factors (RRF) $\geq$ 0.05? | ✓ | | | |
| V. Blanks | | | | |
| Was a method blank associated with every sample in this SDG? | ✓ | | | |
| Was a method blank analyzed for each matrix and concentration? | ✓ | | | |
| Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet. | | ✓ | | |
| VI. Surrogate spikes | | | | |
| Were all surrogate %R within QC limits? | ✓ | | | |
| If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R? | | | ✓ | |
| If any %R was less than 10 percent, was a reanalysis performed to confirm %R? | | | ✓ | |
| VII. Matrix spike/Matrix spike duplicates | | | | |
| Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water. | ✓ | | | |
| Was a MS/MSD analyzed every 20 samples of each matrix? | ✓ | | | |
| Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits? | ✓ | | | |
| VIII. Laboratory control samples | | | | |
| Was an LCS analyzed for this SDG? | ✓ | | | |

LDC #: 28255#27

# VALIDATION FINDINGS CHECKLIST


Reviewer: FT
2nd Reviewer: [illegible]

| Validation Area | Yes | No | NA | Findings/Comments |
|---|---|---|---|---|
| Was an LCS analyzed per extraction batch? | ✓ | | | |
| Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits? | ✓ | | | |
| IX. Regional Quality Assurance and Quality Control | | | | |
| Were performance evaluation (PE) samples performed? | | | ✓ | |
| Were the performance evaluation (PE) samples within the acceptance limits? | | | ✓ | |
| X. Internal standards | | | | |
| Were internal standard area counts within -50% or +100% of the associated calibration standard? | ✓ | | | |
| Were retention times within ± 30 seconds from the associated calibration standard? | ✓ | | | |
| XI. Target compound identification | | | | |
| Were relative retention times (RRT's) within ± 0.06 RRT units of the standard? | ✓ | | | |
| Did compound spectra meet specified EPA "Functional Guidelines" criteria? | ✓ | | | |
| Were chromatogram peaks verified and accounted for? | ✓ | | | |
| XII. Compound quantitation/CRQLs | | | | |
| Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound? | ✓ | | | |
| Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation? | | ✓ | | |
| XIII. Tentatively identified compounds (TICs) | | | | |
| Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum? | | | ✓ | |
| Were relative intensities of the major ions within ± 20% between the sample and the reference spectra? | | | ✓ | |
| Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)? | | | ✓ | |
| XIV. System performance | | | | |
| System performance was found to be acceptable. | ✓ | | | |
| XV. Overall assessment of data | | | | |
| Overall assessment of data was found to be acceptable. | ✓ | | | |
| XVI. Field duplicates | | | | |
| Field duplicate pairs were identified in this SDG. | ✓ | | | |
| Target compounds were detected in the field duplicates. | ✓ | | | |
| XVII. Field blanks | | | | |
| Field blanks were identified in this SDG. | | ✓ | | |
| Target compounds were detected in the field blanks. | | | ✓ | |

# VALIDATION FINDINGS WORKSHEET

**METHOD:** GC/MS BNA (EPA Method 8270)

| | | | | |
|---|---|---|---|---|
| A. Phenol | P. Bis(2-chloroethoxy)methane | EE. 2,6-Dinitrotoluene | TT. Pentachlorophenol | III. Benzo(a)pyrene |
| B. Bis (2-chloroethyl) ether | Q. 2,4-Dichlorophenol | FF. 3-Nitroaniline | UU. Phenanthrene | JJJ. Indeno(1,2,3-cd)pyrene |
| C. 2-Chlorophenol | R. 1,2,4-Trichlorobenzene | GG. Acenaphthene | VV. Anthracene | KKK. Dibenz(a,h)anthracene |
| D. 1,3-Dichlorobenzene | S. Naphthalene | HH. 2,4-Dinitrophenol | WW. Carbazole | LLL. Benzo(g,h,i)perylene |
| E. 1,4-Dichlorobenzene | T. 4-Chloroaniline | II. 4-Nitrophenol | XX. Di-n-butylphthalate | MMM. Bis(2-Chloroisopropyl)ether |
| F. 1,2-Dichlorobenzene | U. Hexachlorobutadiene | JJ. Dibenzofuran | YY. Fluoranthene | NNN. Aniline |
| G. 2-Methylphenol | V. 4-Chloro-3-methylphenol | KK. 2,4-Dinitrotoluene | ZZ. Pyrene | OOO. N-Nitrosodimethylamine |
| H. 2,2'-Oxybis(1-chloropropane) | W. 2-Methylnaphthalene | LL. Diethylphthalate | AAA. Butylbenzylphthalate | PPP. Benzoic Acid |
| I. 4-Methylphenol | X. Hexachlorocyclopentadiene | MM. 4-Chlorophenyl-phenyl ether | BBB. 3,3'-Dichlorobenzidine | QQQ. Benzyl alcohol |
| J. N-Nitroso-di-n-propylamine | Y. 2,4,6-Trichlorophenol | NN. Fluorene | CCC. Benzo(a)anthracene | RRR. Pyridine |
| K. Hexachloroethane | Z. 2,4,5-Trichlorophenol | OO. 4-Nitroaniline | DDD. Chrysene | SSS. Benzidine |
| L. Nitrobenzene | AA. 2-Chloronaphthalene | PP. 4,6-Dinitro-2-methylphenol | EEE. Bis(2-ethylhexyl)phthalate | TTT. 1-Methylnaphthalene |
| M. Isophorone | BB. 2-Nitroaniline | QQ. N-Nitrosodiphenylamine (1) | FFF. Di-n-octylphthalate | UUU. |
| N. 2-Nitrophenol | CC. Dimethylphthalate | RR. 4-Bromophenyl-phenylether | GGG. Benzo(b)fluoranthene | VVV. |
| O. 2,4-Dimethylphenol | DD. Acenaphthylene | SS. Hexachlorobenzene | HHH. Benzo(k)fluoranthene | WWW. |

LDC#: 28255H2b

# VALIDATION FINDINGS WORKSHEET
## Field Duplicates


Reviewer: [illegible]
2nd Reviewer: [illegible]

**METHOD**: GC/MS SVOA (EPA SW 846 Method 8270C-SIM)

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

(FD)

| Compound | Concentration (ug/kg) | | ≤50 RPD | |
|---|---|---|---|---|
| | 5 | 6 | | |
| Acenaphthene | 1.8U | 1.4 | 200 | J/UJ/A |
| Acenaphthylene | 1.1 | 3.5 | 104 | J/A det |
| Anthracene | 1.8U | 7.6 | 200 | J/UJ/A |
| Benzo(a)anthracene | 15 | 120 | 156 | J/A det |
| Benzo(a)pyrene | 25 | 190 | 153 | |
| Benzo(b)fluoranthene | 29 | 250 | 158 | |
| Benzo(g,h,i)perylene | 23 | 150 | 147 | |
| Benzo(k)fluoranthene | 11 | 80 | 152 | |
| Chrysene | 52 | 150 | 97 | |
| Dibenzo(a,h)anthracene | 5.3 | 45 | 158 | |
| Fluoranthene | 22 | 100 | 128 | |
| Indeno(1,2,3-cd)pyrene | 19 | 110 | 141 | |
| Naphthalene | 1.0 | 1.8U | 200 | J/UJ/A |
| Phenanthrene | 6.4 | 25 | 118 | J/A det |
| Pyrene | 24 | 140 | 141 | |
| Bis(2-Ethylhexyl)Phtalate | 62 | 21 | 99 | |
| Butylbenzylphthalate | 14 | 14 | 0 | |

C

LDC #: 28255H26

# VALIDATION FINDINGS WORKSHEET
## Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

**METHOD:** GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

$A_x$ = Area of compound,
$C_x$ = Concentration of compound,
S = Standard deviation of the RRFs,

$A_{is}$ = Area of associated internal standard
$C_{is}$ = Concentration of internal standard
X = Mean of the RRFs

| # | Standard ID | Calibration Date | Compound (Reference Internal Standard) | Reported RRF ( 10 std) | Recalculated RRF ( 10 std) | Reported Average RRF (initial) | Recalculated Average RRF (initial) | Reported %RSD | Recalculated %RSD |
|---|---|---|---|---|---|---|---|---|---|
| 1 | ICAL | 1/25/12 | ~~Phenol (1st internal standard)~~ | | | | | | |
| | | | Naphthalene (2nd internal standard) | 3.606 | 3.606 | 3.773 | 3.773 | 8.47 | 8.47 |
| | | | ~~Fluorene~~ Anthracene (3rd internal standard) | 1.175 | 1.175 | 1.146 | 1.146 | 3.14 | 3.14 |
| | | | ~~Pentachlorophenol~~ Benzo(g) pyrene (4th internal standard) | 1.115 | 1.115 | 0.991 | 0.991 | 13.16 | 13.16 |
| | | | ~~Bis(2-ethylhexyl)phthalate (5th internal standard)~~ | | | | | | |
| | | | ~~Benzo(a)pyrene (6th internal standard)~~ | | | | | | |
| 2 | | | Phenol (1st internal standard) | | | | | | |
| | | | Naphthalene (2nd internal standard) | | | | | | |
| | | | Fluorene (3rd internal standard) | | | | | | |
| | | | Pentachlorophenol (4th internal standard) | | | | | | |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | | | | | | |
| | | | Benzo(a)pyrene (6th internal standard) | | | | | | |
| 3 | | | Phenol (1st internal standard) | | | | | | |
| | | | Naphthalene (2nd internal standard) | | | | | | |
| | | | Fluorene (3rd internal standard) | | | | | | |
| | | | Pentachlorophenol (4th internal standard) | | | | | | |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | | | | | | |
| | | | Benzo(a)pyrene (6th internal standard) | | | | | | |

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 28255126

# VALIDATION FINDINGS WORKSHEET
## Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

**METHOD:** GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
$A_x$ = Area of compound, $A_{is}$ = Area of associated internal standard
$C_x$ = Concentration of compound, $C_{is}$ = Concentration of internal standard

| # | Standard ID | Calibration Date | Compound (Reference Internal Standard) | Average RRF (initial) | Reported RRF (CC) | Recalculated RRF (CC) | Reported %D | Recalculated %D |
|---|---|---|---|---|---|---|---|---|
| 1 | RDJ003 | 4/2/12 | ~~Phenol (1st internal standard)~~ | | | | | |
| | | | Naphthalene (2nd internal standard) | 3.773 | 3.344 | 3.344 | 11.4 | 11.4 |
| | | | Anthracene ~~Fluorene~~ (3rd internal standard) | 1.146 | 1.099 | 1.099 | 4.1 | 4.1 |
| | | | Benzo(g)perylene ~~Pentachlorophenol (4th~~ internal standard) | 0991 | 1.056 | 1.056 | 6.6 | 6.6 |
| | | | ~~Bis(2-ethylhexyl)phthalate (5th internal standard)~~ | | | | | |
| | | | ~~Benzo(a)pyrene (6th internal standard)~~ | | | | | |
| 2 | RDJ152 | 4/9/12 | ~~Phenol (1st internal standard)~~ | | | | | |
| | | | ~~Naphthalene (2nd internal standard)~~ | | 3.339 | 3.339 | 11.5 | 11.5 |
| | | | Fluorene (3rd internal standard) | | 1.084 | 1.084 | 5.4 | 5.4 |
| | | | Pentachlorophenol (4th internal standard) | | 1.085 | 1.085 | 9.5 | 9.5 |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | | | | | |
| | | | ~~Benzo(a)pyrene (6th internal standard)~~ | | | | | |
| 3 | | | Phenol (1st internal standard) | | | | | |
| | | | Naphthalene (2nd internal standard) | | | | | |
| | | | Fluorene (3rd internal standard) | | | | | |
| | | | Pentachlorophenol (4th internal standard) | | | | | |
| | | | Bis(2-ethylhexyl)phthalate (5th internal standard) | | | | | |
| | | | Benzo(a)pyrene (6th internal standard) | | | | | |

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 28254b

# VALIDATION FINDINGS WORKSHEET
## Surrogate Results Verification


Reviewer: FT
2nd reviewer:

**METHOD:** GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

**Sample ID:** #1

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|---|---|---|---|---|---|
| Nitrobenzene-d5 | 10.0 | 6.77 | 67.7 | 67.7 | 0 |
| 2-Fluorobiphenyl | ↓ | 6.82 | 68.2 | 68.2 | ↓ |
| Terphenyl-d14 | ↓ | 8.80 | 88.0 | 88.0 | ↓ |
| Phenol-d5 | | | | | |
| 2-Fluorophenol | | | | | |
| 2,4,6-Tribromophenol | | | | | |
| 2-Chlorophenol-d4 | | | | | |
| 1,2-Dichlorobenzene-d4 | | | | | |

**Sample ID:**

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|---|---|---|---|---|---|
| Nitrobenzene-d5 | | | | | |
| 2-Fluorobiphenyl | | | | | |
| Terphenyl-d14 | | | | | |
| Phenol-d5 | | | | | |
| 2-Fluorophenol | | | | | |
| 2,4,6-Tribromophenol | | | | | |
| 2-Chlorophenol-d4 | | | | | |
| 1,2-Dichlorobenzene-d4 | | | | | |

**Sample ID:**

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|---|---|---|---|---|---|
| Nitrobenzene-d5 | | | | | |
| 2-Fluorobiphenyl | | | | | |
| Terphenyl-d14 | | | | | |
| Phenol-d5 | | | | | |
| 2-Fluorophenol | | | | | |
| 2,4,6-Tribromophenol | | | | | |
| 2-Chlorophenol-d4 | | | | | |
| 1,2-Dichlorobenzene-d4 | | | | | |

LDC #: 28255H2b

# VALIDATION FINDINGS WORKSHEET
## Matrix Spike/Matrix Spike Duplicates Results Verification


Reviewer: FT
2nd Reviewer:

**METHOD:** GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA  Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentation

RPD = I MSC - MSC I * 2/(MSC + MSDC)  MSC = Matrix spike concentration  MSDC = Matrix spike duplicate concentration

MS/MSD samples: 8 + 9

| Compound | Spike Added (ug/kg) | | Sample Concentration (ug/kg) | Spiked Sample Concentration (ug/kg) | | Matrix Spike Percent Recovery | | Matrix Spike Duplicate Percent Recovery | | MS/MSD RPD | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MS | MSD | ------ | MS | MSD | Reported | Recalc | Reported | Recalc | Reported | Recalculated |
| Phenol | | | | | | | | | | | |
| N-Nitroso-di-n-propylamine | | | | | | | | | | | |
| 4-Chloro-3-methylphenol | | | | | | | | | | | |
| Acenaphthene | 360 | 360 | ND | 274 | 292 | 76 | 76 | 81 | 81 | 6 | 6 |
| Pentachlorophenol | | | | | | | | | | | |
| Pyrene | ↓ | ↓ | 23.9 | 359 | 324 | 93 | 93 | 84 | 84 | 10 | 10 |
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Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 28255H2b

# VALIDATION FINDINGS WORKSHEET
## Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: C

**METHOD:** GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA  Where: SSC = Spike concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC)  LCSC = Laboraotry control sample concentration  LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: LCS 10

| Compound | Spike Added (ug/kg) | | Spike Concentration (ug/kg) | | LCS Percent Recovery | | LCSD Percent Recovery | | LCS/LCSD RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| | LCS | LCSD | LCS | LCSD | Reported | Recalc | Reported | Recalc | Reported | Recalculated |
| Phenol | | | | | | | | | | |
| N-Nitroso-di-n-propylamine | | | | | | | | | | |
| 4-Chloro-3-methylphenol | | | | | | | | | | |
| Acenaphthene | 333 | 333 | 282 | 258 | 84 | 84 | 77 | 77 | 9 | 9 |
| Pentachlorophenol | | | | | | | | | | |
| Pyrene | ↓ | ↓ | 313 | 291 | 94 | 94 | 87 | 87 | 7 | 7 |
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Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 28255#2b

# VALIDATION FINDINGS WORKSHEET
## Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: E

**METHOD:** GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

$A_x$ = Area of the characteristic ion (EICP) for the compound to be measured

$A_{is}$ = Area of the characteristic ion (EICP) for the specific internal standard

$I_s$ = Amount of internal standard added in nanograms (ng)

$V_o$ = Volume or weight of sample extract in milliliters (ml) or grams (g).

$V_i$ = Volume of extract injected in microliters (ul)

$V_t$ = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. #1, Naphthalene

Conc. = $\frac{(2097)(40)(1)(1000)}{(345914)(3.773)(30)(0.882)}$

= 2.4 ug/kg

| # | Sample ID | Compound | Reported Concentration ( ) | Calculated Concentration ( ) | Qualification |
|---|---|---|---|---|---|
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# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** Santa Susana Field Laboratory

**Collection Date:** March 23, 2012

**LDC Report Date:** August 31, 2012

**Matrix:** Soil

**Parameters:** Chlorinated Pesticides

**Validation Level:** Level IV

**Laboratory:** EMAX Laboratories, Inc.

**Sample Delivery Group (SDG):** 12C254

**Sample Identification**

SL-048-NBZ-SS-0.0-0.5
SL-057-NBZ-SS-0.0-0.5
DUP-02-NBZ-QC-032312
SL-057-NBZ-SS-0.0-0.5MS
SL-057-NBZ-SS-0.0-0.5MSD

## Introduction

This data review covers 5 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8081A for Chlorinated Pesticides.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.